

Jacob ROSCHY's
Röhrenchronik - Datei
Rocro24

Diese Röhrenchronik - Datei listet alle bekannten und viele wenig bekannte Röhrentypen auf, welche während des Röhrenzeitalters auf der Welt und besonders in Europa erschienen sind.
Außer dem Ausgabedatum werden noch Angaben über Röhrenart, Sockel, Heizung, Paralleltypen, Vorgänger und Nachfolger genannt, sofern bekannt.

Sie dient sowohl dem Röhrensammler und -Interessenten wie auch dem Sammler historischer Rundfunkgeräte, um anhand des Röhrensatzes das Alter eines Gerätes bestimmen zu können.

Statt vagen Vermutungen, (Fehl-)Schätzungen und -Spekulationen, wann eine Röhre herauskam, finden Sie hier konkrete Angaben.

Die eigentliche **Röhrenchronik - Datei** finden Sie hinter der nachfolgenden **Abkürzungs-Legende**.

Gewerbliche Nutzung verboten !

Hier vorab einige Beispiele:

ABC1, AC2, AF3, AF7, AH1, AK2, AL1, AL2, AZ1 : alle März 1935

EB4, EBC3, EF5, EF6, EK2, EL2, EL3, EL5, EM1, EZ2, EZ3 und EZ4 : alle Mai 1936

6L6: März 1936, 6V6 : Juli 1937

EL60 : Januar 1948, EL34 : Mai 1949, EL84 : Februar 1953

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**Abkürzungs-Legende zur Röhrenchronik - Datei [Rocro24.pdf] :**

Um nur das Ausgabedatum einer Röhre zu finden, brauchen Sie außer unter **TYPE** nur noch auf den Eintrag in **DAT1** zu sehen. Die weiteren Angaben geben Auskunft über die Dokumenten- Quelle, Hersteller, Länder / Kontinente, Systeme, Sockel, Heizung, Parallel- und Originaltypen, Vorgänger und Nachfolger, sowie deren Abweichungen gegenüber dem angesprochenen Typ.

Zu Spalten :

**DAT1** = frühestes oder einziges bekanntes Datum der Ankündigung oder Herausgabe dieser Röhre.

**QU1** = Dokumenten- Quelle, in der die früheste Erwähnung der betreffenden Röhre gefunden wurde.

Dies kann eine Fachzeitschrift wie die Funkschau, Funktechnik etc. sein oder auch Unterlagen vom Röhrenhersteller selbst. Dabei ist zu beachten, dass Publikationen, welche Röhrenhersteller an die Gerätehersteller geliefert hatten, oft schon um Monate früher erschienen, als Veröffentlichungen von neuen Röhren in Fachzeitschriften. Ähnliches gilt auch für Datierungen, die auf Röhrendaten- und Kennlinienblättern gefunden werden, die oft schon vor der Massenproduktion angefertigt wurden.

Inhalt von **DAT1**:

Erste und zweite Ziffer = Jahr 19xx , danach erfolgt, soweit bekannt, die Monatsangabe:

|    |         |    |           |
|----|---------|----|-----------|
| Ja | Januar  | Jl | Juli      |
| Fe | Februar | Au | August    |
| Mr | März    | Sp | September |
| Ap | April   | Oc | Oktober   |
| My | Mai     | No | November  |
| Jn | Juni    | De | Dezember  |

Spalteninhalt von **QU1**:

|          |                                                                                                                                      |
|----------|--------------------------------------------------------------------------------------------------------------------------------------|
| 70Y      | "70 Years of Radio Tubes and Valves" v. John W. Stokes, Neuseeland, Vestal Press, 1982                                               |
| DRM      | Deutsches Rundfunkmuseum, (Katalog).                                                                                                 |
| EIA      | "Electron Tube Registration List", 1973, Electronic Industries Association, USA.                                                     |
| FBT      | Funkschau- Bestückungstabelle 1947                                                                                                   |
| _FG_     | (Nr.) FUNKGESCHICHTE (Seite)                                                                                                         |
| _FS_     | (Jahr) "Funkschau" (Nr.), Franzis- Verlag, München.                                                                                  |
| _FT_     | (Jahr) "Funktechnik" (Nr.), Wedding- Verlag, Berlin.                                                                                 |
| HER      | Edward W. Herold (RCA- Röhrenentwickler) : "Memories of early electron- tube development" in "The AWA Review", Vol. 7, 1992.         |
| HLR'     | "Histoire de la lampe de radio", v. B. Machard, Frankreich 1989.                                                                     |
| HBV      | "History of the British Radio Valve to 1940", v. K.R. Thrower, 1992, England.                                                        |
| _NVH_    | (Jahr) NVHR (Nr.)<br>Zeitschrift der Nederlandse Vereniging voor de Historie van de Radio                                            |
| PA       | Aus Philips- Archiv, Eindhoven, Niederlande                                                                                          |
| PBD      | Philips- Bulletin, deutsche Ausgabe                                                                                                  |
| PBE      | Philips- Bulletin, englische Ausgabe                                                                                                 |
| PBF      | Philips- Bulletin, französische Ausgabe                                                                                              |
| PBN      | Philips- Bulletin, niederländische Ausgabe                                                                                           |
| PB2      | "Daten und Schaltungen moderner ... Röhren", Band 2, Philips, 1940.                                                                  |
| PB 3 / 4 | ...desgl., Band 3 / 4                                                                                                                |
| PD       | "History and Development of the All- Metal Radio Tube" v. Bro. Patrick Dowd, im "Old Timer's Bulletin", Vol.33, Juni 1992, AWA, USA. |
| PR       | "Philips Radios 1927 - 1940" (franz. Reprint ca. 1988)                                                                               |
| RH39     | "Rundfunkröhren - Eigenschaften u. Anwendung" v. Ludwig Ratheiser, Berlin 1939.                                                      |
| RH55     | "Röhrenhandbuch" v. L. Ratheiser, München 1955.                                                                                      |
| TF25     | Jubiläumsschrift 25 Jahre Telefunken, 1928.                                                                                          |
| TF50     | Jubiläumsschrift 50 Jahre Telefunken, Mai 1953.                                                                                      |
| TRM_     | Telefunken- Röhrenmitteilungen (Nr.)                                                                                                 |
| _TZ_     | (Nr.) Telefunken- Zeitung (Seite)                                                                                                    |
| VVB_     | Valvo- Berichte (Nr.)                                                                                                                |
| VV40     | Valvo- Berichte: Sonderheft 40 Jahre Valvo                                                                                           |
| %        | Datenblätter, Kataloge                                                                                                               |

**L = Länder / Kontinente**

|   |                                    |
|---|------------------------------------|
| A | USA / Amerika                      |
| B | Belgien                            |
| C | Canada                             |
| D | Deutschland (D. Reich)             |
| E | Europa                             |
| F | Frankreich                         |
| G | Großbritannien                     |
| H | Ungarn                             |
| I | Italien                            |
| J | Japan                              |
| N | Niederlande                        |
| O | Österreich                         |
| Q | Europa außer Deutschland           |
| S | Schweden                           |
| T | Tschechoslowakei                   |
| U | Sowjetunion                        |
| V | Australien                         |
| W | Westdeutschland (1945...1990)      |
| X | Schweiz                            |
| Y | Ostdeutschland / DDR (1945...1990) |

| <b>HSL=</b> | <b>Hersteller</b>      | <b>Land</b> |
|-------------|------------------------|-------------|
| AEG         | AEG                    | D/W         |
| ADZ         | Adzam                  | B           |
| ARC         | Arcturus               | A           |
| BBC         | BBC                    | X           |
| BLV         | Belvue                 | F           |
| BMA         | Brimar                 | G           |
| CBS         | CBS                    | A           |
| CER         | Cerberus               | X           |
| CGH         | Cunningham             | A           |
| DAR         | Dario                  | F           |
| DEL         | Delta (Dr.Spanner)     | D           |
| DFR         | De Forest              | A           |
| DLY         | Dolly-Valves           | D           |
| ELS         | Elesta                 | X           |
| FIV         | Fivre                  | I           |
| FWE         | Funkwerk Erfurt        | Y           |
| GEC         | General Electric Comp  | G           |
| GEL         | General Electric       | A           |
| GEM         | Gemeinschaftstyp       | -           |
| GRA         | Gri- Amateur           | D           |
| GRN         | Grünberger, Wien       | A           |
| H&K         | Heintz & Kaufman       | A           |
| HAL         | Haltron                | G           |
| HEL         | Helikon / Wien         | O           |
| HOL         | Hollam                 | N           |
| HOV         | Hova                   | D           |
| HUT         | Huth                   | D           |
| HYT         | Hytron                 | A           |
| IBM         | IBM                    | A           |
| IDL         | Ideal (Blaupunkt)      | D           |
| KRD         | Ken Rad                | A           |
| KRM         | Kremenetzky, WIEN      | O           |
| LOR         | Lorenz                 | W           |
| LWO         | Loewe - Opta           | D/W         |
| MAJ         | Majestic               | A           |
| MDA         | Miniwatt- Dario        | F           |
| MET         | Metal (später Mazda-F) | F           |
| MOV         | Marconi- Osram- Valve  | G           |
| MRC         | Mercedes               | D           |
| MRS         | Mars                   | T           |
| MUL         | Mullard                | G           |
| MWF         | Miniwatt France        | F           |
| MZE         | Mazda England          | G           |

|     |                                     |     |
|-----|-------------------------------------|-----|
| MZF | Mazda France                        | F   |
| NEO | Neotron                             | F   |
| NGL | Dr. Niggel                          | D   |
| NOW | Nowak, Wien                         | O   |
| NUN | National Union                      | A   |
| OSR | Osram (Deutschl.)                   | D/W |
| OST | Ostar                               | O   |
| PCO | Philco                              | A   |
| PLP | Philips                             | N/E |
| RAR | Radio Record                        | N   |
| RAY | Raytheon                            | A   |
| RCA | RCA                                 | A   |
| REC | Rectron                             | D   |
| RFG | Radiofotos Grammont                 | F   |
| RFT | RFT                                 | Y   |
| ROG | Rogers Canada                       | C   |
| RRF | Radoröhrenfabrik<br>Hamburg (Valvo) | D   |
| RTQ | Radiotechnique                      | F   |
| RWN | Röhrenwerk Neuhaus                  | Y   |
| SAT | Sator (= Tungstram)                 | O   |
| SBT | Seibt                               | D   |
| SER | Svenska Elektronrör                 | S   |
| SIM | Siemens (& Halske)                  | W   |
| SPE | Speed                               | A   |
| SOU | Sowjet- Union                       | U   |
| SOV | Sovtec                              | R   |
| STV | Stabivolt                           | D   |
| SYL | Sylvania                            | A   |
| TES | Tesla                               | T   |
| TFK | Telefunken                          | D/W |
| TKD | TeKaDe                              | D/W |
| TRI | Triad                               | A   |
| TRM | Tungstram                           | H/O |
| TUS | Tung Sol                            | A   |
| ULT | Ultra- Dr. Nickel                   | D   |
| VAL | Valvo                               | D/W |
| VIS | Visseaux                            | F   |
| VOL | Voltron, Wien                       | A   |
| WEC | Western Electric                    | A   |
| WEH | Westinghouse                        | A   |
| ZNT | Zenith                              | I/A |
| XXX | Nachbau / Neubau                    | -   |

|   |                                              |
|---|----------------------------------------------|
| P | profess./ "kommerzielle" Röhre (E88CC, 5654) |
| Q | Außenseiter- Typ (ECH80)                     |
| S | Heiz- Spar- Röhre (6G6)                      |
| U | unsinnige / irreführende Bezeichnung         |
| W | Militär- / Wehrmacht- Röhre                  |
| X | war nicht in Serienproduktion                |

**TYPE** = zu behandelnder Typ in alphanumerischer Folge

**SYST** = Systembezeichnungen :

Zur Angabe, welche Systeme die jeweilige Röhre enthält, wurde grundsätzlich die offizielle europäische Norm verwendet, die jedoch zwecks genauerer Bestimmung hier erweitert wurde. So ist z. B. ersichtlich, daß eine ACH1 eine intern fest verbundene Triode- Hexode (G), eine ECH4 jedoch eine Triode- Heptode mit getrennten Systemen ist (CI).

|    |                                                            |
|----|------------------------------------------------------------|
| A  | Signaldiode (EA50)                                         |
| a  | Rauschdiode                                                |
| B  | Doppel- Signaldiode mit gemeinsamer Katode (AB2)           |
| C  | Triode (Vorstufen) (AC2)                                   |
| D  | Triode (Endstufen) (AD1)                                   |
| d  | Ballast- Triode (PD500)                                    |
| E  | Tetrode (Vorstufen),linear(RENS1204)                       |
| E° | Regeltetrode (RENS1214)                                    |
| F  | (nur) Regelpentode (AF3)                                   |
| G  | Triode- Hexode fest verbunden, regelbar (ACH1)             |
| H  | nur freie oder einzelne Hexode° (AH1)                      |
| I  | nur freie oder einzelne Heptode° (EH2)                     |
| J  | Pentode linear (AF7)                                       |
| K  | Oktode (AK2) oder Pentagrid-Converter mit Hilfsanode (6A8) |
| L  | nur Endpentoden (AL1, 6F6)                                 |
| M  | Magisches Auge, -Fächer, -Band usw. (EM4) (Indikator)      |
| N  | Mischheptode mit ECO- Oszillator- Schaltung (EK90)         |
| O  | Triple- Twin / Darlington- Röhren (6B5, 6N6)               |
| P  | Sekundäremissionsröhre (EE1)                               |
| p  | Photozelle                                                 |
| Q  | Phasendiscriminator (6BN6, EQ80)                           |
| R  | Stromstabilisator (C1, U30)                                |
| S  | Strahlbündelpentode / Tetrode (6V6, ECL11)                 |
| ß  | Halbleiter - System                                        |
| T  | Thyratron (EC50)                                           |
| U  | Triode- Heptode, fest verbunden (6J8, ECH2)                |
| V  | Spannungsstabilisator (150C2)                              |
| W  | Gasgleichr. Einweg                                         |
| X  | Gasgleichr. Zweiweg (AX50)                                 |
| Y  | Einweggleichrichter (CY1)                                  |
| y  | Hochsp. Gleichrichter (DY86)                               |
| \$ | Booster- Diode (PY88)                                      |
| Z  | Zweiweggleichrichter (AZ1)                                 |
| ]  | Außensteuer- Röhre (Arcotron)                              |

Zusatzangaben zu **SYST** :

|   |                                                        |
|---|--------------------------------------------------------|
| b | Ua = 6...28 V Autobatterie (EF98, ECC86)               |
| n | für Niedervolt- Netze (110V) (25L6, CL6)               |
| r | mit Raumladegitter (RE074d)                            |
| v | nur für HF- Vorstufen (EF8)                            |
| z | Zeilenendröhre (PL36)                                  |
| ) | eine Einheit bzw. System                               |
| + | für Aussteuerung im + Bereich (EDD11, 6N7, 6AC5, KDD1) |
| ° | Regelbar (ausnahmsweise)                               |
| % | nicht regelbar (ausnahmsweise)                         |
| - | getrennte Katoden                                      |

#### **Sockel:**

Definition: Als Sockel wird der untere Teil einer Röhre bezeichnet, welcher mit seinen Kontakten (Stifte, Krallen) die Verbindung zur Schaltung herstellt und die Röhre im Gerät trägt. Der **Sockel** ist also der „**Röhrenfuß**“.

Die Bauteile, in welche man die Röhren(füße) einsteckt, werden **Fassungen** und **nicht** Sockel genannt. Seit es jedoch Röhren gibt, werden gegen jede Logik von vielen Personen, - darunter auch echte Profis, die es wissen müssten - , diese Fassungen fälschlicherweise ebenfalls als Sockel bezeichnet, obwohl diese das Gegenteil davon sind.

Wenn also die "Röhrenfüße" schon Sockel genannt werden, sollte doch klar sein, dass man die "Röhrenschuhe" nicht ebenfalls Sockel nennen kann. Im Schuhgeschäft sagt doch auch niemand : "bitte ein Paar neue Füße".

**SOC** = Sockel

**Abkürzungen:**

|     |                                     |
|-----|-------------------------------------|
| Ac5 | Acorn / Eichel 5p (955)             |
| Ac7 | Acorn / Eichel 7p (954)             |
| Au5 | Außenkontakt 5p (AB2, VY2)          |
| Au8 | Außenkontakt 8p (AF7, EBL1)         |
| Br7 | British 7p "Trapezoid"              |
| Cmp | Compactron (6K11)                   |
| Dec | Decal (PFL200)                      |
| E14 | E14- Edison- Schraub                |
| E27 | E27- " "                            |
| E40 | E40- " "                            |
| Eu3 | Europa 3p (RGN354, 1810)            |
| Eu4 | Europa 4p (RE604, 1805)             |
| Eu5 | Europa 5p (REN904, E424)            |
| Gno | Gnom (DDR) (ECH171)                 |
| Hx6 | Hexoden 6p (RENS1254, E444, E463)   |
| Hx7 | Hexoden 7p (RENS1234, E449, ACH1)   |
| Lo8 | Loktal 8p (UCH21, 7C5)              |
| Lo9 | Loktal 9p (EF50, EL60)              |
| Mi7 | Miniatur 7p (EL90, 6BA6)            |
| Mno | Magnoval (PL509)                    |
| MOc | "British- Mazda- Octal"             |
| N10 | Noval mit Mittelstift (USA E10-73)  |
| No  | Noval (EL84, 6U8)                   |
| Nu  | Nuvistor                            |
| Oc  | Octal (6K7, EM34)                   |
| p   | -polig (Stiftzahl)                  |
| Ri  | Rimlock (EL41)                      |
| S4r | Subminiatur 4p rund (AC701)         |
| S5r | Subminiatur 5p rund                 |
| S5f | Subminiatur 5p flach                |
| S7f | Subminiatur 7p flach                |
| S8r | Subminiatur 8p rund                 |
| S10 | Stahl 10p (EL156)                   |
| Se5 | Septar 5p                           |
| Se7 | Septar 7p (832)                     |
| Sk  | Seitenkontakt (WM)                  |
| Sm  | Subminiatur                         |
| Sm3 | Subminiatur 3p (EA50)               |
| SmS | Subminiatur spezial                 |
| SpA | Spezial Allglas                     |
| SpS | Spezialsockel (alt)                 |
| St8 | Stahl 8p (EF11)                     |
| TFK | Telefunken (alt, 4p)                |
| U4  | Amerikanisch 4p (80)                |
| U5  | Amerikanisch 5p (27, 807)           |
| U6  | Amerikanisch 6p (42)                |
| U7s | Amerikanisch 7p "small" (6A7)       |
| U7m | Amerikanisch 7p "medium" (59, 2C34) |
| Wm6 | Sk 6p Wehrmacht (RV12...)           |
| Wm8 | Sk 8p Wehrmacht                     |

## HZ = Heizung:

Der erstgenannte Buchstabe bezeichnet die hauptsächlich zugeordnete Heizart. Entsprechen bei einer Röhre sowohl Heizspannung wie auch Heizstrom einem Normwert, so ist der zweite Wert ebenfalls angegeben. So erhält eine ECH3 ein E für 6,3 V, aber auch noch ein C für 0,2 A Heizstrom, eine HF93 erhält neben dem H für 0,15 A noch ein F für 12,6 V Heizspannung.

Heizungsart: Offizielle europäische Norm in Normalschrift, nur hier verwendete Bezeichnungen: in kursiv

|   |                                                |
|---|------------------------------------------------|
| A | 4 V Parallel, = ~ indirekt                     |
| B | 0,18 A Serie, = i                              |
| C | 0,2 A Serie, = ~ i                             |
| D | Batterie 1,1...1,6 V, = d                      |
| E | 6,3 V Parallel, Netz + Autobatterie, ~ = i     |
| F | 12,6...13 V, Autobatt., = ~ i                  |
| G | 5 V Parallel ~ Gleichrichter- Röhren, d, i, h, |
| H | 0,15 A Serie, i                                |
| J | 2,5 V ~ Parallel, i, d, (USA)                  |
| K | 2,0 V = Akku, d (i)                            |
| L | 0,45 A Serie, ~ = i                            |
| M | 1,6...1,9 V                                    |
| N | ohne Heizung                                   |
| O | 4 V direkt (3,2...4 V)                         |
| P | 0,3 A Serie, ~ = i                             |
| Q | 11 V (Frankreich), i                           |
| R | 2,1...2,4 V                                    |
| S | Sonder - Heizdaten                             |
| T | 2,6...3,1 V                                    |
| U | 0,1 A Serie, ~ = i                             |
| V | 0,05 A Serie, ~ = i                            |
| W | 7...9 V                                        |
| X | 0,6 A, ~ = i                                   |
| Y | 0,5...1,1 V                                    |

## Heizungsart:

|   |                                     |
|---|-------------------------------------|
| = | Gleichstrom                         |
| ~ | Wechselstrom                        |
| d | allgem. direkte H <sub>z</sub> g.   |
| i | allgem. indirekte H <sub>z</sub> g. |
| h | halbindirekte H <sub>z</sub> g.     |

## 3.) Zusatzbezeichnungen bei HZ (Angaben sofern bekannt)

|   |                           |
|---|---------------------------|
| d | direkt                    |
| m | dir. m. Mittelanz.        |
| i | indirekt                  |
| c | ind. mit Mittelanz.       |
| h | halbindirekt              |
| o | Oxyd- Katode              |
| s | ind. mit Anz. f. Skalenl. |
| t | thorierte Katode          |
| w | Wolfram- Katode           |

## Spalten für Röhrentypen im Vergleich

|      |                          |
|------|--------------------------|
| PLL. | Paralleltyp              |
| PA   | Abweichungen Paralleltyp |
| OGTY | Vorbild (Originaltyp)    |
| OA   | Abweichungen Vorbild     |
| VRG  | Vorgänger- Typ           |
| VA   | Abweichungen Vorgänger   |
| NFG  | Nachfolger               |
| NA   | Abweichungen Nachfolger  |

Zu Spalten **PLL.**, **OGTY**, **VRG** und **NFG**:

**R\_** Abkürzung für REN(S)

Zu Spalten **AP** / **AO** / **VA** / **NA**:

[ erster Typ dieser Art  
& erster Typ dieser Art in diesem Land bzw. Kontinent  
% erster und letzter Typ dieser Art (Eintagsfliege)  
] letzter Typ dieser Art  
\* siehe Text

#### Abweichungen :

~ geringfügige Abweichungen  
> größer, stärker  
< kleiner, schwächer  
=\ ungleich  
# andere, ggf. neuere Bezeichn.  
A hochwertigere (profi)- Ausführung  
B Normalausf. einer Profi- R.  
bzw. einfacherer Aufbau  
C Character(istik)  
Chct Character(istik)  
D Direkte Heizung  
E Einzelsystemröhre oder weniger Systeme  
F Anderer Aufbau, sonst gleich  
G =\ Grenzwerte  
H =\ Heizung  
I Indirekte Heizung  
J andere Systemzusammenst.  
K Konkurrenztyp  
L =\ Leuchtschirm  
M Mehrsystemröhre oder mehr Systeme als Vergleichstyp  
N Nächsthöhl. Vergleichstyp  
O =\ Sockelschaltung =\ Hzg =\ Chct  
P Pentode als Triode geschaltet  
Q Paralleltyp Ausland  
R =\ Sockel =\ Hzg  
S =\ Sockel  
T =\ Sockel =\ Chct  
U =\ Sockel =\ Hzg =\ Chct  
V =\ nur Sockelschaltung  
W =\ Sockelschaltung =\ Hzg  
X =\ Sockelschaltung =\ Chct  
Y anderes System / Prinzip  
Z =\ Heizung =\ Chct  
! Sinnvolle(re) Normbezeichnung  
(Vorschlag, inoffiziell)

Weitere Abweichungen unter "Zusatzangaben zu **SYST**"



| DAT1 | QU1 | L | HSL | TYPE | SYST | SOC | HZ | PLL   | PA | OGTY | OA | VRG    | VA | NFG  | NA |
|------|-----|---|-----|------|------|-----|----|-------|----|------|----|--------|----|------|----|
| 2x   |     | A |     | 00A  | C    | U4  | Gd |       |    |      |    |        |    |      |    |
| 2x   |     | A | RCA | 01A  | C    | U4  | Gd |       |    |      |    | UX201A | #  |      |    |
| 45Jn | EIA | A |     | 0A2  | V    | Mi7 | N  | 150C2 | Q  |      |    | 0A3    | T  |      | ]  |
| 44Mr | EIA | A |     | 0A3  | V    | Oc  | N  | VR75  | K  |      |    |        |    |      |    |
| 38Ap | EIA | A |     | 0A4  | T    | Oc  | N  |       |    |      |    |        |    |      |    |
| 47Ja | EIA | A |     | 0A5  | T    | Oc  | N  |       |    |      |    |        |    |      |    |
| 45My | EIA | A |     | 0B2  | V    | Mi7 | N  | 108C1 | Q  |      |    | 0C3    | T  |      |    |
| 42Sp | EIA | A |     | 0B3  | V    | Oc  | N  | VR90  | K  |      |    |        |    |      |    |
| 44Mr | EIA | A |     | 0C3  | V    | Oc  | N  | VR105 | K  |      |    |        |    | 0B2  | T  |
| 42Sp | EIA | A |     | 0D3  | V    | Oc  | N  | VR150 | K  |      |    |        |    | 0A2  | T  |
| 52My | EIA | A |     | 0G3  | V    | Mi7 | N  | 85A2  | Q  |      |    |        |    |      |    |
| 45Sp | EIA | A | RAY | 0Y4  | T    | Oc  | N  |       |    |      |    |        |    |      |    |
| 35Jn | EIA | A |     | 0Z3  | X    | U5  | N  |       |    |      |    |        |    | 0Z4  | S  |
| 35Oc | EIA | A | RAY | 0Z4  | X    | Oc  | N  |       |    | 0Z3  | S  | 0Z3    | S  |      | ]  |
| 42My | EIA | A |     | 1A3  | A    | Mi7 | Di | DA90  | Q  |      |    |        |    |      |    |
| 35My | EIA | A |     | 1A4P | J    | U4  | K  |       |    | 1A4T |    | 1A4T   | Y  |      |    |
| 3x   |     | A |     | 1A4T | E    | U4  | K  |       |    |      |    |        |    | 1A4P | Y  |
| 38Jn | EIA | A |     | 1A5  | L    | Oc  | D  | DL31  | Q  |      |    |        |    |      |    |
| 33Au | HER | A |     | 1A6  | K    | U6  | K  |       |    |      |    |        |    |      |    |
| 38Jn | EIA | A |     | 1A7  | K    | Oc  | D  | DK32  | Q  |      |    |        |    |      |    |
| 44Mr | EIA | A |     | 1AB5 | J    | Lo8 | D  |       |    |      |    |        |    |      |    |
| 51Oc | EIA | A |     | 1AB6 | K    | Mi7 | D  |       |    |      |    |        |    |      |    |
| 48De | EIA | A |     | 1AC5 | J    | S8r | D  |       |    |      |    |        |    |      |    |
| 51Oc | EIA | A |     | 1AC6 | K    | Mi7 | D  |       |    |      |    |        |    |      |    |
| 49Ja | EIA | A |     | 1AD4 | J    | S4r | D  | DF62  | Q  |      |    |        |    |      |    |
| 48De | EIA | A |     | 1AD5 | J    | S8r | D  |       |    |      |    |        |    |      |    |
| 50Mr | EIA | A |     | 1AE4 | J    | Mi7 | D  |       |    |      |    |        |    |      |    |
| 50Fe | EIA | A |     | 1AF4 | J    | Mi7 | D  | 1AJ4  | K  |      |    |        |    |      |    |
| 50Fe | EIA | A |     | 1AF5 | AJ   | Mi7 | D  |       |    |      |    |        |    |      |    |
| 51Oc | EIA | A |     | 1AH5 | AJ   | Mi7 | D  | DAF96 | Q  |      |    |        |    |      |    |
| 53My | EIA | A |     | 1AJ4 | J    | Mi7 | D  | DF96  | Q  |      |    |        |    |      |    |
| 59Fe | EIA | A |     | 1AN5 | J    | Mi7 | D  | DF97  | Q  |      |    |        |    |      |    |
| 52Mr | EIA | A |     | 1AX2 | y    | No  | D  |       |    |      |    |        |    |      |    |
| 46Jn | EIA | A |     | 1B3  | y    | Oc  | D  | DY30  | Q  |      |    |        |    |      |    |
| 35Au | EIA | A |     | 1B4P | J    | U4  | K  |       |    |      |    |        |    |      |    |
| 41My | EIA | A |     | 1B4T | E    | U4  | K  |       |    |      |    |        |    |      |    |
| 3x   |     | A |     | 1B5  | BC   | U6  | K  | 1LH4  | K  |      |    |        |    |      |    |
| 39Mr | EIA | A |     | 1B7  | K    | Oc  | D  |       |    |      |    |        |    |      |    |
| 39Sp | EIA | A |     | 1B8  | ACJ  | Oc  | D  |       |    |      |    |        |    |      |    |
| 4x   |     | A |     | 1BG2 | y    | SpA | Dh | DY51  | Q  |      |    |        |    |      |    |
| 49Au | EIA | A |     | 1C3  | C    | Mi7 | D  |       |    |      |    |        |    |      |    |
| 38Jn | EIA | A |     | 1C5  | L    | Oc  | D  |       |    |      |    |        | T  |      |    |
| 34Fe | EIA | A |     | 1C6  | K    | U6  | K  |       |    |      |    |        |    | 1C7  | S  |
| 36My | EIA | A |     | 1C7  | K    | Oc  | K  |       |    | 1C6  | S  | 1C6    | S  |      |    |
| 46Ja | EIA | A |     | 1C8  | l    | S8r | D  |       |    |      |    |        |    |      |    |
| 36Ap | EIA | A |     | 1D5P | F    | Oc  | K  |       |    |      |    |        |    |      |    |
| 3x   |     | A |     | 1D5T | E    | Oc  | K  |       |    |      |    |        |    |      |    |
| 36Ap | EIA | A |     | 1D7  | K    | Oc  | K  |       |    |      |    |        |    |      |    |
| 39Jn | EIA | A |     | 1D8  | ACJ  | Oc  | D  |       |    |      |    |        |    |      |    |
| 18My | PA  | N | PLP | 1 DZ | C    | TFK | O  |       |    |      |    |        |    |      |    |
| 51Oc | EIA | A |     | 1E3  | D    | No  | D  |       |    |      |    |        |    |      |    |
| 39Fe | EIA | A |     | 1E4  | C    | Oc  | D  |       |    |      |    |        |    |      |    |
| 36My | EIA | A | RCA | 1E5P | J    | Oc  | K  |       |    |      |    | 6SS7   |    |      |    |
| 36My | EIA | A |     | 1E7  | LL   | Oc  | K  |       |    |      |    |        |    |      |    |
| 48De | EIA | A |     | 1E8  | l    | S8r | D  |       |    |      |    |        |    |      |    |
| 36Fe | EIA | A |     | 1F4  | L    | U5  | K  |       |    |      |    |        |    | 1F5  | S  |
| 36My | EIA | A |     | 1F5  | L    | Oc  | K  |       |    | 1F4  | S  | 1F4    | S  |      |    |
| 36Ap | EIA | A |     | 1F6  | BJ   | U6  | K  |       |    |      |    |        |    |      |    |
| 36Jn | EIA | A |     | 1F7  | BJ   | Oc  | K  |       |    |      |    |        |    |      |    |
| 57Mr | EIA | A |     | 1G3  | y    | Oc  | D  | DY30  | Q  |      |    |        |    |      |    |
| 39Ja | EIA | A |     | 1G4  | D    | Oc  | D  |       |    |      |    |        |    |      |    |
| 37Fe | EIA | A |     | 1G5  | L    | Oc  | K  |       |    |      |    |        |    |      |    |
| 39Ja | EIA | A |     | 1G6  | DD + | Oc  | D  |       |    |      |    |        |    |      |    |

| DAT1 | QU1    | L | HSL | TYPE   | SYST | SOC | HZ | PLL   | PA | OGTY | OA | VRG | VA | NFG  | NA |
|------|--------|---|-----|--------|------|-----|----|-------|----|------|----|-----|----|------|----|
| 58Jl | EIA    | A |     | 1H2    | y    | No  | Dh | DY86  | Q  |      |    |     |    |      |    |
| 36My | EIA    | A | RCA | 1H4    | C    | Oc  | K  |       |    |      |    |     |    |      |    |
| 38Jn | EIA    | A |     | 1H5    | AC   | Oc  | D  | DAC32 | Q  |      |    |     |    |      |    |
| 36My | EIA    | A |     | 1H6    | BC   | Oc  | K  |       |    |      |    |     |    |      |    |
| 57Ap | EIA    | A |     | 1J3    | y    | Oc  | D  | DY30  | Q  |      |    |     |    |      |    |
| 37Mr | EIA    | A |     | 1J5    | L    | Oc  | K  |       |    |      |    |     |    |      |    |
| 36My | EIA    | A |     | 1J6    | DD + | Oc  | K  | KDD1  | Q  |      |    |     |    |      |    |
| 57De | EIA    | A |     | 1K3    | y    | Oc  | D  | DY30  | Q  |      |    |     |    |      |    |
| 42My | EIA    | A |     | 1L4    | F    | Mi7 | D  | DF92  | Q  |      |    |     |    |      |    |
| 49Ap | EIA    | A |     | 1L6    | K    | Mi7 | D  | DK32  | Q  |      |    |     |    |      |    |
| 39My | EIA    | A |     | 1LA4   | L    | Lo8 | D  | DL21  | Q  |      |    |     |    |      |    |
| 39My | EIA    | A |     | 1LA6   | K    | Lo8 | D  | DK32  | Q  |      |    |     |    |      |    |
| 39Sp | EIA    | A |     | 1LB4   | L    | Lo8 | D  |       |    |      |    |     |    |      |    |
| 40Ja | EIA    | A |     | 1LB6   | K    | Lo8 | D  |       |    |      |    |     |    |      |    |
| 40My | EIA    | A |     | 1LC5   | J    | Lo8 | D  |       |    |      |    |     |    |      |    |
| 40My | EIA    | A |     | 1LC6   | K    | Lo8 | D  |       |    |      |    |     |    |      |    |
| 40My | EIA    | A |     | 1LD5   | AJ   | Lo8 | D  | DAF26 | Q  |      |    |     |    |      |    |
| 40Ap | EIA    | A |     | 1LE3   | C    | Lo8 | D  |       |    |      |    |     |    |      |    |
| 48Ap | EIA    | A |     | 1LF3   | C    | Lo8 | D  |       |    |      |    |     |    |      |    |
| 45De | EIA    | A |     | 1LG5   | F    | Lo8 | D  |       |    |      |    |     |    |      |    |
| 39My | EIA    | A |     | 1LH4   | AC   | Lo8 | D  | 1B5   | K  |      |    |     |    |      |    |
| 39My | EIA    | A |     | 1LN5   | J    | Lo8 | D  |       |    |      |    |     |    |      |    |
| 56De | EIA    | A |     | 1N3    | MC)  | S8r | D  | DM71  | Q  | DM71 | Q  |     |    |      |    |
| 38Oc | EIA    | A |     | 1N5    | F    | Oc  | D  | DF33  | Q  |      |    |     |    |      |    |
| 39Ap | EIA    | A |     | 1N6    | AJ   | Oc  | D  |       |    |      |    |     |    |      |    |
| 39Mr | EIA    | A |     | 1P5    | F    | Oc  | D  |       |    |      |    |     |    |      |    |
| 39Fe | EIA    | A |     | 1Q5    | S    | Oc  | D  | DL36  | Q  |      |    |     |    |      |    |
| 43Fe | EIA    | A |     | 1R4    | A    | Lo8 | D  | 1294  | K  |      |    |     |    |      |    |
| 39No | EIA    | A |     | 1R5    | I    | Mi7 | D  | DK91  | Q  |      |    |     |    |      |    |
| 49Ap | 49FS09 | H | TRM | 1R5T   | I    | Mi7 | D  | 1R5   | K  |      |    |     |    |      |    |
| 56Ja | EIA    | A |     | 1S2    | y    | No  | Dh | DY86  | Q  |      |    |     |    |      |    |
| 56Jn | EIA    | A |     | 1S2A   | y    | No  | Dh | DY87  | Q  | DY86 | B  |     |    |      |    |
| 39No | EIA    | A |     | 1S4    | L    | Mi7 | D  | DL91  | Q  |      |    |     |    |      |    |
| 49Ap | 49FS09 | H | TRM | 1S4T   | L    | Mi7 | D  | 1S4   | K  |      |    |     |    |      |    |
| 39No | EIA    | A |     | 1S5    | AJ   | Mi7 | D  | DAF91 | Q  |      |    |     |    |      |    |
| 49Ap | 49FS09 | H | TRM | 1S5T   | AJ   | Mi7 | D  | 1S5   | K  |      |    |     |    |      |    |
| 49Ja | EIA    | A |     | 1S6    | AJ   | S8r | D  |       |    |      |    |     |    |      |    |
| 41Ap | EIA    | A |     | 1SA6   | F    | Oc  | D  |       |    |      |    |     |    |      |    |
| 41Ap | EIA    | A |     | 1SB6   | AJ   | Oc  | D  |       |    |      |    |     |    |      |    |
| 39No | EIA    | A |     | 1T4    | F    | Mi7 | D  | DF91  | Q  |      |    |     |    |      |    |
| 49Ap | 49FS09 | H | TRM | 1T4T   | F    | Mi7 | D  | 1T4   | K  |      |    |     |    |      |    |
| 39My | EIA    | A |     | 1T5    | S    | Oc  | D  |       |    |      |    |     |    |      |    |
| 48De | EIA    | A |     | 1T6    | AJ   | S8r | D  |       |    |      |    |     |    |      |    |
| 45Au | EIA    | A |     | 1U4    | J    | Mi7 | D  | DF904 | Q  |      |    |     |    |      |    |
| 45Oc | EIA    | A |     | 1U5    | AJ   | Mi7 | D  | DAF92 | Q  |      |    |     |    |      |    |
| 50Fe | EIA    | A |     | 1U6    | K    | Mi7 | D  |       |    |      |    |     |    |      |    |
| 32?  | 70Y    | A |     | 1-V    | Y    | U4  | EP |       |    |      |    |     |    | EY91 | N  |
| 49Oc | EIA    | A |     | 1V2    | y    | No  | D  |       |    |      |    |     |    |      |    |
| 46Ja | EIA    | A |     | 1V5    | J    | S8r | D  |       |    |      |    |     |    |      |    |
| 51Ap | EIA    | A |     | 1V6    | CF   | S7f | D  | DCF60 | Q  |      |    |     |    |      |    |
| 49Au | EIA    | A |     | 1W4    | L    | Mi7 | D  | 1LB4  | K  |      |    |     |    |      |    |
| 46Ja | EIA    | A |     | 1W5    | J    | Mi7 | D  |       |    |      |    |     |    |      |    |
| 49Ap | EIA    | A |     | 1X2    | y    | No  | D  |       |    |      |    |     |    |      |    |
| 33   | HER    | A | RCA | 2A3    | D    | U4  | Jd | 6A3   | H  |      |    |     |    |      |    |
| 39Sp | EIA    | A |     | 2A4    | T    | Oc  | J  |       |    |      |    |     |    |      |    |
| 33Ja | %      | A | RCA | 2A5    | L    | U6  | J  | 42    | H  | 42   | H  | 47  | R  | 6F6  | R  |
| 34Mr | 70Y    | A | RCA | 2A6    | BC   | U6  | J  | 75    | H  |      |    | 55  | Z  | 6Q7  | U  |
| 33Mr | HER    | A |     | 2A7    | K    | U7s | J  | 6A7   | H  |      |    |     |    | 6A8  | R  |
| 5x   |        | A |     | 2AS15A | A    | Oc  | Sd |       |    |      |    |     |    |      |    |
| 43Ja | EIA    | A |     | 2B4    | T    | U5  | J  |       |    |      |    |     |    |      |    |
| 33Au | 70Y    | A |     | 2B6    | O    | U7m | J  |       |    |      |    |     |    |      |    |
| 33   | HER    | A | RCA | 2B7    | BF   | U7s | J  | 6B7   | H  |      |    |     |    | 6B8  | R  |
| 43Jl | EIA    | A |     | 2C4    | T    | Mi7 | J  |       |    |      |    |     |    |      |    |

| DAT1 | QU1    | L | HSL | TYPE   | SYST | SOC | HZ  | PLL    | PA | OGTY  | OA | VRG   | VA | NFG | NA |
|------|--------|---|-----|--------|------|-----|-----|--------|----|-------|----|-------|----|-----|----|
| 42No | EIA    | A |     | 2C21   | C-C  | U7s | EX  | 1642   | A  |       |    |       |    |     |    |
| 43Ja | EIA    | A |     | 2C22   | C    | Oc  | EP  | 7193   | K  | 6J5   | V  |       |    |     |    |
| 43Mr | EIA    | A |     | 2C26   | D    | Oc  | E   | 2C26A  | G  |       |    |       |    |     |    |
| 43Fe | EIA    | A |     | 2C34   | DD   | U7m | E   |        |    |       |    |       |    |     |    |
| 46Jl | EIA    | A |     | 2C39   | D    | ?   | ? E | 3X100A | K  |       |    |       |    |     |    |
| 46Ap | EIA    | A |     | 2C40   | D    | Oc  | E   |        |    |       |    |       |    |     |    |
| 46No | EIA    | A |     | 2C51   | C-C  | No  | E   | 5670   | A  |       |    |       |    |     |    |
| 44Ap | EIA    | A |     | 2D21   | T    | Mi7 | EX  | PL21   | Q  |       |    | 2050  | S  |     |    |
| 36Ap | EIA    | A |     | 2E5    | MC   | U6  | J   | 6E5    | H  |       |    |       |    |     |    |
| 45De | EIA    | A |     | 2E24   | S    | Oc  | Em  |        |    |       |    |       |    |     |    |
| 47Mr | EIA    | A |     | 2E30   | S    | Mi7 | Sd  | 5812   | K  |       |    |       |    |     |    |
| 36Ap | EIA    | A |     | 2G5    | MC   | U6  | J   | 6G5    | H  |       |    |       |    |     |    |
| 45No | EIA    | A |     | 2G21   | U    | S7f | D   | 2G22   | F  | 6K8   | U  |       |    |     |    |
| 45No | EIA    | A |     | 2G22   | U    | S7f | D   | 2G21   | F  | 6K8   | U  |       |    |     |    |
| 26Sp | 66FG09 | D | LWO | 2HF    | EE   | SpS | O   |        |    |       |    |       |    |     |    |
| 32   | 58FS04 | D | LWO | 2HMD   | EE   | SpS | A   |        |    |       |    |       |    |     |    |
| 28   | ERB    | D | TKD | 2 L 20 | D    | Eu4 | K   |        |    |       |    |       |    |     |    |
| 31<  | 31FB08 | D | LWO | 2NF    | CD   | SpS | A   |        |    |       |    |       |    |     |    |
| 29<  | 29FB09 | D | LWO | 2NG    | Z    | Eu4 | J   |        |    |       |    |       |    |     |    |
| 3x   |        | A |     | 2S/4S  | B    | U5  | J   |        |    |       |    |       |    | 6H6 | U  |
| 32?  |        | A |     | 2S/4S  | B    | U5  | J   | G-4-S  | #  | G-2-S |    | G-4-S | #  | 6H6 | U  |
| 28   | ERB    | D | TKD | 2 U 15 | C    | Eu4 | K   | B228   | Q  |       |    |       |    |     |    |
| 38My | EIA    | A |     | 2W3    | Y    | Oc  | J   |        |    |       |    |       |    |     |    |
| 3x   |        | A |     | 2Z2    | Y    | U4  | J   |        |    |       |    |       |    |     |    |
| 54Mr | EIA    | A |     | 3A2    | y    | No  | S   |        |    |       |    |       |    |     |    |
| 45Ja | EIA    | A |     | 3A3    | y    | No  | S   |        |    |       |    |       |    |     |    |
| 42My | EIA    | A |     | 3A4    | L    | Mi7 | D   | DL93   | Q  |       |    |       |    |     |    |
| 42My | EIA    | A |     | 3A5    | CC   | Mi7 | D   | DCC90  | Q  |       |    |       |    |     |    |
| 39Au | EIA    | A |     | 3A8    | ACJ  | Oc  | D   |        |    |       |    |       |    |     |    |
| 5x   |        | A |     | 3AB4   | C    | Mi7 | P   | PC92   | Q  | 6AB4  | H  |       |    |     |    |
| 56Ap | EIA    | A |     | 3AF4   | C    | Mi7 | L   |        |    |       |    |       |    |     |    |
| 60Fe | EIA    | E | GEM | 3AJ8   | CI   | No  | X   | XCH81  | Q  | ECH81 | H  |       |    |     |    |
| 54My | EIA    | A |     | 3AL5   | AA   | Mi7 | X   | XAA91  | Q  |       |    |       |    |     |    |
| 5x   |        | A |     | 3AT4A  | C    | Mi7 | P   | PC93   | Q  |       |    |       |    |     |    |
| 69No | EIA    | A |     | 3AU6   | J    | Mi7 | X   | XF94   | Q  |       |    |       |    |     |    |
| 54Jn | EIA    | A |     | 3AV6   | BC   | Mi7 | X   | 6AV6   | H  |       |    |       |    |     |    |
| 48Ap | EIA    | A |     | 3B4    | L    | Mi7 | D   | DL98   | Q  |       |    |       |    |     |    |
| 41Ap | EIA    | A |     | 3B5    | S    | Oc  | D   |        |    |       |    |       |    |     |    |
| 43Fe | EIA    | A |     | 3B7    | DD   | Lo8 | D   | 1291   | A  |       |    |       |    |     |    |
| 54No | EIA    | A |     | 3BA6   | F    | Mi7 | X   | 6BA6   | H  |       |    |       |    |     |    |
| 54My | EIA    | A |     | 3BC5   | J    | Mi7 | X   | 6BC5   | H  |       |    |       |    |     |    |
| 54My | EIA    | A |     | 3BE6   | N    | Mi7 | X   | 6BE6   | H  |       |    |       |    |     |    |
| 6x   |        | A |     | 3BH2   | y    | Mno | S   | GY501  | Q  |       |    |       |    |     |    |
| 54My | EIA    | A |     | 3BN6   | Q    | Mi7 | X   | 6BN6   | H  |       |    |       |    |     |    |
| 60Fe | EIA    | E |     | 3BX6   | J    | No  | X   | XF80   | Q  | EF80  | H  |       |    |     |    |
| 54Sp | EIA    | A |     | 3BY6   | I%   | Mi7 | X   | 6BY6   | H  |       |    |       |    |     |    |
| 60Fe | EIA    | E |     | 3BY7   | F    | No  | X   | XF85   | Q  |       |    |       |    |     |    |
| 54Jn | EIA    | A |     | 3BZ6   | J    | Mi7 | X   | 6BZ6   | H  |       |    |       |    |     |    |
| 51Oc | EIA    | A |     | 3C4    | L    | Mi7 | D   | DL96   | Q  |       |    |       |    |     |    |
| 39Jn | EIA    | A |     | 3C5    | L    | Oc  | D   |        |    |       |    |       |    |     |    |
| 54My | EIA    | A |     | 3CB6   | J    | Mi7 | X   | 6CB6   | H  |       |    |       |    |     |    |
| 54No | EIA    | A |     | 3CS6   | I%   | Mi7 | X   | 6CS6   | H  |       |    |       |    |     |    |
| 43Fe | EIA    | A |     | 3D6    | S    | Lo8 | D   | DL29   | Q  |       |    |       |    |     |    |
| 50Fe | EIA    | A |     | 3E5    | L    | Mi7 | D   | DL96   | Q  |       |    |       |    |     |    |
| 46Fe | EIA    | A |     | 3E6    | J    | Lo8 | D   |        |    |       |    |       |    |     |    |
| 60Fe | EIA    | E |     | 3EH7   | F    | No  | X   | XF183  | Q  |       |    |       |    |     |    |
| 60Fe | EIA    | E |     | 3EJ7   | J    | No  | X   | XF184  | Q  |       |    |       |    |     |    |
| 59Au | EIA    | A |     | 3ER5   | C°   | Mi7 | X   | 6ER5   | H  | 6ER5  | H  |       |    |     |    |
| 60My | EIA    | A |     | 3FY5   | C    | Mi7 | L   | 6FY5   | H  | 6FY5  | H  |       |    |     |    |
| 29<  | 29FB09 | D | TKD | 3G130  | Z    | Eu4 | J   |        |    |       |    |       |    |     |    |
| 63Ja | EIA    | A |     | 3HA5   | C    | Mi7 | L   | 3HM5   | K  | 6HA5  | H  |       |    |     |    |
| 64Mr | EIA    | A |     | 3HQ5   | C    | Mi7 | L   | 6HQ5   | H  | 6HQ5  | H  |       |    |     |    |
| 40Jl | EIA    | A |     | 3LE4   | L    | Lo8 | D   |        |    |       |    |       |    |     |    |

| DAT1 | QU1    | L | HSL | TYPE    | SYST | SOC | HZ | PLL    | PA | OGTY | OA | VRG | VA | NFG | NA |
|------|--------|---|-----|---------|------|-----|----|--------|----|------|----|-----|----|-----|----|
| 41Oc | EIA    | A |     | 3LF4    | S    | Lo8 | D  |        |    |      |    |     |    |     |    |
| 26   | DRM    | D | LWO | 3NF     | CCD  | SpS | O  |        |    |      |    |     |    |     |    |
| 31<  | 31FB08 | D | LWO | 3NFB    | CCD  | SpS | O  |        |    |      |    |     |    |     |    |
| 31   | ERB    | D | LWO | 3NFK    | CCD  | SpS | A  |        |    |      |    |     |    |     |    |
| 33   | ERB    | D | LWO | 3NFL    | CCD  | SpS | A  |        |    |      |    |     |    |     |    |
| 29   | ERB    | D | LWO | 3NFW    | CCD  | SpS | A  |        |    |      |    |     |    |     |    |
| 41Ap | EIA    | A |     | 3Q4     | L    | Mi7 | D  | DL95   | Q  |      |    |     |    |     |    |
| 39Jn | EIA    | A |     | 3Q5     | S    | Oc  | D  | DL33   | Q  |      |    |     |    |     |    |
| 40No | EIA    | A |     | 3S4     | L    | Mi7 | D  | DL92   |    |      |    |     |    |     |    |
| 49Ap | 48FS09 | H | TRM | 3S4T    | L    | Mi7 | D  | 3S4    | K  |      |    |     |    |     |    |
| 3x   |        | F | MZF | 3-T20A  | D    | U4  | Sd |        |    |      |    |     |    |     |    |
| 45Oc | EIA    | A |     | 3V4     | L    | Mi7 | D  | DL94   | Q  |      |    |     |    |     |    |
| 28   | ERB    | D | TKD | 4 A 08  | C    | Eu4 | O  | RE084  | K  |      |    |     |    |     |    |
| 38My | EIA    | A |     | 4A6     | DD + | Oc  | Km |        |    |      |    |     |    |     |    |
| 29   | ERB    | D | TKD | 4 A 80  | C    | Eu5 | A  | REN804 | K  |      |    |     |    |     |    |
| 60Fe | EIA    | E |     | 4BL8    | CJ   | No  | X  | XCF80  | Q  | 6BL8 | H  |     |    |     |    |
| 59Mr | EIA    | E |     | 4CM4    | C    | Mi7 | P  | PC86   | Q  | 6CM4 | H  |     |    |     |    |
| 5x   |        | E |     | 4DL4    | C    | No  | P  | PC88   | Q  |      |    |     |    |     |    |
| 36   | ERB    | D | LWO | 4E1     | L    | Au8 | A  | AL4    | K  |      |    |     |    |     |    |
| 5x   |        | E |     | 4ER5    | C°   | Mi7 | P  | PC95   | Q  |      |    |     |    |     |    |
| 58My | EIA    | E |     | 4ES8    | C°C° | No  | P  | XCC189 | Q  |      |    |     |    |     |    |
| 5x   |        | E |     | 4FY5    | C°   | Mi7 | P  | PC97   | Q  |      |    |     |    |     |    |
| 29<  | 29FB09 | D | TKD | 4 G 15  | Y    | Eu3 | O  |        |    |      |    |     |    |     |    |
| 31<  | 31FB08 | D | TKD | 4 G 25  | Y    | Eu3 | O  |        |    |      |    |     |    |     |    |
| 29   | ERB    | D | TKD | 4 G 30  | Z    | Eu4 | O  |        |    |      |    |     |    |     |    |
| 31<  | 31FB08 | D | TKD | 4 G 35  | Y    | Eu3 | O  |        |    |      |    |     |    |     |    |
| 31<  | 31FB08 | D | TKD | 4 G 105 | Z    | Eu4 | O  |        |    |      |    |     |    |     |    |
| 31<  | 31FB08 | D | TKD | 4 G 200 | Z    | Eu4 | O  |        |    |      |    |     |    |     |    |
| 28   | ERB    | D | TKD | 4 H 07  | C    | Eu4 | O  | RE074  | K  |      |    |     |    |     |    |
| 36   | ERB    | D | LWO | 4H1     | J    | Au8 | A  | AF7    | K  |      |    |     |    |     |    |
| 36   | ERB    | D | LWO | 4H2     | F    | Au8 | A  | AF3    | K  |      |    |     |    |     |    |
| 36   | ERB    | D | LWO | 4H3     | H    | Au8 | A  | AH1    | K  |      |    |     |    |     |    |
| 63Ja | EIA    | E |     | 4HA5    | C°   | Mi7 | P  | PC900  | Q  |      |    |     |    |     |    |
| 30   | ERB    | D | TKD | 4 K 32  | D    | Eu4 | O  | RE304  | K  |      |    |     |    |     |    |
| 29Mr | 29FB11 | D | TKD | 4 K 50  | D    | Eu4 | O  |        |    |      |    |     |    |     |    |
| 30   | ERB    | D | TKD | 4 K 60  | D    | Eu4 | O  | RE604  | K  |      |    |     |    |     |    |
| 29Mr | 29FB11 | D | TKD | 4 K 170 | D    | Eu4 | O  |        |    |      |    |     |    |     |    |
| 28   | ERB    | D | TKD | 4 L 11  | D    | Eu4 | O  | B405   | Q  |      |    |     |    |     |    |
| 28   | ERB    | D | TKD | 4 L 12  | D    | Eu4 | O  |        |    |      |    |     |    |     |    |
| 28   | ERB    | D | TKD | 4 L 13  | D    | Eu4 | O  | B409   | Q  |      |    |     |    |     |    |
| 29<  | 30FB10 | D | TKD | 4 L 14  | D    | Eu4 | O  |        |    |      |    |     |    |     |    |
| 29   | ERB    | D | TKD | 4 L 29  | D    | Eu4 | O  |        |    |      |    |     |    |     |    |
| 36   | ERB    | D | LWO | 4M1     | K    | Au8 | A  | AK2    | K  |      |    |     |    |     |    |
| 30   | ERB    | D | TKD | 4 N 110 | C    | Eu5 | A  | E409   | Q  |      |    |     |    |     |    |
| 29   | ERB    | D | LWO | 4NG     | Z    | Eu4 | O  | R_1054 | K  |      |    |     |    |     |    |
| 30   | ERB    | D | TKD | 4 S 120 | E    | Eu5 | A  | E442S  | Q  |      |    |     |    |     |    |
| 36   | ERB    | D | LWO | 4V1     | BC   | Au8 | A  | ABC1   | K  |      |    |     |    |     |    |
| 29   | ERB    | D | TKD | 4 W 03  | C    | Eu4 | O  | RE034  | K  |      |    |     |    |     |    |
| 30   | ERB    | D | TKD | 4 W 100 | C    | Eu5 | A  | E438   | Q  |      |    |     |    |     |    |
| 53Mr | 53RM04 | A | TUS | 5A6     | S    | Mi7 | JG |        |    |      |    |     |    |     |    |
| 5x   |        | A |     | 5AQ4    | Z    | Oc  | Gh | GZ32   | Q  |      |    |     |    |     |    |
| 54My | EIA    | A |     | 5AQ5    | S    | Mi7 | X  | 6AQ5   | H  |      |    |     |    |     |    |
| 56Ja | EIA    | E |     | 5AR4    | Z    | Oc  | Gh | GZ34   | Q  |      |    |     |    |     |    |
| 55Ja | EIA    | A |     | 5AS4    | Z    | Oc  | Gd | 5U4    | K  | 5U4  | K  |     |    |     |    |
| 61Fe | EIA    | A |     | 5AT4    | Z    | Oc  | Gh |        |    |      |    |     |    |     |    |
| 54Ap | EIA    | A |     | 5AU4    | Z    | Oc  | Gd | 5V3    | K  | 5V3  | K  |     |    |     |    |
| 53Au | EIA    | A |     | 5AW4    | Z    | Oc  | Gd |        |    |      |    |     |    |     |    |
| 50Sp | EIA    | A |     | 5AX4    | Z    | Oc  | Gd |        |    |      |    |     |    |     |    |
| 61Ap | EIA    | A |     | 5AZ3    | Z    | Cmp | Gm |        |    |      |    |     |    |     |    |
| 46No | EIA    | A |     | 5AZ4    | Z    | Lo8 | Gd | 5Y3    | S  | 5Y3  | S  |     |    |     |    |
| 61Jl | EIA    | A |     | 5BC3    | Z    | Mno | Gd |        |    |      |    |     |    |     |    |
| 57Ja | EIA    | A |     | 5CG4    | Z    | Oc  | Gh |        |    |      |    |     |    |     |    |
| 59No | EIA    | A |     | 5CU4    | Z    | Oc  | Gh |        |    |      |    |     |    |     |    |

| DAT1 | QU1 | L | HSL | TYPE  | SYST | SOC | HZ | PLL   | PA | OGTY  | OA | VRG  | VA | NFG    | NA |
|------|-----|---|-----|-------|------|-----|----|-------|----|-------|----|------|----|--------|----|
| 60No | EIA | A |     | 5DJ4  | Z    | Oc  | Gd |       |    |       |    |      |    |        |    |
| 42Sp | EIA | A |     | 5R4   | Z    | Oc  | G  |       |    |       |    |      |    |        |    |
| 37Fe | EIA | A | RCA | 5T4   | Z    | Oc  | G  |       |    |       |    |      |    |        |    |
| 36Jl | EIA | A |     | 5U4   | Z    | Oc  | G  | GZ31  | Q  |       |    |      |    |        |    |
| 55Jl | EIA | A |     | 5V3   | Z    | Oc  | Gd | 5AU4  | K  |       |    |      |    |        |    |
| 36Ap | EIA | A |     | 5V4   | Z    | Oc  | G  |       |    | 83-V  | S  | 83-V | S  |        |    |
| 36Ap | EIA | A | RCA | 5W4   | Z    | Oc  | G  |       |    |       |    |      |    |        |    |
| 38De | EIA | A |     | 5X3   | Z    | U4  | G  |       |    |       |    |      |    |        |    |
| 36My | EIA | A |     | 5X4   | Z    | Oc  | G  |       |    |       |    |      |    |        |    |
| 35Jn | EIA | A |     | 5Y3   | Z    | Oc  | G  |       |    |       |    |      |    |        |    |
| 38   | HLR | F | GEM | 5Y3GB | Z    | Oc  | Gh | 1883  | S  | 5Y3   | D  | 5Y3  | D  | GZ40   | N  |
| 36My | EIA | A |     | 5Y4   | Z    | Oc  | G  |       |    |       |    |      |    |        |    |
| 3x   |     | F | MZF | 5Y15  | L    | Au8 | F  |       |    |       |    |      |    |        |    |
| 33   | HER | A | RCA | 5Z3   | Z    | U4  | G  |       |    |       |    |      |    | 5U4    | S  |
| 4x   |     | F | VIS | 5Z3GB | Z    | U4  | Gi |       |    | 5Z3   | D  | 5Z3  | D  |        |    |
| 35My | EIA | A | RCA | 5Z4   | Z    | Oc  | G  | GZ30  | Q  |       |    |      |    |        |    |
| 35Ja | EIA | A |     | 6A3   | D    | U4  | Ed | 2A3   | H  |       |    |      | U  | 6B4    | S  |
| 33   | HER | A | RCA | 6A4   | L    | Oc  | Ed |       |    |       |    |      |    |        |    |
| 37Ja | EIA | A |     | 6A5   | D    | Oc  | E  |       |    | 6A3   | R  |      |    |        |    |
| 34Au |     | A |     | 6A6   | DD + | U7m | E  |       |    | 53    | H  | 53   | H  | 6N7    | S  |
| 33Mr | HER | A | RCA | 6A7   | K    | U7s | EP | 2A7   | H  |       |    |      |    | 6A8    | S  |
| 35Au | EIA | A | RCA | 6A8   | K    | Oc  | EP | 6D8   | H  | 6A7   | S  | 6A7  | S  | 6SA7   | Y  |
| 49Ap | EIA | A |     | 6AB4  | C    | Mi7 | EH | EC92  | Q  |       |    |      |    |        |    |
| 3x   |     | A |     | 6AB5  | MC   | U6  | EH | 6N5   | K  |       |    |      |    |        |    |
| 36De | EIA | A |     | 6AB6  | O    | Oc  | E  |       |    | 6N6   | >  |      |    |        |    |
| 39Mr | EIA | A | RCA | 6AB7  | F    | Oc  | EL | 1853  | #  |       |    |      |    |        |    |
| 51Fe | EIA | E |     | 6AB8  | CL   | No  | EP | ECL80 | Q  | ECL80 | Q  |      |    |        |    |
| 64Jn | EIA | A |     | 6AB9  | EE   | Cmp | E  |       |    |       |    |      |    |        |    |
| 37Sp | EIA | A |     | 6AC5  | D +  | Oc  | E  |       |    |       |    |      |    |        |    |
| 37Ja | EIA | A |     | 6AC6  | O    | Oc  | E  |       |    | 6N6   | Z  |      |    |        |    |
| 38Oc | BPD | A | RCA | 6AC7  | J    | Oc  | EL | 6134  | A  |       |    |      |    |        |    |
| 65Fe | EIA | A |     | 6AC9  | AAJ  | Cmp | EX |       |    |       |    |      |    |        |    |
| 65Ap | EIA | A |     | 6AC10 | CCC  | Cmp | EX |       |    |       |    |      |    |        |    |
| 49Au | EIA | A |     | 6AD4  | C    | S8r | EH |       |    |       |    |      |    |        |    |
| 38De | EIA | A |     | 6AD5  | C    | Oc  | EP | 6SF5  | K  | 6SF5  | V  | 6F5  | V  |        |    |
| 38My | EIA | A |     | 6AD6  | MM   | Oc  | EH | 6AF6  | C  |       |    |      |    |        |    |
| 40Ap | EIA | A |     | 6AD7  | CL   | Oc  | E  |       |    | 6F6   | E  |      |    |        |    |
| 51My | EIA | A |     | 6AD8  | BF   | No  | EP | EBF89 | Q  |       |    |      |    |        |    |
| 65Jn | EIA | A |     | 6AD10 | JS   | Cmp | E  |       |    |       |    |      |    |        |    |
| 38Oc | EIA | A |     | 6AE5  | C    | Oc  | EP |       |    |       |    |      |    |        |    |
| 38Jn | EIA | A |     | 6AE6  | C *  | Oc  | EH |       |    |       |    |      |    |        |    |
| 40My | EIA | A |     | 6AE7  | CC * | Oc  | E  |       |    |       |    |      |    |        |    |
| 50No | EIA | A |     | 6AE8  | G    | No  | EP |       |    |       |    |      |    |        |    |
| 58My | EIA | A |     | 6AF3  | Y    | Cmp | E  |       |    |       |    |      |    |        |    |
| 51My | EIA | A |     | 6AF4  | C    | Mi7 | E  | EC94  | Q  |       |    |      |    |        |    |
| 39Ap | EIA | A |     | 6AF5  | C    | Oc  | EP |       |    |       |    |      |    |        |    |
| 38Jn | EIA | A |     | 6AF6  | MM   | Oc  | EH |       |    |       |    |      |    |        |    |
| 39Fe | HLR | F | VIS | 6AF7  | MMCC | Oc  | EP | EM34  | F  |       |    |      |    | EM34   | H  |
| 6x   |     | A |     | 6AF9  | JS   | Cmp | E  |       |    |       |    |      |    |        |    |
| 65Oc | EIA | A |     | 6AF10 | JS   | Cmp | E  |       |    |       |    |      |    |        |    |
| 62Mr | EIA | A |     | 6AF11 | CCS  | Cmp | E  |       |    |       |    |      |    |        |    |
| 42Sp | EIA | A |     | 6AG5  | J    | Mi7 | EP | EF96  | Q  |       |    |      |    |        |    |
| 38No | EIA | A |     | 6AG6  | L    | Oc  | E  | 6M6   | K  |       |    |      |    |        |    |
| 39My | EIA | A | RCA | 6AG7  | L    | Oc  | E  | 6AK7  | K  |       |    |      |    |        |    |
| 66Au | EIA | A |     | 6AG9  | CS   | Cmp | E  |       |    |       |    |      |    |        |    |
| 65No | EIA | A |     | 6AG10 | HH)% | Cmp | E  |       |    |       |    |      |    |        |    |
| 62Ja | EIA | A |     | 6AG11 | AACC | Cmp | E  |       |    |       |    |      |    |        |    |
| 52Mr | EIA | A |     | 6AH4  | D    | Oc  | E  |       |    |       |    |      |    |        |    |
| 42Ja | EIA | A |     | 6AH5  | S    | Oc  | E  | 6L6   | K  | 6L6   | V  | 6L6  | V  | 6L6-GC | >  |
| 46De | EIA | A |     | 6AH6  | J    | Mi7 | EL |       |    |       |    |      |    |        |    |
| 41Fe | EIA | A |     | 6AH7  | C-C  | Oc  | EP |       |    |       |    |      |    |        |    |
| 67Sp | EIA | A |     | 6AH9  | CS   | Cmp | E  |       |    |       |    |      |    |        |    |
| 52Mr | EIA | A |     | 6AJ4  | C    | No  | E  | EC84  | Q  |       |    |      |    |        |    |

| DAT1 | QU1 | L | HSL | TYPE  | SYST | SOC | HZ | PLL    | PA | OGTY  | OA | VRG  | VA | NFG    | NA |
|------|-----|---|-----|-------|------|-----|----|--------|----|-------|----|------|----|--------|----|
| 44Jl | EIA | A |     | 6AJ5  | J    | Mi7 | E  | 7755   | A  |       |    |      |    |        |    |
| 44Ja | BPD | A |     | 6AJ6  | ?    | ?   | ?  |        |    |       |    |      |    |        |    |
| 44Ja | EIA | A |     | 6AJ7  | J    | Oc  | EL | 6AC7   | K  |       |    |      |    |        |    |
| 52Jn | EIA | E | GEM | 6AJ8  | Cl   | No  | EP | ECH81  | Q  | ECH81 | Q  |      |    |        |    |
| 43My | EIA | A |     | 6AK5  | J    | Mi7 | E  | EF95   | Q  |       |    |      |    |        |    |
| 43Au | EIA | A |     | 6AK6  | L    | Oc  | EH |        |    | 6G6   | S  | 6G6  | S  |        |    |
| 44Fe | EIA | A |     | 6AK7  | L    | Oc  | E  | 6AG7   | Q  |       |    |      |    |        |    |
| 52Jn | EIA | E | GEM | 6AK8  | A-BC | No  | E  | EABC80 | Q  | ECH81 | Q  |      |    |        |    |
| 67Oc | EIA | A |     | 6AK9  | CCS  | Cmp | E  |        |    |       |    |      |    |        |    |
| 68Sp | EIA | A |     | 6AK10 | CCC  | Cmp | E  |        |    |       |    |      |    |        |    |
| 60Ja | EIA | E |     | 6AL3  | Y    | No  | E  | EY88   | Q  |       |    |      |    |        |    |
| 44Au | EIA | A |     | 6AL5  | AA   | Mi7 | EP | EAA91  | Q  | 6H6   | S  | 6H6  | S  |        | J  |
| 39Au | EIA | A |     | 6AL6  | S    | Oc  | E  | 6L6    | K  | 6L6   | V  |      |    | 6L6-GC | >  |
| 46Jn | EIA | A |     | 6AL7  | MMCC | Oc  | EH |        |    |       |    |      |    |        |    |
| 68Oc | EIA | A |     | 6AL9  | C-S  | Cmp | E  |        |    |       |    |      |    |        |    |
| 62Mr | EIA | A |     | 6AL11 | J-S  | Cmp | E  |        |    |       |    |      |    |        |    |
| 52Ap | EIA | A |     | 6AM4  | C    | No  | E  |        |    |       |    |      |    |        |    |
| 49Ja | EIA | A |     | 6AM5  | L    | Mi7 | EC | EL91   | Q  |       |    |      |    |        |    |
| 49Ja | EIA | A |     | 6AM6  | J    | Mi7 | EP | EF91   | Q  |       |    |      |    |        |    |
| 53Oc | EIA | A |     | 6AM8  | AJ   | No  | EL |        |    |       |    |      |    |        |    |
| 52My | EIA | A |     | 6AN4  | C    | Mi7 | E  |        |    |       |    |      |    |        |    |
| 48No | EIA | A |     | 6AN5  | J    | Mi7 | EL |        |    |       |    | 6AG7 |    |        |    |
| 46Au | EIA | A |     | 6AN6  | BB   | Mi7 | EC |        |    |       |    |      |    |        |    |
| 49Ap | EIA | A |     | 6AN7  | G    | No  | E  | ECH80  | Q  | ECH42 | S  |      |    |        |    |
| 54Ja | EIA | A |     | 6AN8  | C-J  | No  | EL |        |    |       |    |      |    |        |    |
| 53Mr | EIA | A |     | 6AQ4  | C    | Mi7 | EP | EC91   | Q  |       |    |      |    |        |    |
| 46Fe | EIA | A |     | 6AQ5  | S    | Mi7 | EL | EL90   | Q  | 6V6   | S  | 6V6  | S  |        | J  |
| 44Ap | EIA | A |     | 6AQ6  | BC   | Mi7 | EH |        |    |       |    | 6SZ7 | S  |        | J  |
| 46Jn | EIA | A |     | 6AQ7  | B-C  | Oc  | EP |        |    | 6SL7  | J  |      |    |        |    |
| 55Au | EIA | E | GEM | 6AQ8  | C-C  | No  | E  | ECC85  | Q  |       |    |      |    |        |    |
| 47Au | EIA | A |     | 6AR5  | L    | Mi7 | E  | 6BM5   | Q  | 6K6   | S  | 6K6  | S  |        | J  |
| 45Au | EIA | A |     | 6AR6  | S    | Oc  | E  | 6L6    | K  | 6L6   | O  |      |    |        |    |
| 49Au | EIA | A |     | 6AR7  | BF   | Oc  | EP | 6H8    | Q  | 6B8   | C  | 6B8  | <  |        |    |
| 61De | EIA | A |     | 6AR11 | FF   | Cmp | E  |        |    |       |    |      |    |        |    |
| 48Fe | EIA | A |     | 6AS5  | S    | Mi7 | E  |        |    |       |    |      |    |        |    |
| 47Mr | EIA | A |     | 6AS6  | J    | Mi7 | E  | 7752   | A  |       |    |      |    |        |    |
| 46Ja | EIA | A |     | 6AS7  | D-D  | Oc  | E  | 5998   | A  |       |    |      |    |        |    |
| 54Fe | EIA | A |     | 6AS8  | AJ   | No  | EL |        |    |       |    |      |    |        |    |
| 61No | EIA | A |     | 6AS11 | CCS  | Cmp | E  |        |    |       |    |      |    |        |    |
| 45Oc | EIA | A |     | 6AT6  | BC   | Mi7 | EP | EBC90  | Q  |       |    |      |    | 6AV6   | C  |
| 5x   |     | A |     | 6AT7  | C-C  | No  | EP | 12AT7  | H  | 12AT7 | H  |      |    |        |    |
| 54Jn | EIA | A |     | 6AT8  | C-J  | No  | EL | 6X8    | K  |       |    |      |    |        |    |
| 53My | EIA | A |     | 6AU4  | Y    | Oc  | E  |        |    |       |    |      |    |        |    |
| 49Oc | EIA | A |     | 6AU5  | S    | Oc  | E  | 6AV5   | K  |       |    |      |    |        |    |
| 45Oc | EIA | A |     | 6AU6  | J    | Mi7 | EP | EF94   | Q  |       |    |      |    |        |    |
| 60My | EIA | A |     | 6AU7  | C-C  | No  | XP | 12AU7  | H  | 12AU7 | H  |      |    |        |    |
| 54No | EIA | A |     | 6AU8  | C-J  | No  | EX |        |    |       |    |      |    |        |    |
| 52Oc | EIA | A |     | 6AV4  | Z    | Mi7 | E  | EZ91   | Q  | 6X4   | <  |      |    |        |    |
| 49De | EIA | A |     | 6AV5  | S    | Oc  | E  | 6AU5   | K  |       |    |      |    |        |    |
| 47Mr | EIA | A |     | 6AV6  | BC   | Mi7 | EP | EBC91  | Q  | 6AT6  | C  | 6AT6 | <  |        |    |
| 5x   |     | A |     | 6AV8  | ?    | No  | E  |        |    |       |    |      |    |        |    |
| 61De | EIA | A |     | 6AV11 | CCC  | Cmp | EX |        |    | 12AU7 | E  |      |    |        |    |
| 5x   |     | I | FIV | 6AW5  | YY   | Oc  | EX | 6X5    | V  | 6X5   | V  |      |    |        |    |
| 48No | EIA | A |     | 6AW7  | A-AC | Oc  | EP |        |    |       |    |      |    |        |    |
| 54Jl | EIA | A |     | 6AW8  | C-J  | No  | EX |        |    |       |    |      |    |        |    |
| 6x   |     | E |     | 6AX2  | y    | No  | E  | EY86   | Q  |       |    |      |    |        |    |
| 6Ja1 | EIA | A |     | 6AX3  | Y    | Cmp | E  |        |    |       |    |      |    |        |    |
| 51My | EIA | A |     | 6AX4  | Y    | Oc  | E  | 6DM4   | K  |       |    |      |    |        |    |
| 50Ja | EIA | A |     | 6AX5  | Z    | Oc  | E  |        |    | 6W5   | <  |      |    |        |    |
| 50Mr | EIA | A |     | 6AX6  | YY   | Oc  | E  |        |    | 6AX5  | <  |      |    |        |    |
| 54Jn | EIA | A |     | 6AX7  | C-C  | No  | XP | 12AX7  | H  | 12AX7 | H  |      |    |        |    |
| 54De | EIA | A |     | 6AX8  | C-J  | No  | EL | ECF82  | Q  | 6U8   | K  |      |    |        |    |
| 3x   |     | I | FIV | 6AY8  | BS   | Oc  | E  |        |    |       |    | EBL1 | U  |        |    |

| DAT1 | QU1 | L | HSL | TYPE  | SYST | SOC | HZ | PLL    | PA | OGTY  | OA | VRG   | VA | NFG  | NA |
|------|-----|---|-----|-------|------|-----|----|--------|----|-------|----|-------|----|------|----|
| 62Jn | EIA | A |     | 6AY11 | AACC | Cmp | E  |        |    |       |    |       |    |      |    |
| 51Ap | EIA | A |     | 6AZ5  | AA   | SpA | EH |        |    |       |    |       |    |      |    |
| 51My | EIA | A |     | 6AZ6  | ?    | Sm  |    |        |    |       |    |       |    |      |    |
| 55Fe | EIA | A |     | 6AZ8  | C-J  | No  | EL |        |    |       |    |       |    |      |    |
| 36My | EIA | A |     | 6B4   | D    | Oc  | E  | AD1    | Q  | 6A3   | S  |       |    | 6A5  | I  |
| 35Ap | 70Y | A | TRI | 6B5   | O    | U6  | E  |        |    |       |    |       |    | 6N7  | S  |
| 36Sp | EIA | A |     | 6B6   | BC   | Oc  | EP |        |    | 2A6   | R  | 75    | S  | 6SQ7 | V  |
| 33   | HER | A | RCA | 6B7   | BF   | U7s | EP | 2B7    | H  |       |    |       |    | 6B8  | S  |
| 36Jn | EIA | A | RCA | 6B8   | BF   | Oc  | EP | EBF1   | Q  | 6B7   | S  | 6B7   | S  | 7E7  | T  |
| 6Ja1 | EIA | A |     | 6B10  | BCC  | Cmp | EX |        |    |       |    |       |    |      |    |
| 49Au | EIA | A |     | 6BA5  | J    | Nu  | EH |        |    |       |    |       |    |      |    |
| 45Oc | EIA | A |     | 6BA6  | F    | Mi7 | EP | EF93   | Q  |       |    | 6SG7  |    |      |    |
| 48Jn | EIA | A |     | 6BA7  | N    | No  | EP |        |    | 6SB7  | S  | 6SB7  | S  |      | J  |
| 55Fe | EIA | A |     | 6BA8  | C-J  | No  | EX |        |    |       |    |       |    |      |    |
| 62Oc | EIA | A |     | 6BA11 | C-JJ | Cmp | EX |        |    |       |    |       |    |      |    |
| 54Ap | EIA | A |     | 6BC4  | C    | No  | E  |        |    |       |    |       |    |      |    |
| 49Jn | EIA | A |     | 6BC5  | J    | Mi7 | EP | EF96   | Q  |       |    |       |    |      |    |
| 50Fe | EIA | A |     | 6BC7  | AAA  | No  | EL | 6BJ7   | K  | 6AL5  | E  |       |    |      |    |
| 55Ja | EIA | A |     | 6BC8  | C°C° | No  | E  | ECC180 | Q  | 6BZ8  | K  |       |    |      |    |
| 54Ja | EIA | A |     | 6BD4  | D    | Oc  | EX |        |    |       |    |       |    |      |    |
| 49Oc | EIA | A |     | 6BD5  | S    | Oc  | E  |        |    |       |    |       |    |      |    |
| 46My | EIA | A |     | 6BD6  | F    | Mi7 | EP |        |    | 6SK7  | S  | 6SK7  | S  |      |    |
| 50Mr | EIA | E |     | 6BD7  | BC   | No  | E  | EBC81  | Q  | EBC81 | Q  | EBC41 | S  |      | J  |
| 62Oc | EIA | A |     | 6BD11 | CCJ  | Cmp | EP |        |    |       |    |       |    |      |    |
| 45Oc | EIA | A |     | 6BE6  | N    | Mi7 | EP | EK90   | Q  | 6SA7  | S  | 6SA7  | S  | 6BA7 | >  |
| 50Mr | EIA | E |     | 6BE7  | Q    | No  | EC | EQ80   | Q  | EQ80  | Q  |       |    |      |    |
| 55Au | EIA | A |     | 6BE8  | C-J  | No  | EL |        |    |       |    |       |    |      |    |
| 50Fe | EIA | A |     | 6BF5  | S    | Mi7 | E  |        |    |       |    |       |    |      |    |
| 46Jn | EIA | A |     | 6BF6  | BC   | Mi7 | EP | 6BU6   | K  | 6SR7  | S  | 6SR7  | S  |      |    |
| 50Ap | EIA | A |     | 6BF7  | C-C  | S8r | EP | 6BG7   | F  |       |    |       |    |      |    |
| 62Oc | EIA | A |     | 6BF11 | JS   | Cmp | E  |        |    |       |    |       |    |      |    |
| 46Jl | EIA | A |     | 6BG6  | S    | Oc  | E  |        |    | 6L6   | X  |       |    |      |    |
| 50Ap | EIA | A |     | 6BG7  | C-C  | S8r | EP | 6BF7   | F  |       |    |       |    |      |    |
| 51My | EIA | A |     | 6BH5  | F    | No  | EC | EF81   | Q  |       |    |       |    |      |    |
| 47No | EIA | A |     | 6BH6  | J    | Mi7 | EH | E90F   | Q  |       |    |       |    |      |    |
| 55Fe | EIA | A |     | 6BH8  | C-J  | No  | EX |        |    |       |    |       |    |      |    |
| 63De | EIA | A |     | 6BH11 | CCJ  | Cmp | E  |        |    |       |    |       |    |      |    |
| 50No | EIA | A |     | 6BJ5  | L    | Mi7 | E  | 6BM5   | Q  |       |    |       |    |      |    |
| 46De | EIA | A |     | 6BJ6  | F    | Mi7 | EH | E99F   | Q  |       |    |       |    |      |    |
| 54Fe | EIA | A |     | 6BJ7  | AAA  | No  | EL | 6BC7   | K  | 6AL5  | E  |       |    |      |    |
| 55Jn | EIA | A |     | 6BJ8  | AA-C | No  | EX |        |    |       |    |       |    |      |    |
| 54No | EIA | A |     | 6BK4  | d    | Oc  | EC |        |    |       |    |       |    |      |    |
| 52Ja | EIA | A |     | 6BK5  | S    | No  | E  |        |    |       |    |       |    |      |    |
| 50Ja | EIA | A |     | 6BK6  | BC   | Mi7 | EP | 6AV6   | K  | 6AV6  | F  |       |    |      |    |
| 51Au | EIA | A |     | 6BK7  | C-C  | No  | EL |        |    |       |    |       |    |      |    |
| 55My | EIA | A |     | 6BK8  | J    | No  | E  | EF86   | Q  |       |    |       |    |      |    |
| 64Jn | EIA | A |     | 6BK11 | CCC  | Cmp | EX |        |    |       |    |       |    |      |    |
| 54No | EIA | A |     | 6BL4  | Y    | Oc  | E  |        |    |       |    |       |    |      |    |
| 50Jn | EIA | A |     | 6BL7  | D-D  | Oc  | E  |        |    |       |    |       |    |      |    |
| 56Sp | EIA | E | GEM | 6BL8  | C-J  | No  | E  | ECF80  | Q  |       |    |       |    |      |    |
| 52Jn | EIA | F | GEM | 6BM5  | L    | Mi7 | EL | EL93   | !  | 6AQ5  | C  | EL41  | U  |      | J  |
| 56Sp | EIA | E | GEM | 6BM8  | CS   | No  | E  | ECL82  | Q  |       |    |       |    |      |    |
| 56Fe | EIA | A |     | 6BN4  | C    | Mi7 | EC |        |    |       |    |       |    |      |    |
| 54Au | EIA | E |     | 6BN5  | L    | No  | E  | EL85   | Q  | EL42  | S  |       |    |      |    |
| 49Sp | EIA | A |     | 6BN6  | Q    | Mi7 | EP |        |    |       |    |       |    |      |    |
| 50Au | EIA | A |     | 6BN7  | D-D  | No  | E  |        |    |       |    |       |    |      |    |
| 55Oc | EIA | A |     | 6BN8  | AA-C | No  | EX |        |    |       |    |       |    |      |    |
| 65Mr | EIA | A |     | 6BN11 | JJ   | Cmp | E  |        |    |       |    |       |    |      |    |
| 56Jl | EIA | E |     | 6BQ5  | L    | No  | E  | EL84   | Q  | EL84  | Q  |       |    |      | J  |
| 49My | EIA | A |     | 6BQ6  | S    | Oc  | E  | 6CU6   | K  |       |    |       |    |      |    |
| 50Au | EIA | A |     | 6BQ7  | C-C  | No  | E  | ECC180 | Q  |       |    |       |    |      |    |
| 56Sp | EIA | E | GEM | 6BR5  | MC   | No  | EP | EM80   |    | EM80  | Q  |       |    |      |    |
| 51Oc | EIA | A |     | 6BR7  | J    | No  | EH | 6BS7   | K  |       |    |       |    |      |    |

| DAT1 | QU1 | L | HSL | TYPE  | SYST | SOC | HZ | PLL    | PA | OGTY  | OA | VRG  | VA | NFG   | NA |
|------|-----|---|-----|-------|------|-----|----|--------|----|-------|----|------|----|-------|----|
| 55No | EIA | A |     | 6BR8  | C-J  | No  | EL | 6FV8   | K  |       |    |      |    |       |    |
| 5x   |     | A |     | 6BS4  | C    | Mi7 | EC | EC93   | Q  |       |    |      |    |       |    |
| 53Oc | EIA | A |     | 6BS5  | S    | No  | E  |        |    |       |    |      |    |       |    |
| 53Jl | EIA | A |     | 6BS7  | J    | No  | EH | 6BR7   | K  |       |    |      |    |       |    |
| 55Au | EIA | A |     | 6BS8  | C-C  | No  | E  |        |    |       |    |      |    |       |    |
| 55Oc | EIA | E | PLP | 6BT4  | Z    | Ri  | EX | EZ40   | Q  |       |    |      |    |       |    |
| 50Ja | EIA | A |     | 6BT6  | BC   | Mi7 | EP | 6AT6   | K  | 6AT6  | B  |      |    |       |    |
| 50Ja | EIA | A |     | 6BU6  | BC   | Mi7 | EP | 6BF6   | K  |       |    |      |    |       |    |
| 56Fe | EIA | A |     | 6BU8  | JJ)  | No  | EP | 6GS8   | K  |       |    |      |    |       |    |
| 51Au | EIA | V |     | 6BV7  | BL   | No  | E  | EBL21  | Q  | EBL21 | S  |      |    |       |    |
| 56Fe | EIA | A |     | 6BV8  | AA-C | No  | EX |        |    |       |    |      |    |       |    |
| 666  | EIA | A |     | 6BV11 | J-J  | Cmp | E  |        |    |       |    |      |    |       |    |
| 55Jl | EIA | A |     | 6BW4  | Z    | No  | E  |        |    |       |    |      |    |       |    |
| 50Ap | EIA | A |     | 6BW6  | S    | No  | EL | 6AQ5   | S  | 6V6   | S  |      |    |       |    |
| 53Jl | EIA | A |     | 6BW7  | J    | No  | EH |        |    |       |    |      |    |       |    |
| 57Fe | EIA | A |     | 6BW8  | B-J  | No  | EL |        |    |       |    |      |    |       |    |
| 67Jn | EIA | A |     | 6BW11 | J-J  | Cmp | E  |        |    |       |    |      |    |       |    |
| 53Oc | EIA | A |     | 6BX4  | Z    | Mi7 | EX | 6V4    | S  | 6X4   | <  |      |    |       |    |
| 51Fe | EIA | E |     | 6BX6  | J    | No  | EP | EF80   | Q  | EF80  | Q  |      |    |       |    |
| 51De | EIA | A |     | 6BX7  | D-D  | Oc  | E  |        |    |       |    |      |    |       |    |
| 50Jn | EIA | A |     | 6BY5  | Z    | Oc  | E  |        |    |       |    |      |    |       |    |
| 53No | EIA | A |     | 6BY6  | I%   | Mi7 | EP | 5915   | A  |       |    | 1680 |    |       |    |
| 52Jn | EIA | E |     | 6BY7  | F    | No  | EP | EF85   | Q  | EF85  | Q  |      |    |       |    |
| 56My | EIA | A |     | 6BY8  | J-Y  | No  | EX |        |    |       |    |      |    |       |    |
| 67Fe | EIA | A |     | 6BY11 | J-S  | Cmp | E  |        |    |       |    |      |    |       |    |
| 54Ap | EIA | A |     | 6BZ6  | F    | Mi7 | EP |        |    |       |    |      |    |       |    |
| 52Au | EIA | A |     | 6BZ7  | C-C  | No  | E  |        |    |       |    |      |    |       |    |
| 55De | EIA | A |     | 6BZ8  | C°C° | No  | E  | 6BC8   | K  |       |    |      |    |       |    |
| 42My | EIA | A |     | 6C4   | C    | Mi7 | EH | EC90   | Q  |       |    |      |    |       |    |
| 35Au | EIA | A | RCA | 6C5   | C    | Oc  | EP |        |    | 6J7   | P  | 76   | U  | 6J5   | C  |
| 33   | HER | A |     | 6C6   | J    | Oc  | EP | 6D7    | S  | 57    | A  | 57   | H  | 6J7   | S  |
| 33   | HER | A |     | 6C7   | BC   | U7s | EP | 85     | S  | 55    | A  | 55   | R  | 6V7   | S  |
| 37Ja | EIA | A |     | 6C8   | C-C  | Oc  | EP |        |    |       | [  | 6N7  | O  | 12AY7 | N  |
| 60Oc | EIA | A |     | 6C9   | E-E  | N10 | E  |        |    |       |    |      |    |       |    |
| 60Au | EIA | A |     | 6C10  | CCC  | Cmp | EX |        |    |       |    |      |    |       |    |
| 56Au | EIA | E |     | 6CA4  | Z    | No  | E  | EZ81   | Q  |       |    |      |    |       |    |
| 54Sp | EIA | A |     | 6CA5  | S    | Mi7 | E  |        |    |       |    |      |    |       |    |
| 52De | EIA | E | GEM | 6CA7  | L    | Oc  | E  | EL34   | Q  |       |    |      |    |       |    |
| 68Ja | EIA | A |     | 6CA11 | CCS  | Cmp | E  |        |    |       |    |      |    |       |    |
| 54No | EIA | A |     | 6CB5  | S    | Oc  | E  |        |    |       |    |      |    |       |    |
| 49Oc | EIA | A |     | 6CB6  | J    | Mi7 | EP | EF190  | Q  |       |    |      |    |       |    |
| 49De | EIA | A |     | 6CD6  | S    | Oc  | E  |        |    |       |    |      |    |       |    |
| 53No | EIA | E |     | 6CD7  | MMCC | Oc  | EC | EM34   | Q  |       |    |      |    |       |    |
| 55No | EIA | A |     | 6CE5  | J    | Mi7 | EP | 6CB6   | V  |       |    |      |    |       |    |
| 53Jl | EIA | A |     | 6CF6  | J    | Mi7 | EP | 6CB6   | K  |       |    |      |    |       |    |
| 5x   |     | E | GEM | 6CF8  | J    | No  | E  | EF86   | Q  |       |    |      |    |       |    |
| 50Oc | EIA | A |     | 6CG6  | F    | Mi7 | EP |        |    |       |    |      |    |       |    |
| 54Oc | EIA | A |     | 6CG7  | C-C  | No  | EX | 6FQ7   | K  | 6SN7  | S  |      |    |       |    |
| 56Fe | EIA | A |     | 6CG8  | CJ   | No  | EL |        |    |       |    |      |    |       |    |
| 51Ap | EIA | A |     | 6CH6  | L    | No  | E  | EL821  | Q  |       |    |      |    |       |    |
| 56My | EIA | A |     | 6CH8  | C-J  | No  | EL |        |    |       |    |      |    |       |    |
| 55Oc | EIA | E | PLP | 6CJ5  | F    | Ri  | EC | EF41   | Q  | EF41  | Q  |      |    |       |    |
| 51Oc | EIA | E |     | 6CJ6  | L    | No  | E  | EL81   | Q  |       |    |      |    |       |    |
| 6x   |     | A | SYL | 6CK3  | Y    | Cmp | E  |        |    |       |    |      |    |       |    |
| 57Sp | EIA | A |     | 6CK4  | D    | Oc  | E  |        |    |       |    |      |    |       |    |
| 55Oc | EIA | E | PLP | 6CK5  | L    | Ri  | E  | EL41   | Q  |       |    |      |    |       |    |
| 51Oc | EIA | E |     | 6CK6  | L    | No  | E  | EL83   | Q  |       |    |      |    |       |    |
| 52Jn | EIA | A |     | 6CL6  | L    | No  | E  |        |    |       |    |      |    |       |    |
| 56Mr | EIA | A |     | 6CL8  | C-E  | No  | EL |        |    |       |    |      |    |       |    |
| 59Mr | EIA | E |     | 6CM4  | C    | No  | E  | EC86   | Q  |       |    |      |    |       |    |
| 56Sp | EIA | E |     | 6CM5  | S    | Oc  | E  | EL36v2 | Q  |       |    |      |    |       |    |
| 53Oc | EIA | A |     | 6CM6  | S    | No  | EL | 6BW6   | V  | 6V6   | S  |      |    |       |    |
| 55Jn | EIA | A |     | 6CM7  | C-D  | No  | EX |        |    |       |    |      |    |       |    |



| DAT1 | QU1 | L | HSL | TYPE | SYST | SOC | HZ  | PLL   | PA | OGTY | OA | VRG | VA | NFG | NA |
|------|-----|---|-----|------|------|-----|-----|-------|----|------|----|-----|----|-----|----|
| 56Ap | EIA | A |     | 6CM8 | C-J  | No  | EL  |       |    |      |    |     |    |     |    |
| 53Jl | EIA | E |     | 6CN6 | L    | Oc  | E   | EL38  | Q  |      |    |     |    |     |    |
| 554  | EIA | A |     | 6CN7 | B-C  | No  | EP  | EBC81 | Q  |      |    |     |    |     |    |
| 6x   |     | A |     | 6CN8 | ?    | ?   | ? E |       |    |      |    |     |    |     |    |
| 60Ja | EIA | A |     | 6CQ4 | Y    | Oc  | E   |       |    |      |    |     |    |     |    |
| 53Mr | EIA | A |     | 6CQ6 | F    | Mi7 | EC  | EF92  | Q  |      |    |     |    |     |    |
| 56De | EIA | A |     | 6CQ8 | C-E  | No  | EL  |       |    |      |    |     |    |     |    |
| 54Ja | EIA | A |     | 6CR6 | AJ   | Mi7 | EP  |       |    |      |    |     |    |     |    |
| 53Mr | EIA | A |     | 6CS6 | I%   | Mi7 | EP  | EH90  | Q  |      |    |     |    |     |    |
| 55Jn | EIA | A |     | 6CS7 | C-D  | No  | EX  |       |    |      |    |     |    |     |    |
| 55Oc | EIA | E | PLP | 6CT7 | AF   | Ri  | E   | EAF42 | Q  |      |    |     |    |     |    |
| 56Fe | EIA | A |     | 6CU5 | S    | Mi7 | E   |       |    |      |    |     |    |     |    |
| 53Au | EIA | A |     | 6CU6 | S    | Oc  | E   | 6BQ6  | K  |      |    |     |    |     |    |
| 55Oc | EIA | E | PLP | 6CU7 | G    | Ri  | E   | ECH42 | Q  |      |    |     |    |     |    |
| 57Ap | EIA | A |     | 6CU8 | C-J  | No  | EL  |       |    |      |    |     |    |     |    |
| 55Oc | EIA | E | PLP | 6CV7 | BC   | Ri  | E   | EBC41 | Q  |      |    |     |    |     |    |
| 60Jl | EIA | A |     | 6CW4 | C    | Nu  | E   |       |    |      |    |     |    |     |    |
| 56Jl | EIA | A |     | 6CW5 | L    | No  | E   | EL86  | Q  | EL86 | Q  |     |    |     |    |
| 5x   |     | E | GEM | 6CW7 | C-C  | No  | E   | ECC84 | Q  |      |    |     |    |     |    |
| 57Fe | EIA | A |     | 6CX8 | C-S  | No  | E   |       |    |      |    |     |    |     |    |
| 56Sp | EIA | A |     | 6CY5 | E    | Mi7 | EC  |       |    |      |    |     |    |     |    |
| 57Ap | EIA | A |     | 6CY7 | C-D  | No  | E   |       |    |      |    |     |    |     |    |
| 56No | EIA | A |     | 6CZ5 | S    | No  | EL  | 6973  | A  | 6V6  | U  |     |    |     |    |
| 44Mr | EIA | A |     | 6D4  | T    | Mi7 | E   |       |    |      |    |     |    |     |    |
| 35Jn | EIA | A | RCA | 6D5  | D    | Oc  | E   |       |    | 45   | A  | 45  | U  |     |    |
| 3x   |     | A |     | 6D6  | F    | U6  | EP  | 6E7   | S  | 58   | A  | 58  | H  | 6U7 | S  |
| 3x   |     | A |     | 6D7  | J    | U7s | EP  | 6C6   | S  | 57   | A  | 57  | R  | 6J7 | S  |
| 36Jn | EIA | A |     | 6D8  | K    | Oc  | EH  |       |    | 6A8  | A  | 6A8 | H  | 7A8 | T  |
| 60Au | EIA | A |     | 6D10 | CCC  | Cmp | EL  |       |    |      |    |     |    |     |    |
| 60Fe | EIA | A |     | 6DA4 | Y    | Oc  | E   |       |    |      |    |     |    |     |    |
| 56Sp | EIA | E | GEM | 6DA5 | MC   | No  | E   | EM81  | Q  |      |    |     |    |     |    |
| 54Au | EIA | E |     | 6DA6 | F    | No  | EC  | EF89  | Q  |      |    |     |    |     |    |
| 56Au | EIA | A |     | 6DB5 | S    | No  | E   |       |    |      |    |     |    |     |    |
| 54Fe | EIA | A |     | 6DB6 | J    | Mi7 | EP  |       |    |      |    |     |    |     |    |
| 54Mr | EIA | A |     | 6DC6 | F    | Mi7 | EP  |       |    |      |    |     |    |     |    |
| 57Mr | EIA | E | GEM | 6DC8 | BF   | No  | EP  | EBF89 | Q  |      |    |     |    |     |    |
| 58De | EIA | A |     | 6DE4 | Y    | Oc  | E   |       |    |      |    |     |    |     |    |
| 54Jn | EIA | A |     | 6DE6 | J    | Mi7 | EP  |       |    |      |    |     |    |     |    |
| 56No | EIA | A |     | 6DE7 | C-D  | No  | E   |       |    |      |    |     |    |     |    |
| 55Ap | EIA | A |     | 6DG6 | S    | Oc  | E   | 6W6   | G  |      |    |     |    |     |    |
| 57Jl | EIA | A |     | 6DG7 | F    | No  | EC  | EF89  | Q  |      |    |     |    |     |    |
| 58My | EIA | A |     | 6DJ8 | C-C  | No  | E   | ECC88 | Q  |      |    |     |    |     |    |
| 56Sp | EIA | A |     | 6DK6 | J    | Mi7 | EP  |       |    |      |    |     |    |     |    |
| 66Ja | EIA | E |     | 6DL4 | C    | No  | E   | EC88  | Q  |      |    |     |    |     |    |
| 59Au | EIA | E | GEM | 6DL5 | S    | Mi7 | EC  | EL95  | Q  | EL95 | Q  |     |    |     | J  |
| 61Fe | EIA | A |     | 6DM4 | Y    | Oc  | E   |       |    |      |    |     |    |     |    |
| 55Jl | EIA | A |     | 6DN6 | S    | Oc  | E   |       |    |      |    |     |    |     |    |
| 58Fe | EIA | A |     | 6DN7 | C-D  | Oc  | E   |       |    |      |    |     |    |     |    |
| 62Fe | EIA | A |     | 6DQ4 | Y    | Oc  | E   |       |    |      |    |     |    |     |    |
| 57My | EIA | A |     | 6DQ5 | S    | Oc  | E   |       |    |      |    |     |    |     |    |
| 55My | EIA | A |     | 6DQ6 | S    | Oc  | E   | 6GW6  | K  |      |    |     |    |     |    |
| 61Au | EIA | E |     | 6DR4 | A    | SpA | EH  | EA50  | Q  |      |    |     |    |     |    |
| 55Ap | EIA | A |     | 6DR6 | ?    | ?   | ? ? |       |    |      |    |     |    |     |    |
| 58Ap | EIA | A |     | 6DR7 | C-D  | No  | E   |       |    |      |    |     |    |     |    |
| 59Au | EIA | E | GEM | 6DR8 | BF   | No  | EP  | EBF83 | Q  |      |    |     |    |     |    |
| 61Au | EIA | A |     | 6DS4 | C    | Nu  | E   |       |    |      |    |     |    |     |    |
| 57Ap | EIA | A |     | 6DS5 | S    | Mi7 | E   |       |    |      |    |     |    |     |    |
| 59Au | EIA | E | GEM | 6DS8 | CI   | No  | E   | ECH83 | Q  |      |    |     |    |     |    |
| 57Jl | EIA | A |     | 6DT5 | S    | No  | E   |       |    |      |    |     |    |     |    |
| 55No | EIA | A |     | 6DT6 | J    | Mi7 | EP  |       |    |      |    |     |    |     |    |
| 57Au | EIA | A |     | 6DT8 | C-C  | No  | EP  |       |    |      |    |     |    |     |    |
| 5x   |     | E | GEM | 6DU6 | MC   | No  | E   | EM85  | Q  |      |    |     |    |     |    |
| 62Sp | EIA | A |     | 6DV4 | C    | Nu  | E   |       |    |      |    |     |    |     |    |

| DAT1 | QU1 | L | HSL | TYPE | SYST | SOC | HZ  | PLL    | PA | OGTY   | OA | VRG  | VA | NFG   | NA |
|------|-----|---|-----|------|------|-----|-----|--------|----|--------|----|------|----|-------|----|
| 62Fe | EIA | A |     | 6DW4 | Y    | Mno | E   |        |    |        |    |      |    |       |    |
| 59Au | EIA | E | GEM | 6DX8 | C-L  | No  | E   | ECL84  | Q  |        |    |      |    |       |    |
| 60Fe | EIA | E |     | 6DY5 | S    | No  | E   | EL82   | Q  |        |    |      |    |       |    |
| 58Oc | EIA | A |     | 6DY7 | SS   | Oc  | E   |        |    |        |    |      |    |       |    |
| 59Jn | EIA | A |     | 6DZ7 | LL   | Oc  | E   |        |    | EL84   | E  |      |    |       |    |
| 35Jn | EIA | A | RCA | 6E5  | MC   | U6  | EP  | 2E5    | H  |        |    |      |    | 6AF7  | X  |
| 35Fe | EIA | A |     | 6E6  | DD   | U7m | EX  |        |    |        |    |      |    |       |    |
| 3x   |     | A |     | 6E7  | F    | U7s | EP  | 6D6    | S  | 58     | A  | 58   | R  | 6U7   | S  |
| 39Jn | EIA | F | GEM | 6E8  | G    | Oc  | EP  | ECH35  | Q  | ECH11  | A  | 6TH8 | Z  | ECH42 | U  |
| 58Oc | EIA | A |     | 6EA5 | E    | Mi7 | EC  |        |    |        |    |      |    |       |    |
| 59Mr | EIA | A |     | 6EA7 | C-D  | Oc  | E   | 6EM7   | K  |        |    |      |    |       |    |
| 58Ja | EIA | A |     | 6EA8 | C-J  | No  | EL  | ECF82  | Q  |        |    |      |    |       |    |
| 57No | EIA | A |     | 6EB8 | ?    | No  | E   |        |    |        |    |      |    |       |    |
| 59Mr | EIA | A |     | 6EC7 | F    | No  | EC  | EF89   | Q  |        |    |      |    |       |    |
| 66Au | EIA | A |     | 6EF4 | d    | Cmp | EC  |        |    |        |    |      |    |       |    |
| 3x   |     | A |     | 6EG5 | MC   | U6  | E   | 6E5    | K  | 6E5    | K  |      |    |       |    |
| 58Jn | EIA | A |     | 6EH5 | S    | Mi7 | E   |        |    |        |    |      |    |       |    |
| 60Fe | EIA | E |     | 6EH7 | F    | No  | EP  | EF183  | Q  | EF183  | Q  |      |    |       |    |
| 58Fe | EIA | A |     | 6EH8 | C-J  | No  | EL  |        |    |        |    |      |    |       |    |
| 60Fe | EIA | E |     | 6EJ7 | J    | No  | EP  | EF184  | Q  | EF184  | Q  |      |    |       |    |
| 61Mr | EIA | A |     | 6EL7 | J    | No  | EP  | EF80   | Q  |        |    |      |    |       |    |
| 58Jl | EIA | A |     | 6EM5 | S    | No  | E   |        |    |        |    |      |    |       |    |
| 59Sp | EIA | A |     | 6EM7 | C-D  | Oc  | E   | 6EA7   | K  |        |    |      |    |       |    |
| 59Mr | EIA | E |     | 6ER5 | C°   | Mi7 | E   | EC95   | Q  |        |    |      |    |       |    |
| 60Fe | EIA | E |     | 6ES5 | C    | Mi7 | E   | EF97   | Q  |        |    |      |    |       |    |
| 59Fe | EIA | E |     | 6ES6 | F    | Mi7 | EP  | EF97   | Q  |        |    |      |    |       |    |
| 58My | EIA | E |     | 6ES8 | C°C° | No  | E   | ECC189 | Q  |        |    |      |    |       |    |
| 59Fe | EIA | E |     | 6ET6 | J    | Mi7 | E   | EF98   | Q  |        |    |      |    |       |    |
| 61Fe | EIA | A |     | 6ET7 | B-L  | No  | E   |        |    |        |    |      |    |       |    |
| 60Mr | EIA | A |     | 6EU7 | C-C  | No  | EP  |        |    |        |    |      |    |       |    |
| 59Jn | EIA | A |     | 6EV5 | E    | Mi7 | EC  |        |    |        |    |      |    |       |    |
| 59Oc | EIA | A |     | 6EV7 | C-C  | No  | EX  |        |    |        |    |      |    |       |    |
| 58Ap | EIA | A |     | 6EW6 | J    | Mi7 | E   |        |    |        |    |      |    |       |    |
| 60Mr | EIA | A |     | 6EW7 | C-C  | No  | E   |        |    |        |    |      |    |       |    |
| 59Mr | EIA | A |     | 6EX6 | S    | Oc  | E   |        |    |        |    |      |    |       |    |
| 59Fe | EIA | A |     | 6EZ8 | CCC  | No  | EL  |        |    |        |    |      |    |       |    |
| 44Au | EIA | A |     | 6F4  | C    | ??  | ??E |        |    |        |    |      |    |       |    |
| 35My | EIA | A | RCA | 6F5  | C    | Oc  | EP  |        |    |        |    | 75   | X  | 6SF5  | V  |
| 35My | EIA | A | RCA | 6F6  | L    | Oc  | E   |        |    | 42     | A  | 42   | S  | 6V6   | Z  |
| 34De | EIA | A | RCA | 6F7  | CF   | U7s | EP  |        |    | 39/44® | E  |      |    | 6P7   | S  |
| 37Sp | EIA | A |     | 6F8  | C-C  | Oc  | EX  |        |    | 6J5    | E  | 6N7  | X  | 6SN7  | S  |
| 60Mr | EIA | E |     | 6FC7 | C-C  | No  | E   | ECC89  | Q  |        |    |      |    |       |    |
| 59Fe | EIA | E | GEM | 6FG6 | MC   | No  | E   | EM84   | Q  | EM84   | Q  |      |    |       |    |
| 60Au | EIA | A |     | 6FG7 | C-F  | No  | EL  |        |    |        |    |      |    |       |    |
| 59Oc | EIA | A |     | 6FH5 | C    | Mi7 | EC  |        |    |        |    |      |    |       |    |
| 6x   |     | A | SYL | 6FJ7 | C-D  | Cmp | E   |        |    |        |    |      |    |       |    |
| 62My | EIA | A |     | 6FM7 | C-D  | Cmp | E   |        |    |        |    |      |    |       |    |
| 58Mr | EIA | A |     | 6FM8 | AA-C | No  | EL  |        |    |        |    |      |    |       |    |
| 60No | EIA | F | GEM | 6FN5 | S    | Oc  | E   | EL300  | #  | 35FN5  | H  |      |    |       |    |
| 60My | EIA | A |     | 6FQ5 | C°   | Mi7 | E   | 6GK5   | K  |        |    |      |    |       |    |
| 61Fe | EIA | A |     | 6FQ7 | C-C  | No  | EX  | 6CG7   | K  | 6SN7   | S  |      |    |       |    |
| 59Fe | EIA | A |     | 6FV6 | E    | Mi7 | EC  |        |    |        |    |      |    |       |    |
| 59Fe | EIA | A |     | 6FV8 | C-J  | No  | EL  | 6BR8   | K  |        |    |      |    |       |    |
| 60My | EIA | A |     | 6FY5 | C    | Mi7 | EC  | EC97   | Q  |        |    |      |    |       |    |
| 62Ap | EIA | A |     | 6FY7 | C-D  | Cmp | E   |        |    |        |    |      |    |       |    |
| 36Fe | EIA | A | RCA | 6G5  | MC   | U6  | EP  | 6U5    | #  | 6E5    | C  |      |    | 6AF7  | X  |
| 37No | EIA | A |     | 6G6  | L    | Oc  | EH  |        |    |        |    | 38   | U  | 6AK6  | S  |
| 61De | EIA | A |     | 6G11 | J-S  | Cmp | E   |        |    |        |    |      |    |       |    |
| 61Ap | EIA | E |     | 6GB5 | S    | Mno | E   | EL500  | Q  | EL500  | Q  |      |    |       |    |
| 61Oc | EIA | A |     | 6GE5 | S    | Cmp | E   |        |    |        |    |      |    |       |    |
| 61De | EIA | A |     | 6GF5 | S    | Cmp | E   |        |    |        |    |      |    |       |    |
| 4 ?  | EIA | W | TKD | 6GG6 | Z    | St8 | E   | EZ12   | K  |        |    |      |    |       |    |
| 59Jn | EIA | A |     | 6GH8 | C-J  | No  | EL  | 6EA8   | K  |        |    |      |    |       |    |

| DAT1 | QU1 | L | HSL | TYPE   | SYST | SOC | HZ | PLL    | PA | OGTY   | OA | VRG | VA | NFG   | NA |
|------|-----|---|-----|--------|------|-----|----|--------|----|--------|----|-----|----|-------|----|
| 61No | EIA | A |     | 6GJ5   | S    | Mno | E  |        |    |        |    |     |    |       |    |
| 63Mr | EIA | E |     | 6GJ7   | C-J  | No  | E  | ECF801 | Q  | ECF801 | Q  |     |    |       |    |
| 59De | EIA | A |     | 6GJ8   | C-J  | No  | EX |        |    |        |    |     |    |       |    |
| 6Ja1 | EIA | A |     | 6GK5   | C°   | Mi7 | E  | 6FQ5   | K  |        |    |     |    |       |    |
| 59Jl | EIA | A | GEM | 6GK6   | L    | No  | E  | EL84   | Q  | EL84   | V  |     |    |       |    |
| 59No | EIA | A |     | 6GM6   | F    | Mi7 | E  |        |    |        |    |     |    |       |    |
| 61No | EIA | E |     | 6GM8   | C-C  | No  | E  | ECC86  | Q  |        |    |     |    |       |    |
| 59De | EIA | A |     | 6GS8   | JJ)  | No  | EP | 6BU8   | K  |        |    |     |    |       |    |
| 61Sp | EIA | A |     | 6GT5   | S    | Mno | E  |        |    |        |    |     |    |       |    |
| 63Mr | EIA | A |     | 6GU7   | C-C  | No  | EX |        |    |        |    |     |    |       |    |
| 62My | EIA | A |     | 6GV5   | S    | Cmp | E  |        |    |        |    |     |    |       |    |
| 63Fe | EIA | E |     | 6GV7   | C-J  | No  | E  | ECF805 | Q  |        |    |     |    |       |    |
| 62Jn | EIA | E |     | 6GV8   | C-S  | No  | E  | ECL85  | Q  |        |    |     |    |       |    |
| 60Sp | EIA | A |     | 6GW6   | S    | Oc  | E  | 6DQ6B  | K  |        |    |     |    |       |    |
| 61Ap | EIA | E |     | 6GW8   | C-S  | No  | E  | ECL86  | Q  | ECL86  | Q  |     |    |       |    |
| 61Mr | EIA | A |     | 6GX6   | J    | Mi7 | EL |        |    |        |    |     |    |       |    |
| 60   |     | E |     | 6GX8   | AM-C | No  | EP | EAM86  | Q  |        |    |     |    |       |    |
| 62De | EIA | A |     | 6GY5   | S    | Cmp | E  |        |    |        |    |     |    |       |    |
| 61Fe | EIA | A |     | 6GY6   | J    | Mi7 | EL |        |    |        |    |     |    |       |    |
| 60My | EIA | A |     | 6GY8   | CCC  | No  | EL |        |    |        |    |     |    |       |    |
| 39My | EIA | A |     | 6H4    | A    | Oc  | EH |        |    | 6H6    | M  |     |    |       |    |
| 36Oc | EIA | A |     | 6H5    | MC   | U6  | EP | 6G5    | #  | 6G5    | K  |     |    |       |    |
| 35Au | EIA | A | RCA | 6H6    | AA   | Oc  | EP |        |    |        |    | G4S | U  | 6AL5  | S  |
| 39Jn | EIA | F | GEM | 6H8    | BF   | Oc  | EP |        |    | EBF2   | U  | 6B8 | X  | EBF80 | U  |
| 63Ja | EIA | E |     | 6HA5   | C°   | Mi7 | E  | EC900  | Q  |        |    |     |    |       |    |
| 62Oc | EIA | A |     | 6HB5   | S    | Cmp | E  |        |    |        |    |     |    |       |    |
| 64Fe | EIA | A |     | 6HB7   | C-J  | No  | EL |        |    |        |    |     |    |       |    |
| 62Oc | EIA | A |     | 6HE5   | ?    | ?   | ?  |        |    |        |    |     |    |       |    |
| 64Oc | EIA | A |     | 6HE7   | S-Y  | Cmp | E  |        |    |        |    |     |    |       |    |
| 63Ja | EIA | A |     | 6HF5   | S    | Cmp | E  |        |    |        |    |     |    |       |    |
| 60No | EIA | A |     | 6HF8   | C-S  | No  | E  |        |    |        |    |     |    |       |    |
| 60Mr | EIA | E |     | 6HG8   | C-J  | No  | E  | ECF86  | Q  |        |    |     |    |       |    |
| 63My | EIA | A |     | 6HJ5   | S    | Cmp | E  |        |    |        |    |     |    |       |    |
| 63Sp | EIA | E |     | 6HM5   | C    | Mi7 | E  | EC900  | Q  |        |    |     |    |       |    |
| 64Mr | EIA | A |     | 6HQ5   | C    | Mi7 | EC |        |    |        |    |     |    |       |    |
| 666  | EIA | A |     | 6HS5   | D    | Cmp | E  |        |    |        |    |     |    |       |    |
| 62Jl | EIA | A |     | 6HS6   | J    | Mi7 | EL |        |    |        |    |     |    |       |    |
| 60Oc | EIA | A |     | 6HS8   | JJ)  | No  | EP |        |    |        |    |     |    |       |    |
| 62Oc | EIA | E | GEM | 6HU6   | MC   | No  | E  | EM87   | Q  |        |    |     |    |       |    |
| 61Mr | EIA | E |     | 6HU8   | SS   | No  | E  | ELL80  | Q  |        |    |     |    |       |    |
| 44Mr | EIA | A |     | 6J4    | C    | Mi7 | E  |        |    |        |    |     |    |       |    |
| 37Jn | EIA | A | RCA | 6J5    | C    | Oc  | EP | 6SN7   | M  |        |    | 6C5 | C  | 7A4   | S  |
| 42Sp | EIA | A |     | 6J6    | CC   | Mi7 | EL | ECC91  | Q  |        |    |     |    |       |    |
| 35Au | EIA | A | RCA | 6J7    | J    | Oc  | EP | 7000   | F  | 6C6    | A  | 6C6 | S  | 7AJ7  | X  |
| 38Fe | EIA | A | RAY | 6J8    | U    | Oc  | EP | 6J9SG  | R  |        |    | 6L7 | F  | 7J7   | S  |
| 62Ap | EIA | A |     | 6J9    | CCC  | N10 | EL |        |    |        |    |     |    |       |    |
| 4x   |     | S | GEM | 6J9SGM | CI   | Oc  | E  | 6J8    | V  |        |    |     |    |       |    |
| 63Mr | EIA | A |     | 6J10   | J-S  | Cmp | E  | 6Z10   | K  |        |    |     |    |       |    |
| 61De | EIA | A |     | 6J11   | J-J  | Cmp | E  |        |    |        |    |     |    |       |    |
| 69De | EIA | A |     | 6JB5   | ?    | ?   | ?  |        |    |        |    |     |    |       |    |
| 62De | EIA | A |     | 6JB6   | S    | Mno | E  |        |    |        |    |     |    |       |    |
| 71Fe | EIA | A |     | 6JC5   | S    | Cmp | E  |        |    |        |    |     |    |       |    |
| 70Fe | EIA | A |     | 6JD5   | D    | Cmp | E  |        |    |        |    |     |    |       |    |
| 63Fe | EIA | A |     | 6JD6   | J    | No  | EP |        |    |        |    |     |    |       |    |
| 62De | EIA | A |     | 6JE6   | S    | Mno | E  | 6LQ6   | K  |        |    |     |    | 6MJ6  | K  |
| 71Mr | EIA | A |     | 6JH5   | D    | Cmp | E  |        |    |        |    |     |    |       |    |
| 63Mr | EIA | A |     | 6JH6   | F    | Mi7 | EP |        |    |        |    |     |    |       |    |
| 71Mr | EIA | A |     | 6JK5   | D    | Cmp | E  |        |    |        |    |     |    |       |    |
| 63Mr | EIA | A |     | 6JK6   | J    | Mi7 | E  |        |    |        |    |     |    |       |    |
| 63Mr | EIA | A |     | 6JL6   | F    | Mi7 | E  |        |    |        |    |     |    |       |    |
| 64Mr | EIA | A |     | 6JM6   | S    | Cmp | E  |        |    |        |    |     |    |       |    |
| 64Mr | EIA | A |     | 6JN6   | S    | Cmp | E  |        |    |        |    |     |    |       |    |
| 62Oc | EIA | A |     | 6JN8   | C-J  | No  | EL |        |    |        |    |     |    |       |    |

| DAT1 | QU1 | L | HSL | TYPE   | SYST | SOC | HZ  | PLL    | PA | OGTY  | OA | VRG  | VA | NFG   | NA |
|------|-----|---|-----|--------|------|-----|-----|--------|----|-------|----|------|----|-------|----|
| 64Ap | EIA | A |     | 6JS6   | S    | Cmp | E   |        |    |       |    |      |    |       |    |
| 62Jn | EIA | A |     | 6JT8   | C-S  | No  | E   |        |    |       |    |      |    |       |    |
| 62Mr | EIA | A |     | 6JU8   | B-B  | No  | EX  |        |    |       |    |      |    |       |    |
| 62Jn | EIA | A |     | 6JV8   | C-S  | No  | EX  |        |    |       |    |      |    |       |    |
| 64No | EIA | E |     | 6JW8   | C-J  | No  | E   | ECF802 | Q  |       |    |      |    |       |    |
| 6x   |     | E | GEM | 6JX8   | CI   | No  | EP  | ECH84  | Q  |       |    |      |    |       |    |
| 66Mr | EIA | A |     | 6JZ6   | S    | Cmp | E   |        |    |       |    |      |    |       |    |
| 62Oc | EIA | A |     | 6JZ8   | C-S  | Cmp | E   |        |    |       |    |      |    |       |    |
| 45No | EIA | A |     | 6K4    | C    | Nu  | EH  |        |    |       |    |      |    |       |    |
| 36My | EIA | A |     | 6K5    | C    | Oc  | EP  |        |    |       |    | 6F5  | T  | 6SF5  | T  |
| 35No | EIA | A |     | 6K6    | L    | Oc  | 1E  |        |    | 41    | S  | 41   | S  | 7B5   | S  |
| 35Au | EIA | A | RCA | 6K7    | F    | Oc  | EP  |        |    | 78    | A  | 78   | S  | 6SK7  | S  |
| 37De | BPD | A | RCA | 6K8    | G    | Oc  | EP  |        |    |       |    | 6L7  | F  | 7S7   | T  |
| 6Ja1 | EIA | A |     | 6K11   | CCC  | Cmp | EX  |        |    |       |    |      |    |       |    |
| 65Ap | EIA | A |     | 6KD6   | S    | Cmp | E   |        |    |       |    |      |    |       |    |
| 62Ap | EIA | A |     | 6KD8   | C-J  | No  | E   |        |    |       |    |      |    |       |    |
| 63Ja | EIA | A |     | 6KE8   | C-J  | No  | E   |        |    |       |    |      |    |       |    |
| 65Au | EIA | E |     | 6KG6   | S    | Mno | EP  | EL509  | Q  |       |    |      |    |       |    |
| 62Jl | EIA | A |     | 6KM8   | A(E) | No  | EP  |        |    |       |    |      |    |       |    |
| 65Jl | EIA | A |     | 6KN6   | S    | Cmp | E   |        |    |       |    |      |    |       |    |
| 6x   |     | A |     | 6KU8   | C-J  | No  | E   |        |    |       |    |      |    |       |    |
| 5x   |     | E |     | 6KX8   | C-C  | No  | E   | ECC808 | Q  |       |    |      |    |       |    |
| 63Fe | EIA | A |     | 6KZ8   | C-J  | No  | EL  |        |    |       |    |      |    |       |    |
| 49My | EIA | A |     | 6L4    | C    | ??  | ??E |        |    |       |    |      |    |       |    |
| 36Jn | EIA | A |     | 6L5    | C    | Oc  | EH  |        |    |       |    | 6C5  | O  | 6C4   | T  |
| 36Mr | EIA | A | RCA | 6L6    | S    | Oc  | E   | EL39   | Q  |       |    |      |    | 6L6GC | G  |
| 35Ap | EIA | A | RCA | 6L7    | I    | Oc  | EP  |        |    |       |    |      |    | 6SA7  | N  |
| 67Ja | EIA | A |     | 6LB6   | S    | Cmp | E   |        |    |       |    |      |    |       |    |
| 68Ja | EIA | A |     | 6LF6   | S    | Cmp | E   |        |    |       |    |      |    |       |    |
| 64No | EIA | A |     | 6LU8   | C-S  | Cmp | E   |        |    |       |    |      |    |       |    |
| 71Sp | EIA | A |     | 6LW6   | S    | Oc  | E   |        |    |       |    |      |    |       |    |
| 49Ap | EIA | E |     | 6M5    | L    | No  | E   | EL80   | Q  | EL41  | S  |      |    |       |    |
| 38De | EIA | F | GEM | 6M6    | L    | Oc  | E   | EL33   | Q  | EL3   | A  | 6F6  | C  | 6V6   | Z  |
| 40Ja | EIA | F | GEM | 6M7    | F    | Oc  | EP  |        |    | EF9   | U  | 6K7  | C  | EF41  | U  |
| 39Au | EIA | A |     | 6M8    | ACF  | Oc  | EX  | 25D8   | H  |       |    |      |    |       |    |
| 62Mr | EIA | A |     | 6M11   | CCJ  | Cmp | E   |        |    |       |    |      |    |       |    |
| 71No | EIA | A |     | 6MB6   | S    | Cmp | E   |        |    |       |    |      |    |       |    |
| 5>   |     | J |     | 6M-E10 | MC   | Mi7 | E   |        |    |       |    |      |    |       |    |
| 67Ap | EIA | A |     | 6MF8   | C-S  | Cmp | E   |        |    |       |    |      |    |       |    |
| 67Jn | EIA | A |     | 6MJ8   | CCC  | Cmp | E   |        |    |       |    |      |    |       |    |
| 56Jl | EIA | E |     | 6N3    | Y    | No  | E   | EY82   | Q  |       |    |      |    |       |    |
| 45Sp | EIA | A |     | 6N4    | C    | Mi7 | EC  |        |    |       |    |      |    |       |    |
| 36Jn | EIA | A |     | 6N5    | MC   | U6  | EH  |        |    | 6E5   | C  |      |    |       |    |
| 35De | EIA | A | KRD | 6N6    | O    | Oc  | E   |        |    | 6B5   | A  | 6B5  | S  |       |    |
| 36Mr | EIA | A | RCA | 6N7    | DD + | Oc  | E   |        |    | 53    | A  | 6A6  | S  |       |    |
| 49Au | EIA | E | GEM | 6N8    | BF   | No  | EP  | EBF80  | Q  | EBF80 | Q  |      |    |       |    |
| 38No | EIA | A |     | 6P5    | C    | Oc  | EP  |        |    | 56    | A  | 76   | S  |       |    |
| 35Jn | EIA | A |     | 6P7    | CF   | Oc  | EP  |        |    | 6F7   | A  | 6F7  | S  | 12B8  | O  |
| 38No | EIA | A |     | 6P8    | G    | Oc  | E   |        |    | 6K8   | B  |      |    |       |    |
| 4x   |     | I | FIV | 6PX6   | L    | Oc  | E   | 6M6    | Q  | EL3   | S  |      |    |       |    |
| 4x   |     | I | FIV | 6PZ8   | BL   | Oc  | E   | EBL31  | V  | EBL1  | S  | 6AY8 | C  |       |    |
| 49Jl | EIA | A |     | 6Q4    | C    | No  | E   | EC80   | Q  |       |    |      |    |       |    |
| 43Ja | EIA | A |     | 6Q5    | T    | Oc  | EX  |        |    |       |    | 2B4  | U  | 884   | C  |
| 36Jn | EIA | A |     | 6Q6    | AC   | Oc  | EH  |        |    |       |    |      |    | 6T7   | M  |
| 35No | EIA | A | RCA | 6Q7    | BC   | Oc  | EP  |        |    | 75    | B  | 75   | T  | 6SQ7  | X  |
| 61Jn | EIA | A |     | 6Q11   | ?    | Cmp | E   |        |    |       |    |      |    |       |    |
| 4x   |     | I | FIV | 6R     | J    | Oc  | EH  | 6W7    | <  | EF6   | U  |      |    |       |    |
| 49Jl | EIA | A |     | 6R4    | C    | No  | EC  | EC81   | Q  |       |    |      |    |       |    |
| 38De | EIA | A |     | 6R6    | J    | Oc  | EP  |        |    |       |    |      |    |       |    |
| 36Ja | EIA | A | RCA | 6R7    | BC   | Oc  | EP  |        |    | 85    | B  | 85   | T  | 6SR7  | V  |
| 49Oc | EIA | A |     | 6R8    | A-BC | No  | EL  |        |    |       |    |      |    |       |    |
| 4x   |     | I | FIV | 6RV    | F    | Oc  | EH  |        |    | EF9   | R  |      |    |       |    |
| 49De | EIA | A |     | 6S4    | D    | No  | EX  |        |    |       |    |      |    |       |    |

| DAT1 | QU1 | L | HSL | TYPE | SYST | SOC | HZ | PLL    | PA | OGTY   | OA | VRG    | VA | NFG    | NA |
|------|-----|---|-----|------|------|-----|----|--------|----|--------|----|--------|----|--------|----|
| 40Ja | EIA | A |     | 6S6  | J    | Oc  | EL |        |    | 6AB7   | K  | 6AB7   | X  | 6SH7   | X  |
| 36Jn | EIA | A | RCA | 6S7  | F    | Oc  | EH |        |    | 6K7    | B  | 6K7    | Z  | 6SS7   | X  |
| 45Sp | EIA | A |     | 6S8  | A-BC | Oc  | EP |        |    |        |    |        |    | 6T8    | U  |
| 38No | EIA | A | RCA | 6SA7 | N    | Oc  | EP | 5961   | F  |        |    | 6A8    | Y  | 6BE6   | S  |
| 46Ja | EIA | A | RCA | 6SB7 | N    | Oc  | EP |        |    | 6SA7   | B  |        |    | 6BA7   | S  |
| 38No | EIA | A | RCA | 6SC7 | CC   | Oc  | EP |        |    |        |    | 6Z7    | X  | 6SL7   | X  |
| 40Ap | EIA | A |     | 6SD7 | F    | Oc  | EP | 6SG7   | X  |        |    |        |    |        |    |
| 40Ap | EIA | A |     | 6SE7 | J    | Oc  | EP |        |    |        |    |        |    | 6SH7   | X  |
| 38Oc | EIA | A | RCA | 6SF5 | C    | Oc  | EP |        |    | 6F5    | A  | 6F5    | V  | 7B4    | S  |
| 41Mr | EIA | A | RCA | 6SF7 | AF   | Oc  | EP |        |    |        |    |        |    |        |    |
| 41Fe | EIA | A | RCA | 6SG7 | F    | Oc  | EP |        |    | 6SD7   | B  | 6SD7   | X  | 7H7    | X  |
| 41Au | EIA | A | RCA | 6SH7 | J    | Oc  | EP |        |    | 6SE7   | B  | 6SE7   | X  | 7T7    | S  |
| 38Oc | EIA | A | RCA | 6SJ7 | J    | Oc  | EP |        |    | 6J7    | B  | 6J7    | X  | 7AJ7   | X  |
| 38Oc | EIA | A | RCA | 6SK7 | F    | Oc  | EP | 6137   | A  | 6K7    | B  | 6K7    | X  | 7A7    | X  |
| 41Jl | EIA | A |     | 6SL7 | C-C  | Oc  | EP | 6113   | A  | 7F7    | A  | 6SC7   | X  | 12AX7  | U  |
| 41Mr | EIA | A |     | 6SN7 | C-C  | Oc  | EX | 7N7    | S  | 6F8    | A  | 6F8    | V  | 6CG7   | S  |
| 38Oc | EIA | A | RCA | 6SQ7 | BC   | Oc  | EP | 7B6    | S  | 75     | A  | 6Q7    | X  | 6AV6   | T  |
| 40Ap | EIA | A | RCA | 6SR7 | BC   | Oc  | EP | 7E6    | S  | 6R7    | A  | 6R7    | V  | 6BF6   | S  |
| 41Ap | EIA | A | RCA | 6SS7 | F    | Oc  | EH | 7B7    | T  | 6S7    | B  | 6S7    | X  | 6BJ6   | T  |
| 41De | EIA | A | RCA | 6ST7 | BC   | Oc  | EH |        |    | 6SR7   | A  | 6SR7   | H  |        |    |
| 46Jn | EIA | A | RCA | 6SV7 | AJ   | Oc  | EP |        |    |        |    |        |    |        |    |
| 45No | EIA | A | RCA | 6SZ7 | BC   | Oc  | EH | 7C6    | X  | 6T7    | B  | 6T7    | X  | 6AQ6   | S  |
| 3x   |     | I | FIV | 6T   | S    | U6  | EL | 6V6    | Q  | 6V6    | S  |        |    |        |    |
| 52Sp | EIA | A |     | 6T4  | C    | Mi7 | E  |        |    |        |    |        |    |        |    |
| 37Ap | EIA | A | ARC | 6T5  | MC   | U6  | EP |        |    | 6G5    | B  | 6G5    | L  | 6U5    | L  |
| 39Sp | EIA | A |     | 6T6  | J    | Oc  | EL | 6AB7   | K  | 6AB7   | B  | 6AB7   | X  | 6SH7   | X  |
| 36Oc | EIA | A |     | 6T7  | BC   | Oc  | EH |        |    | 6Q6    | A  | 6Q6    | M  | 6SZ7   | X  |
| 47My | EIA | A |     | 6T8  | A-BC | No  | EL | EABC80 | Q  |        |    |        |    |        |    |
| 63Mr | EIA | A |     | 6T10 | J-S  | Cmp | E  |        |    |        |    |        |    |        |    |
| 3x   |     | I | FIV | 6TE8 | CH   | Oc  | EP |        |    | 6E8    | V  |        |    |        |    |
| 37Ap | HLR | H | TRM | 6TH8 | G    | Oc  | E  |        |    | ACH1   | R  | 6A8    | Y  | 6E8    | Z  |
| 3x   |     | I | FIV | 6TP  | S    | U6  | E  | 807    | Q  | 807    | S  |        |    |        |    |
| 51Oc | EIA | E |     | 6U3  | Y    | No  | E  | EY80   | Q  |        |    |        |    |        |    |
| 49No | EIA | A |     | 6U4  | Y    | Oc  | E  |        |    | 6W4    | B  | 6W4    | C  | 6AX4   | C  |
| 37Ap | EIA | A |     | 6U5  | MC   | U6  | EP | 6G5    | K  | 6G5    | A  | 6G5    | =  | 6G56U5 | =  |
| 40Jn | EIA | A |     | 6U6  | S    | Oc  | E  |        |    | 6Y6    | B  | 6Y6    | Z  |        |    |
| 36Au | EIA | A |     | 6U7  | F    | Oc  | EP |        |    | 6D6    | A  | 6D6    | S  | 6SK7   | X  |
| 51My | EIA | A |     | 6U8  | C-J  | No  | EL | ECF82  | Q  |        |    |        |    |        |    |
| 665  | EIA | A |     | 6U9  | C-J  | Dec | E  |        |    |        |    |        |    |        |    |
| 63Mr | EIA | A |     | 6U10 | CCC  | Cmp | EX |        |    |        |    |        |    |        |    |
| 51Ap | EIA | A |     | 6V3  | Y    | No  | E  |        |    |        |    |        |    |        |    |
| 49Ap | EIA | E |     | 6V4  | Z    | No  | EX | EZ80   | Q  |        |    |        |    |        |    |
| 37Jl | BPD | A | RCA | 6V6  | S    | Oc  | EL | 7C5    | S  |        |    | 6F6    | Z  | 6AQ5   | S  |
| 36Au | EIA | A |     | 6V7  | BC   | Oc  | EP |        |    | 55     | A  | 85     | S  | 6R7    | C  |
| 50Sp | EIA | A |     | 6V8  | A-BC | No  | EL |        |    |        |    |        |    |        |    |
| 48My | EIA | A |     | 6W4  | Y    | Oc  | E  |        |    |        |    |        |    |        |    |
| 37Ja | EIA | A |     | 6W5  | Z    | Oc  | E  | 7Z4    | S  | 5W4    | B  | 5W4    | W  | 6BW4   | X  |
| 39Jn | EIA | A |     | 6W6  | S    | Oc  | E  |        |    |        |    | 6Y6    | Z  |        |    |
| 38Ja | EIA | A |     | 6W7  | J    | Oc  | EH | 7C7    | S  | 6J7    | A  | 6J7    | H  | 6BR7   | S  |
| 46Fe | EIA | A |     | 6X4  | Z    | Mi7 | EX | EZ90   | Q  | 6X5    | S  | 6X5    | S  | 6BX4   | >  |
| 36Fe | EIA | A | RCA | 6X5  | Z    | Oc  | EX | EZ35   | Q  | 84/6Z4 | B  | 84/6Z4 | U  | 6X4    | S  |
| 37Ap | EIA | A |     | 6X6  | MC   | Oc  | EP |        |    | 6E5    | B  | 6E5    | T  |        |    |
| 51Ap | EIA | A |     | 6X8  | CJ   | No  | EL |        |    |        |    |        |    |        |    |
| 66My | EIA | E |     | 6X9  | C-J  | Dec | E  | ECF200 | Q  |        |    |        |    |        |    |
| 42Ja | EIA | A |     | 6Y3  | y    | Oc  | E  |        |    |        |    |        |    |        |    |
| 3x   |     | A |     | 6Y5  | Z    | U6  | E  |        |    |        |    |        |    | 6X5    | U  |
| 37Jl | EIA | A |     | 6Y6  | S    | Oc  | E  | 25C6   | H  |        |    |        |    | 6U6    | Z  |
| 37Ja | EIA | A |     | 6Y7  | DD + | Oc  | EX | 1635   | A  | 79     | A  | 79     | S  |        |    |
| 66My | EIA | E |     | 6Y9  | J-S  | Dec | E  | EFL200 | Q  |        |    |        |    |        |    |
| 64De | EIA | A |     | 6Y10 | ?    | Cmp | E  |        |    |        |    |        |    |        |    |
| 35Au | EIA | A |     | 6Z3  | Y    | U4  | EP | 1-V    | K  | 1-V    | B  | 1-V    | G  | 6ZY5   | T  |
| 3x   |     | A |     | 6Z5  | Z    | U6  | EF |        |    |        |    |        |    | 6X5    | U  |
| 37My | EIA | A |     | 6Z7  | DD + | Oc  | EP |        |    | 6Y7    | >  |        |    |        |    |

| DAT1 | QU1 | L | HSL | TYPE   | SYST | SOC | HZ | PLL    | PA | OGTY  | OA | VRG    | VA | NFG   | NA |
|------|-----|---|-----|--------|------|-----|----|--------|----|-------|----|--------|----|-------|----|
| 65Sp | EIA | A |     | 6Z10   | ?    | Cmp |    |        |    |       |    |        |    |       |    |
| 37My | EIA | A |     | 6ZY5   | Z    | Oc  | EP |        |    | 6X5   | >  | 6Z3    | T  |       |    |
| 39Mr | EIA | A | SYL | 7A4    | C    | Lo8 | EP | 6J5    | S  | 6J5   | S  |        |    |       |    |
| 39My | EIA | A | SYL | 7A5    | S    | Lo8 | E  |        |    | 35A5  | H  |        |    |       |    |
| 38Jn | EIA | A | SYL | 7A6    | AA   | Lo8 | EH | 6H6    |    | 6H6   | R  | 6H6    |    | 6AL5  | R  |
| 38De | EIA | A | SYL | 7A7    | F    | Lo8 | EP | 6SK7   | S  | 6SK7  | S  |        |    |       |    |
| 38Jn | EIA | A | SYL | 7A8    | K    | Lo8 | EH | 7B8    | K  | 6D8   | T  | 6D8    |    |       |    |
| 45No | EIA | A | SYL | 7AB7   | J    | Lo8 | EH | 1204   | A  |       |    |        |    |       |    |
| 47Ap | EIA | A | SYL | 7AD7   | L    | Lo8 | EX |        |    |       |    |        |    |       |    |
| 44No | EIA | A | SYL | 7AF7   | C-C  | Lo8 | EP |        |    |       |    |        |    |       |    |
| 45No | EIA | A | SYL | 7AG7   | J    | Lo8 | EH |        |    |       |    |        |    |       |    |
| 47Ja | EIA | A | SYL | 7AH7   | F    | Lo8 | EH |        |    |       |    |        |    |       |    |
| 47Au | EIA | A | SYL | 7AJ7   | J    | Lo8 | EP |        |    |       |    |        |    |       |    |
| 48Mr | EIA | A | SYL | 7AK7   | L    | Lo8 | E  |        |    |       |    |        |    |       |    |
| 55Au | EIA | E |     | 7AN7   | C-C  | No  | P  | PCC84  | Q  |       |    |        |    |       |    |
| 54No | EIA | A |     | 7AU7   | C-C  | No  | X  | XCC82  | Q  |       |    |        |    |       |    |
| 40Ja | EIA | A | SYL | 7B4    | C    | Lo8 | EP | 6SF5   | S  | 6SF5  | S  |        |    |       |    |
| 39Fe | EIA | A | SYL | 7B5    | L    | Lo8 | E  | 6K6    | S  | 6K6   | S  | 6K6    |    | 6AR5  | S  |
| 39Fe | EIA | A | SYL | 7B6    | BC   | Lo8 | EP |        |    | 6SQ7  | S  | 6Q7    | T  | 6AV6  | T  |
| 38De | EIA | A | SYL | 7B7    | F    | Lo8 | EH |        |    | 6SS7  | T  | 6S7    | T  | 6BJ6  | T  |
| 39Fe | EIA | A | SYL | 7B8    | K    | Lo8 | EP | 7A8    | K  |       |    |        |    |       |    |
| 43Mr | EIA | A | SYL | 7C4    | A    | Lo8 | EH |        |    | 6H4   | S  | 6H4    | S  |       |    |
| 39Fe | EIA | A | SYL | 7C5    | S    | Lo8 | EL |        |    | 6V6   | S  | 6V6    | S  | 6AQ5  | S  |
| 38De | EIA | A | SYL | 7C6    | BC   | Lo8 | EH |        |    | 6SZ7  | T  | 6SZ7   | T  | 6AQ6  | T  |
| 39Mr | EIA | A | SYL | 7C7    | J    | Lo8 | EH |        |    | 6W7   | S  | 6W7    | S  | 6BH6  | T  |
| 39Jl | EIA | A | SYL | 7D7    | G    | Lo8 | E  |        |    |       |    |        |    | 7S7   | O  |
| 43Mr | EIA | A | SYL | 7E5    | C    | Lo8 | EH |        |    |       |    |        |    |       |    |
| 39Ap | EIA | A | SYL | 7E6    | BC   | Lo8 | EP | 6BF6   | S  | 6SR7  | S  | 6SR7   | S  |       | 6  |
| 39Jn | EIA | A | SYL | 7E7    | BF   | Lo8 | EP |        |    | 6B8   | T  | 6B8    | T  | 7R7   | C  |
| 60Au | EIA | E |     | 7ES8   | C°C° | No  | P  | PCC189 | Q  |       |    |        |    |       |    |
| 39Jn | EIA | A | SYL | 7F7    | C-C  | Lo8 | EP | 6SL7   | S  | 6SC7  | T  | 6SC7   | T  | 12AX7 | T  |
| 44Jl | EIA | A | SYL | 7F8    | C-C  | Lo8 | EP |        |    |       |    |        |    |       |    |
| 60Mr | EIA | E |     | 7FC7   | C-C  | No  | P  | PCC89  | Q  | PCC88 | H  |        |    |       |    |
| 40Ja | EIA | A | SYL | 7G7    | J    | Lo8 | EL |        |    |       |    |        |    | 6AU6  | U  |
| 44Mr | EIA | A | SYL | 7G8    | EE   | Lo8 | EP |        |    |       |    |        |    |       |    |
| 63Fe | EIA | E |     | 7GV7   | C-J  | No  | P  | PCF805 | Q  |       |    |        |    |       |    |
| 40Mr | EIA | A | SYL | 7H7    | F    | Lo8 | EP | 6SG7   | S  |       |    |        |    |       |    |
| 60Mr | EIA | E |     | 7HG8   | C-J  | No  | P  | PCF86  | Q  |       |    |        |    |       |    |
| 39Jl | EIA | A | SYL | 7J7    | G    | Lo8 | EP |        |    | 6J8   | S  | 6J8    | S  | 7S7   | C  |
| 41Au | EIA | A | SYL | 7K7    | B-C  | Lo8 | EP | 6AQ7   | S  | 7F7   | M  |        |    |       |    |
| 40Mr | EIA | A | SYL | 7L7    | J    | Lo8 | EP |        |    |       |    |        |    |       |    |
| 40Ap | EIA | A | SYL | 7N7    | C-C  | Lo8 | EX | 6SN7   | S  | 6F8   | S  | 6F8    | S  | 6CG7  | S  |
| 39Au | EIA | A | SYL | 7Q7    | N    | Lo8 | EP | 6SA7   | S  | 6SA7  | S  | 7B8    | Y  | 6BE6  | T  |
| 41Mr | EIA | A | SYL | 7R7    | BF   | Lo8 | EP | 6H8    | Q  |       |    | 7E7    | <  |       |    |
| 41My | EIA | A | SYL | 7S7    | G    | Lo8 | EP |        |    |       |    | 7J7    | <  |       |    |
| 42Mr | EIA | A | SYL | 7T7    | J    | Lo8 | EP | 6SH7   | S  | 6SH7  | S  |        |    | 6AU6  | T  |
| 41Ja | EIA | A | SYL | 7V7    | J    | Lo8 | EL | 7W7    | V  |       |    |        |    |       |    |
| 41No | EIA | A | SYL | 7W7    | J    | Lo8 | EL | 7V7    | V  | 7V7   | V  |        |    |       |    |
| 49Jl | EIA | A | SYL | 7X6    | YY   | Lo8 | E  |        |    | 50X6  | H  |        |    |       |    |
| 44No | EIA | A | SYL | 7X7    | A-AC | Lo8 | EP |        |    |       |    |        |    |       |    |
| 38De | EIA | A | SYL | 7Y4    | Z    | Lo8 | E  | 6X5    | R  | 6X5   | R  | 6Z4/84 | T  | 6X4   | R  |
| 40De | EIA | A | SYL | 7Z4    | Z    | Lo8 | E  | 6W5    | T  | 6W5   | T  |        |    | 6BW4  | T  |
| 59Au | EIA | A |     | 8B8    | C-S  | No  | X  | XCL82  | Q  |       |    |        |    |       |    |
| 5x   |     | E |     | 8BM8   | C-S  | No  | X  | XCL82  | Q  |       |    |        |    |       |    |
| 65Fe | EIA | A |     | 8BM11  | FJ   | Cmp | L  |        |    |       |    |        |    |       |    |
| 58Fe | EIA | E | GEM | 8BQ5   | L    | No  | X  | XL84   | Q  |       |    |        |    |       |    |
| 65Sp | EIA | A |     | 8BQ11  | FJ   | Cmp | X  |        |    |       |    |        |    |       |    |
| 65Sp | EIA | A |     | 8BU11  | CCJ  | Cmp | X  |        |    |       |    |        |    |       |    |
| 60Fe | EIA | E |     | 8CW5   | L    | No  | X  | XL86   | Q  |       |    |        |    |       |    |
| 5x   |     | E |     | 8DX8   | C-S  | No  | X  | XCL84  | Q  |       |    |        |    |       |    |
| 65My | EIA | E |     | 8GJ7   | C-J  | No  | P  | PCF801 | Q  |       |    |        |    |       |    |
| 61Ap | EIA | E |     | 8HG8   | C-J  | No  | P  | PCF86  | Q  |       |    |        |    |       |    |
| 4x   |     | S | SER | 8J9SGM | Cl   | Oc  | P  | 6J9SGM | H  |       |    |        |    |       |    |

| DAT1 | QU1 | L | HSL | TYPE    | SYST | SOC | HZ | PLL    | PA | OGTY  | OA | VRG   | VA | NFG   | NA |
|------|-----|---|-----|---------|------|-----|----|--------|----|-------|----|-------|----|-------|----|
| 4x   |     | S | SER | 8M9SGM  | CI   | Oc  | P  | 8J9SGM | N  |       |    |       |    |       |    |
| 30   | ERB | D | TKD | 8 K 290 | D    | Eu4 | O  |        |    |       |    |       |    |       |    |
| 30   | ERB | D | TKD | 8 K 300 | D    | Eu4 | O  |        |    |       |    |       |    |       |    |
| 29<  | ERB | D | LWO | 8NG     | Z    | Eu4 | Jd | R 1503 | K  |       |    |       |    |       |    |
| 66My | EIA | A |     | 8U9     | C-J  | Dec |    | PCF200 | Q  |       |    |       |    |       |    |
| 56Sp | EIA | E |     | 9A8     | C-J  | No  | P  | PCF80  | Q  |       |    |       |    |       |    |
| 5x   |     | E | GEM | 9AB4    | C    | No  | U  | UC92   | Q  |       |    |       |    |       |    |
| 55Au | EIA | E |     | 9AK8    | A-BC | No  | P  | PABC80 | Q  |       |    |       |    |       |    |
| 55Au | EIA | E |     | 9AQ8    | C-C  | No  | P  | PCC85  | Q  |       |    |       |    |       |    |
| 52Jn | EIA | F | GEM | 9BM5    | L    | Mi7 | P  | 6BM5   | H  | 6BM5  | H  |       |    |       |    |
| 51Mr | EIA | A |     | 9BW6    | S    | No  | P  | 6BW6   | H  | 6BW6  | H  |       |    |       |    |
| 5x   |     | A |     | 9C8     | C-J  | No  | P  | PCF80  | Q  |       |    |       |    |       |    |
| 62De | EIA | E |     | 9EA8    | C-J  | No  | P  | PCF82  | Q  |       |    |       |    |       |    |
| 6x   |     | E | GEM | 9ED4    | d    | Mno | P  | PD500  | Q  |       |    |       |    |       |    |
| 5x   |     | E | LOR | 9FG6    | MC   | No  | H  | HM84   | Q  |       |    |       |    |       |    |
| 62Jn | EIA | A |     | 9GV8    | C-S  | No  | X  | XCL85  | Q  |       |    |       |    |       |    |
| 69Au | EIA | E |     | 9JW8    | C-J  | No  | P  | PCF802 | Q  |       |    |       |    |       |    |
| 6x   |     | A | MUL | 9MN8    | C-CC | Cmp |    |        |    |       |    |       |    |       |    |
| 5x   |     | A |     | 9Q8     | C-J  | No  | P  | PCF82  | Q  |       |    |       |    |       |    |
| 6x   |     | A |     | 9V9     | C-1% | Dec | P  | PCH200 | Q  |       |    |       |    |       |    |
| 70De | EIA | A |     | 10JA5   | S    | Cmp | X  |        |    |       |    |       |    |       |    |
| 29<  | ERB | D | LWO | 10NG    | Y    | Eu3 | O  | RGN354 | K  |       |    |       |    |       |    |
| 3x   |     | F | GEM | 11A6    | DD + | U7m | Q  | 6A6    | H  | 6A6   | H  |       | [  | 11N7  | 7  |
| 3x   |     | F | GEM | 11A8    | K    | Oc  | Q  | 6A8    | H  | 6A8   | H  |       | [  | 11E8  | Y  |
| 3x   |     | F | GEM | 11C5    | C    | Oc  | Q  | 6C5    | H  | 6C5   | H  |       |    | %     |    |
| 3x   |     | F | GEM | 11E8    | G    | Oc  | Q  | 6E8    | H  | 6E8   | H  | 11A8  | Y  |       | ]  |
| 3x   |     | F | GEM | 11F6    | L    | Oc  | Q  | 6F6    | H  | 6F6   | H  |       |    | %     | %  |
| 3x   |     | F | GEM | 11J7    | J    | Oc  | Q  | 6J7    | H  | 6J7   | H  |       |    | %     | %  |
| 3x   |     | F | GEM | 11K7    | F    | Oc  | Q  | 6K7    | H  | 6K7   | H  |       |    | %     | %  |
| 3x   |     | F | GEM | 11L6    | S    | Oc  | Q  | 6L6    | H  | 6L6   | H  |       |    | %     | %  |
| 3x   |     | F | GEM | 11N7    | DD + | Oc  | Q  | 6N7    | H  | 6N7   | H  | 11A6  | S  |       | ]  |
| 3x   |     | F | GEM | 11X5    | Z    | Oc  | Q  | 6X5    | H  | 6X5   | H  |       |    | %     | %  |
| 33Ja | %   | A | RAY | 12A5    | L    | U7s | FP |        |    |       |    |       |    | 12A6  | U  |
| 39Oc | EIA | A | RCA | 12A6    | S    | Oc  | FH |        |    | 6V6   | Z  | 12A5  | U  |       |    |
| 33De | 70Y | A |     | 12A7    | LY   | U7s | PF |        |    |       |    |       |    | 25A7  | U  |
| 39Ja | EIA | A |     | 12A8    | K    | Oc  | HF | 6A8    | H  | 6A8   | H  |       |    | 12SA7 | Y  |
| 55Jl | EIA | A |     | 12AB5   | S    | No  | F  |        |    | 6V6   | R  |       |    |       |    |
| 55Oc | EIA | E | PLP | 12AC5   | F    | Ri  | U  | UF41   | Q  |       |    |       |    |       |    |
| 56Mr | EIA | A |     | 12AC6   | F    | Mi7 | FH |        |    |       |    |       |    |       |    |
| 56Mr | EIA | A |     | 12AD6   | N b  | Mi7 | FH |        |    |       |    |       |    |       |    |
| 55Oc | EIA | A |     | 12AD7   | C-C  | No  | EL | ECC83  | Q  |       |    |       |    |       |    |
| 56Mr | EIA | A |     | 12AE6   | BC   | Mi7 | FH |        |    |       |    |       |    |       |    |
| 58Oc | EIA | A |     | 12AE7   | C-C  | No  | FL |        |    |       |    |       |    |       |    |
| 6x   |     | A | SYL | 12AE10  | J-S  | Cmp | E  |        |    |       |    |       |    |       |    |
| 5x   |     | A |     | 12AF3   | Y    |     |    |        |    |       |    |       |    |       |    |
| 56Fe | EIA | A |     | 12AF6   | J    | Mi7 | FH |        |    |       |    |       |    |       |    |
| 56Fe | EIA | A |     | 12AG6   | N b  | Mi7 | FH |        |    |       |    |       |    |       |    |
| 41Fe | EIA | A |     | 12AH7   | C-C  | Oc  | HF | 6AH7   | H  | 6AH7  | H  |       |    |       |    |
| 56Oc | EIA | A |     | 12AJ6   | BC   | Mi7 | FH |        |    |       |    |       |    |       |    |
| 5x   |     | E | GEM | 12AJ8   | CI   | No  | HF | HCH81  | Q  | ECH81 | H  | 12BE6 | Y  |       | ]  |
| 47Jn | EIA | A |     | 12AL5   | AA   | Mi7 | HF | HAA91  | Q  | 6AL5  | H  |       |    |       |    |
| 56Oc | EIA | A |     | 12AL8   | CE   | No  | F  |        |    |       |    |       |    |       |    |
| 53My | EIA | A |     | 12AQ5   | S    | Mi7 | F  | FL90   | !  | 6AQ5  | H  | 12V6  | S  |       |    |
| 59Jl | EIA | A |     | 12AS5   | S    | Mi7 |    |        |    | 6AS5  |    |       |    |       |    |
| 45Oc | EIA | A |     | 12AT6   | BC   | Mi7 | HF | HBC90  | Q  | 6AT6  | H  | 12SQ7 | T  | 12AV6 | C  |
| 47My | EIA | A |     | 12AT7   | C-C  | No  | HF | ECC81  | Q  |       |    |       |    |       |    |
| 46De | EIA | A |     | 12AU6   | J    | Mi7 | HF | HF94   | Q  | 6AU6  | H  |       |    |       |    |
| 46Oc | EIA | A |     | 12AU7   | C-C  | No  | HF | ECC82  | Q  |       |    |       |    |       |    |
| 61Fe | EIA | A |     | 12AU8   | C-J  | No  | PF | 6AU8   | H  | 6AU8  | H  |       |    |       |    |
| 54De | EIA | A |     | 12AV5   | S    | Oc  |    | 6BQ6   | W  |       |    |       |    |       |    |
| 47De | EIA | A |     | 12AV6   | BC   | Mi7 | HF | HBC91  | Q  | 6AV6  | H  | 12AT6 | H  |       | ]  |
| 50Fe | EIA | A |     | 12AV7   | C-C  | No  | EL |        |    |       |    |       |    |       |    |
| 47Fe | EIA | A |     | 12AW6   | J    | Mi7 | HF | 6AG5   | R  | 6AG5  | R  |       |    |       |    |

| DAT1 | QU1 | L | HSL | TYPE     | SYST | SOC | HZ | PLL   | PA | OGTY  | OA | VRG   | VA | NFG    | NA |
|------|-----|---|-----|----------|------|-----|----|-------|----|-------|----|-------|----|--------|----|
| 51Ap | EIA | A |     | 12AX4    | Y    | Oc  | XF | 6AX4  | H  | 6AX4  | H  |       |    |        |    |
| 47Sp | EIA | A |     | 12AX7    | C-C  | No  | HF | ECC83 | Q  |       |    | 6SL7  | R  | ECC808 | N  |
| 48De | EIA | A |     | 12AY7    | C-C  | No  | HF |       |    |       |    | 6C8   | N  |        |    |
| 51Mr | EIA | A |     | 12AZ7    | C-C  | No  | EL |       |    |       |    |       |    |        |    |
| 39Jn | BPD | A | GEL | 12B7     | F    | Lo8 | HF | 14H7  | F  | 12SK7 | S  |       |    |        |    |
| 39Fe | EIA | A |     | 12B8     | CF   | Oc  | PF |       |    | 6F7   | U  |       |    |        |    |
| 45Oc | EIA | A |     | 12BA6    | F    | Mi7 | HF | HF93  | Q  | 6BA6  | H  |       |    |        |    |
| 48Jn | EIA | A |     | 12BA7    | N    | No  | HF | 6BA7  | H  | 6BA7  | H  |       |    |        |    |
| 46My | EIA | A |     | 12BD6    | F    | Mi7 | HF |       |    | 6BD6  | H  |       |    |        |    |
| 45Oc | EIA | A |     | 12BE6    | N    | Mi7 | HF | HK90  | Q  | 6BE6  | H  | 12SA7 | S  | 12BA7  | T  |
| 5x   |     | E | GEM | 12BE7    | Q    | No  | U  | UQ80  | Q  |       |    |       |    |        |    |
| 46My | EIA | A |     | 12BF6    | BC   | Mi7 | H  | 12BU6 | K  | 6BF6  | H  |       |    |        |    |
| 50My | EIA | A |     | 12BH7    | C-C  | No  | P  |       |    |       |    |       |    |        |    |
| 50Ja | EIA | A |     | 12BK6    | BC   | Mi7 | H  | HBC90 | Q  | 6BK6  | H  |       |    |        |    |
| 49Sp | EIA | A |     | 12BN6    | Q    | Mi7 | HF | 6BN6  | H  | 6BN6  | H  |       |    |        |    |
| 54Jn | EIA | A |     | 12BQ6    | S    | Oc  | XF |       |    | 6BQ6  | H  |       |    |        |    |
| 50Ja | EIA | A |     | 12BT6    | BC   | Mi7 | HF | 6BT6  | H  | 6BT6  | H  |       |    |        |    |
| 50Ja | EIA | A |     | 12BU6    | BC   | Mi7 | HF | 12BF6 | K  | 6BU6  | H  |       |    |        |    |
| 55Jl | EIA | A |     | 12BW4    | Z    | No  |    | 7Z4   | S  | 6BW4  | H  |       |    |        |    |
| 60Fe | EIA | E |     | 12BX6    | J    | No  | HF | EF80  | Q  |       |    |       |    |        |    |
| 51Jn | EIA | A |     | 12BY7    | J    | No  | PF | EL180 | Q  |       |    |       |    |        |    |
| 51My | EIA | A |     | 12BZ7    | C-C  | No  | HF |       |    |       |    |       |    |        |    |
| 38De | BPD | A |     | 12C8     | BF   | Oc  | HF |       |    | 6B8   | H  | 6B8   | H  |        |    |
| 53Oc | EIA | A |     | 12CM6    | S    | No  | F  | 6CM6  | H  | 6CM6  | H  |       |    |        |    |
| 56Jl | EIA | A |     | 12CN5    | F    | Mi7 | FL |       |    |       |    |       |    |        |    |
| 54Jl | EIA | A |     | 12CS6    | I%   | Mi7 | H  |       |    | 6CS6  | H  |       |    |        |    |
| 56De | EIA | A |     | 12CX6    | F    | Mi7 | FH |       |    |       |    |       |    |        |    |
| 56No | EIA | A |     | 12CY6    | F    | Mi7 | FC |       |    |       |    |       |    |        |    |
| 5x   |     | A |     | 12D8     | Cl   | No  | H  | HCH81 | Q  |       |    |       |    |        |    |
| 5x   |     | E | GEM | 12DA6    | F    | No  | U  | UF89  | Q  |       |    |       |    |        |    |
| 57Jl | EIA | A |     | 12DE8    | A-F  | No  | FC |       |    |       |    |       |    |        |    |
| 57Fe | EIA | A |     | 12DF7    | C-C  | No  | HF | ECC83 | Q  |       |    |       |    |        |    |
| 56No | EIA | A |     | 12DK5    | F    | No  | FP |       |    |       |    |       |    |        |    |
| 57Jl | EIA | A |     | 12DK7    | BE   | No  | F  |       |    |       |    |       |    |        |    |
| 57Au | EIA | A |     | 12DL8    | BE   | No  | F  |       |    |       |    |       |    |        |    |
| 59My | EIA | A |     | 12DM7    | C-C  | No  | HF | ECC83 | Q  |       |    |       |    |        |    |
| 58Jl | EIA | A |     | 12DS7    | BE   | No  | F  |       |    |       |    |       |    |        |    |
| 58No | EIA | A |     | 12DT7    | C-C  | No  | HF | ECC83 | Q  |       |    |       |    |        |    |
| 57Au | EIA | A |     | 12DT8    | C-C  | No  | HF | ECC81 | W  |       |    |       |    |        |    |
| 58Jl | EIA | A |     | 12DU7    | BE   | No  | F  |       |    |       |    |       |    |        |    |
| 58Jl | EIA | A |     | 12DV7    | B-C  | No  | F  |       |    |       |    |       |    |        |    |
| 57Sp | EIA | A |     | 12DV8    | BE   | No  | F  |       |    |       |    |       |    |        |    |
| 58No | EIA | A |     | 12DW8    | ACC  | No  | FH |       |    |       |    |       |    |        |    |
| 58Fe | EIA | A |     | 12DY8    | C-E  | No  | F  |       |    |       |    |       |    |        |    |
| 57Sp | EIA | A |     | 12DZ6    | F    | Mi7 | F  |       |    |       |    |       |    |        |    |
| 39Jl | EIA | A |     | 12E5     | C    | Oc  | HF | 6P5   | H  | 76    | R  |       |    |        |    |
| 49   | HLR | F | VIS | 12E8-MGT | G    | Oc  | HF | 6E8   | H  | 6E8   | H  | 6E8   | H  | UCH42  | N  |
| 57Sp | EIA | A |     | 12EA6    | F    | Mi7 | F  |       |    |       |    |       |    |        |    |
| 57No | EIA | A |     | 12EC8    | ?    | ?   | ?  |       |    |       |    |       |    |        |    |
| 57Au | EIA | A |     | 12EG6    | N b  | Mi7 | FH |       |    |       |    |       |    |        |    |
| 57No | EIA | A |     | 12EK6    | J    | Mi7 | FH |       |    |       |    |       |    |        |    |
| 57Mr | EIA | A |     | 12EL6    | BC   | Mi7 | FH | 12AJ6 | V  |       |    |       |    |        |    |
| 57Jl | EIA | A |     | 12EM6    | AE   | No  | F  |       |    |       |    |       |    |        |    |
| 58Ap | EIA | A |     | 12EZ6    | F    | Mi7 | F  |       |    |       |    |       |    |        |    |
| 39Ja | EIA | A |     | 12F5     | C    | Oc  | HF | 6F5   | H  | 6F5   | H  |       |    |        |    |
| 56Mr | EIA | A |     | 12F8     | BF   | No  | FH |       |    |       |    |       |    |        |    |
| 58Ap | EIA | A |     | 12FA6    | N b  | Mi7 | FH |       |    |       |    |       |    |        |    |
| 5x   |     | E | GEM | 12FG6    | MC   | No  | U  | UM84  | Q  |       |    |       |    |        |    |
| 58Jn | EIA | A |     | 12FK6    | BC   | Mi7 | FH |       |    |       |    |       |    |        |    |
| 58My | EIA | A |     | 12FM6    | BC   | Mi7 | FH |       |    |       |    |       |    |        |    |
| 59Jn | EIA | A |     | 12FR8    | ACF  | No  | F  |       |    |       |    |       |    |        |    |
| 58Oc | EIA | A |     | 12FT6    | BC   | Mi7 | FH |       |    |       |    |       |    |        |    |
| 59Jn | EIA | A |     | 12FX8    | CN   | No  | F  |       |    |       |    |       |    |        |    |



| DAT1 | QU1 | L | HSL | TYPE     | SYST | SOC | HZ | PLL    | PA | OGTY  | OA | VRG   | VA | NFG   | NA |
|------|-----|---|-----|----------|------|-----|----|--------|----|-------|----|-------|----|-------|----|
| 53Mr | EIA | A |     | 12G4     | C    | Mi7 | HF |        |    | 6J5   | R  | 12J5  | S  |       |    |
| 4x   |     | A |     | 12G7     | BC   | Oc  | HF | 12Q7   | K  | 6Q7   | H  |       |    |       |    |
| 56Fe | EIA | A |     | 12G8     | C C  | No  | F  |        |    |       |    |       |    |       |    |
| 59No | EIA | A |     | 12GA6    | N    | Mi7 | FH |        |    |       |    |       |    |       |    |
| 60Sp | EIA | A |     | 12GW6    | S    | Oc  |    | 6GW6   | H  |       |    |       |    |       |    |
| 53No | EIA | A |     | 12H4     | C    | Mi7 | HF |        |    | 6J5   | R  |       |    |       |    |
| 41My | EIA | A | RCA | 12H6     | AA   | Oc  | HF | 6H6    | H  | 6H6   | H  |       |    | 12AL5 | S  |
| 39Mr | EIA | A |     | 12J5     | C    | Oc  | HF | 6J5    | H  | 6J5   | H  |       |    | 12G4  | S  |
| 39Ja | EIA | A |     | 12J7     | J    | Oc  | HF | 6J7    | H  | 6J7   | H  |       |    | 12SJ7 | X  |
| 56Jl | EIA | A |     | 12J8     | B-E  | No  | F  |        |    |       |    |       |    |       |    |
| 72Ap | EIA | A |     | 12JF5    | ?    | ?   | ?  |        |    |       |    |       |    |       |    |
| 55De | EIA | A |     | 12K5     | E b  | Mi7 | F  |        |    |       |    |       |    |       |    |
| 39Ja | EIA | A |     | 12K7     | F    | Oc  | HF | 6K7    | H  | 6K7   | H  |       |    | 12SK7 | X  |
| 39Sp | EIA | A | RCA | 12K8     | U    | Oc  | HF | 6K8    | H  | 6K8   | H  | 12A8  | Y  |       |    |
| 54My | EIA | A |     | 12L6     | S    | Oc  | XF | 25L6   | H  | 25L6  | H  |       |    |       |    |
| 43Au | EIA | A |     | 12L8     | LL   | Oc  | HF | 1644   | A  | 6G6   | E  |       |    |       |    |
| 49   | HLR | F | VIS | 12M7-MGT | F    | Oc  | HF | 6M7    | H  | 6M7   | H  | 6M7   | H  | UF41  | N  |
| 29<  | ERB | D | LWO | 12NG     | Z    | Eu4 | O  | RGN504 | K  |       |    |       |    |       |    |
| 39Ja | EIA | A |     | 12Q7     | BC   | Oc  | HF | 6Q7    | H  | 6Q7   | H  |       |    | 12SQ7 | X  |
| 55Oc | EIA | E | PLP | 12S7     | AF   | Ri  | U  | UAF42  | Q  |       |    |       |    |       |    |
| 47Ja | EIA | A |     | 12S8     | A-BC | Oc  | HF | 6S8    | H  | 6S8   | H  |       |    | 19T8  | U  |
| 39Fe | EIA | A | RCA | 12SA7    | N    | Oc  | HF | 6SA7   | H  | 6SA7  | H  | 12A8  | Y  | 12BE6 | S  |
| 39Fe | EIA | A | RCA | 12SC7    | CC   | Oc  | HF | 6SC7   | H  | 6SC7  | H  |       |    | 12SL7 | X  |
| 39Sp | EIA | A | RCA | 12SF5    | C    | Oc  | HF | 6SF5   | H  | 6SF5  | H  | 12F5  | V  |       |    |
| 41Mr | EIA | A | RCA | 12SF7    | AF   | Oc  | HF | 6SF7   | H  | 6SF7  | H  | 12C8  | N  |       |    |
| 41Fe | EIA | A | RCA | 12SG7    | F    | Oc  | HF | 6SG7   | H  | 6SG7  | H  |       |    |       |    |
| 41Au | EIA | A | RCA | 12SH7    | J    | Oc  | HF | 6SH7   | H  | 6SH7  | H  |       |    |       |    |
| 39Ja | BPD | A | RCA | 12SJ7    | J    | Oc  | HF | 6SJ7   | H  | 6SJ7  | H  | 12J7  | X  |       |    |
| 39Fe | EIA | A | RCA | 12SK7    | F    | Oc  | HF | 6SK7   | H  | 6SK7  | H  | 12K7  | X  | 12BA6 | T  |
| 41Jn | EIA | A |     | 12SL7    | C-C  | Oc  | HF | 6SL7   | H  | 6SL7  | H  | 12SC7 | X  | 12AX7 | T  |
| 41Ap | EIA | A |     | 12SN7    | C-C  | Oc  | PF | 6SN7   | H  | 6SN7  | H  |       |    |       |    |
| 39Fe | EIA | A | RCA | 12SQ7    | BC   | Oc  | HF | 6SQ7   | H  | 6SQ7  | H  | 12Q7  | X  | 12AT6 | T  |
| 39Oc | EIA | A |     | 12SR7    | BC   | Oc  | HF | 6SR7   | H  | 6SR7  | H  |       |    | 12BF6 | S  |
| 46Jn | EIA | A |     | 12SW7    | BC   | Oc  | HF | 12SR7  | K  | 12SR7 | K  |       |    | 12BF6 | S  |
| 46Jn | EIA | A |     | 12SX7    | C-C  | Oc  | PF | 12SN7  | K  | 12SN7 | K  |       |    |       |    |
| 45Sp | EIA | A |     | 12SY7    | N    | Oc  | HF | 12SA7  | K  | 12SA7 | K  |       |    | 12BE6 | S  |
| 3x   |     | A |     | 12U5     | MC   | Oc  | HF |        |    | 6U5   | ?  |       |    |       |    |
| 56Mr | EIA | A |     | 12U7     | C-C  | No  | FH |        |    |       |    |       |    |       |    |
| 52Jl | EIA | A |     | 12V6     | S    | Oc  | F  | 6V6    | H  | 6V6   | H  |       |    | 12AQ5 | S  |
| 54My | EIA | A |     | 12W6     | S    | Oc  | XF | 6W6    | H  | 6W6   | H  |       |    |       |    |
| 52Jl | EIA | A |     | 12X4     | Z    | Mi7 | PF | 6X4    | H  | 6X4   | H  |       |    |       |    |
| 44Ap | EIA | G | MOV | 12Y4     | Z    | Eu5 | HF | 6ZY5   | R  | 6ZY5  | R  |       |    |       |    |
| 33Fe | 70Y | A | RCA | 12Z3     | Y    | U4  | PF |        |    |       |    |       |    |       |    |
| 3x   |     | A |     | 12Z5     | Z    | U6  | EF | 6Z5    | K  |       |    |       |    | 6X5   | N  |
| 2x   |     | A |     | 13       | Z    | U4  | G  | 80     | K  | 80    | K  |       |    | 5Y3   | S  |
| 36   | %   | D | LWO | 13H1     | J    | Au8 | CF | CF7    | K  |       |    |       |    |       |    |
| 36   | %   | D | LWO | 13H2     | F    | Au8 | CF | CF3    | K  |       |    |       |    |       |    |
| 36   | %   | D | LWO | 13H3     | H    | Au8 | CF | CH1    | K  |       |    |       |    |       |    |
| 40Oc | EIA | A | SYL | 14A4     | C    | Lo8 | HF | 12J5   | S  | 6A4   | H  |       |    |       |    |
| 40Oc | EIA | A | SYL | 14A5     | S    | Lo8 | HF | 12A6   | S  | 12A6  | S  |       |    |       |    |
| 40Oc | EIA | A | SYL | 14A7     | F    | Lo8 | HF | 12B7   | F  | 12SK7 | S  |       |    |       |    |
| 42Jl | EIA | A | SYL | 14AF7    | C-C  | Lo8 | HF | 7AF7   | H  | 7AF7  | H  |       |    |       |    |
| 40Mr | EIA | A | SYL | 14B6     | BC   | Lo8 | HF | 7B6    | H  | 12SQ7 | S  |       |    |       |    |
| 40Oc | EIA | A | SYL | 14B8     | K    | Lo8 | HF | 7B8    | H  | 12A8  | S  |       |    |       |    |
| 65Mr | EIA | A |     | 14BL11   | ?    | Cmp |    |        |    |       |    |       |    |       |    |
| 65Ap | EIA | A |     | 14BR11   | ?    | Cmp |    |        |    |       |    |       |    |       |    |
| 40Oc | EIA | A | SYL | 14C5     | S    | Lo8 | F  | 12V6   | S  | 6V6   | R  |       |    |       |    |
| 40Oc | EIA | A | SYL | 14C7     | J    | Lo8 | HF |        |    | 7C7   |    |       |    |       |    |
| 40No | EIA | A | SYL | 14E6     | BC   | Lo8 | HF | 12SR7  | S  | 7E6   | H  |       |    |       |    |
| 41Ap | EIA | A | SYL | 14E7     | BF   | Lo8 | HF | 7E7    | H  | 12C8  | T  |       |    |       |    |
| 40Oc | EIA | A | SYL | 14F7     | C-C  | Lo8 | HF | 12SL7  | S  | 7F7   | H  |       |    |       |    |
| 46Jl | EIA | A | SYL | 14F8     | C-C  | Lo8 | HF |        |    | 7F8   | H  |       |    |       |    |
| 57Ap | EIA | E | PLP | 14G6     | BC   | Ri  | U  | UBC81  | Q  | UBC41 | S  | UBC41 | S  |       | J  |

| DAT1 | QU1 | L | HSL | TYPE   | SYST | SOC | HZ | PLL    | PA | OGTY  | OA | VRG  | VA | NFG  | NA |
|------|-----|---|-----|--------|------|-----|----|--------|----|-------|----|------|----|------|----|
| 6x   |     | E | PLP | 14GB5  | S    | Dec | X  | XL500  | Q  |       |    |      |    |      |    |
| 6x   |     | E | GEM | 14GW8  | C-S  | No  | P  | PCL86  | Q  |       |    |      |    |      |    |
| 40Au | EIA | A | SYL | 14H7   | F    | Lo8 | HF | 12SG7  | S  | 7H7   | H  |      |    |      |    |
| 39Au | EIA | A | SYL | 14J7   | U    | Lo8 | HF | 7J7    | H  | 6J8   | R  |      |    |      |    |
| 55Oc | EIA | E | PLP | 14K7   | G    | Ri  | U  | UCH42  | Q  | UCH41 | C  |      |    |      |    |
| 55Oc | EIA | E | PLP | 14L7   | BC   | Ri  | U  | UBC41  | Q  | 6Q7   | R  |      |    |      |    |
| 40Oc | EIA | A | SYL | 14N7   | C-C  | Lo8 | PF | 12SN7  | S  | 7N7   | H  |      |    |      |    |
| x    |     | D | LWO | 14NG   | Z    | Eu4 | O  | R_1064 | K  |       |    |      |    |      |    |
| 40Mr | EIA | A | SYL | 14Q7   | N    | Lo8 | HF | 12SA7  | S  | 7Q7   | H  |      |    |      |    |
| 41Mr | EIA | A | SYL | 14R7   | BF   | Lo8 | HF | 6H8    | Q  | 7R7   | H  |      |    |      |    |
| 41No | EIA | A | SYL | 14S7   | U    | Lo8 | HF |        |    | 7S7   | H  |      |    |      |    |
| 3x   |     | A | SYL | 14V7   | J    | Lo8 | HF |        |    | 7V7   | H  |      |    |      |    |
| 41No | EIA | A | SYL | 14W7   | J    | Lo8 | HF |        |    | 7W7   | H  |      |    |      |    |
| 47Ap | EIA | A | SYL | 14X7   | A-AC | Lo8 | HF |        |    | 7X7   | H  |      |    |      |    |
| 40Oc | EIA | A | SYL | 14Y4   | Z    | Lo8 | PF | 12X5   | S  | 7Y4   | H  |      |    |      |    |
| 4x   |     | A | SYL | 14Z3   | Y    | U4  | PF | 12Z3   | Q  |       |    |      |    |      |    |
| 33Mr | 70Y | A |     | 15     | J    | U5  | K  |        |    |       |    | 32   | Y  | 1B4  | U  |
| 51Fe | EIA | E |     | 15A6   | L    | No  | P  | PL83   | Q  |       |    |      |    |      |    |
| 5x   |     | E | GEM | 15BD7A | BC   | No  | U  | UBC81  | Q  | UBC41 | S  |      |    |      | J  |
| 59Au | EIA | E | GEM | 15CW5  | L    | No  | P  | PL84   | Q  |       |    |      |    |      |    |
| 59Au | EIA | E | GEM | 15DQ8  | C-L  | No  | P  | PCL84  | Q  |       |    |      |    |      |    |
| 51Oc | EIA | E |     | 16A5   | L    | No  | P  | PL82   | Q  | UL41  | R  |      |    |      |    |
| 59Au | EIA | E | GEM | 16A8   | C-S  | No  | P  | PCL82  | Q  |       |    |      |    |      |    |
| 60Ja | EIA | E |     | 16AQ3  | Y    | No  | P  | XY88   | Q  | PY88  | H  |      |    |      |    |
| 61Oc | EIA | E |     | 16GK6  | L    | No  | P  | EL84   | Q  | EL84  | W  |      |    |      |    |
| 64No | EIA | A |     | 16KA6  | ?    | ?   | ?  |        |    |       |    |      |    |      |    |
| 30   | ERB | D | LWO | 16NG   | Y    | Eu3 | K  |        |    |       |    |      |    |      |    |
| 66My | EIA | E |     | 16Y9   | J-L  | Dec | P  | PFL200 | Q  |       |    |      |    |      |    |
| 57Mr | EIA | E | GEM | 17C8   | BF   | No  | U  | UBF80  | Q  |       |    |      |    |      |    |
| 6x   |     | A |     | 17DQ6  | S    |     |    | 6DQ6   |    |       |    |      |    |      |    |
| 59Au | EIA | E |     | 17EW8  | C-C  | No  | H  | HCC85  | Q  | UCC85 | H  |      |    |      |    |
| 6x   |     | E | GEM | 17KW6  | S    | Mno | P  | PL508  | Q  |       |    |      |    |      |    |
| 56Au | EIA | A |     | 17L6   | S    | Oc  | L  | 25L6   | H  |       |    |      |    |      |    |
| 50   |     | E | GEM | 17N8   | BF   | No  | U  | UBF80  | Q  |       |    |      |    |      |    |
| 52Jn | EIA | A |     | 17Z3   | Y    | No  | P  | PY81   | Q  |       |    |      |    |      |    |
| 5x   |     | E |     | 17Z3A  | Y    | No  | P  | PY83   | Q  |       |    |      |    |      |    |
| 3x   |     | A | SYL | 18     | L    | U6  | P  |        |    | 42    | H  |      |    | 43   | Z  |
| 65Sp | EIA | E |     | 18GV8  | C-S  | No  | P  | PCL85  | Q  |       |    |      |    |      |    |
| 33Ja | 70Y | A |     | 19     | DD + | U6  | K  |        |    |       |    |      |    | 1J6  | S  |
| 5x   |     | E | GEM | 19AJ8  | CI   | No  | U  | UCH81  | Q  | UCH81 | Q  |      |    |      |    |
| 50Sp | EIA | A |     | 19AQ5  | S    | Mi7 | H  | HL90   | Q  | 6AQ5  | H  |      |    |      |    |
| 48No | EIA | A |     | 19BG6  | S    | Oc  |    |        |    | 6BG6  | H  |      |    |      |    |
| 5x   |     | E | GEM | 19BR5  | MC   | No  | U  | UM80   | Q  |       |    |      |    |      |    |
| 5x   |     | E | GEM | 19BX6  | J    | No  | U  | UF80   | Q  |       |    |      |    |      |    |
| 5x   |     | E | GEM | 19BY7  | F    | No  | U  | UF85   | Q  |       |    |      |    |      |    |
| 56De | EIA | A |     | 19D8   | CI   | No  | U  | UCH81  | Q  |       |    |      |    |      |    |
| 55   |     | A |     | 19DC8  | BF   | No  | U  | UBF89  | Q  |       |    |      |    |      |    |
| 59Jn | EIA | A |     | 19EA8  | C-J  | No  | H  |        |    |       |    |      |    |      |    |
| 55   |     | E | GEM | 19FL8  | BF   | No  | U  | UBF89  | Q  |       |    |      |    |      |    |
| 48Sp | EIA | A |     | 19J6   | CC   | Mi7 | H  | 6J6    | H  | 6J6   | H  |      |    |      |    |
| 47My | EIA | A |     | 19T8   | A-BC | No  | H  | HABC80 | Q  | 6T8   | H  |      |    |      |    |
| 5x   |     | A |     | 19U3   | Y    | No  | P  | PY80   | Q  |       |    |      |    |      |    |
| 50Sp | EIA | A |     | 19V8   | A-BC | No  | H  | 6V8    | H  | 6V8   | H  |      |    |      |    |
| 5x   |     | A |     | 19W3   | Y    | No  | P  | PY80   | Q  |       |    |      |    |      |    |
| 51Oc | EIA | E |     | 19X3   | Y    | No  | P  | PY80   | Q  |       |    |      |    |      |    |
| 51Oc | EIA | E |     | 19Y3   | Y    | No  | P  | PY82   | Q  |       |    |      |    |      |    |
| 37Ap | HLR | H | TRM | 21TH8  | G    | Oc  | C  | TX21   | #  | 6TH8  | H  | 6A8  | Y  | 12E8 | N  |
| 6x   |     | A |     | 22HX5  | ?    | ?   | ?  |        |    |       |    |      |    |      |    |
| 29My | 70Y | A |     | 24     | E    | U5  | J  | 35     | C  |       |    |      |    | 57   | U  |
| 33   | ERB | D | LWO | 24NG   | YY   | Hx6 | B  |        |    |       |    |      |    |      |    |
| 35De | EIA | A | RCA | 25A6   | L    | Oc  | P  |        |    | 43    | S  | 43   | S  | 25L6 | C  |
| 36Jn | BPD | A | HYT | 25A7   | LY   | Oc  | P  |        |    | 12A7  | U  | 12A7 | U  | 32L7 | Z  |
| 49De | EIA | A |     | 25AV5  | S    | Oc  | P  |        |    | 6AV5  | H  |      |    |      |    |

| DAT1 | QU1 | L | HSL | TYPE  | SYST | SOC | HZ | PLL    | PA | OGTY | OA | VRG  | VA | NFG  | NA |
|------|-----|---|-----|-------|------|-----|----|--------|----|------|----|------|----|------|----|
| 36Au | EIA | A |     | 25B5  | O    | U6  | P  |        |    | 6B5  | Z  |      |    | 25N6 | S  |
| 36Au | EIA | A |     | 25B6  | L    | Oc  | P  |        |    |      |    |      |    | 25C6 | C  |
| 39   | EIA | A |     | 25B8  | CF   | Oc  | H  |        |    | 6F7  | U  |      |    |      |    |
| 52Ja | EIA | A |     | 25BK5 | S    | No  | P  | 6BK5   | H  | 6BK5 | H  |      |    |      |    |
| 49My | EIA | A |     | 25BQ6 | S    | Oc  | P  | 25CU6  | K  | 6BQ6 | H  |      |    |      |    |
| 39My | EIA | A |     | 25C6  | S    | Oc  | P  |        |    |      |    | 25A6 | C  |      |    |
| 54De | EIA | A |     | 25CA5 | S    | Mi7 | P  | 6CA5   | H  | 6CA5 | H  |      |    |      |    |
| 51Ap | EIA | A |     | 25CD6 | S    | Oc  | X  | 6CD6   | H  | 6CD6 | H  |      |    |      |    |
| 39Mr | EIA | A |     | 25D8  | ACF  | Oc  | H  | 6M8    | H  |      |    |      |    |      |    |
| 55My | EIA | A |     | 25DN6 | S    | Oc  | X  |        |    |      |    |      |    |      |    |
| 55My | EIA | A |     | 25DQ6 | S    | Oc  | P  | 6DQ6   | H  |      |    |      |    |      |    |
| 56Jn | EIA | E |     | 25E5  | S    | Oc  | P  | PL36   | Q  | PL36 | Q  |      |    |      |    |
| 58Jn | EIA | A |     | 25EH5 | S    | Mi7 | E  | 6EH5   | H  |      |    |      |    |      |    |
| 36No | EIA | A | RCA | 25L6  | S    | Oc  | P  |        |    | 6L6  | Z  | 25A6 | C  | 50L6 | H  |
| 36Au | EIA | A |     | 25N6  | O    | Oc  | P  |        |    | 25B5 | S  | 25B5 | B  |      |    |
| 49Fe | EIA | A |     | 25W4  | Y    | Oc  | P  | 6W4    | H  |      |    |      |    |      |    |
| 52Oc | EIA | A |     | 25W6  | S    | Oc  | P  | 6W6    | H  |      |    |      |    |      |    |
| 39Mr | EIA | A |     | 25X6  | YY   | Oc  | H  |        |    |      |    |      |    |      |    |
| 39Jn | EIA | A |     | 25Y4  | Y    | Oc  | H  |        |    |      |    |      |    |      |    |
| 34No | EIA | A |     | 25Y5  | YY   | U6  | P  | 25Z6   | K  |      |    |      |    | 25L6 | S  |
| 34Oc | EIA | A |     | 25Y5G | YY   | U6  | P  |        |    |      |    |      |    |      |    |
| 41My | EIA | A |     | 25Z3  | Y    | U4  | P  |        |    |      |    |      |    |      |    |
| 38De | BPD | A | KRD | 25Z4  | Y    | Oc  | P  |        |    |      |    |      |    |      |    |
| 33Fe | 70Y | A | RCA | 25Z5  | YY   | U6  | P  | 25Y5   | K  |      |    |      |    | 25Z6 | S  |
| 35De | HER | A | RCA | 25Z6  | YY   | Oc  | P  |        |    | 25Z5 | S  | 25Z5 | S  | 50Z6 | H  |
| 5x   |     | E | GEM | 26AQ8 | C-C  | No  | U  | UCC85  | Q  |      |    |      |    |      |    |
| 50Ja | EIA | A |     | 26BK6 | BC   | Mi7 | S  | 6BK6   | H  | 6BK6 | H  |      |    |      |    |
| 46Jn | EIA | A |     | 26C6  | BC   | Mi7 | S  |        |    | ⊥ 16 |    |      |    |      |    |
| 46Jn | EIA | A |     | 26D6  | N    | Mi7 | S  |        |    | 6BE6 | ?  |      |    |      |    |
| 69No | EIA | A |     | 26LX6 | S    | Cmp | X  | 6LX6   | H  |      |    |      |    |      |    |
| 34   | DRM | D | LWO | 26NG  | YY   | Hx6 | B  |        |    |      |    |      |    |      |    |
| 27My | 70Y | A |     | 27    | C    | U5  | J  |        |    |      |    |      |    | 56   | Z  |
| 5x   |     | E | GEM | 27BL8 | C-J  | No  | U  | UCF80  | Q  |      |    |      |    |      |    |
| 52   |     | E |     | 28AK8 | A-BC | No  | U  | UABC80 | Q  |      |    |      |    |      |    |
| 42Oc | EIA | A |     | 28D7  | SS   | Lo8 | S  |        |    |      |    |      |    |      |    |
| 61Ap | EIA | E |     | 28GB5 | S    | Mno | P  | PL500  | Q  |      |    |      |    |      |    |
| 32Jl | 70Y | A | SYL | 29    | CC?  | U6? | J? |        |    |      |    |      |    |      |    |
| 30Jn | TCA | A | RCA | 30    | C    | U4  | K  |        |    |      |    |      |    |      |    |
| 56Jl | EIA | A |     | 30A5  | S    | Mi7 | H  | HL94   | Q  |      |    |      |    |      |    |
| 60Ja | EIA | E |     | 30AE3 | Y    | No  | P  | PY88   | Q  | PY88 | Q  |      |    |      |    |
| 35   | ERB | D | LWO | 30NG  | YY   | Au8 | C  | CY2    | K  |      |    |      |    |      |    |
| 30Jn | TCA | A | RCA | 31    | D    | U4  | K  |        |    |      |    |      |    |      |    |
| 55Oc | EIA | E | PLP | 31A3  | Y    | Ri  | U  | UY41   | Q  | UY41 | Q  |      |    |      |    |
| 30Jn | TCA | A | RCA | 32    | E    | U4  | K  |        |    |      |    |      |    |      |    |
| 39Fe | EIA | A |     | 32L7  | SY   | Oc  | P  |        |    | 25A7 | Z  | 25A7 | Z  | 70L7 | O  |
| 30Jn | TCA | A | RCA | 33    | L    | U5  | K  |        |    |      |    |      |    |      |    |
| 36   | ERB | D | LWO | 33E1  | L    | Au8 | C  | CL4    | K  |      |    |      |    |      |    |
| 63Mr | EIA | A |     | 33GT7 | S-Y  | Cmp | L  |        |    |      |    |      |    |      |    |
| 64My | EIA | A |     | 33JV6 | S    | Cmp | P  | 21JV6  | H  |      |    |      |    |      |    |
| 30Jl | 70Y | A | RCA | 34    | F    | U4  | K  |        |    |      |    |      |    |      |    |
| 31My | TCA | A | RCA | 35    | E°   | U5  | J  |        |    | 24   | C  |      |    |      |    |
| 34?  | 70Y | A |     | 35/51 | E°   | U5  | J  |        |    |      |    |      |    | 58   | U  |
| 38De | EIA | A | SYL | 35A5  | S    | Lo8 | H  | 35L6   | S  | 35L6 | S  | 35L6 | S  | 35C5 | S  |
| 46No | EIA | A |     | 35B5  | S    | Mi7 | H  |        |    |      |    |      |    |      |    |
| 48Fe | EIA | A |     | 35C5  | S    | Mi7 | H  |        |    | 35L6 | S  | 35L6 | S  |      |    |
| 56Jl | EIA | A |     | 35CD6 | S    | Oc  | L  | 6CD6   | H  |      |    |      |    |      |    |
| 59Au | EIA | A |     | 35EH5 | S    | Mi7 | H  | 6EH5   | H  |      |    |      |    |      |    |
| 61   | HLR | F |     | 35FN5 | S    | Oc  | P  | PL300  | #  | 6FN5 | H  |      |    |      |    |
| 39Ja | EIA | A |     | 35L6  | S    | Oc  | H  | 35A5   | S  |      |    | 25L6 | Z  | 35C5 | S  |
| 45Oc | EIA | A |     | 35W4  | Y    | Mi7 | Hs | HY90   | Q  |      |    |      |    |      |    |
| 3x   |     | I |     | 35X4  | Y    | Lo8 | H  |        |    | 35W4 | S  |      |    |      |    |
| 40No | EIA | A | SYL | 35Y4  | Y    | Lo8 | Hs | 35Z5   | S  |      |    |      |    |      |    |
| 38De | EIA | A | SYL | 35Z3  | Y    | Lo8 | H  |        |    |      |    |      |    |      |    |

| DAT1 | QU1    | L | HSL | TYPE   | SYST | SOC | HZ | PLL   | PA | OGTY | OA | VRG  | VA | NFG   | NA |
|------|--------|---|-----|--------|------|-----|----|-------|----|------|----|------|----|-------|----|
| 39Ja | EIA    | A |     | 35Z4   | Y    | Oc  | H  | 35Z3  | S  |      |    |      |    | 35W4  | T  |
| 39Fe | EIA    | A |     | 35Z5   | Y    | Oc  | H  | 35Y4  | S  | 35Z4 | H  |      |    | 35W4  | T  |
| 40Mr | EIA    | A |     | 35Z6   | YY   | Oc  | P  |       |    | 25Z6 | Z  | 25Z6 | <  |       |    |
| 31Ap | TCA    | A |     | 36     | E    | U5  | EP |       | 3  |      |    |      |    |       |    |
| 31Ap | TCA    | A |     | 37     | C    | U5  | EP |       |    |      |    |      |    |       |    |
| 31Ap | TCA    | A |     | 38     | L    | U5  | EP |       |    |      |    |      |    |       |    |
| 57Mr | EIA    | E | GEM | 38A3   | Y    | No  | U  | UY85  | Q  |      |    |      |    |       |    |
| 32Fe | TCA    | A | RCA | 39     | F    | U5  | EP | 44    | C  |      | #  | 39   | #  | 39/44 | #  |
| 35Jn | 70Y    | A | RCA | 39/44  | F    | U5  | EP | 44    | #  | 39   | #  | 39   | #  |       |    |
| 65Au | EIA    | E |     | 40KG6  | S    | Mno | P  | PL509 | Q  |      |    |      |    |       |    |
| 39De | EIA    | A |     | 40Z5   | Y    | Oc  | H  |       |    |      |    |      |    |       |    |
| 33   | HER    | A | RCA | 41     | L    | U6  | E  |       |    |      |    |      |    | 6K6   | S  |
| 32   | HER    | A | RCA | 42     | L    | U6  | E  | 2A5   | H  | 47   | R  | 47   | R  | 6F6   | S  |
| 6x   |        | E | GEM | 42EC4  | Y    | Dec | P  | PY500 | Q  |      |    |      |    |       |    |
| 33   | HER    | A | RCA | 43     | L    | U6  | P  |       |    |      |    |      |    | 25A6  | S  |
| 32Ap | 70Y    | A | RCA | 44     | F    | U5  | EP | 39    | C  |      |    | 39   | #  | 39/44 | #  |
| 29Mr | TCA    | A |     | 45     | D    | U4  | Jd |       |    |      |    |      |    | 2A3   | >  |
| 55Oc | EIA    | E | PLP | 45A5   | L    | Ri  | U  | UL41  | Q  |      |    |      |    |       |    |
| 57Ja | EIA    | E | GEM | 45B5   | L    | No  | U  | UL84  | Q  |      |    |      |    |       |    |
| 41Ap | EIA    | A |     | 45Z3   | Y    | Mi7 | S  |       |    |      |    |      |    |       |    |
| 39Mr | EIA    | A |     | 45Z5   | Y    | Oc  | H  |       |    |      |    |      |    |       |    |
| 32Ap | TCA    | A | RCA | 46     | D +  | U5  | J  |       |    |      |    |      |    |       |    |
| 31Jn | TCA    | A | RCA | 47     | L    | U5  | J  | PZ    | K  | PZ   | =  | PZ   | =  | 2A5   | I  |
| 32De | 70Y    | A | RCA | 48     | S    | U6  | S  |       |    |      |    |      |    | 25L6  | N  |
| 32Sp | 70Y    | A | RCA | 49     | D +  | U5  | K  |       |    |      |    |      |    |       |    |
| 40No | EIA    | A |     | 50A5   | S    | Lo8 | H  |       |    |      |    |      |    |       |    |
| 50Mr | EIA    | A |     | 50AX6  | YY   | Oc  | P  |       |    |      |    |      |    |       |    |
| 45Oc | EIA    | A |     | 50B5   | S    | Mi7 | H  |       |    |      |    |      |    |       |    |
| 55Sp | EIA    | A |     | 50BK5  | L    | No  | H  | 6BK5  | H  |      |    |      |    |       |    |
| 58My | EIA    | E | GEM | 50BM8  | C-S  | No  | U  | UCL82 | Q  |      |    |      |    |       |    |
| 48Fe | EIA    | A |     | 50C5   | S    | Mi7 | H  | HL92  | Q  |      |    |      |    |       |    |
| 39Oc | EIA    | A |     | 50C6   | S    | Oc  | H  |       |    | 6Y6  | H  |      |    |       |    |
| 58Jl | EIA    | A |     | 50CA5  | S    | Mi7 | H  |       |    |      |    |      |    |       |    |
| 51Au | EIA    | A |     | 50CD6  | S ?  | Oc  |    |       |    |      |    |      |    |       |    |
| 58Jn | EIA    | A |     | 50EH5  | S    | Mi7 | H  | 6EH5  | H  |      |    |      |    |       |    |
| 39Mr | EIA    | A |     | 50L6   | S    | Oc  | H  |       |    | 25L6 | H  | 25L6 | H  |       |    |
| 46Oc | EIA    | A |     | 50X6   | YY   | Lo8 | H  |       |    |      |    |      |    |       |    |
| 39Jn | EIA    | A |     | 50Y6   | YY   | Oc  | H  |       |    | 25Z6 | H  |      |    |       |    |
| 48Mr | EIA    | A |     | 50Y7   | YY   | Oc  | H  |       |    |      |    |      |    |       |    |
| 38Ap | EIA    | A |     | 50Z6   | YY   | Oc  | P  |       |    |      |    |      |    |       |    |
| 39Jn | EIA    | A |     | 50Z7   | YY   | Oc  | H  |       |    |      |    |      |    |       |    |
| 31My | 70Y    | A |     | 51     | E°   | Eu5 | J  |       |    |      | [  |      |    |       |    |
| 33Ja | 70Y    | A | RAY | 52     | E    | Eu5 | EP |       |    |      |    |      |    |       |    |
| 33Jn | 70Y    | A | RCA | 53     | DD + | U7m |    |       |    |      |    |      |    | 6A6   | H  |
| 31Au | 70Y    | A | RCA | 55     | BC   | U6  | J  |       |    |      |    |      |    | 85    | H  |
| 5x   |        | E | GEM | 55N3   | Y    | No  | U  | UY82  | Q  |      |    |      |    |       |    |
| 32   | HER    | A | RCA | 56     | C    | U5  | J  |       |    |      |    | 27   | Z  | 76    | H  |
| 31Au | 70Y    | A | RCA | 57     | J    | U6  | J  |       |    |      |    |      |    | 77    | H  |
| 31Au | 70Y    | A | ARC | 58     | F    | U6  | J  |       |    |      |    |      |    | 78    | Z  |
| 32De | HER    | A | RCA | 59     | L    | U7m | J  | 47    | D  |      |    |      |    | 6F6   | U  |
| 28?  | 28FB32 | D | SIM | 063    | L    |     |    |       |    |      |    |      |    |       |    |
| 31My | 70Y    | A | NUN | 64 / A | E    | U5  | E  |       |    |      |    |      |    |       |    |
| 31My | 70Y    | A | NUN | 65 / A | E°   | U5  | E  |       |    |      |    |      |    |       |    |
| 31My | 70Y    | A | NUN | 67 / A | C    | U5  | E  |       |    |      |    |      |    |       |    |
| 31My | 70Y    | A | NUN | 68 / A | L    | U5  | E  |       |    |      |    |      |    |       |    |
| 32Jl | 70Y    | A | SYL | 69     | CC?  | U6? | E? |       |    |      |    |      |    |       |    |
| 39Jn | EIA    | A |     | 70A7   | S-Y  | Oc  | H  | 70L7  | K  | 70L7 | X  |      |    |       |    |
| 39Mr | EIA    | A |     | 70L7   | S-Y  | Oc  | H  |       |    |      |    | 32L7 | O  |       |    |
| 2x   |        | A | RAY | 72     | Y    | U4  | Jd |       |    |      |    |      |    |       |    |
| 33   | HER    | A | RCA | 75     | BC   | U6  | EP |       |    | 55   | Z  | 55   | Z  | 6Q7   | T  |
| 33   | HER    | A | RCA | 76     | C    | U5  | EP | +     |    | 56   | H  | 56   | H  | 6P5   | S  |
| 33   | HER    | A | RCA | 77     | J    | U6  | EP |       |    | 57   | H  | 57   | H  | 6J7   | S  |
| 33   | HER    | A | RCA | 78     | F    | U6  | EP |       |    | 58   | Z  | 58   | Z  | 6K7   | S  |

| DAT1 | QU1    | L | HSL | TYPE     | SYST | SOC | HZ | PLL    | PA | OGTY  | OA | VRG   | VA | NFG   | NA |
|------|--------|---|-----|----------|------|-----|----|--------|----|-------|----|-------|----|-------|----|
| 33Jn | 70Y    | A | RCA | 79       | DD + |     | EX |        |    | 53    | U  |       |    | 6Y7   | H  |
| 27My | 70Y    | A | GEL | 80       | Z    | U4  | G  |        |    | 213   | <  | 213   |    | 5Y3   | S  |
| 27De | TCA    | A |     | 81       | Y    | U4  | Sd |        |    |       |    |       |    |       |    |
| 32Jn | 70Y    | A | RCA | 82       | X    | U4  | J  | 83     | >  |       |    |       |    |       |    |
| 32Jn | 70Y    | A | RCA | 83       | X    | U4  | G  | 82     | <  |       |    |       |    |       |    |
| 33De | 70Y    | A | RCA | 83-V     | Z    | U4  | G  |        |    |       |    |       |    | 5V4   | S  |
| 33Ap | 70Y    | A | RCA | 84/6Z4   | Z    | U5  | EP | 6Z4    | #  |       |    |       |    | 6X5   | U  |
| 33   | HER    | A | RCA | 85       | BC   | U6  | E  | 6C7    | S  | 55    |    | 55    | H  | 6V7   | S  |
| 46De | PA     | E | PLP | 85A1     | V    | Lo8 | N  |        |    |       |    |       |    |       |    |
|      |        | E | GEM | 85A2     | V    | Mi7 | N  | 0G3    | Q  |       |    |       |    |       |    |
| 3x   |        | A |     | 88       | Z    | U4  | G  | 5T4    | >  | 80    | <  | 80    | <  |       | 5  |
| 32De | HER    | A | RCA | 89       | L    | U6  | E  |        |    | 38    | U  | 38    | <  | 41    | X  |
| 5x   |        | N | PLP | 90CG     | )    | Mi7 | N  |        |    |       |    |       |    |       |    |
| 5x   |        | N | PLP | 90CV     | )    | Mi7 | N  |        |    |       |    |       |    |       |    |
| 39Jn | PA     | N | PLP | 100E1    | V    | Eu4 | N  |        |    |       |    |       |    |       |    |
| 5x   |        | N | PLP | 108C1    | V    | Mi7 | N  | 0B2    | Q  |       |    |       |    |       |    |
| 39Sp | EIA    | A |     | 117L7    | S-Y  | Oc  | S  | 117M7  | K  | 70L7  | O  |       |    |       |    |
| 40Mr | EIA    | A |     | 117M7    | S-Y  | Oc  | S  |        |    | 117L7 | C  |       |    |       |    |
| 40Ap | EIA    | A |     | 117N7    | S-Y  | Oc  | S  | 117M7  | K  | 117M7 | K  |       |    |       |    |
| 41Ja | EIA    | A |     | 117P7    | S-Y  | Oc  | S  | 117N7  | K  | 117L7 | K  |       |    |       |    |
| 45Oc | EIA    | A |     | 117Z3    | Y    | Mi7 | S  |        |    |       |    | 117Z4 | S  |       |    |
| 41Ap | EIA    | A |     | 117Z4    | Y    | Oc  | S  |        |    |       |    |       |    | 117Z3 | S  |
| 39My | EIA    | A |     | 117Z6    | YY   | Oc  | S  |        |    | 25X6  | H  |       |    |       |    |
| 40Mr | PA     | E | VAL | 150A1    | V    | Au8 | N  |        |    |       |    |       |    |       |    |
| 5x   |        | N | PLP | 150B2    | V    | Mi7 | N  |        |    |       |    |       |    |       |    |
| 40Mr | PA     | N | PLP | 150C1    | V    | Au8 | N  |        |    |       |    |       |    |       |    |
| 5x   |        | N | PLP | 150C2    | V    | Mi7 | N  | 0A2    | Q  |       |    |       |    |       |    |
| 20?  | %      | N | PLP | 199      |      |     |    |        |    |       |    |       |    |       |    |
| 24   | VV40   | D | RRF | 201A -VV | D    | Eu4 | Gt |        |    |       |    |       |    |       |    |
| 30Jl | 30FB29 | D | TFK | ARCO 201 | [    | SpS | Y  |        |    |       |    |       |    |       |    |
| 24   | VV40   | D | RRF | 201B -VV | D    | Eu4 | O  |        |    |       |    |       |    |       |    |
| 25   | VV40   | D | RRF | 201C -VV | C    | Eu4 | O  |        |    |       |    |       |    |       |    |
| 20   | %      | A | WEC | 215A     |      |     |    |        |    |       |    |       |    |       |    |
| 32Mr | 70Y    | A | SPE | 291      | O    | U7m | P  |        |    |       |    |       |    |       |    |
| 32Mr | 70Y    | A | SPE | 293      | O    | U7m | E  |        |    |       |    |       |    |       |    |
| 32Mr | 70Y    | A | SPE | 295      | O    | U7m | J  |        |    |       |    |       |    |       |    |
| 30Jl | 30FB29 | D | TFK | ARCO 301 | [    | SpS | Y  |        |    |       |    |       |    |       |    |
| 43My | EIA    | A |     | 307A     | L    | U5  | S  |        |    |       |    |       |    |       |    |
| 26Jn | PA     | N | PLP | 327      |      |     |    |        |    |       |    |       |    |       |    |
| 26   | %      | N | PLP | 328      | X    | Eu4 | S  |        |    |       |    |       |    |       |    |
| 26   | %      | E | PLP | 329      | R    | Eu3 | N  |        |    |       |    |       |    |       |    |
| 30No | PA     | E | PLP | 340      | R    | E27 |    |        |    |       |    |       |    |       |    |
| 30No | PA     | N | PLP | 354      | X    | U4  | M  |        |    |       |    |       |    |       |    |
| 29<  | 29FB09 | N | PLP | 367      | XX   | SpS | S  |        |    |       |    |       |    |       |    |
| 26Jn | PA     | N | PLP | 373      | Y    | Eu3 | O  |        |    |       |    |       |    |       |    |
| 52Mr | 52RM03 | A |     | 435A     | J    |     |    |        |    |       |    |       |    |       |    |
| 29<  | 29FB09 | E | PLP | 451      | X    | Eu4 | M  |        |    |       |    |       |    |       |    |
| 30No | PA     | E | PLP | 452      | R    |     |    |        |    |       |    |       |    |       |    |
| 29<  | 29FB09 | N | PLP | 505      | Y    | Eu3 | O  | R_1304 | K  |       |    |       |    |       |    |
| 28   | PR     | N | PLP | 506 (K)  | Z    | Eu4 | O  | R_1054 | K  | 2506  | C  | 2506  | <  | 1805  | >  |
| 30No | PA     | N | PLP | 509      | XX   | Eu4 | K  |        |    |       |    |       |    |       |    |
| 31   | %      | A | ARC | 551      |      |     |    | 51     |    |       |    |       |    | 51    | #  |
| 43My | EIA    | A |     | 717A     | J    | Oc  | E  |        |    | 6AK5  | T  |       |    |       |    |
| 43Sp | EIA    | A |     | 807      | S    | U5  | E  |        |    | 6L6   | T  |       |    |       |    |
| 45Ap | EIA    | A |     | 815      | SS   | Oc  | EF |        |    |       |    |       |    |       |    |
| 43Sp | EIA    | A |     | 829      | SS   | Se7 | EF |        |    |       |    |       |    |       |    |
| 43Sp | EIA    | A |     | 832      | SS   | Se7 | EF |        |    |       |    |       |    |       |    |
| 35   | HER    | A | RCA | 954      | J    | Ac7 | EH | E1F    | Q  |       |    |       |    |       |    |
| 34   | HER    | A | RCA | 955      | C    | Ac5 | EH | E1C    | Q  |       |    |       |    |       |    |
| 36   | HER    | A | RCA | 956      | F    | Ac7 | EH | E2F    | Q  |       |    |       |    |       |    |
| 27Mr | PA     | N | PLP | 1001     |      |     |    |        |    |       |    |       |    |       |    |
| 26   | %      | N | PLP | 1002     | X    | Eu4 | S  |        |    |       |    |       |    |       |    |
| 30No | PA     | A | RAY | 1003     | X    | Oc  | N  | 0Z4A   | K  |       |    |       |    |       |    |

| DAT1 | QU1    | L | HSL | TYPE | SYST | SOC | HZ | PLL    | PA | OGTY | OA | VRG  | VA | NFG | NA |
|------|--------|---|-----|------|------|-----|----|--------|----|------|----|------|----|-----|----|
| 26   | %      | N | PLP | 1003 | R    | Eu4 | S  |        |    |      |    |      |    |     |    |
| 26   | %      | N | PLP | 1004 |      |     |    |        |    |      |    |      |    |     |    |
| 42No | EIA    | A | RAY | 1005 | X    | Oc  | E  | CK1005 | K  |      |    |      |    |     |    |
| 43Ja | EIA    | A | RAY | 1006 | X    | U4  | S  | CK1006 | K  |      |    |      |    |     |    |
| 45My | EIA    | A | RAY | 1007 | X    | Oc  | S  | CK1007 | K  |      |    |      |    |     |    |
| 26   | %      | N | PLP | 1010 | X    | Eu4 | K  |        |    |      |    |      |    |     |    |
| 26   | %      | N | PLP | 1011 | RR   | Eu4 | SS |        |    |      |    |      |    |     |    |
| 26   | %      | N | PLP | 1012 | R    | Eu4 | S  |        |    |      |    |      |    |     |    |
| 30No | PA     | N | PLP | 1014 | R    |     |    |        |    |      |    |      |    |     |    |
| 30No | PA     | N | PLP | 1018 | WR   |     |    |        |    |      |    |      |    |     |    |
| 30No | PA     | N | PLP | 1029 | X    | Eu4 | M  |        |    |      |    |      |    |     |    |
| 30No | PA     | N | PLP | 1039 | X    | Eu4 | M  |        |    |      |    |      |    |     |    |
| 30No | PA     | N | PLP | 1049 | X    | Eu4 | M  |        |    |      |    |      |    |     |    |
| 30No | PA     | N | PLP | 1059 | X    | Eu4 | M  |        |    |      |    |      |    |     |    |
| 30No | PA     | N | PLP | 1060 | XW   |     |    |        |    |      |    |      |    |     |    |
| 29<  | 29FB09 | N | PLP | 1061 | X    | Eu4 | R  |        |    |      |    |      |    |     |    |
| 29<  | 29FB09 | N | PLP | 1062 | X    | Eu4 | R  |        |    |      |    |      |    |     |    |
| 30No | PA     | N | PLP | 1063 | XW   |     |    |        |    |      |    |      |    |     |    |
| 32Ap | PA     | N | PLP | 1070 | X    | Eu4 | M  |        |    |      |    |      |    |     |    |
| 29<  | 29FB09 | N | PLP | 1071 | X    | Eu4 | R  |        |    |      |    |      |    |     |    |
| 29<  | 29FB09 | N | PLP | 1072 | X    | Eu4 | R  |        |    |      |    |      |    |     |    |
| 29<  | 29FB09 | N | PLP | 1074 | X    | Eu4 | R  |        |    |      |    |      |    |     |    |
| 29<  | 29FB09 | N | PLP | 1077 | X    | Eu4 | R  |        |    |      |    |      |    |     |    |
| 30No | PA     | N | PLP | 1089 | X    | Eu4 | M  |        |    |      |    |      |    |     |    |
| 30No | PA     | N | PLP | 1102 | W    | Eu4 | M  |        |    |      |    |      |    |     |    |
| 30No | PA     | N | PLP | 1110 | X    | Eu4 | M  |        |    |      |    |      |    |     |    |
| 30No | PA     | N | PLP | 1111 | R    | Eu4 |    |        |    |      |    |      |    |     |    |
| 30No | PA     | N | PLP | 1119 | X    | Eu4 | M  |        |    |      |    |      |    |     |    |
| 30No | PA     | N | PLP | 1120 | R    | Eu4 |    |        |    |      |    |      |    |     |    |
| 30No | PA     | N | PLP | 1120 | R    | Eu4 |    |        |    |      |    |      |    |     |    |
| 30No | PA     | N | PLP | 1120 | R    | Eu4 |    |        |    |      |    |      |    |     |    |
| 30No | PA     | N | PLP | 1129 | X    | Eu4 | M  |        |    |      |    |      |    |     |    |
| 30No | PA     | E | PLP | 1130 | R    |     |    |        |    |      |    |      |    |     |    |
| 30No | PA     | N | PLP | 1200 | Z    | Eu4 | O  |        |    |      |    |      |    |     |    |
| 30<  | 30FB12 | N | PLP | 1201 | Z    | Eu4 | Jd | R_1503 | K  |      |    |      |    |     |    |
| 3x   |        | A |     | 1221 | J    | U6  | EP | 6C6    | B  | 6C6  | B  |      |    |     |    |
| 3x   |        | A | RCA | 1223 | J    | Oc  | EP | 6J7    | B  | 6J7  | B  |      |    |     |    |
| 49Sp | 49RM09 | G | MUL | 1267 | T    |     |    |        |    |      |    | 0A4G |    |     |    |
| 43Fe | EIA    | A | SYL | 1291 | CC   | Lo8 | Dc | 3B7    | B  | 3B7  | B  |      |    |     |    |
| 31<  | 31FB08 | E | PLP | 1325 | X    |     |    |        |    |      |    |      |    |     |    |
| 29<  | 29FB09 | E | PLP | 1326 | X    | Eu4 | M  |        |    |      |    |      |    |     |    |
| 30No | PA     | E | PLP | 1331 | R    |     |    |        |    |      |    |      |    |     |    |
| 30No | PA     | N | PLP | 1455 | R    | Eu4 |    |        |    |      |    |      |    |     |    |
| 30No | PA     | N | PLP | 1456 | R    | Eu4 |    |        |    |      |    |      |    |     |    |
| 26   | %      | N | PLP | 1457 | R    | Eu4 |    |        |    |      |    |      |    |     |    |
| 26   | %      | N | PLP | 1459 |      |     |    |        |    |      |    |      |    |     |    |
| 26   | %      | N | PLP | 1461 |      |     |    |        |    |      |    |      |    |     |    |
| 30<  | 30FB12 | E | PLP | 1560 | Z    | Eu4 | G  | R_2005 | K  | 80   | S  |      |    |     |    |
| 30   | PR     | N | PLP | 1561 | Z    | Eu4 | O  | R_2004 | K  |      |    |      |    | AZ2 | R  |
| 30<  | 30FB12 | N | PLP | 1562 | Y    | Eu3 | Sd |        |    |      |    |      |    |     |    |
| 36   | LAS    | A | RCA | 1603 | J    | U6  | EP |        |    | 6C5  | B  | 6J7  | T  |     |    |
| 36   | LAS    | A | RCA | 1603 | J    | U6  | EP |        |    | 6C5  | B  | 6J7  | T  |     |    |
| 4x   |        | F | BLV | 1603 | J    | Oc  | EP | 1603   | S  | 6C5  | S  | 6J7  | C  |     |    |
| 37   | LAS    | A | RCA | 1604 | F    | U6  | EP | 78     | B  | 78   | B  |      |    |     |    |
| 37   | LAS    | A | RCA | 1605 | C    | SpS | D  |        |    |      |    |      |    |     |    |
| 37   | LAS    | A | RCA | 1606 | J    | SpS | D  |        |    |      |    |      |    |     |    |
| 36Jn | LAS    | A | RCA | 1607 | D    | U4  | J  |        |    |      |    |      |    |     |    |
| 37   | LAS    | A | RCA | 1608 | D    | U4  | J  |        |    |      |    |      |    |     |    |
| 38   | LAS    | A | RCA | 1609 | D    | U5  | D  |        |    |      |    |      |    |     |    |
| 37   | LAS    | A | RCA | 1610 | L    | U5  | J  | 47     | B  | 47   | B  |      |    |     |    |
| 4x   | LAS    | A | RCA | 1611 | L    | Oc  | E  | 6F6    | B  | 6F6  | B  |      |    |     |    |
| 3x   |        | A | RCA | 1612 | H    | Oc  | EP | 6L7    | B  | 6L7  | B  |      |    |     |    |
| 4x   |        | A | RCA | 1613 | L    | Oc  | E  | 6F6    | B  | 6F6  | B  |      |    |     |    |

| DAT1 | QU1    | L | HSL | TYPE | SYST | SOC | HZ | PLL    | PA | OGTY  | OA | VRG    | VA | NFG  | NA |
|------|--------|---|-----|------|------|-----|----|--------|----|-------|----|--------|----|------|----|
| 37   | LAS    | A | RCA | 1613 | L    | Oc  | E  | VT-175 | #  | 6F6   | B  |        |    |      |    |
| 37   | LAS    | A | RCA | 1614 | S    | Oc  | E  | 6L6    | B  | 6L6   | B  |        |    |      |    |
| 42Jl | LAS    | A | RCA | 1615 | L    | U6  | E  | 42     | B  | 42    | B  |        |    |      |    |
| 43Sp | LAS    | A | RCA | 1616 | Y    | U4  | J  | VT-266 | #  | 836   | N  |        |    |      |    |
| 4x   | LAS    | A | RCA | 1617 | J    | U6  | E  |        |    |       |    |        |    |      |    |
| 38   | LAS    | A | RCA | 1619 | S    | Oc  | J  | 1624   | T  | 6L6   | Z  |        |    |      |    |
| 3x   |        | A | RCA | 1620 | J    | Oc  | EP | 6J7    | B  | 6J7   | B  |        |    |      |    |
| 4x   |        | A | RCA | 1621 | L    | Oc  | E  | 6F6    | B  | 6F6   | B  |        |    |      |    |
| 4x   |        | A | RCA | 1622 | S    | Oc  | E  | 6L6    | B  | 6L6   | B  |        |    |      |    |
| 4x   | LAS    | A | RCA | 1623 | D    | U4  | E  |        |    | 809   | C  |        |    |      |    |
| 43Sp | EIA    | A | RCA | 1624 | S    | U5  | J  | 1619   | T  | 807   | Z  |        |    |      |    |
| 43Sp | EIA    | A | RCA | 1625 | S    | U7m | FL | 807    | H  | 807   | R  |        |    |      |    |
| 39   | LAS    | A | RCA | 1626 | D    | Oc  | F  |        |    |       |    |        |    |      |    |
| 4x   | LAS    | A | RCA | 1627 | D    | U4  | G  | 810    | H  | 810   | H  |        |    |      |    |
| 4x   | LAS    | A | RCA | 1628 | D    |     |    | VT-140 | #  |       |    |        |    |      |    |
| 41Ja | LAS    | A | RCA | 1629 | MC   | U6  | HF | 6E5    | R  | 6E5   | R  |        |    |      |    |
| 41   | LAS    | A | RCA | 1630 | H    |     |    | VT-128 | #  |       |    |        |    |      |    |
| 4    |        | A | RCA | 1631 | S    | Oc  | FL | 6L6    | H  | 6L6   | H  |        |    |      |    |
| 41   | LAS    | A | RCA | 1632 | S    | Oc  | FX | 25L6   | H  | 25L6  | H  |        |    |      |    |
| 41   | LAS    | A | RCA | 1633 | C-C  | Oc  | H  | 6SN7   | H  | 6SN7  | H  |        |    |      |    |
| 41   | LAS    | A | RCA | 1634 | CC   | Oc  | HF | 12SC7  | B  | 12SC7 | B  |        |    |      |    |
| 42   | LAS    | A | RCA | 1635 | DD + | Oc  | EX | 6Y7    | B  | 6Y7   | <  |        |    |      |    |
| 40   | LAS    | A | RCA | 1636 | H    | Oc  | EP |        |    |       |    |        |    |      |    |
| 41   | LAS    | A | RCA | 1637 | L    | Oc  | EC | VT52   | Q  | EL32  | B  | EL2    | S  |      |    |
| 41   | LAS    | A | RCA | 1638 | L    | Oc  | EC | VT54   | Q  | EB34  | B  | EB4    | S  |      |    |
| 41   | LAS    | A | RCA | 1639 | L    | Oc  | EC | VR55   | Q  | EBC33 | B  | EBC3   | S  |      |    |
| 41   | LAS    | A | RCA | 1641 | Z    | U4  | G  | RK60   | K  |       |    |        |    |      |    |
| 42   | LAS    | A | RCA | 1642 | CC   | U7s | EX | 2C21   | K  |       |    |        |    |      |    |
| 42Jl | LAS    | A | RCA | 1643 | L    | U7s | E  | 837    | H  |       |    |        |    |      |    |
| 42   | LAS    | A | RCA | 1644 | LL   | Oc  | HF | 12L8   | B  | 6G6   | E  |        |    |      |    |
| 43   | LAS    | A | RCA | 1649 | J    | Oc  | EL | 6AC7   | B  | 6AC7  | B  |        |    |      |    |
| 43   | LAS    | A | RCA | 1650 | C    | Ac5 | EH | 955    | B  |       |    |        |    |      |    |
| 38Ja | LAS    | A | RCA | 1651 | Z    | U4  |    |        |    |       |    |        |    |      |    |
| 37Mr | LAS    | A | RCA | 1652 | D    | U4  |    | 820B   | #  |       |    |        |    |      |    |
| 43   | LAS    | A | RCA | 1654 | y    | Mi7 | D  |        |    |       |    |        |    |      |    |
| 43   | LAS    | A | RCA | 1655 | CC   | Oc  | EP | 6SC7   | B  | 6SC7  | B  |        |    |      |    |
| 44   | LAS    | A | RCA | 1656 | D    | Oc  | E  |        |    | 446B  | B  |        |    | 2C43 |    |
| 44   | LAS    | A | RCA | 1657 | T    | Oc  | EX | 1661   | V  | 2050  | B  |        |    |      |    |
| 44   | LAS    | A | RCA | 1658 | C    | U4  | K  |        |    | 30    | B  |        |    |      |    |
| 44   | LAS    | A | RCA | 1659 | BC   | U6  | J  | 2A6    | B  | 2A6   | B  |        |    |      |    |
| 44   | LAS    | A | RCA | 1660 | y    | SpA | W  |        |    |       |    |        |    |      |    |
| 44   | LAS    | A | RCA | 1661 | T    | Oc  | EX | 1657   | V  | 2050  | B  |        |    |      |    |
| 44   | LAS    | A | RCA | 1662 | L    | Mi7 | D  |        |    | 3A4   | B  |        |    |      |    |
| 44<  | LAS    | A | RCA | 1664 | BF   | Oc  | HF | 12C8   | B  | 12C8  | B  |        |    |      |    |
| 45   | LAS    | A | RCA | 1665 | T    | Oc  | EX |        |    | 2050  | B  |        |    |      |    |
| 49   | LAS    | A | IBM | 1680 | I%   | No  | EP |        |    | 6BE6  | C  |        |    |      |    |
| 51   | LAS    | A | IBM | 1684 | CC   | Mi7 | E  |        |    |       |    |        |    | 2032 | ~  |
| 30<  | 30FB13 | N | PLP | 1701 | X    | Eu4 | Sd |        |    |       |    |        |    | 2033 | ~  |
| 27   | ERB    | N | PLP | 1702 | X    | Eu4 | Sd |        |    |       |    |        |    | AX50 | N  |
| 30No | PA     | N | PLP | 1739 |      |     |    |        |    |       |    |        |    |      |    |
| 30No | PA     | N | PLP | 1749 | X    | Eu4 | M  |        |    |       |    |        |    |      |    |
| 30No | PA     | N | PLP | 1762 | Y    | Eu4 | J  |        |    |       |    |        |    |      |    |
| 30No | PA     | N | PLP | 1763 |      |     |    |        |    |       |    |        |    |      |    |
| 30No | PA     | N | PLP | 1766 | XW   |     |    |        |    |       |    |        |    |      |    |
| 30No | PA     | N | PLP | 1789 |      |     |    |        |    |       |    |        |    |      |    |
| 30<  | 30FB13 | N | PLP | 1800 | Y    | Eu3 | O  |        |    |       |    |        |    |      |    |
| 30   | DRM    | N | PLP | 1801 | Z    | Eu4 | O  | RGN504 | K  |       |    |        |    |      |    |
| 30No | PA     | N | PLP | 1802 | Y    | Eu3 | O  | G415   | Q  |       |    |        |    |      |    |
| 32   |        | N | PLP | 1803 | Y    | Eu3 | O  | RGN564 | K  |       |    |        |    |      |    |
| 30No | PA     | N | PLP | 1805 | Z    | Eu4 | O  | R_1064 | K  | 506   | G  | 506 /K | <  | AZ1  | S  |
| 27   | %      | N | PLP | 1810 | Y    | Eu3 | O  | RGN354 | K  |       |    |        |    |      |    |
| 31No | PA     | N | PLP | 1815 | Z    | Eu4 | O  | R_2504 | K  |       |    |        |    | AZ4  | S  |
| 31Oc | PA     | N | PLP | 1817 | Z    | Eu4 | O  | R_4004 | K  |       |    |        |    | AZ50 | U  |

| DAT1 | QU1    | L | HSL | TYPE | SYST | SOC | HZ | PLL    | PA | OGTY  | OA | VRG  | VA | NFG   | NA |
|------|--------|---|-----|------|------|-----|----|--------|----|-------|----|------|----|-------|----|
| 3    |        | N | PLP | 1819 | X    | Eu4 | Sd |        |    |       |    |      |    |       |    |
| 32Au | PA     | N | PLP | 1823 | Z    | Eu4 | O  | R-1054 | K  | 506   | F  |      |    | 1805  | >  |
| 30No | PA     | N | PLP | 1831 | Z    | Eu4 | O  |        |    |       |    |      |    |       |    |
| 30No | PA     | N | PLP | 1832 | Y    | Eu3 | O  | R_1404 | K  |       |    |      |    |       |    |
| 38Ap | BPD    | A | RCA | 1851 | J    | Oc  | EL | 6AC7   | V  |       |    |      |    | 6AC7  | V  |
| 38Oc | BPD    | A | RCA | 1852 | J    | Oc  | EL | 6AC7   | B  | 1851  | S  | 1851 | V  | 6AC7  | B  |
| 39Mr | BPD    | A | RCA | 1853 | F    | Oc  | EL | 6AB7   | B  |       |    |      |    | 6AB7  | B  |
| 36Ja | PBD33  | N | PLP | 1875 | y    | Au8 | O  |        |    |       |    |      |    |       |    |
| 36No | PBD42  | N | PLP | 1876 | y    | Au8 | O  |        |    |       |    |      |    |       |    |
| 39My | PA     | N | PLP | 1877 | y    | Au8 | O  |        |    |       |    |      |    |       |    |
| 39Fe | PA     | N | PLP | 1878 | y    | Au8 | O  |        |    |       |    |      |    |       |    |
| 3x   |        | N | PLP | 1881 | Z    | Eu4 | Ah |        |    |       |    |      |    |       |    |
| 38Jn | PA     | F | PLP | 1882 | Z    | Au8 | Gd | 5Y3G   | K  | 5Y3G  | S  | AZ1  | Z  | 1883  | I  |
| 38Jn | PA     | F | PLP | 1883 | Z    | Au8 | Gh | 5Y3GB  | K  | 5Y3GB | S  | AZ1  | O  | GZ40  | U  |
| x    | A      | N | PLP | 1884 | Z    | Oc  | Jd |        |    |       |    |      |    |       |    |
| 31Oc | PA     | E | PLP | 1904 | R    |     |    |        |    |       |    |      |    |       |    |
| 35<  | %      | E | PLP | 1909 | R    |     |    |        |    |       |    |      |    |       |    |
| 35<  | %      | E | PLP | 1911 | R    |     |    |        |    |       |    |      |    |       |    |
| 35<  | %      | E | PLP | 1912 | R    |     |    |        |    |       |    |      |    |       |    |
| 31Oc | PA     | N | PLP | 1915 | R    | Eu4 |    |        |    |       |    |      |    |       |    |
| 32Ap | PA     | N | PLP | 1919 | R    | E27 |    |        |    |       |    |      |    |       |    |
| 31No | PA     | N | PLP | 1920 | R    | Eu4 |    |        |    |       |    |      |    |       |    |
| 32De | PBD04  | E | PLP | 1927 | R    |     |    |        |    |       |    |      |    |       |    |
| 32De | PBD04  | E | PLP | 1928 | R    |     |    |        |    |       |    |      |    |       |    |
| 32Ap | PA     | N | PLP | 1938 | R    | E27 |    |        |    |       |    |      |    |       |    |
| 32Ap | PA     | N | PLP | 1943 | R    | E27 |    |        |    |       |    |      |    |       |    |
| 32Ap | PA     | N | PLP | 1950 | R    | Au8 |    |        |    |       |    |      |    |       |    |
| 32Ap | PA     | N | PLP | 1952 | R    | E27 |    |        |    |       |    |      |    |       |    |
| 56   | LAS    | A | IBM | 2032 | l%   | No  | EP |        |    |       |    | 1680 | ~  | 5915  | ~  |
| 58   | LAS    | A | RCA | 2033 | CC   | Mi7 | E  | 1684   | ~  |       |    | 1684 | #  |       |    |
| 44My | EIA    | A |     | 2050 | T    | Oc  | EX |        |    |       |    |      |    | PL21  | S  |
| 27   | NVH922 | N | PLP | 2504 | Y    | Eu3 | D  |        |    |       |    |      | [  | 506   | >  |
| 28   | PR     | N | PLP | 2506 | Z    | Eu4 | O  |        |    |       |    |      |    |       |    |
| 30No | PA     | N | PLP | 2769 | Z    | Eu4 | R  |        |    |       |    |      |    |       |    |
| 26   | %      | N | PLP | 3006 | Y    |     |    |        |    |       |    |      |    |       |    |
| 3x   |        | N | PLP | 3533 | )    | Eu4 | N  |        |    |       |    |      |    |       |    |
| 3x   |        | N | PLP | 4060 | C    | Eu3 | Sd |        |    |       |    |      |    |       |    |
| 47De | PA     | N | PLP | 4613 | D    |     |    |        |    |       |    |      |    |       |    |
| 38Ap | PB2    | N | PLP | 4641 | D    | Eu4 | O  | LK4250 |    |       |    |      |    |       |    |
| 3x   |        | N | PLP | 4642 | S    | SpS | S  |        |    |       |    |      |    |       |    |
| 3x   |        | N | PLP | 4646 | Y    | SpS | A  |        |    |       |    |      |    |       |    |
| 36Ja | PBD33  | N | PLP | 4646 | Y    | SpS | O  |        |    |       |    |      |    |       |    |
| 30?  |        | N | PLP | 4650 | L    | Eu5 | O  | F443N  | #  |       |    |      |    | EL60  | N  |
| 39Ja | PBD64  | N | PLP | 4654 | L    | Au8 | E  |        |    | 6L6   | O  | 4689 | <  | EL50  | #  |
| 36Au | PBD39  | N | PLP | 4662 | 9    | SpS | N  |        |    |       |    |      |    | EM1   | Y  |
| 3x   |        | N | PLP | 4670 | LL   | Au8 | K  |        |    |       |    |      |    | DLL21 | N  |
| 40Ap | PA     | E | PLP | 4671 | C    | Ac5 | EH | E1C    | #  |       |    |      |    |       |    |
| 40Ap | PA     | N | PLP | 4672 | J    | Ac7 | EH | 954    | Q  |       |    |      |    |       |    |
| 36Mr | HLR    | N | PLP | 4673 | J    | Au8 | A  |        |    | AF7   | N  |      |    | EF50  | N  |
| 40Ap | PA     | N | PLP | 4674 | A    | Ac5 | EH |        |    |       |    |      |    | EA50  | S  |
| 3x   |        | E | PLP | 4675 | C    | Ac5 | E  |        |    |       |    |      |    |       |    |
| 36My | PBD36  | E | PLP | 4677 | MC   | Au8 | A  | 4678   | H  | 6E5   | U  |      | [  | AM1   | #  |
| 36My | PBF30  | E | PLP | 4678 | MC   | Au8 | EC | 4677   | H  | 6E5   | U  |      | [  | EM1   | #  |
| 35?  |        | N | PLP | 4682 | L    | Au8 | A  | AL2_37 | K  | AL2   | B  |      |    | 4694  | >  |
| 37Jn | PB2    | N | PLP | 4683 | D    | Au8 | A  | AD1    | G  | AD1   | B  | AD1  | G  |       |    |
| 36Jl | PA     | N | PLP | 4686 | T    | Au8 | A  |        |    |       |    |      |    | EC50  | O  |
| 36De | PBD43  | N | PLP | 4687 | V    | Au8 | N  |        |    |       |    |      |    |       |    |
| 36>  |        | N | PLP | 4688 | L    | Au8 | A  | AL5_37 | K  | AL5   | B  |      |    |       |    |
| 37Jn | PB2    | N | PLP | 4689 | L    | Au8 | E  | EL5_37 | K  | EL5   | B  |      |    | 4699  | C  |
| 3x   |        | N | PLP | 4690 | T    | Au8 | A  |        |    |       |    |      |    |       |    |
| 39Jn | PB2    | N | PLP | 4694 | L    | Au8 | E  | EL3    | G  | EL3   | G  | EL3  | <  |       |    |
| 40Ap | PA     | A | PLP | 4695 | F    | Ac7 | EH | 956    | Q  |       |    |      |    | E2F   | #  |
| 38Sp | PBD60  | N | PLP | 4696 | P    | Au8 | EX | EE1    | #  |       |    |      |    | EE1   | #  |



| DAT1 | QU1 | L | HSL | TYPE   | SYST | SOC | HZ | PLL    | PA | OGTY   | OA | VRG  | VA | NFG    | NA |
|------|-----|---|-----|--------|------|-----|----|--------|----|--------|----|------|----|--------|----|
| 38My | PB2 | N | PLP | 4699   | L    | Au8 | E  | EL6    | G  | EL6    | G  | EL6  | <  | EL60   | N  |
| 47Fe | EIA | A |     | 5591   | J    | Mi7 | EH | 6AK5   | H  | 6AK5   | H  |      |    |        |    |
| 49Mr | EIA | A |     | 5636   | F    | Sm  |    | EF730  | Q  |        |    |      |    |        |    |
| 48Jl | EIA | A |     | 5654   | J    | Mi7 | EH | E95F   | Q  | 6AK5   | B  |      |    |        |    |
| 47No | EIA | A |     | 5661   | F    | Oc  | EP | 12SK7  | B  | 12SK7  | B  |      |    |        |    |
| 48Sp | EIA | A |     | 5670   | C-C  | No  | E  | 2C51   | K  |        |    |      |    |        |    |
| 47De | EIA | A | SYL | 5679   | AA   | Lo8 | EH | 7A6    | V  | 7A6    | V  |      |    |        |    |
| 50Mr | EIA | A |     | 5686   | S    | No  | E  |        |    | 12A6   | U  |      |    |        |    |
| 48Fe | EIA | A |     | 5687   | D-D  | No  | EF |        |    |        |    |      |    |        |    |
| 48Fe | EIA | A |     | 5691   | C-C  | Oc  | EP | 6SL7   | B  | 6SL7   | B  |      |    |        |    |
| 48Ap | EIA | A |     | 5692   | C-C  | Oc  | EX | 6SN7   | B  | 6SN7   | B  |      |    |        |    |
| 48Ap | BPD | A | RCA | 5693   | J    | Oc  | EP | 6SJ7   | B  | 6SJ7   | B  |      |    |        |    |
| 48No | EIA | A |     | 5694   | DD + | Oc  | E  | 6N7    | V  | 6N7    | V  |      |    |        |    |
| 5x   |     | A |     | 5696   | T    | Mi7 | EH |        |    |        |    |      |    |        |    |
| 5x   |     | A |     | 5703   |      |     |    |        |    |        |    |      |    |        |    |
| 5x   |     | A |     | 5718   |      |     |    |        |    |        |    |      |    |        |    |
| 48Oc | EIA | A |     | 5721   | C-C  | No  | EP | E83CC  | Q  | 12AX7  | B  |      |    |        |    |
| 50Mr | EIA | A |     | 5726   | AA   | Mi7 | EP | EAA91  | Q  | 6AL5   | B  |      |    |        |    |
| 48Sp | EIA | A |     | 5732   | F    | Oc  | EP | 6K7    | B  | 6K7    | B  |      |    |        |    |
| 50Mr | EIA | A |     | 5749   | F    | Mi7 | EP | EF93   | Q  | 6BA6   | B  |      |    |        |    |
| 50Mr | EIA | A |     | 5750   | N    | Mi7 | EP | EK90   | Q  | 6BE6   | B  |      |    |        |    |
| 49Oc | EIA | A |     | 5751   | C-C  | No  | EP | ECC83  | Q  | 12AX7  | B  |      |    |        |    |
| 50Jl | EIA | A |     | 5755   | C-C  | No  | EF |        |    | 6SL7   | R  |      |    |        |    |
| 53Ja | EIA | A |     | 5760   | N    | Mi7 | EP | EK90   | Q  | 6BE6   | B  |      |    |        |    |
| 50Jn | EIA | A |     | 5812   | S    | Mi7 | Sd | 2E30   | K  |        |    |      |    |        |    |
| 49Oc | EIA | A |     | 5814   | C-C  | No  | EP | E82CC  | Q  | 12AU7  | B  |      |    |        |    |
| 6x   |     | W | AEG | 5823A  | T    | Mi7 | N  |        |    |        |    |      |    |        |    |
| 50Mr | EIA | A |     | 5840   | J    | Sm  |    | EF732  | Q  |        |    |      |    |        |    |
| 50My | EIA | A |     | 5871   | S    | Oc  | EL | 6V6    | B  | 6V6    | B  |      |    |        |    |
| 5x   |     | A |     | 5876   |      |     |    |        |    |        |    |      |    |        |    |
| 50Oc | EIA | A |     | 5881   | S    | Oc  | E  | 6L6-GC | B  | 6L6-GC | B  |      |    |        |    |
| 5x   |     | A |     | 5894   | SS   | Se7 | EF | QQE064 |    |        |    |      |    |        |    |
| 5x   |     | A |     | 5896   |      |     |    |        |    |        |    |      |    |        |    |
| 50Mr | EIA | A |     | 5899   | F    | Sm  |    | EF71   |    |        |    |      |    |        |    |
| 50Ap | EIA | A |     | 5902   | S ?  | Sm  |    | EL71   | Q  |        |    |      |    |        |    |
| 50Jl | EIA | A |     | 5915   | I%   | Mi7 | EP | 6BY6   | B  |        |    | 2032 | ~  | EH900S | Q  |
| 51Jl | EIA | A |     | 5920   | CC   | Mi7 | E  | E90CC  | Q  |        |    |      |    |        |    |
| 50Jl | EIA | A |     | 5931   | Z    | Oc  | Gd | 5U4    | B  | 5U4    | B  |      |    |        |    |
| 50Jl | EIA | A |     | 5932   | S    | Oc  | E  | 6L6    | B  | 6L6    | B  |      |    |        |    |
| 50Jl | BPD | A | RCA | 5961   | N    | Oc  | EP | 6SA7   | B  | 6SA7   | B  |      |    |        |    |
| 50Jl | EIA | A |     | 5964   | CC   | Mi7 | EL | ECC91  | Q  | 6J6    | B  |      |    |        |    |
| 5x   |     | A |     | 5977   |      |     |    |        |    |        |    |      |    |        |    |
| 51Mr | EIA | A |     | 5992   | S    | Oc  | EL | 6V6    | B  | 6V6    | B  |      |    |        |    |
| 51Oc | EIA | A |     | 5998   | D-D  | Oc  | E  | 6080   | F  | 6AS7   | B  |      |    | 6080   | >  |
| 50No | EIA | A |     | 6005   | S    | Mi7 | EL | 6AQ5   | B  | 6AQ5   | B  |      |    |        |    |
| 51Ja | EIA | A |     | 6006   | F    | Oc  | EP | 6SG7   | B  | 6SG7   | B  |      |    |        |    |
| 52Jn | EIA | A |     | 6021   | C-C  | S8r | EP | ECC70  | Q  |        |    |      |    |        |    |
| 52Mr | EIA | A |     | 6024   | J    | Mi7 | EP | EF91   | Q  | 6AM6   | B  |      |    |        |    |
| 5x   |     | A |     | 6030   | CC   | Mi7 | EL | ECC91  | Q  | 6J6    | B  |      |    |        |    |
| 51Jn | EIA | A |     | 6046   | S    | Oc  | P  | 25L6   | B  | 25L6   | B  |      |    |        |    |
| 51Ap | EIA | A |     | 6057   | C-C  | No  | EP | E83CC  | Q  | 12AX7  | B  |      |    |        |    |
| 51My | EIA | A |     | 6058   | AA   | Mi7 | EP | EAA91  | Q  | 6AL5   | B  |      |    |        |    |
| 51Ap | EIA | A |     | 6060   | C-C  | No  | EP | E81CC  | Q  | 12AT7  | B  |      |    |        |    |
| 51Ap | EIA | A |     | 6061   | S    | No  | EL | 6BW6   | B  | 6BW6   | B  |      |    |        |    |
| 51Ap | EIA | A |     | 6063   | Z    | Mi7 | EX | 6X4    | B  | 6X4    | B  |      |    |        |    |
| 51Ap | EIA | A |     | 6064   | J    | Mi7 | EP | EF91   | Q  | 6AM6   | B  |      |    |        |    |
| 51My | EIA | A |     | 6065   | F    | Mi7 | EC | EF92   | Q  | 6CQ6   | B  |      |    |        |    |
| 51Ap | EIA | A |     | 6066   | BC   | Mi7 | EP | EBC90  | Q  | 6AT6   | B  |      |    |        |    |
| 51My | EIA | A |     | 6067   | C-C  | No  | EP | E82CC  | Q  | 12AU7  | B  |      |    |        |    |
| 5x   |     | A |     | 6069   | J    | Mi7 | E  | EF95   | Q  | 6AK5   | B  |      |    |        |    |
| 51De | EIA | A |     | 6080   | D-D  | Oc  | E  | 6AS7   | F  | 6AS7   | B  |      |    |        |    |
| 58Mr | PA  | N | PLP | ECC230 | D-D  | Oc  | E  | 6080   | F  | 6AS7   | B  |      |    |        |    |
| 52Ja | EIA | A |     | 6082   | D-D  | Oc  | X  |        |    | 6080   | H  |      |    |        |    |

| DAT1 | QU1 | L | HSL | TYPE    | SYST | SOC | HZ | PLL    | PA | OGTY  | OA | VRG  | VA | NFG | NA |
|------|-----|---|-----|---------|------|-----|----|--------|----|-------|----|------|----|-----|----|
| 51Oc | EIA | A |     | 6084    | J    | No  | EP | E80F   | Q  |       |    |      |    |     |    |
| 51Oc | EIA | A |     | 6085    | C-C  | No  | EX | E80CC  | Q  |       |    |      |    |     |    |
| 52No | EIA | A |     | 6087    | Z    | Oc  | Gh | 5Y3GB  | Q  | 5Y3   | D  |      |    |     |    |
| 62No | EIA | A |     | 6095    | S    | Mi7 | EL | EL90   | Q  | 6AQ5  | B  |      |    |     |    |
| 63Fe | EIA | A |     | 6096    | J    | Mi7 | E  | E95F   | Q  | 6AK5  | B  |      |    |     |    |
| 57Jl | EIA | A |     | 6097    | AA   | Mi7 | EP | EAA91  | Q  | 6AL5  | B  |      |    |     |    |
| 63My | EIA | A |     | 6099    | CC   | Mi7 | EL | ECC91  | Q  | 6J6   | B  |      |    |     |    |
| 62No | EIA | A |     | 6100    | C    | Mi7 | E  | EC90   | Q  | 6C4   | B  |      |    |     |    |
| 53Sp | EIA | A |     | 6101    | CC   | Mi7 | EP | ECC91  | Q  | 6J6   | B  |      |    |     |    |
| 5x   |     | A |     | 6112    |      |     |    |        |    |       |    |      |    |     |    |
| 51Au | EIA | A |     | 6113    | C-C  | Oc  | EP | 6SL7   | B  | 6SL7  | B  |      |    |     |    |
| 52Sp | EIA | A |     | 6132    | L    | No  | E  | EL821  | Q  | 6CH6  | B  |      |    |     |    |
| 52My | EIA | A |     | 6135    | C    | Mi7 | E  | EC90   | Q  | 6C4   | B  |      |    |     |    |
| 52My | EIA | A |     | 6136    | J    | Mi7 | EP | EF94   | Q  | 6AU6  | B  |      |    |     |    |
| 52Fe | BPD | A | GEL | 6137    | F    | Oc  | EP | 6SK7   | B  | 6SK7  | B  |      |    |     |    |
| 52Ja | EIA | A |     | 6146 B  | S    | Oc  | E  | YL1370 | Q  | 6146  | <  |      |    |     |    |
| 52Ap | EIA | A |     | 6180    | C-C  | Oc  | EX | 6SN7   | B  | 6SN7  | B  |      |    |     |    |
| 60Ap | EIA | A |     | 6186    | J    | Mi7 | EP | EF96   | Q  | 6AG5  | B  |      |    |     |    |
| 52My | EIA | A |     | 6201    | C-C  | No  | EP | E81CC  | Q  | 12AT7 | B  |      |    |     |    |
| 53My | EIA | A |     | 6202    | Z    | Mi7 | EX | EZ90   | Q  | 6X4   | B  |      |    |     |    |
| 5x   |     | A |     | 6203    | Z    | No  | E  |        |    |       |    |      |    |     |    |
| 5x   |     | A |     | 6205    |      |     |    |        |    |       |    |      |    |     |    |
| 56Jl | EIA | A |     | 6227    | L    | No  | E  | E80L   | Q  |       |    |      |    |     |    |
| 55No | EIA | A |     | 6267    | J    | No  | EC | EF86   | Q  | 6BK8  | Q  |      |    |     |    |
| 53Jn | EIA | A |     | 6287    | S    | No  | EL | 6BW6   | Q  | 6AQ5  | S  |      |    |     |    |
| 53Sp | EIA | A |     | 6336    | D-D  | Oc  | E  |        |    | 6080  | <  |      |    |     |    |
| 5x   |     | A |     | 6360    | SS   | No  | E  | QQE031 | Q  |       |    |      |    |     |    |
| 57Fe | EIA | A |     | 6520    | D-D  | Oc  | E  | 6080   | F  | 6AS7  | B  |      |    |     |    |
| 54Oc | EIA | A |     | 6550    | S    | Oc  | E  |        |    |       |    |      |    |     |    |
| 55My | EIA | A |     | 6660    | F    | Mi7 | EP | EF93   | Q  | 6BA6  | B  |      |    |     |    |
| 55My | EIA | A |     | 6661    | J    | Mi7 | EH | E90F   | Q  | 6BH6  | B  |      |    |     |    |
| 55My | EIA | A |     | 6662    | F    | Mi7 | EH | E99F   | Q  | 6BJ6  | B  |      |    |     |    |
| 55My | EIA | A |     | 6663    | AA   | Mi7 | EP | EAA91  | Q  | 6AL5  | B  |      |    |     |    |
| 60Oc | EIA | A |     | 6664    | C    | Mi7 | EH | EC92   | Q  | 6AB4  | B  |      |    |     |    |
| 55De | EIA | A |     | 6669    | S    | Mi7 | EL | EL90   | Q  | 6AQ5  | B  |      |    |     |    |
| 55No | EIA | A |     | 6679    | C-C  | No  | EP | E81CC  | Q  | 12AT7 | B  |      |    |     |    |
| 55No | EIA | A |     | 6680    | C-C  | No  | EP | E82CC  | Q  | 12AU7 | B  |      |    |     |    |
| 55No | EIA | A |     | 6681    | C-C  | No  | EP | E83CC  | Q  | 12AX7 | B  |      |    |     |    |
| 56Jl | EIA | A |     | 6686    | L    | No  | E  | E81L   | Q  |       |    |      |    |     |    |
| 56Jl | EIA | A |     | 6687    | 1%   | Mi7 | E  | E91H   | Q  | 5915  | H  | 5915 | ~  |     |    |
| 56Jl | EIA | A |     | 6688    | J    | No  | EP | E180F  | Q  |       |    |      |    |     |    |
| 56Jl | EIA | A |     | 6689    | J    | No  | EP | E83F   | Q  |       |    |      |    |     |    |
| 61Ap | EIA | A |     | 6699    | S    | Mi7 | EL | EL90   | Q  | 6AQ5  | B  |      |    |     |    |
| 55Jn | EIA | A |     | 6778    | C    | S8r | EH | EC70   | Q  |       |    |      |    |     |    |
| 57Mr | EIA | A |     | 6877    | ?    | ?   | ?  | ?      |    |       |    |      |    |     |    |
| 58My | EIA | A |     | 6922    | C-C  | No  | EP | E88CC  | Q  |       |    |      |    |     |    |
| 6 ?  | EIA | A |     | 6922 WA | C-C  | No  | E  | E188CC | Q  |       |    |      |    |     |    |
| 59Fe | EIA | A |     | 6923    | A    | SpA | EP | EA52   | Q  |       |    |      |    |     |    |
| 56Oc | EIA | A |     | 6927    | CC   | Mi7 | EL | ECC91  | Q  |       |    |      |    |     |    |
| 56Oc | EIA | A |     | 6928    | S    | Oc  | EL | EL90   | Q  |       |    |      |    |     |    |
| 57Mr | EIA | A |     | 6968    | J    | Mi7 | E  | EF95   | Q  |       |    |      |    |     |    |
| 57Au | EIA | A |     | 6973    | S    | No  | E  | 6CZ5   | B  | 6BW6  | X  |      |    |     |    |
| 3x   |     | A |     | 7000    | J    | Oc  | EP |        |    |       |    |      |    |     |    |
| 58Fe | EIA | A |     | 7025    | C-C  | No  | EP | ECC83  | Q  |       |    |      |    |     |    |
| 58Mr | EIA | A |     | 7027    | ?    | ?   | ?  | ?      |    |       |    |      |    |     |    |
| 57Jn | EIA | A |     | 7036    | 1%   | Mi7 | EP | EH900S | Q  |       |    |      |    |     |    |
| 59Au | EIA | A |     | 7062    | C-C  | No  | E  | E180CC | Q  |       |    |      |    |     |    |
| 62Ap | EIA | A |     | 7119    | C-C  | No  | EP | E182CC | Q  |       |    |      |    |     |    |
| 62Ap | EIA | A |     | 7125    | BF   | No  | EP | EBF89  | Q  |       |    |      |    |     |    |
| 5x   |     | A |     | 7184    | S    | Oc  | EL |        |    |       |    |      |    |     |    |
| 58De | EIA | E |     | 7189 A  | L    | No  | E  | EL84   | Q  | EL84  | B  |      |    |     |    |
| 4x   |     | A |     | 7193    | C    | Oc  | EP | 2C22   | K  |       |    |      |    |     |    |
| 58Oc | EIA | A |     | 7199    | C-J  | No  | EL |        |    |       |    |      |    |     |    |

| DAT1 | QU1    | L | HSL | TYPE   | SYST | SOC | HZ | PLL    | PA | OGTY   | OA | VRG | VA | NFG  | NA |
|------|--------|---|-----|--------|------|-----|----|--------|----|--------|----|-----|----|------|----|
| 58Jl | EIA    | A |     | 7244   | CC   | Mi7 | E  | ECC91  | Q  |        |    |     |    |      |    |
| 60Jn | EIA    | A |     | 7308   | C-C  | No  | E  | E188CC | Q  |        |    |     |    |      |    |
| 59Au | EIA    | A |     | 7316   | C-C  | No  | EP | ECC186 | Q  |        |    |     |    |      |    |
| 59Fe | EIA    | E |     | 7320   | L    | No  | E  | E84L   | Q  |        |    |     |    |      |    |
| 59Jn | EIA    | A |     | 7408   | S    | Oc  | EL | 6V6-GT | B  | 6V6-GT | B  |     |    |      |    |
| 39No | PA     | N | PLP | 7475   | V    | Eu4 | N  |        |    |        |    |     |    |      |    |
| 61Ap | EIA    | A |     | 7489   | C-C  | No  | EP | E82CC  | Q  |        |    |     |    |      |    |
| 61Ap | EIA    | A |     | 7492   | C-C  | No  | EP | E81CC  | Q  |        |    |     |    |      |    |
| 61Ap | EIA    | A |     | 7498   | J    | Mi7 | EP | EF91   | Q  |        |    |     |    |      |    |
| 60Jn | EIA    | A |     | 7534   | S    | Oc  | E  | E130L  | Q  |        |    |     |    |      |    |
| 59Jl | EIA    | A |     | 7543   | J    | Oc  | EP | EF94   | B  |        |    |     |    |      |    |
| 60Ja | EIA    | A |     | 7561   | S    | Oc  | P  |        |    | 25L6   | N  |     |    |      |    |
| 59No | EIA    | A |     | 7581   | S    | Oc  | E  | 6L6-GC | B  | 6L6-GC | B  |     |    |      |    |
| 5x   |        | A |     | 7586   |      |     |    |        |    |        |    |     |    |      |    |
| 60Fe | EIA    | A |     | 7591 A | S    | Oc  | E  |        |    |        |    |     |    |      |    |
| 60My | EIA    | A |     | 7643   | C-J  | No  | E  | E80CF  | Q  |        |    |     |    |      |    |
| 60Jn | EIA    | A |     | 7693   | J    | Mi7 | E  | E90F   | Q  |        |    |     |    |      |    |
| 60Jn | EIA    | A |     | 7694   | F    | Mi7 | EP | E99F   | Q  |        |    |     |    |      |    |
| 3x   |        | A |     | 7700   | J    | U6  | E  |        |    |        |    |     |    |      |    |
| 60Jn | EIA    | A |     | 7722   | J    | No  | E  | E280F  | Q  |        |    |     |    |      |    |
| 60Jl | EIA    | A |     | 7728   | C-C  | No  | EP | ECC81  | Q  |        |    |     |    |      |    |
| 69Jl | EIA    | A |     | 7729   | C-C  | No  | EP | ECC83  | B  |        |    |     |    |      |    |
| 60Jl | EIA    | A |     | 7730   | C-C  | No  | EP | ECC82  | Q  |        |    |     |    |      |    |
| 60Jl | EIA    | A |     | 7731   | C-J  | No  | E  | ECF82  | Q  |        |    |     |    |      |    |
| 60Jl | EIA    | A |     | 7732   | J    | Mi7 | E  | 6CB6   | B  |        |    |     |    |      |    |
| 60Jl | EIA    | A |     | 7733   | S    | No  | E  | EL180  | Q  |        |    |     |    |      |    |
| 63Oc | EIA    | A |     | 7737   | J    | No  | E  | E186F  | Q  |        |    |     |    |      |    |
| 60Jn | EIA    | A |     | 7751   | S    | Oc  | E  | E235L  | Q  |        |    |     |    |      |    |
| 61My | EIA    | A |     | 7788   | J    | No  | E  | E810F  | Q  |        |    |     |    |      |    |
| 63Jl | EIA    | A |     | 8278   | S    | Mno | E  | EL503  | Q  |        |    |     |    |      |    |
| 62No | EIA    | A |     | 8298 A | S t  | Oc  | E  | YL1370 | Q  |        |    |     |    |      |    |
| 63Jl | EIA    | A |     | 8417   | ?    | ?   | ?  |        |    |        |    |     |    |      |    |
| 5x   |        | A |     | 8556   | C    | No  | E  | EC8010 | Q  |        |    |     |    |      |    |
| 5x   |        | A |     | 8562   | C    | No  | E  | E88C   | Q  |        |    |     |    |      |    |
| 6x   |        | A |     | 8823   | ?    | ?   | ?  |        |    |        |    |     |    |      |    |
| 41   | %      | A |     | 9001   | J    | Mi7 | EH |        |    |        |    |     |    |      |    |
| 41   | %      | A |     | 9002   | C    | Mi7 | EH |        |    |        |    |     |    |      |    |
| 41   | %      | A |     | 9003   | J    | Mi7 | EH |        |    |        |    |     |    |      |    |
| 4x   |        | A |     | 9004   | A    | Ac5 | EH |        |    |        |    |     |    |      |    |
| 4x   |        | A |     | 9005   | A    | Ac5 | S  |        |    |        |    |     |    |      |    |
| 4x   |        | A |     | 9006   | Y    | Mi7 | EH |        |    |        |    |     |    |      |    |
| 39Fe | PA     | N | PLP | 13201X | V    | Eu4 | N  |        |    |        |    |     |    |      |    |
| 3x   |        | N | PLP | 13202X | V    | Au5 | N  |        |    |        |    |     |    |      |    |
| 3x   |        | N | PLP | 13204X | V    | Au8 | N  |        |    |        |    |     |    |      |    |
| 49Oc | 49RM10 | E | PLP | 18040  | J    | No  | S  |        |    |        |    |     |    |      |    |
| 50My | 50FT09 | W | VAL | 18042  | J    | No  | SU | E83F   | H  |        |    |     |    |      |    |
| 52No | 52FT21 | W | VAL | 18046  | L    | No  | SU | E81L   | H  |        |    |     |    |      |    |
| 60Fe | PA     | N | PLP | 56001  | A    | Ri  | DS |        |    |        |    |     |    |      |    |
| 25   | DRM    | D | TFK | A      | C    |     |    |        |    |        |    |     |    | RE71 |    |
| 19Jl | PA     | N | PLP | A      | C    |     | O  |        |    |        |    |     |    |      |    |
| 27   | %      | A | ARC | A22    | C    | U4  | S  |        |    |        |    |     |    |      |    |
| 27   | %      | A | ARC | A26    | C    | U4  | S  | 26     | #  |        |    |     |    |      |    |
| 27   | %      | A | ARC | A28    | C    | U4  | S  | 28     | #  |        |    |     |    |      |    |
| 27   | %      | A | ARC | A30    | D    | U4  | S  |        |    |        |    |     |    |      |    |
| 27   | %      | A | ARC | A40    | D    | U4  | S  | S01    | K  |        |    |     |    |      |    |
| 27   | %      | A | ARC | A48    | C    | U4  | S  | 48     | K  |        |    |     |    |      |    |
| 24>  | %      | N | PLP | A106   | C    | Eu4 | S  |        |    |        |    |     |    |      |    |
| 25De | PA     | N | PLP | A109   | C    | Eu4 | S  | RE061  | K  |        |    |     |    |      |    |
| 24   | %      | N | PLP | A110   | C    | Eu4 | S  |        |    |        |    |     |    |      |    |
| 25Mr | PA     | N | PLP | A104   | C    | Eu4 | Y  |        |    |        |    |     |    |      |    |
| 25   | %      | N | PLP | A125   | C    | Eu4 | S  |        |    |        |    |     |    |      |    |
| 28Jn | PA     | N | PLP | A135   | C    | Eu4 | Y  |        |    |        |    |     |    |      |    |
| 24>  | %      | N | PLP | A141   | E    | Eu4 | S  | RE82   | N  |        |    |     |    |      |    |

| DAT1 | QU1    | L | HSL | TYPE     | SYST | SOC | HZ | PLL    | PA | OGTY   | OA | VRG    | VA     | NFG    | NA     |   |
|------|--------|---|-----|----------|------|-----|----|--------|----|--------|----|--------|--------|--------|--------|---|
| 25   | %      | N | PLP | A203     | D    | Eu4 | K  |        |    |        |    |        |        |        |        |   |
| 26   | %      | N | PLP | A203     | D    | Eu4 | K  |        |    |        |    |        |        |        |        |   |
| 25Jn | PA     | N | PLP | A205     | D    | Eu4 | K  |        |    |        |    |        |        |        |        |   |
| 25   | %      | N | PLP | A206     | C    | Eu4 | K  | RE062  | K  |        |    |        |        |        |        |   |
| 25De | PA     | N | PLP | A209     | C    | Eu4 | K  |        |    |        |    |        |        |        |        |   |
| 25   | %      | N | PLP | A210     | C    | Eu4 | K  |        |    |        |    |        |        |        |        |   |
| 28Jl | 28FB32 |   |     | A216     | C    |     |    |        |    |        |    |        |        |        |        |   |
| 26No | PA     | N | PLP | A225     | C    | Eu4 | K  |        |    |        |    |        |        |        |        |   |
| 27Sp | PA     | N | PLP | A235     | C    | Eu4 | K  |        |    |        |    |        |        |        |        |   |
| 27Sp | PA     | N | PLP | A235     | C    | Eu4 | K  |        |    |        |    |        |        |        |        |   |
| 27Sp | PA     | N | PLP | A235     | C    | Eu4 | K  |        |    |        |    |        |        |        |        |   |
| 25De | PA     | N | PLP | A241     | E    | Eu4 | S  |        |    |        |    |        |        |        |        |   |
| 29<  | 29FB09 | D | SBT | A250     | X    | Eu4 | N  |        |    |        |    |        |        |        |        |   |
| 25   | %      | N | PLP | A303     | C    | Eu4 | S  |        |    |        |    |        |        |        |        |   |
| 25Au | PA     | N | PLP | A306     | C    | Eu4 | O  |        |    |        |    |        |        |        |        |   |
| 24No | PA     | N | PLP | A310     | C    | Eu4 | S  |        |    |        |    |        |        |        |        |   |
| 25Au | PA     | N | PLP | A341     | E    | Eu4 | S  |        |    |        |    |        |        |        |        |   |
| 25Mr | PA     | N | PLP | A404     | C    | Eu4 | A  |        |    |        |    |        |        |        |        |   |
| 25Fe | PA     | N | PLP | A406     | C    | Eu4 | A  |        |    |        |    |        |        | A415   |        |   |
| 27Sp | 27FB39 | D | VAL | A408     | C    | Eu4 | O  | RE084  | K  | A415   | =  |        |        |        |        |   |
| 26Ja | PA     | N | PLP | A409     | C    | Eu4 | O  | RE074  | K  |        |    |        |        | A415   |        |   |
| 25Mr | PA     | N | PLP | A410     | C    | Eu4 | O  |        |    | B415   | N  |        |        | A425   |        |   |
| 31Oc | PA     | N | PLP | A410N    | C    | Eu4 | O  |        |    |        |    |        |        |        |        |   |
| 31Au | 31FB33 | E | PLP | A411     | C    | Eu4 | O  |        |    | B424   | =  |        |        |        |        |   |
| 31Oc | PA     | N | PLP | A414     | C    | Eu4 | O  |        |    |        |    |        |        |        |        |   |
| 31Oc | PA     | N | PLP | A414K    | C    | Eu4 | O  |        |    |        |    |        |        |        |        |   |
| 27My | PA     | N | PLP | A415     | C    | Eu4 | O  |        |    |        |    | A409   |        | B424   |        |   |
| 31Oc | PA     | N | PLP | A416     | C    | Eu4 | O  |        |    |        |    |        |        |        |        |   |
| 26My | PA     | N | PLP | A425     | C    | Eu4 | O  |        |    |        |    | A410   |        | B438   |        |   |
| 27Ja | PA     | N | PLP | A430     | C    | Eu4 | O  |        |    |        |    |        |        |        |        |   |
| 28Jn | PA     | N | PLP | A435     | C    | Eu4 | O  |        |    |        |    |        |        |        |        |   |
| 25Mr | PA     | N | PLP | A441     | E    | Eu4 | O  |        |    |        |    |        |        |        |        |   |
| 29Sp | PA     | N | PLP | A441 N   | E    | Eu4 | O  | RE074d | K  |        |    |        |        |        |        |   |
| 27Sp | PA     | N | PLP | A442     | C    | Eu4 | O  | RES094 | K  |        |    |        |        | B442   |        |   |
| 32Sp | PA     | N | PLP | A442K    | E    | Eu4 | O  |        |    |        |    |        |        | B442   |        |   |
| 31Oc | PA     | N | PLP | A442R    | C    | Eu4 | O  | RE094  | K  |        |    | A442   |        |        |        |   |
| 31   | 31FB41 | O | OST | A520     | C    | Eu5 | S* |        |    |        |    |        |        |        |        |   |
| 26   | %      | N | PLP | A605     |      |     |    |        |    |        |    |        |        |        |        |   |
| 26   | %      | N | PLP | A609     | C    | Eu4 | E  |        |    |        |    |        |        |        |        |   |
| 31No | PA     | N | PLP | A615     | C    | Eu4 | E  |        |    |        |    |        |        |        |        |   |
| 27De | PA     | N | PLP | A630     | C    | Eu4 | E  |        |    |        |    |        |        |        |        |   |
| 27De | PA     | N | PLP | A635     | C    | Eu4 | E  |        |    |        |    |        |        |        |        |   |
| 33Ap | PA     | N | PLP | A642     | E    | Eu4 | E  |        |    |        |    |        |        |        |        |   |
| 31   | VV40   | D | VAL | A2118    | C    | Eu5 | B  | R_1821 | K  | B2038  | =  |        |        |        |        |   |
| 27Sp | 27FB39 | D | VAL | A2200W   | D    | Eu4 | Ji |        |    | F215   | =  |        |        |        |        |   |
| 28   | VV40   | D | VAL | A4100    | C    | Eu5 | A  | REN804 | K  | E415   | C  |        |        |        |        |   |
| 29   | %'     | D | VAL | A4110    | C    | Eu5 | A  | REN904 | K  | E424N  | =  |        |        |        |        |   |
| 28Jl | 28FB31 | D | DEL | AltronKN | C    |     |    |        |    |        |    |        |        |        |        |   |
| 28Jl | 28FB31 | D | DEL | AltroKAH | C    |     |    |        |    |        |    |        |        |        |        |   |
| 28Jl | 28FB31 | D | DEL | AltronLN | C    |     |    |        |    |        |    |        |        |        |        |   |
| 28Jl | 28FB31 | D | DEL | AltroLAH | C    |     |    |        |    |        |    |        |        |        |        |   |
| 28Jl | 28FB31 | D | IDL | AmpladIV | C    | Eu4 | O  |        |    |        |    |        |        |        |        |   |
| 34Mr | PBD13  | E | GEM | AB1      | B    | Eu5 | A  | BB1    | H  | G-2-S  | U  |        | &      | AB2    | S      |   |
| 35Mr | PBD24  | E | GEM | AB2      | B    | Au5 | A  | CB2    | H  | AB1    | S  | AB1    | S      | EB4    | U      |   |
| 35Mr | PBD24  | E | GEM | ABC1     | BC   | Au8 | A  | CBC1   | H  | 55     | N  | REN924 | U      | EBC3   | Z      |   |
| 37Sp | PA     | E | GEM | ABL1     | BL   | Au8 | A  | EBL1   | H  | AL4    | E  |        | [      | EBL1   | H      |   |
| 35Mr | PBD24  | E | GEM | AC2      | C    | Au8 | A  | CC2    | H  | REN904 | U  | REN904 | U      | EF6    | P      |   |
| 55Sp | 55FS18 | W | TFK | AC701    | C    | Sm3 | A  |        |    |        |    | [      | CF50   | N      | AC701k | F |
| 60Fe | 60FS04 | W | TFK | AC701k   | C    | Sm3 | A  |        |    | AC701  | F  | AC701  | F      |        | ]      |   |
| 34   | TF50   | D | TFK | ACH1     | G    | Hx7 | A  | ACH1C  | K  |        |    | [      | R_1224 | Y      | ECH11  | U |
| 39<  |        |   | TRM | ACH1v 3  | G    | Au8 | A  | ACH1   | S  | ACH1   | S  |        |        | ECH3   | Z      |   |
| 39<  |        | D | TFK | ACH1C    | G    | Au8 | A  | ACH1   | S  |        |    |        |        |        |        |   |
| 36Fe | PA     | E | GEM | AD1      | D    | Au8 | O  | 4683   | G  | 2A3    | R  | RE604  | N      | ED8000 | N      |   |

| DAT1 | QU1    | L | HSL | TYPE   | SYST | SOC | HZ | PLL    | PA | OGTY   | OA | VRG    | VA | NFG   | NA |
|------|--------|---|-----|--------|------|-----|----|--------|----|--------|----|--------|----|-------|----|
| 34Mr | PBD13  | N | PLP | AF2    | F    | Eu5 | A  |        |    | E477   | C  | E447   | C  | AF3   | U  |
| 35Mr | PBD24  | E | GEM | AF3    | F    | Au8 | A  | CF3    | H  |        |    | R_1294 | U  | EF5   | Z  |
| 35Mr | PBD24  | E | GEM | AF7    | J    | Au8 | A  | CF7    | H  |        |    | R_1284 | U  | EF6   | Z  |
| 2x   |        | H | TRM | AG495  | C    | Eu5 | A  | REN904 | K  |        |    |        |    |       |    |
| 35Mr | PBD24  | E | GEM | AH1    | H    | Au8 | A  | CH1    | H  |        |    | R_1234 | U  | EH2   | Z  |
| 28Jl | 28FB31 | D | GRA | AHW4   | C    | Eu4 | O  |        |    |        |    |        |    |       |    |
| 34Mr | PBD13  | E | PLP | AK1    | K    | Hx7 | A  | CK1    | R  | 2A7    | U  | R_1224 | Y  | AK2   | S  |
| 35Mr | PBD24  | E | GEM | AK2    | K    | Au8 | A  | CK1    | H  | AK1    | S  | AK1    | S  | EK2   | Z  |
| 35Mr | PBD24  | E | GEM | AL1    | L    | Au8 | O  |        |    | E443H  | S  | RES964 | S  | AL4   | O  |
| 35Mr | PBD24  | E | PLP | AL2    | L    | Au8 | A  |        |    | 42     | U  | E463   | U  | AL4   | O  |
| 35De | HLR    | E | PLP | AL3    | L    | Au8 | A  |        |    |        | [  | AL2    | Z  | AL4   | O  |
| 36Fe | PA     | E | GEM | AL4    | L    | Au8 | A  | EL3N   | H  | AL3    | Z  | AL3    | O  | EL11  | R  |
| 36Ap | PBD35  | E | GEM | AL5    | L    | Au8 | A  | EL5    | H  | 6L6    | R  |        |    | EL12  | U  |
| 36My | PBD36  | E | PLP | AM1    | MC   | Au8 | A  | EM1    | H  | 6E5    | U  | 4677   | #  | EM4   | U  |
| 37Jn | PA     | D | TFK | AM2    | MC   | Au8 | A  | C/EM2  | H  | AM1    | C  |        | [  | EFM11 | Y  |
| 33   | %'     | D | VAL | AN2127 | AE   | Hx6 | A  | R_1854 | K  | B2044  | =  |        |    |       |    |
| 33   | %'     | D | VAL | AN2718 | AC   | Eu5 | A  | R_1826 | K  | 2044S  | =  |        |    |       |    |
| 33   | %'     | D | VAL | AN4092 | AC   | Eu5 | A  | REN924 | K  | E444S  | =  |        |    |       |    |
| 33   | %'     | D | VAL | AN4126 | AE   | Hx6 | A  | R_1254 | K  | E444   | =  |        |    |       |    |
| 28Jl | 28FB31 | D | GRA | ANL4   | C    | Eu4 | O  |        |    |        |    |        |    |       |    |
| 23   | 57FG30 | D | LWO | AR23   | C    | Eu4 | O  | RE71   | N  |        |    |        |    |       |    |
| 25   | %      | D | LWO | AR23   | C    | Eu4 | O  | RE71   | K  |        |    |        |    |       |    |
| 26<  | %      | D | LWO | AR23   | C    | Eu4 | O  |        |    |        |    |        |    |       |    |
| 4x   |        | G | MZE | ATP4   | L    | SpS | K  |        |    |        |    |        |    |       |    |
| 35Oc | PA     | E | PLP | AX1    | X    | Eu4 | A  | 82     | Q  | 82     | U  |        |    |       | ]  |
| 38Oc | PB2    | E | PLP | AX50   | X    | Eu4 | A  | 83     | Q  | 83     | U  |        |    |       | ]  |
| 35Mr | PBD24  | E | GEM | AZ1    | Z    | Au8 | O  |        |    | R_1064 | S  | R_1064 | S  | AZ11  | S  |
| 3x   |        | E | PLP | AZ2    | Z    | Au8 | O  |        |    | R_2004 | S  | R_2004 | S  | AZ4   | Z  |
| 38>  |        | E | PLP | AZ3    | Z    | Au8 | A  | 1883   | W  | 5Z4    | U  | 1561   | N  | EZ81  | N  |
| 38My | PBD-S  | E | PLP | AZ4    | Z    | Au8 | O  | AZ12   | K  | AZ2    | Z  | AZ2    | Z  | GZ32  | N  |
| 38   | DRM    | D | TFK | AZ11   | Z    | St8 | O  | AZ21   | S  | AZ1    | S  | AZ1    | S  | AZ41  | N  |
| 38   | DRM    | D | TFK | AZ12   | Z    | St8 | O  | AZ4    | K  | R_2004 | R  | R_2004 | R  | GZ32  | N  |
| 41Jl | 41RM07 | O | TRM | AZ21   | Z    | Lo8 | Om | AZ11   | K  | AZ1    | T  | AZ1    | T  | AZ41  | U  |
| 40<  | PA     | N | PLP | AZ21°  | Z    | Lo9 | Om |        |    |        |    | AZ1    | T  | AZ21  | U  |
| 38   | HBV    | G | MUL | AZ31   | Z    | Oc  | O  | AZ1    | Q  | AZ1    | S  | AZ1    | S  |       |    |
| 38   | HBV    | G | MUL | AZ32   | Z    | Oc  | O  | AZ2    | Q  | AZ2    | S  | AZ2    | S  | GZ32  | N  |
| 47My | PA     | E | PLP | AZ41   | Z    | Ri  | Om | EZ40   | O  | AZ1    | U  | AZ1    | U  | EZ40  | O  |
| 39Jn | PA     |   |     | AZ50   | Z    | Eu4 | A  |        |    |        |    |        |    |       |    |
| 19Jl | PA     | N | PLP | B      | C    |     | K  |        |    |        |    |        |    |       |    |
| 22>  | %      | N | PLP | B I    | D    | SpS | O  | B 1    | #  |        |    |        |    |       |    |
| 22>  | PA     | N | PLP | B II   | C    | Eu4 | M  | B 2    | #  |        |    |        |    |       |    |
| 22>  | %      | N | PLP | B III  |      |     |    |        |    |        |    |        |    |       |    |
| 22>  | %      | N | PLP | B VI   | E    | Eu4 | M  | B 6    | #  |        |    |        |    | A241  |    |
| 27Mr | 27FB14 | N | PLP | B105   | D    | Eu4 | Y  | RE601  | K  |        |    |        |    |       |    |
| 29<  | 29FB09 | D | SBT | B200   | X    | Eu4 | N  |        |    |        |    |        |    |       |    |
| 27Mr | PA     | N | PLP | B203   | C    | Eu4 | K  |        |    |        |    |        |    |       |    |
| 25De | PA     | N | PLP | B205   | D    | Eu4 | K  | RE122  | K  |        |    |        |    |       |    |
| 35<  | PA     | N | PLP | B217   | C    | Eu4 | K  | RE112  | K  |        |    |        |    |       |    |
| 35<  | PA     | N | PLP | B228   | C    | Eu4 | K  | RE109  | K  |        |    |        |    |       |    |
| 35<  | PA     | N | PLP | B240   | CC   | Hx6 | K  | RE402B |    |        |    |        |    |       |    |
| 33Ap | PA     | N | PLP | B242   | E    | Eu4 | K  |        |    |        |    |        |    |       |    |
| 31   | %'     | N | PLP | B255   | E°   | Eu4 | K  | RES192 | K  |        |    |        |    |       |    |
| 2x   |        | N | PLP | B262   | E    | Eu4 | K  | RES182 | K  |        |    |        |    |       |    |
| 26My | PA     | N | PLP | B403   | D    | Eu4 | O  |        |    |        |    |        |    | B409  |    |
| 25Mr | PA     | N | PLP | B406   | C    | Eu4 | O  | RE114  | K  |        |    |        |    | B443  |    |
| 33Ap | PA     | N | PLP | B408N  | D    | Eu4 | O  |        |    |        |    |        |    |       |    |
| 30Ap | PA     | N | PLP | B415   | C    | Eu4 | O  |        |    |        |    |        |    |       |    |
| 27Sp | %      | N | PLP | B424   | C    | Eu4 | O  |        |    |        |    | A415   |    |       |    |
| 30Ap | PA     | N | PLP | B425   | C    | Eu4 | O  |        |    |        |    |        |    |       |    |
| 31Mr | PA     | N | PLP | B426   | C    | Eu4 | O  |        |    |        |    |        |    |       |    |
| 30   | VV40   | N | PLP | B438   | C    | Eu4 | O  |        |    |        |    | A425   |    |       |    |
| 27Sp | %      | N | PLP | B442   | E    | Eu4 | O  | RES044 | K  |        |    | A442   |    |       |    |
| 3x   |        | N | PLP | B442M  | E    | Eu5 | A  | E442S  |    |        |    |        |    |       |    |

| DAT1 | QU1    | L | HSL | TYPE   | SYST | SOC | HZ | PLL    | PA | OGTY | OA | VRG    | VA     | NFG   | NA    |
|------|--------|---|-----|--------|------|-----|----|--------|----|------|----|--------|--------|-------|-------|
| 27Sp | PA     | N | PLP | B443   | L    | Eu5 | O  | R_174d | K  |      | [  | B406   | [      | C443  | >     |
| 30   | VV40   | N | PLP | B443S  | L    | Eu5 | O  | R_164d | K  |      |    |        |        |       |       |
| 29No | PA     | N | PLP | B543   | L    | Eu4 | Gd | RES105 | K  |      |    |        |        |       |       |
| 27My | PA     | N | PLP | B605   | D    | Eu4 | E  |        |    |      |    |        |        |       |       |
| 31No | PA     | N | PLP | B2006  | D    | Eu5 | B  | R_1822 | K  |      |    |        |        | B2043 | Y     |
| 31No | PA     | N | PLP | B2038  | C    | Eu5 | B  | R_1821 | K  |      |    |        |        |       |       |
| 32   | %'     | N | PLP | B2041  | E    | Eu5 | B  | R_1817 | K  |      |    |        |        |       |       |
| 31No | PA     | N | PLP | B2042  | E    | Eu5 | B  | R_1820 | K  |      |    |        |        |       |       |
| 31No | PA     | N | PLP | B2043  | L    | Eu5 | B  | R_1823 | K  |      |    |        |        |       |       |
| 33Ap | PBD06  | N | PLP | B2044  | AE   | Hx6 | B  | R_1854 | K  |      |    |        |        |       |       |
| 33Ap | PBD06  | N | PLP | B2044S | AC   | Eu5 | B  | R_1826 | K  |      |    |        |        |       |       |
| 31   | %      | N | PLP | B2045  | E°   | Eu5 | B  | R_1819 | K  | 551  | N  |        |        | &     |       |
| 33Ap | PBD06  | N | PLP | B2046  | J    | Eu5 | B  | R_1884 | K  |      |    |        |        |       |       |
| 33Ap | PBD06  | N | PLP | B2047  | F    | Eu5 | B  | R_1894 | K  |      |    |        |        |       |       |
| 33Ap | PBD06  | N | PLP | B2048  | H%   | Hx7 | B  | R_1824 | K  |      |    |        |        |       |       |
| 33Ap | PBD06  | N | PLP | B2049  | H    | Hx7 | B  | R_1834 | K  |      |    |        |        |       |       |
| 32   | %'     | N | PLP | B2052T | E    | Eu5 | B  | R_1818 | K  |      |    |        |        |       |       |
| 33Oc | PA     | N | PLP | B2099  | C    | Eu5 | B  | R_1814 | K  |      |    |        |        |       |       |
| 34   | DRM    | E | GEM | BB1    | B    | Eu5 | B  | CB1    | R  | AB1  | H  |        |        | &     | CB2 R |
| 34   | DRM    | D | TFK | BCH1   | G    | Hx7 | B  | ACH1   | H  | ACH1 | H  | R_1824 | Y      | CCH1  | R     |
| 22?  | %      | D | SIM | BE     | C    | SpS | S  |        |    |      |    |        |        |       |       |
| 20   | %      | D | SIM | BF     | C    | SpS | O  |        |    |      |    |        |        |       |       |
| 34   | DRM    | E | GEM | BL2    | L    | Eu5 | B  | CL2    | R  |      |    | &      | R_1823 | O     | CL6 U |
| 26   | %      | D | SIM | BO     | C    | SpS | S  |        |    |      |    |        |        |       |       |
| 19Jl | PA     | N | PLP | C      | C    |     | O  |        |    |      |    |        |        |       |       |
| 19Jl | PA     | N | PLP | C      | C    |     | O  |        |    |      |    |        |        |       |       |
| 20   | PA     | N | PLP | C I    | C    |     |    |        |    |      |    |        |        |       |       |
| 34Jl | PA     | N | PLP | C1     | R    | Au8 | C  |        |    |      |    |        |        |       |       |
| 20   | PA     | N | PLP | C II   | C    |     |    |        |    |      |    |        |        |       |       |
| 34Sp | PA     | N | PLP | C2     | R    | Au8 | C  |        |    |      |    |        |        |       |       |
| 34Sp | PA     | N | PLP | C3     | R    | Au8 | C  |        |    |      |    |        |        |       |       |
| 3x   |        | D | AEG | C3d    | J    | SpS | S  |        |    |      |    |        |        |       |       |
| 5x   |        | W | SIM | C3m    | L    | Lo8 | S  |        |    |      |    |        |        |       |       |
| 39My | PA     | N | PLP | C8     | R    | Au8 | C  |        |    |      |    |        |        |       |       |
| 39My | PA     | N | PLP | C9     | R    | Au8 | C  |        |    |      |    |        |        |       |       |
| 39My | PA     | N | PLP | C10    | R    | Au8 | C  |        |    |      |    |        |        |       |       |
| 39My | PA     | N | PLP | C12    | R    | Au8 | C  |        |    |      |    |        |        |       |       |
| 28No | PA     | N | PLP | C109   | C    | Eu4 | Y  |        |    |      |    |        |        |       |       |
| 29Oc | PA     | N | PLP | C125   | C    | Eu4 | Y  |        |    |      |    |        |        |       |       |
| 28No | PA     | N | PLP | C135   | C    | Eu4 | D  |        |    |      |    |        |        |       |       |
| 27Sp | PA     | N | PLP | C142   | E    | Eu4 | D  |        |    |      |    |        |        |       |       |
| 35<  | PA     | N | PLP | C243N  | L    | Eu5 | K  |        |    |      |    |        |        |       |       |
| 29<  | 29FB09 | D | SBT | C300   | X    | Eu4 | N  |        |    |      |    |        |        |       |       |
| 27   | %      | A | CGH | C326   |      |     |    |        |    |      |    |        |        |       |       |
| 28   |        | N | PLP | C405   | D    | Eu4 | O  | RE304  | K  |      |    |        |        |       |       |
| 28No | PA     | N | PLP | C443   | L    | Eu5 | O  | R_374d | K  |      |    | B443   |        | E443  |       |
| 31Oc | PA     | N | PLP | C443N  | L    | Eu5 | O  | RES374 | K  |      |    |        |        |       |       |
| 32Au | PA     | N | PLP | C453   | L    | Eu5 | O  |        |    |      |    |        |        |       |       |
| 25De | PA     | N | PLP | C509   | D    | U4  | G  |        |    |      |    |        |        |       |       |
| 26   | %      | N | PLP | C603   | D    | Eu4 | S  |        |    |      |    |        |        |       |       |
| 26   | %      | N | PLP | C606   | D    | Eu4 | S  |        |    |      |    |        |        |       |       |
| 29No | PA     | N | PLP | C643   | L    | Eu5 | E  |        |    |      |    |        |        |       |       |
| 26No | PA     | N | PLP | C0805  | R?   |     |    |        |    |      |    |        |        |       |       |
| 40<  | PA     | N | PLP | CABL21 | ABL  | Lo9 | C  | EABL21 | Z  | CBL1 | E  | CBL 1  | E      | UBL21 | U     |
| 34Mr | PBD13  | E | GEM | CB1    | B    | Au5 | CF | BB1    | R  | AB1  | R  |        |        | CB2   | V     |
| 35Mr | PBD24  | E | GEM | CB2    | B    | Au5 | CF | AB2    | H  | AB2  | H  | CB 1   | V      | EB4   | R     |
| 35Mr | PBD24  | E | GEM | CBC1   | BC   | Au8 | CF | ABC1   | H  | ABC1 | H  | R_1826 | U      | EBC3  | Z     |
| 37Mr | HLR    | E | GEM | CBL1   | BL   | Au8 | C  | EBL1   | Z  | EBL1 | Z  | [      |        | UBL1  | U     |
| 39   |        | E | GEM | CBL6   | BL   | Au8 | C  |        |    | CL6  | E  | CBL 1  | C      | UBL1  | U     |
| 35Mr | PBD24  | E | GEM | CC2    | C    | Au8 | CF | AC2    | H  | AC2  | H  | R_1821 | U      | EF6   | P     |
| 38   | DRM    | D | TFK | CCH1   | G    | Au8 | C  | BCH1   | R  | ACH1 | R  | BCH 1  | R      | ECH11 | O     |
| 38Jn | PA     | G |     | CCH2   | O    | Au8 | C  | ECH2   | H  | ECH2 | H  | CK 1   | Y      | ECH3  | N     |
| 34Mr | PBD13  | N | PLP | CF1    | J    | Au8 | CF | EF1    | H  |      |    | B2046  | R      | CF7   | C     |

| DAT1 | QU1    | L | HSL | TYPE               | SYST | SOC | HZ | PLL   | PA | OGTY | OA | VRG    | VA | NFG   | NA |
|------|--------|---|-----|--------------------|------|-----|----|-------|----|------|----|--------|----|-------|----|
| 34Mr | PBD13  | E | PLP | CF2                | F    | Au8 | CF | EF2   | H  |      |    | B2047  | U  | CF3   | C  |
| 35Mr | PBD24  | E | GEM | CF3                | F    | Au8 | CF | AF3   | H  | AF3  | H  | CF 2   | C  | EF5   | Z  |
| 35Mr | PBD24  | E | GEM | CF7                | J    | Au8 | CF | AF7   | H  | AF7  | H  | CF 1   | C  | EF6   | Z  |
| 39Mr | PB2    | E | PLP | CF50               | J    | Au8 | C  |       | %  |      | %  |        |    | AC701 | N  |
| 35Mr | PBD24  | E | GEM | CH1                | H    | Au8 | CF | AH1   | H  | AH1  | H  | R_1234 | U  | EH2   | Z  |
| 34Mr | PBD13  | E | GEM | CK1                | K    | Au8 | CF | AK1   | R  | AK1  | R  | R_1224 | Y  | EK2   | Z  |
| 38Ap | PB2    | E | PLP | CK3                | U*   | Au8 | C  | 12K8  | Q  | EK3  | H  | EK 2   | Y  | ECH3  | Y  |
| 4x   |        | A | RAY | CK502              | J    |     |    |       |    |      |    |        |    |       |    |
| 34Mr | PBD13  | E | GEM | CL1                | L    | Au8 | CF | EL1   | H  | 41   | R  | R_1823 | U  | CL4   | Z  |
| 34Mr | PBD13  | E | GEM | CL2                | L    | Au8 | C  | BL2   | R  | BL2  | R  | R@1823 | N  | CL6   | C  |
| 36Fe | PA     | E | GEM | CL4                | L    | Au8 | C  |       |    | AL4  | Z  | CL 1   | Z  | UCL11 | N  |
| 38Fe | PA     | E | PLP | CL6                | L    | Au8 | C  | CBL6  | M  | CL4  | Z  | CL 2   | Z  | UBL1  | N  |
| 37Jl | %      | D | GEM | C/EM2              | MC   | Au8 | CE | AM2   | H  | 6E5  | U  |        | [  | EFM1  | Y  |
| 34Mr | PBD13  | E | GEM | CY1                | Y    | Au8 | C  |       |    | 12Z3 | U  |        | &  | CY2   | M  |
| 34Mr | PBD13  | E | GEM | CY2                | YY   | Au8 | C  |       |    | 25Z5 | U  | CY 1   | &  | UY1   | U  |
| 40<  | PA     | N | PLP | CY21               | Y    | Lo9 | C  |       |    | CY1  | U  | CY1    | U  | UY21  | R  |
| 22Ap | PA     | N | PLP | D                  | C    | Eu4 | O  |       |    |      |    |        |    |       |    |
| 21Au | PA     | N | PLP | D I                | C    | Eu4 | O  | D 1   | #  |      |    |        |    |       |    |
| 21Au | PA     | N | PLP | D II               | C    | Eu4 | O  | D 2   | #  |      |    |        |    |       |    |
| 221  | PA     | N | PLP | D III              | C    | TFK | T  | RE11  | K  |      |    |        |    |       |    |
| 24Ja | PA     | N | PLP | D IV               | C    | U4  | O  |       |    |      |    |        |    |       |    |
| 24Ja | PA     | N | PLP | D V                | C    | U4  | O  |       |    |      |    |        |    |       |    |
| 23   | 63FG35 | N | PLP | D VI               | E    | Eu4 | O  | D 6   | #  | Q    | #  | Q      | #  |       |    |
| 27   | %      | A | DFR | D01A               |      |     |    |       |    |      |    |        |    |       |    |
| 39Sp | PA     | N | PLP | D1C                | C    | Ac5 | EH |       |    | 957  | Q  |        |    |       |    |
| 40Au | PA     | N | PLP | D1F                | J    | Ac5 | EH | D11F  | F  |      | Q  |        |    |       |    |
| 40No | PA     | N | PLP | D2F                | F    | Ac5 | EH | D12F  | F  |      | Q  |        |    |       |    |
| 39Sp | PA     | N | PLP | D3F                | F    | Ac7 | EC |       |    | 959  | Q  |        |    |       |    |
| 28No | PA     | N | PLP | D105               | D    | Eu4 | Y  |       |    |      |    |        |    |       |    |
| 27   | NHV923 | E | PLP | D143               | L    | Eu4 | D  |       |    |      |    |        | [  |       |    |
| 29Oc | PA     | N | PLP | D404               | D    | Eu4 | A  | RE604 | K  |      |    |        |    | AD1   | U  |
| 3x   |        | H | TRM | D418               | A    | Eu4 | AB | AB1   | N  |      |    |        |    |       |    |
| 29<  | 29FB09 | D | SBT | D500               | X    | Eu4 | N  |       |    |      |    |        |    |       |    |
| 28Jl | 28FB31 | D | DEL | D05/2              | C    |     |    |       |    |      |    |        |    |       |    |
| 28Jl | 28FB31 | D | DEL | D05/4              | C    |     |    |       |    |      |    |        |    |       |    |
| 28Jl | 28FB31 | D | DEL | D10/2              | C    |     |    |       |    |      |    |        |    |       |    |
| 28Jl | 28FB31 | D | DEL | D10/4              | C    |     |    |       |    |      |    |        |    |       |    |
| 28Jl | 28FB31 | D | DEL | D20/2              | C    |     |    |       |    |      |    |        |    |       |    |
| 28Jl | 28FB31 | D | DEL | D20/4              | C    |     |    |       |    |      |    |        |    |       |    |
| 28Jl | 28FB31 | D | DEL | Dreifach           | CCC  |     |    |       |    |      |    |        |    |       |    |
| 27Sp | 27FB39 | D | ULT | Dreir1-2           | C    | Eu4 | K  |       |    |      |    |        |    |       |    |
| 27Sp | 27FB39 | D | ULT | Dreir1-4           | C    | Eu4 | O  |       |    |      |    |        |    |       |    |
| 27Sp | 27FB39 | D | ULT | Dreir2-2           | C    | Eu4 | K  |       |    |      |    |        |    |       |    |
| 27Sp | 27FB39 | D | ULT | Dreir2-4           | C    | Eu4 | O  |       |    |      |    |        |    |       |    |
| 27Sp | 27FB39 | D | ULT | Dreir3-2           | C    | Eu4 | K  |       |    |      |    |        |    |       |    |
| 27Sp | 27FB39 | D | ULT | Dreir3-4           | C    | Eu4 | O  |       |    |      |    |        |    |       |    |
| 27Sp | 27FB39 | D | ULT | Duotro2A           | CC   | SpS | K  |       |    |      |    |        |    |       |    |
| 27Sp | 27FB39 | D | ULT | Duotro2E           | CD   | SpS | K  |       |    |      |    |        |    |       |    |
| 27Sp | 27FB39 | D | ULT | Duotro2W           | CC   | SpS | K  |       |    |      |    |        |    |       |    |
| 27Sp | 27FB39 | D | ULT | Duotro4A           | CC   | SpS | O  |       |    |      |    |        |    |       |    |
| 27Sp | 27FB39 | D | ULT | Duotro4E           | CD   | SpS | O  |       |    |      |    |        |    |       |    |
| 27Sp | 27FB39 | D | ULT | Duotro4W           | CC   | SpS | O  |       |    |      |    |        |    |       |    |
| 5x   |        | W | VAL | DA50               | A    | SpA | D  |       |    |      |    |        |    |       |    |
| 5x   |        | N | PLP | DA90               | A    | Mi7 | Di |       |    |      |    |        |    |       |    |
| 49Sp | 49RM09 | E | TRM | DA101              | A    | Mi7 | D  |       |    |      |    |        |    |       |    |
| 41Ap | 41RM04 | E | PLP | DAC21              | AC   | Oc  | D  |       |    |      |    | KBC1   | U  | DAF41 | T  |
| 40<  | PA     | N | PLP | DAC21 <sup>9</sup> | AC   | Lo9 | D  |       |    |      |    | KBC1   | U  | DAC21 | S  |
| 41Mr | PA     | E | PLP | DAC22              | AC   | Lo8 | D  |       |    |      |    |        |    |       |    |
| 43Mr | 43RM03 | E | VAL | DAC25              | AC   | Lo8 | D  |       |    |      |    |        |    |       |    |
| 4x   |        | E | PLP | DAC31              | AC   | Oc  | D  |       |    |      |    |        |    |       |    |
| 4x   |        | G | MUL | DAC32              | AC   | Oc  | D  |       |    |      |    |        |    |       |    |
| 49   | DRM    | D | TFK | DAF11              | AF   | St8 | D  |       |    |      |    |        |    |       |    |
| 4x   |        | E | TRM | DAF26              | AJ   | Lo8 | D  | DAF91 | S  |      |    |        |    |       |    |

| DAT1 | QU1    | L | HSL | TYPE               | SYST | SOC | HZ | PLL   | PA | OGTY   | OA | VRG   | VA | NFG   | NA |
|------|--------|---|-----|--------------------|------|-----|----|-------|----|--------|----|-------|----|-------|----|
| 48No | PB3A   | N | PLP | DAF40              | AF   | Ri  | D  |       |    |        |    |       |    |       |    |
| 48De | PA     | N | PLP | DAF41              | AJ   | Ri  | D  |       |    |        |    | DAC21 | T  |       |    |
| 48No | PB3A   | N | PLP | DAF91              | AJ   | Mi7 | D  |       |    |        |    |       |    |       |    |
| 4x   |        | N | PLP | DAF92              | AJ   | Mi7 | D  | DAF91 | V  |        |    |       |    |       |    |
| 54Ja | 54FS01 | W | GEM | DAF96              | AJ   | Mi7 | D  |       |    |        |    |       |    |       |    |
| 40Jl | PB3    | W | PLP | DAH50              | AH   | Oc  | D  |       |    |        |    |       |    |       |    |
| 41Ap | 41RM04 | N | PLP | DBC21              | BC   | Oc  | D  |       |    |        |    | KBC1  | U  |       |    |
| 40<  | PA     | N | PLP | DBC21 <sup>9</sup> | BC   | Lo9 | D  |       |    |        |    | KBC1  | U  | DBC21 | S  |
| 4x   |        | E | VAL | DBC25              | BC   | Lo8 | D  |       |    |        |    |       |    |       |    |
| 4x   |        | E | MUL | DBC31              | BC   | Oc  | D  |       |    |        |    |       |    |       |    |
| 4x   |        | D | TFK | DC11               | C    | St8 | D  |       |    |        |    |       |    |       |    |
| 43Mr | 43RM03 | E | VAL | DC25               | C    | Lo8 | D  |       |    |        |    |       |    |       |    |
| 5x   |        | E | VAL | DC70               | C    | Sm  |    | 6375  | Q  |        |    |       |    |       |    |
| 49Jn | PA     | N | PLP | DC80               | C    | No  | D  | 1E3   | Q  |        |    |       |    |       |    |
| 52De | TRM52C | W | GEM | DC90               | C    | Mi7 | D  |       |    |        |    |       |    |       |    |
| 55Mr | TRM553 | W | VAL | DC96               | C    | Mi7 | D  |       |    |        |    |       |    |       |    |
| 5x   |        | Y | RFT | DC761              | C    | Sm  |    | DC70  | B  |        |    |       |    |       |    |
| 50Mr | PA     | E | VAL | DCC90              | CC   | Mi7 | D  | 3A5   | Q  |        |    |       |    |       |    |
| 5x   |        | E | PLP | DCF60              | C F  | Sm  |    | 1V6   | Q  |        |    |       |    |       |    |
| 49   | DRM    | D | TFK | DCH11              | G    | St8 | D  |       |    |        |    |       |    |       |    |
| 51Mr | 51FT05 | W | TFK | DCH15              | G    | St8 | D  | DCH11 | H  | DCH11  | H  |       |    |       |    |
| 41Ap | 41RM04 | E | VAL | DCH21              | G    | Oc  | D  |       |    |        |    |       |    |       |    |
| 40<  | PA     | N | PLP | DCH21 <sup>9</sup> | G    | Lo9 | D  |       |    |        |    |       |    | DCH21 | S  |
| 41Mr | PA     | E | TRM | DCH22              | G    | Lo8 | D  |       |    |        |    |       |    |       |    |
| 43Mr | 43RM03 | E | VAL | DCH25              | G    | Lo8 | D  |       |    |        |    |       |    |       |    |
| 4x   |        | E | MUL | DCH31              | G    | Oc  | D  |       |    |        |    |       |    |       |    |
| 4x   |        | E | TFK | DDD11              | DD + | St8 | D  |       |    |        |    |       |    |       |    |
| 43Mr | 43RM03 | E | VAL | DDD25              | DD + | Lo8 | D  |       |    |        |    |       |    |       |    |
| 4x   |        | D | TRM | DF11               | F    | St8 | D  |       |    |        |    |       |    |       |    |
| 51Mr | 51FT05 | W | TFK | DF15               | F    | St8 | D  | DF11  | H  | DF11   | H  |       |    |       |    |
| 41Ap | 41RM04 | E | PLP | DF21               | J    | Oc  | D  |       |    |        |    | KF4   | U  |       |    |
| 40<  | PA     | N | PLP | DF21 <sup>9</sup>  | J    | Lo9 | D  |       |    |        |    | KF4   | U  | DF21  | S  |
| 41Ap | 41RM04 | E | PLP | DF22               | F    | Oc  | D  |       |    |        |    | KF3   | U  |       |    |
| 40Mr | PA     | N | PLP | DF22 <sup>9</sup>  | F    | Lo9 | D  |       |    |        |    | KF3   | U  | DF22  | S  |
| 41Mr | PA     | E | VAL | DF23               | F    | Lo8 | D  | DF25  | K  |        |    |       |    |       |    |
| 43Mr | 43RM03 | E | VAL | DF25               | F    | Lo8 | D  | DF23  | K  |        |    |       |    |       |    |
| 43Mr | 43RM03 | E | VAL | DF26               | J    | Lo8 | D  |       |    |        |    |       |    |       |    |
| 4x   |        | E | MUL | DF31               | F    | Oc  | D  |       |    |        |    |       |    |       |    |
| 4x   |        | E | MUL | DF32               | F    | Oc  | D  |       |    |        |    |       |    |       |    |
| 4x   |        | E | MUL | DF33               | F    | Oc  | D  | 1N5   | Q  |        |    |       |    |       |    |
| 5x   |        | E | MUL | DF60               | J    | Sm  |    | 5678  | Q  |        |    |       |    |       |    |
| 5x   |        | E | GEM | DF61               | J    | Sm  |    |       |    |        |    |       |    |       |    |
| 60Fe | PA     | E | PLP | DF62               | J    | Sm  |    | 1AD4  | Q  |        |    |       |    |       |    |
| 54Ap | 54FS07 | W | VAL | DF64               | J    | Sm  |    |       |    |        |    |       |    |       |    |
| 49Oc | 49RM10 | N | PLP | DF65               | J    | Sm  |    |       |    |        |    |       |    |       |    |
| 51Ap | PA     | E | VAL | DF66               | J    | Sm  |    |       |    |        |    |       |    |       |    |
| 50Ap | PA     | E | VAL | DF67               | J    | Sm  |    | 6008  | Q  |        |    |       |    |       |    |
| 49Ja | PA     | E | PLP | DF70               | J    | Sm  |    |       |    |        |    |       |    |       |    |
| 5x   |        | E | MUL | DF72               | J    | Sm  |    |       |    |        |    |       |    |       |    |
| 5x   |        | E | MUL | DF73               | F    | Sm  |    |       |    |        |    |       |    |       |    |
| 48No | PB3A   | E | PLP | DF91               | F    | Mi7 | D  |       |    |        |    |       |    |       |    |
| 49Sp | PA     | E | GEM | DF92               | J    | Mi7 | D  | 1L4   | Q  |        |    |       |    |       |    |
| 53Mr | PA     | W | GEM | DF96               | F    | Mi7 | D  |       |    |        |    |       |    |       |    |
| 54De | 54FS24 | W | VAL | DF97               | F    | Mi7 | D  |       |    |        |    |       |    |       |    |
| 54Ap | 54FS08 | W | TFK | DF650              | J    | S5f | D  |       |    |        |    |       |    |       |    |
| 54Ap | 54FS08 | W | TFK | DF651              | J    | Sm  |    |       |    | CK549D |    |       |    |       |    |
| 3x   |        | G | MOV | DH63               | BC   | Oc  | EP | 6Q7   | Q  | 6Q7    | Q  |       |    |       |    |
| 4x   |        | E | MUL | DK1                | K    | Au8 | D  | 1A7   | Q  |        |    |       |    |       |    |
| 41Ap | 41RM04 | E | PLP | DK21               | K    | Oc  | D  |       |    |        |    | KK2   | U  | DK40  |    |
| 40Mr | PA     | N | PLP | DK21 <sup>9</sup>  | K    | Lo9 | D  |       |    |        |    | KK2   | U  | DK21  | S  |
| 41Mr | PA     | N | PLP | DK22               | K    | Lo8 | D  |       |    |        |    | DK21  | U  | DK40  |    |
| 4x   |        | E | PLP | DK25               | K    | Lo8 | D  |       |    |        |    |       |    |       |    |
| 4x   |        | E | MUL | DK31               | K    | Oc  | D  |       |    |        |    |       |    |       |    |



| DAT1 | QU1    | L | HSL | TYPE               | SYST | SOC | HZ | PLL  | PA | OGTY | OA | VRG  | VA | NFG    | NA |
|------|--------|---|-----|--------------------|------|-----|----|------|----|------|----|------|----|--------|----|
| 4x   |        | E | MUL | DK32               | K    | Oc  | D  | 1A7  | Q  |      |    |      |    |        |    |
| 48Ap | PA     | E | PLP | DK40               | K    | Ri  | D  |      |    | DK21 |    | DK21 |    |        |    |
| 48Sp | PB3A   | E | PLP | DK91               | N    | Mi7 | D  |      |    |      |    |      |    |        |    |
| 51Oc | PA     | E | PLP | DK92               | N    | Mi7 | D  |      |    |      |    | DK40 | U  |        |    |
| 50De | PA     | W | GEM | DK96               | N    | Mi7 | D  |      |    |      |    |      |    |        |    |
| 27Sp | 27FB39 | D | DLY | DK205              | C    | Eu4 | K  |      |    |      |    |      |    |        |    |
| 27Sp | 27FB39 | D | DLY | DK210              | C    | Eu4 | K  |      |    |      |    |      |    |        |    |
| 27Sp | 27FB39 | D | DLY | DK405              | C    | Eu4 | O  |      |    |      |    |      |    |        |    |
| 27Sp | 27FB39 | D | DLY | DK410              | C    | Eu4 | O  |      |    |      |    |      |    |        |    |
| 27Sp | 27FB39 | D | DLY | DK415              | C    | Eu4 | O  |      |    |      |    |      |    |        |    |
| 26   | %      | A | DFR | DL2                |      |     |    |      |    |      |    |      |    |        |    |
| 27   | %      | A | DFR | DL3                |      |     |    |      |    |      |    |      |    |        |    |
| 26   | %      | A | DFR | DL4                |      |     |    |      |    |      |    |      |    |        |    |
| 26   | %      | A | DFR | DL5                |      |     |    |      |    |      |    |      |    |        |    |
| 26   | %      | A | DFR | DL7                |      |     |    |      |    |      |    |      |    |        |    |
| 27   | %      | A | DFR | DL9                |      |     |    |      |    |      |    |      |    |        |    |
| 49   | DRM    | D | TFK | DL11               | L    | St8 | D  |      |    |      |    |      |    |        |    |
| 27   | %      | A | DFR | DL14               |      |     |    |      |    |      |    |      |    |        |    |
| 27   | %      | A | DFR | DL15               |      |     |    |      |    |      |    |      |    |        |    |
| 41Ap | 41RM04 | E | PLP | DL21               | L    | Oc  | D  |      |    |      |    | KL4  | U  |        |    |
| 40Mr | PA     | N | PLP | DL21 <sup>o</sup>  | L    | Lo9 | D  |      |    |      |    | KL4  | U  | DL21   | S  |
| 41Mr | PA     | E | PLP | DL22               | L    | Lo8 | D  |      |    |      |    |      |    |        |    |
| 43Mr | 43RM03 | E | VAL | DL25               | L    | Lo8 | D  |      |    |      |    |      |    |        |    |
| 4x   |        | E | PLP | DL26               | L    | Lo8 | D  |      |    |      |    |      |    |        |    |
| 4x   |        | G |     | DL29               | L    | Lo8 | D  | 3D6  | Q  |      |    |      |    |        |    |
| 4x   |        | G | MUL | DL31               | L    | Oc  | D  |      |    |      |    |      |    |        |    |
| 4x   |        | G | MUL | DL33               | L    | Oc  | D  | 3Q5  | Q  |      |    |      |    |        |    |
| 4x   |        | G | MUL | DL36               | L    | Oc  | D  | 1Q5  | Q  |      |    |      |    |        |    |
| 48Sp | PB3A   | E | PLP | DL41               | L    | Ri  | D  |      |    |      |    |      |    |        |    |
| 54Ap | 54FS07 | W | VAL | DL64               | L    | S4r | D  |      |    |      |    |      |    |        |    |
| 49No | PA     | E | VAL | DL65               | L    | S5r | D  |      |    |      |    |      |    |        |    |
| 50Ap | 50RM04 | E | PLP | DL65               | L    | Sms | D  |      |    |      |    |      |    |        |    |
| 50Ap | 50RM04 | E | PLP | DL71               | L    | Sms | D  |      |    |      |    |      |    |        |    |
| 50Ap | 50RM04 | E | PLP | DL72               | L    | Sms | D  |      |    |      |    |      |    |        |    |
| 50   | DRM    | E | GEM | DL91               | L    | Mi7 | D  |      |    |      |    |      |    |        |    |
| 48Au | PB3A   | E | PLP | DL92               | L    | Mi7 | D  |      |    |      |    |      |    |        |    |
| 49Sp | PA     | E | GEM | DL93               | L    | Mi7 | D  | 3A4  | Q  |      |    |      |    |        |    |
| 50Mr | PA     | E | GEM | DL94               | L    | Mi7 | D  |      |    |      |    |      |    |        |    |
| 49Sp | PA     | E | GEM | DL95               | L    | Mi7 | D  |      |    |      |    |      |    |        |    |
| 50De | PA     | W | GEM | DL96               | L    | Mi7 | D  |      |    |      |    |      |    |        |    |
| 5x   |        | E | PLP | DL98               | L    | Mi7 | D  | 3B4  | Q  |      |    |      |    |        |    |
| 54Ap | 54FS08 | W | TFK | DL650              | L    | S4r | D  |      |    |      |    |      |    |        |    |
| 54Ap | 54FS08 | W | TFK | DL651              | L    | S4r | D  |      |    |      |    |      |    |        |    |
| 41Ap | 41RM04 | E | PLP | DLL21              | LL   | Oc  | D  |      |    |      |    | KDD1 | N  |        |    |
| 40Mr | PA     | N | PLP | DLL21 <sup>o</sup> | LL   | Lo9 | D  |      |    |      |    | KDD1 | N  | DLL21  | S  |
| 4x   |        | E | PLP | DLL22              | LL   | Lo8 | D  |      |    |      |    |      |    |        |    |
| 4x   |        | E | PLP | DLL25              | LL   | Lo8 | D  |      |    |      |    |      |    |        |    |
| 4x   |        | E | MUL | DLL31              | LL   | Oc  | D  |      |    |      |    |      |    |        |    |
| 4x   |        | E | TRM | DLL101             | LL   | Mi7 | D  |      |    |      |    |      |    |        |    |
| 27Sp | 27FB39 | N | RAR | DM15               | E    |     |    |      |    |      |    |      |    |        |    |
| 41Ap | 41RM04 | E | PLP | DM21               | MC   | Oc  | D  |      |    |      |    |      |    | DM70 ® | N  |
| 40Au | PA     | N | PLP | DM21 <sup>o</sup>  | MC   | Lo9 | D  |      |    |      |    |      |    | DM21   | S  |
| 52Sp | PA     | W | GEM | DM70               | MC)  | S8r | D  | DM71 | S  |      |    |      |    |        |    |
| 53Ja | 53RM01 | W | GEM | DM71               | MC)  | S8r | D  | DM70 | S  |      |    |      |    |        |    |
| 59Ja | PA     | E | GEM | DM160              | MC)  | Sm3 | D  | 6977 | Q  |      |    |      |    |        |    |
| 27Sp | 27FB39 | N | RAR | DM300              | E    |     |    |      |    |      |    |      |    |        |    |
| 27Sp | 27FB39 | D | DLY | DO405              | C    | Eu4 | O  |      |    |      |    |      |    |        |    |
| 5x   |        | X | BBC | DQ51               | T    | SpS | S  |      |    |      |    |      |    |        |    |
| 27   | %      | A | DFR | DR                 |      |     |    |      |    |      |    |      |    |        |    |
| 23Sp | %      | A | DFR | DV1                |      |     |    |      |    |      |    |      |    |        |    |
| 23Sp | %      | A | DFR | DV2                | C    | U4  | G  |      |    |      |    |      |    |        |    |
| 24?  | %      | A | DFR | DV3                |      |     |    |      |    |      |    |      |    |        |    |
| 24?  | %      | A | DFR | DV3A               |      |     |    |      |    |      |    |      |    |        |    |

| DAT1 | QU1    | L | HSL | TYPE    | SYST | SOC | HZ | PLL    | PA | OGTY  | OA | VRG   | VA | NFG    | NA |
|------|--------|---|-----|---------|------|-----|----|--------|----|-------|----|-------|----|--------|----|
| 24?  | %      | A | DFR | DV5     | C    | U4  | G  | 01     | K  |       |    |       |    |        |    |
| 23Sp | %      | A | DFR | DV6     |      |     |    |        |    |       |    |       |    |        |    |
| 23Sp | %      | A | DFR | DV6A    |      |     |    |        |    |       |    |       |    |        |    |
| 26   | %      | A | DFR | DV7     |      |     |    |        |    |       |    |       |    |        |    |
| 27Mr | 27FB13 | A | DEL | DV26/2  | C    |     |    |        |    |       |    |       |    |        |    |
| 27Mr | 27FB13 | A | DEL | DV26/4  | C    |     |    |        |    |       |    |       |    |        |    |
| 27Mr | 27FB13 | A | DEL | DV27/2  | C    |     |    |        |    |       |    |       |    |        |    |
| 27Mr | 27FB13 | A | DEL | DV27/2H | C    |     |    |        |    |       |    |       |    |        |    |
| 27Mr | 27FB13 | A | DEL | DV27/4  | C    |     |    |        |    |       |    |       |    |        |    |
| 27Mr | 27FB13 | A | DEL | DV27/4H | C    |     |    |        |    |       |    |       |    |        |    |
| 26   | 28FB31 | A | DEL | DV52/2  | C    |     |    |        |    |       |    |       |    |        |    |
| 26   | 28FB31 | A | DEL | DV52/4  | C    |     |    |        |    |       |    |       |    |        |    |
| 27Sp | 27FB39 | D | DLY | DW405   | C    | Eu4 | O  |        |    |       |    |       |    |        |    |
| 4x   |        | E | PLP | DY30    | y    | Oc  | D  | 1B3    | Q  |       |    |       |    |        |    |
| 65Ja |        | W | VAL | DY51    | y    | SpA | D  |        |    |       |    |       |    |        |    |
| 5x   |        | G | MUL | DY70    | y    | Sm  |    |        |    |       |    |       |    |        |    |
| 51Sp | 51FS18 | E | GEM | DY80    | y    | No  | D  |        |    |       |    |       |    |        |    |
| 56Ap | PA     | W | VAL | DY86    | y    | No  | D  | 1S2    | Q  |       |    |       |    |        |    |
| 54Oc | PA     | E | GEM | DY87    | y    | No  | D  | DY86   | K  |       |    |       |    |        |    |
| 67My |        | E | GEM | DY802   | y    | No  | D  |        |    |       |    |       |    |        |    |
| 65Ja |        | W | TFK | DY900   | y    | Mi7 | D  |        |    |       |    |       |    |        |    |
| 23   | PA     | N | PLP | E       | C    | Eu4 | O  | R      | N  |       |    |       |    |        |    |
| 23   | PA     | N | PLP | E       | C    | Eu4 | O  | R      | N  |       |    |       |    |        |    |
| 23   | PA     | N | PLP | E       | C    | Eu4 | O  | R      | N  |       |    |       |    |        |    |
| 43Fe | 43RM02 | N | PLP | E1C     | C    | Ac5 | EH | 4671   | #  | 955   | Q  |       |    |        |    |
| 43Fe | 43RM02 | N | PLP | E1F     | J    | Ac5 | EH | 4672   | #  | 954   | Q  |       |    |        |    |
| 53Mr | 53RM03 | W | VAL | E1T     | spcl | SpS | EP |        |    |       |    |       |    |        |    |
| 43Fe | 43RM02 | N | PLP | E2F     | F    | Ac5 | EH | 4695   | #  | 956   | Q  |       |    |        |    |
| 40Au | PA     | N | PLP | E3F     | F    | Ac7 | EC |        |    |       |    |       |    |        |    |
| 4x   |        | D | VAL | E13F    | J    | Wm8 | E  | E3F    | K  |       |    |       |    |        |    |
| 4x   |        | W | LOR | E20C    | D    | Lo8 | EL |        |    |       |    |       |    |        |    |
| 61My |        | W | VAL | E55L    | L    | Mno | E  |        |    |       |    |       |    |        |    |
| 51Mr | PA     | W | VAL | E80CC   | C-C  | No  | X  | 6085   | Q  |       |    |       |    |        |    |
| 58No | PA     | W | SIM | E80CF   | C-J  | No  | E  | 7643   | Q  |       |    |       |    |        |    |
| 51Mr | PA     | W | VAL | E80F    | J    | No  | EP | 6084   | Q  |       |    |       |    |        |    |
| 52No |        | W | VAL | E80L    | L    | No  | E  | 6227   | Q  |       |    |       |    |        |    |
| 5x   |        | E | GEM | E81CC   | C-C  | No  | EP | 6201   | Q  | ECC81 | B  |       |    |        |    |
| 5x   |        | E | TRM | E81H    | I%   | No  | EP | EH81   | #  | EH81  | B  |       |    |        |    |
| 57Jn | PA     | E | GEM | E81L    | L    | No  | E  | 18046  | H  | 6686  | Q  |       |    |        |    |
| 63Jn |        | W | VAL | E82CC   | C-C  | No  | EP | 6189   | Q  | ECC82 | B  |       |    |        |    |
| 55De |        | W | VAL | E82M    | MMCC | No  | E  |        |    |       |    |       |    |        |    |
| 60Ap |        | W | SIM | E83CC   | C-C  | No  | EP | 6681   | Q  | ECC83 | B  |       |    |        |    |
| 53Fe | PA     | E | GEM | E83F    | J    | No  | EP | 6689   | Q  |       |    |       |    |        |    |
| 60Ap |        | W | SIM | E84L    | L    | No  | E  | 7320   | Q  | EL84  | B  |       |    |        |    |
| 60Ap |        | W | SIM | E86C    | C    | No  | E  | EC806S | K  | EC86  | B  |       |    |        |    |
| 62Ap |        | W | GEM | E88C    | C    | No  | E  |        |    | EC88  | B  |       |    |        |    |
| 57Ja | PA     | W | SIM | E88CC   | C-C  | No  | E  | 6922   | Q  |       |    | PCC84 |    | E188CC | H  |
| 51Oc | PA     | W | VAL | E90CC   | CC   | Mi7 | E  | 5920   | Q  |       |    |       |    |        |    |
| 57My | PA     | E | VAL | E90F    | J    | Mi7 | EH | 7693   | Q  | 6BH6  | B  |       |    |        |    |
| 5x   |        | E | LOR | E90Z    | Z    | Mi7 | EX | 6063   | Q  | EZ90  | B  |       |    |        |    |
| 5x   |        | E | GEM | E91AA   | AA   | Mi7 | EP | 5726   | Q  | EAA91 | B  |       |    |        |    |
| 57Mr | PA     | W | VAL | E91H    | I%   | Mi7 | E  | 6687   | Q  | 5915  | H  |       |    |        |    |
| 54Jl | PA     | E | GEM | E92CC   | CC   | Mi7 | E  |        |    |       |    |       |    |        |    |
| 5x   |        | E | GEM | E95F    | J    | Mi7 | E  | 5654   | Q  | 6AK5  | B  |       |    |        |    |
| 5x   |        | G |     | E99CC   | CC   | Mi7 | E  | E92CC  | K  |       |    |       |    |        |    |
| 58Jn | PA     | E | VAL | E99F    | F    | Mi7 | EH | 7694   | Q  | 6BJ6  | B  |       |    |        |    |
| 29<  | 29FB09 | D | SBT | E1000   | X    | Eu4 | N  |        |    |       |    |       |    |        |    |
| 59Fe | PA     | W | VAL | E130L   | S    | Oc  | E  | 7534   | Q  |       |    |       |    |        |    |
| 58Sp | PA     | E | VAL | E180CC  | C-C  | No  | E  | 7062   | Q  |       |    |       |    |        |    |
| 54Jl |        | W | VAL | E180F   | J    | No  | EP | 6688   | Q  |       |    |       |    |        |    |
| 5x   |        | E | VAL | E181CC  | C-C  | No  | E  |        |    |       |    |       |    |        |    |
| 58Sp | PA     | E | VAL | E182CC  | C-C  | No  | E  | 7119   | Q  |       |    |       |    |        |    |
| 60Ja | PA     | E | VAL | E186F   | J    | No  | E  | 7737   | Q  |       |    |       |    |        |    |

| DAT1 | QU1    | L | HSL | TYPE   | SYST | SOC | HZ | PLL    | PA | OGTY   | OA | VRG    | VA | NFG    | NA |
|------|--------|---|-----|--------|------|-----|----|--------|----|--------|----|--------|----|--------|----|
| 59Jl | PA     | E | GEM | E188CC | C-C  | No  | E  | 7308   | Q  | E188CC | H  | E88CC  | H  | E288CC | Z  |
| 63Jn |        | W | VAL | E235L  | S    | Oc  | E  | 7751   | Q  | EL36   | V  |        |    |        |    |
| 63Jn |        | W | VAL | E236L  | S    | Oc  | E  |        |    | EL36   | B  |        |    |        |    |
| 60Ap |        | W | VAL | E280F  | J    | No  | E  | 7722   | Q  |        |    |        |    |        |    |
| 63Jn |        | W | VAL | E282F  | J    | No  | E  |        |    |        |    |        |    |        |    |
| 59Jl | 59FS13 | W | VAL | E283CC | C-C  | No  | EP |        |    | ECC83  | X  |        |    |        |    |
| 61My | 61FS09 | W | SIM | E288CC | C-C  | No  | E  | 8223   | Q  | E188CC | Z  | E188CC | Z  |        | ]  |
| 30Jl | PA     | E | PLP | E406   | D    | Eu4 | O  |        |    |        |    |        |    |        |    |
| 2x   |        | E | PLP | E406 N | D    | Eu4 | O  | LK4112 | Q  |        |    |        |    |        |    |
| 29Sp | PA     | E | PLP | E408   | D    | Eu4 | O  |        |    |        |    |        |    | E408N  |    |
| 30Jl | PA     | E | PLP | E408 N | D    | Eu4 | O  | RE614  | K  |        |    | E408   |    |        |    |
| 29Oc | PA     | E | PLP | E409   | C    | Eu5 | A  |        |    |        |    |        |    |        |    |
| 28No | PA     | E | PLP | E409 N | C    | Eu5 | A  | R_1104 | K  |        |    |        |    |        |    |
| 29Jl | PA     | E | PLP | E414   | C    | Eu5 | A  |        |    |        |    |        |    |        |    |
| 28Au | PA     | E | PLP | E415   | C    | Eu5 | A  | REN804 | K  |        |    |        |    | E424   |    |
| 28Jl | 28B32  | D |     | E415b  |      | Eu4 |    |        |    |        |    |        |    |        |    |
| 28No | PA     | E | PLP | E424   | C    | Eu5 | A  |        |    |        |    | E415   |    |        |    |
| 31Oc | PA     | E | PLP | E424N  | C    | Eu5 | A  | REN904 | K  |        |    |        |    |        |    |
| 3x   |        | E | PLP | E424R  | C    | Eu4 | A  |        |    |        |    |        |    |        |    |
| 30   | %'     | E | PLP | E425   | C    | Eu5 | A  |        |    |        |    |        |    |        |    |
| 32<  | PA328  | E | PLP | E428   | C    | Eu5 | A  |        |    |        |    |        |    |        |    |
| 28Au | PA     | E | PLP | E430   | C    | Eu5 | A  | R_1004 | K  |        |    |        |    | E438   |    |
| 28Au | PA     | E | PLP | E435   | C    | Eu5 | A  |        |    |        |    |        |    | E499   |    |
| 29Jl | PA     | E | PLP | E438   | C    | Eu5 | A  |        |    |        |    | E430   |    | AC2    |    |
| 28No | PA     | E | PLP | E441   | E    | Eu5 | A  | REN704 | K  |        |    |        |    |        |    |
|      |        | E | PLP | E441N  | E    | SpS | A  | REN704 | K  |        |    |        |    |        |    |
| 28Au | PA     | E | PLP | E442   | E    | Eu4 | A  |        |    |        |    |        |    | E452T  |    |
| 30Ap | PA     | E | PLP | E442S  | E    | Eu5 | A  | R_1204 | K  |        |    |        |    |        |    |
| 29Fe | PA     | N | PLP | E443   | L    | Eu5 | O  |        |    |        |    | C443   |    | E443N  |    |
| 33Ap | PBD06  | N | PLP | E443H  | L    | Eu5 | O  | RES964 | K  | 47 /PZ | N  | E443N  | Z  | AL1    | S  |
| 30Jl | PA     | E | PLP | E443N  | L    | Eu5 | O  | RES664 | K  |        |    | E443   | Z  | E443H  | Z  |
| 33Ap | PBD06  | N | PLP | E444   | AE   | Hx6 | A  | R_1254 | K  |        |    |        |    |        |    |
| 33Ap | PBD06  | E | PLP | E444S  | AC   | Eu5 | A  | REN924 | K  |        |    |        |    |        |    |
| 31No | PA     | E | PLP | E445   | E°   | Eu5 | A  | R_1214 | K  | 551    | N  |        | &  | E455   |    |
| 33Ap | PBD06  | E | PLP | E446   | J    | Eu5 | A  | R_1284 | K  |        |    |        |    |        |    |
| 33Ap | PBD06  | E | PLP | E447   | F    | Eu5 | A  | R_1294 | K  |        |    |        |    |        |    |
| 33Ap | PBD06  | E | PLP | E448   | H%   | Hx7 | A  | R_1224 | K  |        |    |        |    |        |    |
| 33Ap | PBD06  | E | PLP | E449   | H    | Hx7 | A  | R_1234 | K  |        |    |        |    |        |    |
| 32   | %'     | E | PLP | E451   | D +  | Eu5 | O  | 46     | Q  | 46     | R  |        |    |        | ]  |
| 31Oc | PA     | E | PLP | E452T  | E    | Eu5 | O  | R_1264 | K  |        |    | E442   |    |        |    |
| 31No | PA     | E | PLP | E453   | L    | Eu5 | A  | R_1374 | K  |        |    |        |    |        |    |
| 32Sp | PA     | E | PLP | E455   | E°   | Eu5 | A  | R_1274 | K  |        |    | E445   |    |        |    |
| 32Au | PA     | E | PLP | E462   | E    | Eu5 | A  | R_1264 | K  |        |    |        |    |        |    |
| 33Ap | PBD06  | E | PLP | E463   | L    | Hx6 | A  | R_1384 | K  |        |    |        |    | AL2    | T  |
| 32De | PA     | E | PLP | E499   | C    | Eu5 | A  | REN914 | K  |        |    |        |    |        |    |
| 3x   |        | E | PLP | E707   | D    | SpS | Si | RV258  | K  |        |    |        |    |        |    |
| 39Ap | PA     | E | PLP | EA50   | A    | SpA | EH | 2B35   | Q  |        |    |        |    |        |    |
| 56Mr | PA     | E | PLP | EA52   | A    | SpA | EP | 6923   | A  |        |    |        |    |        |    |
| 50Mr | 50RM03 | G | MUL | EA71   | A    | Sms | E  |        |    |        |    |        |    |        |    |
| 53Mr | 53RM04 | G | MUL | EA76   | A    | S5r | EH | 6489   | Q  |        |    |        |    |        |    |
| 48   | TZ87   | D | TFK | EAA11  | AA   | St8 | E  | EB41   | K  | 6H6    | R  | EB11   | O  | EB40   | U  |
| 51Jn | 51FS12 | D | GEM | EAA91  | AA   | Mi7 | EP | 6AL5   | Q  | 6AL5   | =  | EB41   | S  |        | ]  |
| 51Ap |        | Y | RFT | EAA171 | AA   | Gno | E  |        |    | EAA11  | R  |        |    |        |    |
| 56My |        | W | TFK | EAA901 | AA   | Mi7 | EP | 5726   | Q  | EAA91  | F  |        |    |        | ]  |
| 38My | PBD-S  | E | PLP | EAB1   | AB)  | Au8 | EC |        |    |        |    |        |    | %      | %  |
| 52Ja | 52FT01 | E | GEM | EABC80 | A-BC | No  | E  | 6AK8   | Q  | 6T8    | =  | 6S8    | U  |        | ]  |
| 40<  | PA     | N | PLP | EABL21 | ABL  | Lo9 | EP | CABL21 | Z  | EBL1   | E  | EBL 1  | R  | EBL21  | T  |
| 50My | PA     | E | PLP | EAC91  | A-C  | Mi7 | EP |        |    |        |    | %      |    | %      | %  |
| 47Mr | PB3A   | E | PLP | EAF41  | AF   | Ri  | EC | EBF11  | K  | 6SF7   | U  | EBF 2  | S  | EAF42  | V  |
| 48Sp | PB3A   | E | PLP | EAF42  | AF   | Ri  | EC | EBF11  | K  | EAF41  | V  | EAF41  | V  | EBF80  | M  |
| 63Mr |        | W | GEM | EAF801 | AF   | No  | EP |        |    | EBF89  | M  | EBF89  | V  |        | %  |
| 60My | TRM605 | W | TFK | EAM86  | AM-C | No  | EP | 6GX8   | Q  |        |    |        |    | %      | %  |
| 34Mr | PBD13  | E | PLP | EB1    | B    | Au5 | E  | CB1    | H  | AB1    | R  |        |    | EB2    | V  |

| DAT1 | QU1    | L | HSL | TYPE   | SYST | SOC | HZ | PLL   | PA | OGTY  | OA | VRG   | VA | NFG    | NA      |
|------|--------|---|-----|--------|------|-----|----|-------|----|-------|----|-------|----|--------|---------|
| 36Jl | Z      | E | GEM | EB2    | B    | Au5 | E  | AB2   | H  | EB1   | V  | EB1   | V  | EB4    | M       |
| 35Sp | PBD29  | N | PLP | EB3    | B    | Au5 | EB |       |    |       |    | EB2   | H  | EB4    | R       |
| 36My | PBF30  | E | PLP | EB4    | AA   | Au8 | EC | EB11  | K  | 6H6   | R  | EB2   | E  | EB41   | R       |
| 38   | RH39   | D | TFK | EB11   | AA   | St8 | EC | EB4   | K  | EB4   | S  | AB2   | U  | EB41   | R       |
| 4x   |        | G | MUL | EB34   | AA   | Oc  | EC | EB4   | S  | EB4   | S  |       |    |        |         |
| 48De | PA     | E | PLP | EB41   | AA   | Ri  | EP | EB40  | K  | 6AL5  | S  | EB4   | U  | EAA91  | S       |
| 49Jn | PB3A   | E | GEM | EB91   | AA   | Mi7 | EP | EAA91 | Q  | 6AL5  | =  | EB41  | S  |        | ] ]     |
| 36Jl | Z      | E | TFK | EBC1   | BC   | Au8 | EP | ABC1  | H  | ABC1  | H  |       |    | EBC3   | Z       |
| 36My | PBF30  | E | PLP | EBC3   | BC   | Au8 | EC | EBC11 | K  |       |    | ABC1  | Z  | EBC41  | U       |
| 38   | RH39   | D | TFK | EBC11  | BC   | St8 | EC | EBC3  | K  | EBC3  | T  | ABC1  | U  | EBC41  | U       |
| 38?  |        | G | MUL | EBC33  | BC   | Oc  | EC |       |    | EBC3  | S  | EBC3  | S  | EBC41  | U       |
| 48No | PB3A   | W | PLP | EBC41  | BC   | Ri  | E  | EBC11 | K  | 6Q7   | R  | EBC3  | U  | EBC81  | S       |
| 55Mr | PA     | E | GEM | EBC81  | BC   | No  | E  | 6BD7A | Q  | EBC41 | S  | EBC41 | S  |        | ] ]     |
| 5x   |        | W | LOR | EBC90  | BC   | Mi7 | EP | 6AT6  | Q  | 6AT6  | =  | EBC11 | U  | EBC91  | C       |
| 51No | 51FS22 | W | LOR | EBC91  | BC   | Mi7 | EP | 6AV6  | Q  | 6AV6  | =  | EBC90 | C  |        | ] ]     |
| 37   | HLR    | E | PLP | EBF1   | BF   | Au8 | EP |       |    | 6B8   | S  |       |    | &      | EBF2 Z  |
| 38Fe | HLR    | E | PLP | EBF2   | BF   | Au8 | EC | EBF11 | K  |       |    | EBF1  | Z  | EAF41  | E       |
| 38   | RH39   | D | TFK | EBF11  | BF   | St8 | EC | EBF 2 | K  | 6B8   | N  |       |    | &      | EBF80 U |
| 47   | TZ87   | W | TFK | EBF11g | BF   | St8 | EC |       |    | EBF11 | 2  |       |    |        |         |
| 50My | 50RM05 | W | TFK | EBF15  | BF   | St8 | E  |       |    |       |    | EBF11 | Z  | EBF89  | U       |
| 4x   |        | G | MUL | EBF32  | BF   | Oc  | EC | EBF2  | S  | EBF2  | S  |       |    |        |         |
| 5x   |        | G | MUL | EBF35  | BF   | Oc  | EC | EBF32 | V  | EBF2  | S  |       |    |        |         |
| 49Jn | PA     | E | GEM | EBF80  | BF   | No  | EP | 6N8   | Q  | EAF42 | E  | EAF42 | U  | EBF89  | C       |
| 57Au |        | W | GEM | EBF83  | BF   | No  | EP | 6DR8  | Q  |       |    |       | %  |        | %       |
| 55Oc | TRM55A | W | GEM | EBF89  | BF   | No  | EP | 6DC8  | Q  |       |    | EBF80 | C  | EAF801 | E       |
| 51Ap |        | Y | RFT | EBF171 | BF   | Gno | E  |       |    | EBF11 | R  |       |    |        |         |
| 37Ja | PBD-S  | E | PLP | EBL 1  | BL   | Au8 | E  | ABL1  | H  | EL3   | E  |       | [  | EBL21  | U       |
| 41Fe | PB3    | E | PLP | EBL21  | BL   | Lo8 | E  | ECL11 | K  | EBL1  | <  | EBL 1 | R  | 6BV7   | T       |
| 38   |        | G | MUL | EBL31  | BL   | Oc  | E  |       |    | EBL1  | S  | EBL1  | S  | EBL21  | U       |
| 50No |        | W | LOR | EBL71  | BL   | Lo8 | E  | EBL21 | K  | EBL21 | =  |       |    |        | ] ]     |
| 35Sp | PBD29  | N | PLP | EC1    | C    | Au5 | EB |       |    |       |    | EC2   | U  | EBC3   | M       |
| 35Mr | PBD24  | E | TFK | EC2    | C    | Au8 | E  | AC2   | H  | AC2   | H  |       |    |        |         |
| 40<  | PA     | N | PLP | EC21   | C    | Lo9 | EC |       |    |       |    |       |    |        |         |
| 39My | PA     | E | GEM | EC50   | T    | Au8 | E  |       |    |       |    | 4690  | Z  |        |         |
| 50Mr | 50RM03 | G | MUL | EC70   | C    | S8r | EH | 6778  | Q  |       |    |       |    |        |         |
| 57De |        | W | VAL | EC71   | C    | S8r | EH | 5718  | Q  | 5718  | =  |       |    |        |         |
| 49No | PA     | E | VAL | EC80   | C    | No  | E  |       |    | 6Q4   | =  |       |    |        |         |
| 49Mr | PA     | E | VAL | EC81   | C    | No  | E  |       |    | 6R4   | =  |       |    |        |         |
| 5x   |        | E |     | EC83   | C    | No  | E  |       |    |       |    |       |    |        |         |
| 5x   |        | Y | RFT | EC84   | C    | No  | E  |       |    | 6AJ4  | =  |       |    |        |         |
| 58Jl | PA     | W | GEM | EC86   | C    | No  | E  |       |    | 6CM4  | =  |       |    |        |         |
| 5x   |        | E | PLP | EC90   | C    | Mi7 | EH |       |    | ECC82 | M  |       |    |        |         |
| 49Sp | 49RM09 | E | PLP | EC91   | C    | Mi7 | EP |       |    | 6AQ4  | =  |       |    |        |         |
| 52Ap | PA     | E | GEM | EC92   | C    | Mi7 | EH | 6AB4  | Q  | ECC81 | M  |       |    | &      |         |
| 56Ap | TRM564 | W | TFK | EC93   | C    | Mi7 | EC |       |    | 6BS4  | =  |       |    |        |         |
| 58Sp | PA     | N | PLP | EC95   | C    | Mi7 | EH | PC95  | H  |       |    |       |    |        |         |
| 5x   |        | E | TFK | EC806S | C    | No  | E  |       |    |       |    |       |    |        |         |
| 63Mr |        | F | GEM | EC900  | C    | Mi7 | E  | PC900 | H  | 6HA5  | =  |       |    |        |         |
| 5x   |        | E | TFK | EC903  | C    | Mi7 | E  |       |    |       |    |       |    |        |         |
| 63My |        | W | SIM | EC8010 | C    | No  | E  |       |    |       |    |       |    |        |         |
| 65Jl |        | W | TFK | EC8020 | C    | No  | E  |       |    |       |    |       |    |        |         |
| 4x   |        | G | MUL | ECC33  | C-C  | Oc  | E  | 6C8   | N  |       |    |       |    |        |         |
| 4x   |        | G | MUL | ECC34  | C-C  | Oc  | E  |       |    |       |    |       |    |        |         |
| 4x   |        | G | MUL | ECC35  | C-C  | Oc  | E  | 6SL7  | H  |       |    |       |    |        |         |
| 48De | PA     | E | PLP | ECC40  | C-C  | Ri  | EX |       |    | 6SN7  | N  |       |    | &      | ECC81 N |
| 50De | PA     | W | LOR | ECC81  | C-C  | No  | EP | 12AT7 | Q  | 12AT7 | =  |       |    | &      | ECC85 O |
| 51Sp | 51FS18 | W | LOR | ECC82  | C-C  | No  | EP | 12AU7 | Q  | 12AU7 | =  | ECC40 | U  |        |         |
| 53Jn | PA     | W | GEM | ECC83  | C-C  | No  | EP | 12AX7 | Q  | 12AX7 | =  | ECC40 | N  | ECC808 | F       |
| 55Fe | PA     | E | GEM | ECC84  | C-C  | No  | E  | 6CW7  | Q  |       |    |       |    |        |         |
| 53Oc | TRM    | W | GEM | ECC85  | C-C  | No  | E  | 6AQ8  | Q  |       |    | ECC81 | O  |        | ] ]     |
| 58Ja |        | W | GEM | ECC86  | C-C  | No  | E  | 6GM8  | Q  |       |    |       |    |        | ] ]     |
| 5x   |        | E | GEM | ECC87  | C-C  | No  | EP |       |    |       |    |       |    |        |         |
| 58Ja | PA     | E | GEM | ECC88  | C-C  | No  | E  | PCC88 | H  | E88CC | F  |       |    |        |         |

| DAT1 | QU1    | L | HSL | TYPE    | SYST | SOC | HZ | PLL    | PA | OGTY   | OA | VRG   | VA | NFG    | NA |
|------|--------|---|-----|---------|------|-----|----|--------|----|--------|----|-------|----|--------|----|
| 5x   |        | E | GEM | ECC89   | C-C  | No  | E  |        |    |        |    |       |    |        |    |
| 49My | PA     | E | GEM | ECC91   | CC   | No  | EL | 6J6    | Q  | 6J6    | =  |       |    |        | J  |
| 5x   |        | E | PLP | ECC180  | C-C  | No  | E  | 6BQ7A  | Q  | 6BQ7A  | =  |       |    |        |    |
| 59Mr | PA     | E | VAL | ECC186  | C-C  | No  | EP |        |    |        |    |       |    |        |    |
| 63Mr |        | E | GEM | ECC189  | C-C  | No  | E  | 6ES8   | Q  | PCC189 | H  |       |    |        |    |
| 56My |        | W | TFK | ECC801  | C-C  | No  | EP | E81CC  | K  | ECC81  | B  |       |    |        |    |
| 58Au |        | W | LOR | ECC802  | C-C  | No  | EP | E82CC  | K  | ECC82  | B  |       |    |        |    |
| 5x   |        | E | LOR | ECC803  | C-C  | No  | EP | E83CC  | K  | ECC83  | B  |       |    |        | J  |
| 63Mr |        | W | GEM | ECC808  | C-C  | No  | E  | 6KX8   | Q  | ECC83  | A  | ECC83 | W  |        | J  |
| 5x   |        | Y | RFT | ECC863  | C-C  | No  | EP | E283CC | K  | ECC83  | X  |       |    |        |    |
| 5x   |        | Y | RFT | ECC865  | C-C  | No  | E  |        |    | ECC85  | B  |       |    |        |    |
| 6x   |        | Y | RFT | ECC960  | CC   | Mi7 | E  | E90CC  | K  | E90CC  | =  |       |    |        |    |
| 6x   |        | Y | RFT | ECC962  | CC   | Mi7 | E  | E92CC  | K  | E92CC  | =  |       |    |        |    |
| 63Jn |        | W | VAL | ECC2000 | C-C  | Dec | E  |        |    |        |    |       |    |        |    |
| 64My |        | W | SIM | ECC8010 | C-C  | No  | E  |        |    |        |    |       |    |        |    |
| 63My |        | W | SIM | ECC8100 | C-C  | No  | E  |        |    |        |    |       |    |        |    |
| 40   | PR     | E | PLP | ECF1    | CF   | Au8 | EC |        | J  | 6F7    | N  |       | &  | ECH21  | Y  |
| 50My | 50RM05 | W | TFK | ECF12   | CJ   | St8 | EP |        |    |        | %  |       |    |        | %  |
| 57Au | PA     | E | GEM | ECF80   | C-J  | No  | E  | 6BL8   | Q  |        |    |       |    |        |    |
| 5x   |        | E | GEM | ECF82   | C-J  | No  | E  | 6U8    | Q  | 6U8    | =  |       |    |        |    |
| 58Mr | TRM583 | W | SIM | ECF83   | C-F  | No  | E  |        |    |        |    |       |    |        |    |
| 5x   |        | E | GEM | ECF86   | C-J  | No  | E  |        |    |        |    |       |    |        |    |
| 64Fe | HLR    | F | GEM | ECF200  | C-J  | Dec | E  |        |    |        |    |       |    |        |    |
| 64Fe | HLR    | E | PLP | ECF201  | C-J  | Dec | P  |        |    |        |    |       |    |        |    |
| 63Mr |        | E | GEM | ECF801  | C-J  | No  | E  |        |    |        |    |       |    |        |    |
| 65Jn |        | F | GEM | ECF802  | C-J  | No  | E  |        |    |        |    |       |    |        |    |
| 6x   |        | E | GEM | ECF805  | C-J  | No  | E  | PCF805 | H  |        |    |       |    |        |    |
| 38Jn | PA     | G | MUL | ECH2    | U    | Au8 | E  |        |    |        |    |       |    | ECH3   | Z  |
| 39Fe | PB2    | E | PLP | ECH3    | G    | Au8 | EC | ECH11  | K  | ECH11  | T  | EK3   | Y  | ECH4   | O  |
| 40Ja | PA     | E | PLP | ECH4    | CI   | Au8 | E  | UCH4   | R  |        |    | ECH3  | O  | ECH21  | S  |
| 38   | RH39   | D | TFK | ECH11   | G    | St8 | EC | ECH3   | K  |        |    | ACH1  | U  | ECH42  | U  |
| 47   | TZ87   | W | TFK | ECH11g  | G    | St8 | EC |        |    | ECH11  | 2  |       |    |        |    |
| 41Fe | PB3    | E | PLP | ECH21   | CI   | Lo8 | E  | ECH11  | K  | ECH4   | S  | ECH4  | S  | ECH81  | U  |
| 40<  | PA     | N | PLP | ECH21°  | U    | Lo9 | EC |        |    |        |    | ECH3  | T  | ECH21  | U  |
| 39?  |        | G | MUL | ECH33   | G    | Oc  | EC | ECH3   | S  | ECH3   | S  | ECH3  | S  |        |    |
| 39?  |        | G | MUL | ECH35   | G    | Oc  | EC | 6E8    | Q  | 6E8    | =  | ECH33 | H  |        |    |
| 47Mr | PB3A   | E | PLP | ECH41   | G    | Ri  | E  | ECH11  | K  | ECH3   | U  | ECH21 | J  | ECH42  | C  |
| 48Oc | PB3A   | E | PLP | ECH42   | G    | Ri  | E  | ECH11  | K  | ECH41  | C  | ECH41 | <  | ECH81  | J  |
| 50Jn | 50FS12 | E | PLP | ECH43   | G    | Ri  | E  |        |    | ECH42  | F  | ECH42 | B  | ECH81  | N  |
| 50No |        | W | LOR | ECH71   | CI   | Lo8 | E  | ECH21  | K  | ECH21  | =  | ECH11 | U  | ECH42  | U  |
| 5x   |        | E | MUL | ECH80   | G    | No  | E  | 6AN7   | Q  | ECH42  | S  |       |    | ECH81  | J  |
| 51De | PA     | E | GEM | ECH81   | CI   | No  | EP | 6AJ8   | Q  | ECH21  | U  | ECH42 | J  |        | J  |
| 57Au |        | W | GEM | ECH83   | CI   | No  | EP | 6DS8   | Q  |        |    |       |    |        |    |
| 61Jl | TRM617 | W | GEM | ECH84   | CI%  | No  | EP |        |    | ECH81  | X  | ECH81 | X  | PCH200 | U  |
| 61>  |        | E | GEM | ECH84a  | CI%  | No  | EP |        |    |        |    |       |    |        |    |
| 51Ap |        | Y | RFT | ECH171  | CH   | Gno | E  |        |    | ECH11  | U  |       |    |        |    |
| 64Fe | HLR    | F | GEM | ECH200  | C-I% | Dec | P  | PCH200 | H  |        |    |       |    |        |    |
| 39Jn | 39FV13 | D | TFK | ECL11   | CS   | St8 | E  | EBL1   | K  | VCL11  | Z  | EL11  | E  | ECL113 | N  |
| 50Jl | 50RM07 | E | PLP | ECL80   | CL   | No  | EP | 6AB8   | Q  |        |    |       |    | PCL81  | O  |
| 5x   |        | Y | RFT | ECL81   | CS   | No  | E  |        |    | PCL81  | H  | ECL80 | O  | ECL82  | N  |
| 55No | TRM55B | W | GEM | ECL82   | C-S  | No  | E  | 6BM8   | Q  | PCL82  | H  |       |    | ECL86  | O  |
| 5x   |        | E | MUL | ECL83   | C-L  | No  | E  |        |    | PCL83  | H  |       |    |        |    |
| 56No | PA     | E | GEM | ECL84   | C-L  | No  | E  | 6DX8   | Q  | PCL84  | H  |       |    |        |    |
| 61   |        | E | GEM | ECL85   | C-S  | No  | E  |        |    | PCL85  | H  |       |    |        |    |
| 60Jl |        | W | GEM | ECL86   | C-S  | No  | E  | 6GW8   | Q  | PCL86  | H  | ECL82 | O  |        | J  |
| 50Fe | TZ87   | W | TFK | ECL113  | CS   | Ri  | E  | ECL41  | !  | ECL11  | U  | ECL11 | U  | ECL82  | N  |
| 67   | HLR    | E | GEM | ECL200  | C-S  | Dec | E  | PCL200 | H  |        |    |       |    |        |    |
| 69   | HLR    | E | GEM | ECL805  | C-S  | No  | E  | PCL805 | H  |        |    |       |    |        |    |
| 63Mr |        | W | LOR | ECLL800 | CSS  | No  | E  |        |    | ELL80  | E  | ELL80 | E  |        |    |
| 50N  | TZ87   | W | TFK | ED111   | D    | Ri  | EL |        |    |        |    |       |    |        |    |
| 65Jn |        | F | GEM | ED500   | d    | Mno | E  | PD500  | H  |        | [  |       |    |        |    |
| 64Mr |        | W | TFK | ED8000  | D    | No  | E  |        |    |        |    | AD1   | N  |        |    |
| 38   | RH39   | D | TFK | EDD11   | DD + | St8 | E  | ELL 1  | K  | 6N7    | U  |       | &  |        | J  |

| DAT1 | QU1    | L | HSL | TYPE              | SYST | SOC | HZ | PLL   | PA | OGTY  | OA | VRG   | VA | NFG    | NA |
|------|--------|---|-----|-------------------|------|-----|----|-------|----|-------|----|-------|----|--------|----|
| 38Sp | PBD60  | N | PLP | EE1               | P    | Au8 | EX | 4696  | #  |       |    | 4696  | #  |        |    |
| 50Oc | 50FS20 | W | LOR | EEL71             | EL   | Lo8 | E  | UEL71 | H  | UEL71 | Z  | ECL11 | N  | ECL113 | J  |
| 51Ap |        | Y | RFT | EEL171            | EL   | Gno | E  |       |    |       |    |       |    |        |    |
| 34Mr | PBD13  | E | PLP | EF1               | J    | Au8 | E  | CF1   | H  |       |    |       |    | EF 7   | Z  |
| 34Mr | PBD13  | E | PLP | EF2               | F    | Au8 | E  | CF2   | H  | AF2   | U  |       |    | EF 3   | Z  |
| 36Jl | Z      | E | TFK | EF3               | F    | Au8 | E  | CF3   | H  | AF3   | H  |       |    | EF 5   | Z  |
| 35Sp | PBD29  | N | PLP | EF4               | C    | Au5 | EB |       |    |       |    | EF2   | U  | EF5    | U  |
| 36My | PBF30  | E | PLP | EF5               | F    | Au8 | EC |       |    |       |    | AF3   | Z  | EF 9   | C  |
| 36My | PBF30  | E | PLP | EF6               | J    | Au8 | EC | EF12  | K  |       |    | AF7   | Z  | EF40   | T  |
| 36Jl | Z      | E | TFK | EF7               | J    | Au8 | E  | CF7   | H  | AF7   | H  |       |    | EF 6   | Z  |
| 38My | PBD-S  | E | PLP | EF8               | F    | Au8 | EC | EF13  | K  |       |    |       | %  |        | %  |
| 38My | PBD-S  | E | PLP | EF9               | F    | Au8 | EC | EF11  | K  |       |    | EF5   | C  | EF22   | S  |
| 38   | RH39   | D | TFK | EF11              | F    | St8 | EC | EF9   | K  |       |    | AF3   | U  | EF41   | U  |
| 38   | RH39   | D | TFK | EF12              | J    | St8 | EC | EF6   | K  | EF6   | T  | AF7   | U  | EF40   | T  |
| 38   | RH39   | D | TFK | EF13              | F    | St8 | EC | EF8   | K  |       |    | AF3   | N  |        | J  |
| 39Jn |        | D | TFK | EF14              | J    | St8 | E  | EF50  | K  |       |    |       |    | EF42   | U  |
| 50My | 50RM05 | W | TFK | EF15              | F    | St8 | EL | EF43  | K  | EF14  | U  |       |    | EF43   | U  |
| 40<  | PA     | N | PLP | EF21              | F    | Lo9 | EC |       |    | EF9   | S  | EF9   | S  | EF22   | S  |
| 41Fe | PB3    | E | PLP | EF22              | F    | Lo8 | EC | EF11  | K  | EF9   | S  | EF9   | S  | EF41   | S  |
| 40<  | PA     | N | PLP | EF22 <sup>o</sup> | F    | Lo9 | EC |       |    | EF8   | S  | EF8   | S  |        | J  |
| 39   |        | G | MUL | EF36              | J    | Oc  | EC | EF6   | S  | EF6   | S  | EF6   | S  |        |    |
| 4x   |        | G | MUL | EF37              | J    | Oc  | EC | EF36  | F  | EF6   | S  |       |    |        |    |
| 39   |        | G | MUL | EF38              | F    | Oc  | EC | EF8   | S  | EF8   | S  | EF8   | S  |        | J  |
| 39   |        | G | MUL | EF39              | F    | Oc  | EC | EF9   | S  | EF9   | S  | EF9   | S  |        |    |
| 48Sp | PB3A   | E | PLP | EF40              | J    | Ri  | EC | EF12  | K  | EF6   | T  | EF6   | T  | EF86   | S  |
| 47Mr | PB3A   | E | PLP | EF41              | F    | Ri  | EC | EF11  | K  | EF22  | S  | EF9   | S  | EF85   | U  |
| 5x   |        | W | TFK | EF410             | J    | Ri  | EC |       |    | EF41  | °  |       |    |        |    |
| 48Sp | PB3A   | E | PLP | EF42              | J    | Ri  | E  | EF14  | K  |       |    | EF50  | U  | EF80   | U  |
| 50Au | 50FT15 | E | PLP | EF43              | F    | Ri  | E  | EF15  | K  | EF42  | C  | EF50  | N  | EF85   | U  |
| 38   | ?      | E | PLP | EF50              | J    | Lo9 | E  |       |    |       |    | 4673  | N  | EF42   | U  |
| 42Ja | PA     | N | PLP | EF51              | F    | Lo9 | E  |       |    |       |    |       |    |        |    |
| 4x   |        | N | PLP | EF55              | L    | Lo9 | E  |       |    |       |    |       |    |        |    |
| 50Mr | 50RM03 | G | MUL | EF70              | J    | S8r | EC |       |    |       |    |       |    |        |    |
| 53Mr | 53RM04 | G | MUL | EF71              | F    | S8r | EH | 5899  | Q  | EF731 | =  |       |    |        |    |
| 50Mr | 50RM03 | G | MUL | EF72              | J    | S8r | EH |       |    |       |    |       |    |        |    |
| 50Mr | 50RM03 | G | MUL | EF73              | J    | S8r | EC |       |    |       |    |       |    |        |    |
| 50Jl | 50RM07 | E | GEM | EF80              | J    | No  | EP | 6BX6  | Q  |       |    | EF42  | U  | EF184  | C  |
| 5x   |        | E | MUL | EF82              | L    | No  | E  |       |    |       |    |       |    |        |    |
| 55Oc | TRM55A | W | GEM | EF83              | F    | No  | EC |       |    | EF86  | C  | EF86  | °  |        | %  |
| 51Jn |        | E | GEM | EF85              | F    | No  | EP | 6BY7  | Q  |       |    | EF43  | U  | EF89   | O  |
| 54Ja | PA     | W | GEM | EF86              | J    | No  | EC | 6BK8  | Q  |       |    | EF40  | T  |        |    |
| 53Oc | TRM    | W | GEM | EF89              | F    | No  | EC | 6DA6  | Q  |       |    | EF85  | O  |        | J  |
| 49My | PA     | E | GEM | EF91              | J    | Mi7 | EP | 6AM6  | Q  |       |    |       |    |        |    |
| 49Au | PA     | E | VAL | EF92              | F    | Mi7 | EC | 6AM6  | Q  |       |    |       |    |        |    |
| 49De | PA     | W | LOR | EF93              | F    | Mi7 | EP | 6BA6  | Q  | 6BA6  | =  | EF41  | U  |        |    |
| 51No | 51FS22 | W | LOR | EF94              | J    | Mi7 | EP | 6AU6  | Q  | 6AU6  | =  | EF42  | N  |        |    |
| 5x   |        | E | GEM | EF95              | J    | Mi7 | E  | 6AK5  | Q  | 6AK5  | =  |       |    |        |    |
| 6x   |        | Y | RFT | EF96              | J    | Mi7 | EP | 6AG5  | Q  |       |    |       |    |        |    |
| 55Au |        | W | GEM | EF97              | F    | Mi7 | EP | 6ES6  | Q  |       |    |       |    | &      | J  |
| 55Au |        | W | GEM | EF98              | J    | Mi7 | EP | 6ET6  | Q  |       |    |       |    | &      | J  |
| 51Ap |        | Y | RFT | EF172             | J    | Gno | E  |       |    | EF12  | U  |       |    |        |    |
| 51Ap |        | Y | RFT | EF174             | J    | Gno | E  |       |    | EF14  | U  |       |    |        |    |
| 51Ap |        | Y | RFT | EF175             | F    | Gno | E  |       |    | EF15  | U  |       |    |        |    |
| 59Mr | PA     | W | GEM | EF183             | F    | No  | EP | 6EH7  | Q  |       |    | EF85  | C  |        | J  |
| 59Mr | PA     | W | GEM | EF184             | J    | No  | EP | 6EJ7  | Q  |       |    | EF80  | C  |        | J  |
| 5x   |        | E | PLP | EF190             | J    | Mi7 | EP | 6CB6  | Q  |       |    |       |    |        |    |
| 57De |        | W | VAL | EF731             | F    | S8r | EH |       |    | EF71  | =  |       |    |        |    |
| 57De |        | W | VAL | EF732             | J    | S8r | EH |       |    | 5840  | =  |       |    |        |    |
| 52Ap |        | W | GEM | EF800             | J    | No  | E  |       |    |       |    |       |    |        |    |
| 52Ap |        | W | TFK | EF802             | J    | No  | E  |       |    |       |    |       |    |        |    |
| 52Ap |        | W | TFK | EF804             | J    | No  | EC |       |    |       |    |       |    |        |    |
| 52Jl |        | W | TFK | EF804S            | J    | No  | E  |       |    |       |    |       |    |        |    |
| 6x   |        | E | TFK | EF805S            | F    | No  | E  |       |    |       |    |       |    |        |    |

| DAT1 | QU1    | L | HSL | TYPE             | SYST | SOC | HZ | PLL    | PA | OGTY | OA | VRG   | VA  | NFG   | NA   |   |
|------|--------|---|-----|------------------|------|-----|----|--------|----|------|----|-------|-----|-------|------|---|
| 6x   |        | E | TFK | EF806S           | J    | No  | EC |        |    |      |    |       |     |       |      |   |
| 6x   |        | Y | RFT | EF860            | J    | No  | E  | EF800  | K  |      |    |       |     |       |      |   |
| 6x   |        | Y | RFT | EF861            | J    | No  | EP | E180F  | A  |      |    |       |     |       |      |   |
| 6x   |        | Y | RFT | EF866            | J    | No  | EC | EF806S | K  |      |    |       |     |       |      |   |
| 6x   |        | E | LOR | EF905            | J    | Mi7 | E  | E95F   | K  |      |    |       |     |       |      |   |
| 40No | PA     | E | PLP | EFF50            | JJ   | Lo9 | E  | EFF51  | K  |      |    |       |     |       |      |   |
| 4x   |        | E | PLP | EFF51            | JJ   | Lo9 | E  | EFF50  | K  |      |    |       |     |       |      |   |
| 64Fe | HLR    | F | GEM | EFL200           | J-S  | Dec | E  |        |    |      |    |       |     |       |      |   |
| 38Mr | PB2    | E | PLP | EFM1             | FM   | Au8 | EC | EFM11  | K  |      |    | AM2   | Y   |       | %    |   |
| 38   | RH39   | D | TFK | EFM11            | FM   | St8 | EC | EFM1   | K  |      |    | AM2   | Y   |       | %    |   |
| 31<  | 31FB08 | D | SBT | EG200            | Y    | Eu3 | O  | RGN354 | K  |      |    |       |     |       |      |   |
| 32   | 32FB09 | O | OST | EG50             | Y    | Eu5 | S* |        |    |      |    |       |     |       |      |   |
| 32   | 32FB09 | O | OST | EG100            | Y    | Eu5 | S* |        |    |      |    |       |     |       |      |   |
| 35Mr | PBD24  | E | TFK | EH1              | H    | Au8 | E  | CH1    | H  | AH1  | H  |       |     | EH2   | Z    |   |
| 37My | PB2    | E | PLP | EH2              | I    | Au8 | EC |        |    | 6L7  | U  | AH1   | Z   | ECH4  | M    |   |
| 5x   |        | E | TRM | EH81             | I%   | No  | EP | E81H   | #  |      |    |       |     |       |      |   |
| 54Oc | TRM54A | W | VAL | EH90             | I%   | Mi7 | EP | 6CS6   | Q  |      |    |       |     |       |      |   |
| 5x   |        | E | TFK | EH900S           | I%   | Mi7 | E  | 5915   | Q  |      |    | 5915  | Q   |       | J    |   |
| 6x   |        | Y | RFT | EH960            | I%   | Mi7 | E  | 5915   | Q  |      |    | 5915  | Q   |       | J    |   |
| 3x   |        | F | MZF | EI               | E    | U4  | Sd |        |    |      |    |       |     |       |      |   |
| 34Mr | PBD13  | E | TFK | EK1              | K    | Au8 | E  | CK1    | H  | AK2  | H  |       |     | EK2   | Z    |   |
| 36My | PBF30  | E | PLP | EK2              | K    | Au8 | EC |        |    |      |    | AK2   | Z   | EK3   | Z    |   |
| 35Sp | PBD29  | N | PLP | EK2 <sup>9</sup> | K    | Au8 | EB |        |    |      |    | EK1   | Z   | EK2   | Z    |   |
| 38Mr | PB2    | E | PLP | EK3              | U*   | Au8 | E  | 6K8    | K  |      |    | %     | EK2 | Y     | ECH3 | Y |
| 39?  |        | G | MUL | EK32             | K    | Oc  | EC | EK2    | S  | EK2  | S  |       |     |       |      |   |
| 28Jl | 28FB31 | D | GRA | EK4              | C    | Eu4 | O  |        |    |      |    |       |     |       |      |   |
| 51No | 51FS22 | W | LOR | EK90             | N    | Mi7 | EP | 6BE6   | K  | 6BE6 | =  | ECH42 | Y   |       |      |   |
| 34Mr | PBD13  | E | PLP | EL1              | L    | Au8 | E  | CL1    | H  | 41   | S  |       |     | EL2   | H    |   |
| 36My | PBF30  | E | PLP | EL2              | L    | Au8 | EC |        |    | EL1  | H  | EL1   | H   | EL42  | U    |   |
| 35Sp | PBD29  | N | PLP | EL2 <sup>9</sup> | L    | Au8 | E  |        |    | EL1  | C  | EL1   | C   | EL2   | Z    |   |
| 35Sp | PBD29  | N | PLP | EL2 <sup>9</sup> | L    | Au8 | E  |        |    | EL1  | C  | EL1   | C   | EL2   | Z    |   |
| 36Mr | PA     | E | PLP | EL3              | L    | Au8 | E  | AL3(4) | H  |      |    | AL2   | O   | EL3N  | H    |   |
| 38Au | PA     | E | PLP | EL3N             | L    | Au8 | E  | EL11   | K  | EL3  | H  | EL3   | H   | EBL21 | N    |   |
| 36My | PBF30  | E | PLP | EL5              | L    | Au8 | E  | AL5    | H  | 6L6  | R  |       |     | EL6   | Z    |   |
| 38Ja | PA     | E | PLP | EL6              | L    | Au8 | E  | EL12   | K  |      |    | EL5   | Z   | EL34  | U    |   |
| 49Mr | 49FS06 | W | VAL | EL8              | S    | Au8 | E  | UL2    | H  | UL2  | H  | EL2   | N   | EL42  | N    |   |
| 38   | RH39   | D | TFK | EL11             | L    | St8 | E  | EL3    | K  | EL3  | S  | AL4   | R   | EL41  | U    |   |
| 38   | RH39   | D | TFK | EL12             | L    | St8 | E  | EL6    | K  |      |    | AL5   | U   | EL34  | U    |   |
| 4x   |        | D | TFK | EL13             | L    | St8 | E  | EL8    | K  | EL8  | S  | EL2   | N   | EL42  | N    |   |
| 4x   |        | E | PLP | EL30             | L    | Oc  | EC | EL8    | N  |      |    |       |     |       |      |   |
| 38   | HBV    | G | MUL | EL32             | L    | Oc  | E  |        |    | EL2  | S  | EL2   | S   |       |      |   |
| 38   | HBV    | G | MUL | EL33             | L    | Oc  | E  | 6M6    | Q  | EL3  | S  | EL3   | S   |       |      |   |
| 49My | PA     | E | VAL | EL34             | L    | Oc  | E  | EL60   | S  | EL60 | S  | EL12  | N   | EL503 | N    |   |
| 38   | HBV    | G | MUL | EL36             | L    | Oc  | E  |        |    | EL6  | S  | EL6   | S   |       |      |   |
| 4x   |        | G | MUL | EL36alt          | L    | Oc  | E  | EL6    | S  | EL6  | S  |       |     |       |      |   |
| 56   | HLR    | E | GEM | EL36neu          | S    | Oc  | E  | PL36   | H  | PL36 | H  |       |     |       |      |   |
| 4x   |        | G | MUL | EL37             | L    | Oc  | E  | EL34   | T  |      |    |       |     |       |      |   |
| 49No | PA     | E | PLP | EL38             | L    | Oc  | E  |        |    |      |    |       |     | EL36n | N    |   |
| 48   | HLR    | E | PLP | EL39             | L    | Oc  | E  | EL50   | S  | EL50 | S  | 6L6   | N   | EL34  | >    |   |
| 48Ja | PB3A   | E | PLP | EL41             | L    | Ri  | E  | EL11   | K  |      |    | EL3N  | U   | EL84  | U    |   |
| 48Ja | PB3A   | E | PLP | EL42             | L    | Ri  | EC | EL13   | K  |      |    | EL2   | T   | EL95  | T    |   |
| 41Fe | PA     | E | PLP | EL50             | L    | Au8 | E  | 4654   | #  |      |    | 4654  | #   | EL39  | S    |   |
| 40   | PB2    | E | PLP | EL51             | L    | Au8 | E  |        |    |      |    |       |     |       |      |   |
| 48Jn | PA     | E | PLP | EL60             | L    | Lo9 |    | EL34   | S  |      |    | EL50  | U   | EL34  | S    |   |
| 5x   |        | G |     | EL80             | L    | No  | E  | EL41   | S  | EL41 | S  |       |     | EL84  | O    |   |
| 51Jn | PA     | E | GEM | EL81             | L    | No  | E  | PL81   | H  | PL81 | H  |       |     |       |      |   |
| 55Jn | PA     | E | PLP | EL82             | L    | No  | E  |        |    |      |    |       |     |       |      |   |
| 53   | HLR    | E | GEM | EL83             | L    | No  | E  |        |    |      |    |       |     |       |      |   |
| 53Fe | PA     | W | TFK | EL84             | L    | No  | E  |        |    |      |    | EL41  | N   |       | J    |   |
| 5x   |        | G |     | EL85             | L    | No  | E  | EL42   | S  | EL42 | S  |       |     |       |      |   |
| 55No | TRM55B | W | GEM | EL86             | L    | No  | E  | PL84   | H  | UL84 | H  |       |     |       | J    |   |
| 51No | 51FS22 | W | LOR | EL90             | S    | Mi7 | EL | 6AQ5   | K  | 6AQ5 | =  | EL41  | U   |       |      |   |
| 49Au | PA     | E | GEM | EL91             | L    | Mi7 | EC | 6AM5   | Q  |      |    |       |     |       |      |   |

| DAT1 | QU1    | L | HSL | TYPE   | SYST | SOC | HZ | PLL    | PA | OGTY  | OA | VRG   | VA | NFG    | NA |
|------|--------|---|-----|--------|------|-----|----|--------|----|-------|----|-------|----|--------|----|
| 55Oc | TRM55A | W | GEM | EL95   | S    | Mi7 | EC | 6DL5   | Q  |       |    | EL42  | U  |        | J  |
| 50N  | TZ87   | W | TFK | EL152  | S    | SpA | E  |        |    |       |    |       |    |        |    |
| 53   |        | W | TFK | EL153  | S    | SpA | E  |        |    |       |    |       |    |        |    |
| 52No | 52FT21 | W | TFK | EL156  | S    | S10 | E  |        |    |       |    |       |    |        |    |
| 51Ap | 51FT07 | Y | RFT | EL171  | L    | Gno | E  |        |    | EL11  | U  |       |    |        |    |
| 51Ap | 51FT07 | Y | RFT | EL172  | L    | Gno | E  |        |    | EL12  | R  |       |    |        |    |
| 6x   |        | E | MUL | EL180  | S    | No  | E  | 12BY7  | Q  |       |    |       |    |        |    |
| 65Au | 65RM08 | E | GEM | EL183  | S    | No  | E  |        |    |       |    |       |    |        |    |
| 60   | HLR    | F |     | EL300  | S    | Oc  | E  | PL300  | H  | 6FN5  | #  | EL36  | <  |        |    |
| 6x   |        | E | GEM | EL500  | S    | Mno | E  | PL500  | H  |       |    |       |    |        |    |
| 66Ja |        | W | VAL | EL503  | S    | Mno | E  | 8278   | Q  |       |    | EL34  | U  |        | J  |
| 6x   |        | E | GEM | EL504  | S    | Mno | E  | PL504  | H  |       |    |       |    |        |    |
| 65Jn |        | F | GEM | EL505  | S    | Mno | E  |        |    | PL505 | H  |       |    |        |    |
| 65Jl |        | G | BMA | EL506  | S    | Mno | E  |        |    |       |    |       |    |        |    |
| 6x   |        | E | GEM | EL508  | S    | Mno | E  | PL508  | H  |       |    |       |    |        |    |
| 6x   |        | E | GEM | EL509  | S    | Mno | E  | PL509  | H  |       |    |       |    |        |    |
| 6x   |        | E | GEM | EL519  | S    | Mno | E  | PL519  | H  |       |    |       |    |        |    |
| 6x   |        | E | GEM | EL802  | S ?  | No  | E  | PL802  | H  |       |    |       |    |        |    |
| 6x   |        | E | GEM | EL803  | L    | No  | E  | EL83   | B  |       |    |       |    |        |    |
| 6x   |        | E | TFK | EL804  | S ?  | No  | E  |        |    |       |    |       |    |        |    |
| 6x   |        | E | GEM | EL805  | S ?  | No  | E  | PL805  | H  |       |    |       |    |        |    |
| 6x   |        | E | MUL | EL821  | S ?  | No  | E  | 6CH6   | Q  |       |    |       |    |        |    |
| 6x   |        | Y | RFT | EL861  | S ?  | No  | E  | E81L   | A  |       |    |       |    |        |    |
| 6x   |        | Y | RFT | EL862  | S ?  | No  | E  | D3a    | A  |       |    |       |    |        |    |
| 6x   |        | Y | RFT | EL863  | S ?  | No  | E  | EL83   | K  |       |    |       |    |        |    |
| 63Jn | 63FS12 | W | TFK | EL3010 | S    | Oc  | E  |        |    |       |    |       |    |        |    |
| 64Jn | 64FS12 | W | TFK | EL8000 | S    | No  | E  |        |    |       |    |       |    |        |    |
| 38Ap | PB2    | E | PLP | ELL1   | LL   | Au8 | EL | EDD11  | K  |       |    |       |    | ELL80  | N  |
| 60Jl | 60FS13 | W | LOR | ELL80  | SS   | No  | E  |        |    | EL95  | E  | ELL1  | N  | ECLL8  | N  |
| 36My | PBF30  | E | PLP | EM1    | MC   | Au8 | EC | AM1    | H  | 6E5   | U  | 4678  | #  | EM4    | M  |
| 38Mr | PA     | G | MUL | EM3    | MC   | Au8 | EC |        |    | EM1   | C  | EM1   | C  | EM4    | M  |
| 39Mr | PB2    | E | PLP | EM4    | MMCC | Au8 | EC | EM11   | T  |       |    | EM1   | E  | EM34   | S  |
| 47>  |        | W | TFK | EM5    | MMCC | Au8 | EC | EM4    | C  | EM11  | S  |       |    | EM80   | U  |
| 39Jn | 39FV13 | D | TFK | EM11   | MMCC | St8 | EC | EM4    | T  |       |    | EFM11 | J  | EM35   | S  |
| 50Mr | PA     | E | VAL | EM34   | MMCC | Oc  | EC | EM35   | C  | EM4   | S  | EM4   | S  | EM80   | U  |
| 52Mr | TRM    | W | TFK | EM35   | MMCC | Oc  | EC | EM34   | C  | EM11  | S  | EM11  | S  | EM80   | U  |
| 50Sp | 50FT18 | W | LOR | EM71   | MC   | Lo8 | EP | HM71   | H  |       |    | EM11  | U  | EM85   | U  |
| 52Au | 52FS17 | W | LOR | EM72   | MC   | Lo8 | EP |        |    | EM71  | L  |       |    |        |    |
| 53Au | 53FS16 | W | GEM | EM80   | MC   | No  | E  | 6BR5   | Q  | EM85  | X  | EM34  | U  | EM84   | O  |
| 56Ap | PA     | U | TRM | EM81   | MC   | No  | EP | EM80   | K  | EM80  | L  |       |    | EM84   | U  |
| 56Ap | 56FS07 | Y | RFT | EM83   | MMCC | No  | EP | EMM801 | O  |       | %  |       | %  |        | %  |
| 57Sp | 57FS18 | W | LOR | EM84   | MC   | No  | E  | 6FG6   | Q  | EM840 | =  | EM80  | O  | EM84a  | Z  |
| 61Ap | 61FS07 | W | LOR | EM84a  | MC   | No  | E  |        |    | EM84  | Z  | EM84  | Z  |        | J  |
| 52Jl | 52FS14 | D | LOR | EM85   | MC   | No  | EP |        |    | EM71  | T  | EM71  | L  | EM80   | X  |
| 61Au | TRM618 | E | GEM | EM87   | MC   | No  | EP | 6HU6   | Q  | EM84  | Z  |       |    |        | J  |
| 51Ap | 51FT07 | Y | RFT | EM171  | MMCC | Gno | E  |        |    | EM11  | S  |       |    |        |    |
| 67My | 67FS09 | W | TFK | EM800  | MC   | No  | EP |        |    |       | L  |       | %  |        | %  |
| 56Sp | 56FS18 | W | LOR | EM840  | MC   | No  | E  |        |    | E82M  | N  | EM85  | O  | EM84   | =  |
| 56My | TRM565 | W | TFK | EMM801 | MMCC | No  | EP |        |    | EM83  | N  |       | %  |        | %  |
| 64Ja | 64FS02 | W | LOR | EMM803 | MMCC | No  | EL |        |    | EM84  | E  |       | %  |        | %  |
| 49Au | 50FT04 | E | PLP | EQ40   | Q    | Ri  | EC | EQ80   | S  |       |    |       | %  | EQ80   | S  |
| 49Jl | 50FS06 | E | PLP | EQ80   | Q    | No  | EC | EQ40   | S  |       |    |       | %  | EABC80 | Y  |
| 6x   |        | X | ELS | ER21A  | T    | No  | N  |        |    |       |    |       |    |        |    |
| 6x   |        | X | ELS | ER32A  | T    | S8r | N  |        |    |       |    |       |    |        |    |
| 1x   |        | D | TFK | EVE170 | C    | TFK | O  |        |    |       |    |       |    |        |    |
| 16   | TF25   | D | TFK | EVE173 | C    | TFK | O  |        |    |       |    |       |    |        |    |
| 14Jl | TF25   | D | TFK | EVN94  | C    | ?   | ?  |        |    |       |    |       |    |        |    |
| 14?  | TF25   | D | TFK | EVN129 | C    | ?   | ?  |        |    |       |    |       |    |        |    |
| 1x   | TF25   | D | TFK | EVN171 | C    | TFK | O  |        |    |       |    |       |    |        |    |
| 49Fe | 49RM02 |   | PLP | EW60   | W    | Lo8 | E  |        |    |       |    |       |    |        |    |
| 50Mr | PA     | E | GEM | EY51   | y    | SpA | E  | 6X2    | Q  |       |    |       |    |        |    |
| 53Mr | 53RM04 | G | MUL | EY70   | Y    | S8r | EL |        |    |       |    |       |    |        |    |
| 51Mr | PA     | E | GEM | EY80   | Y    | No  | E  |        |    |       |    |       |    |        |    |



| DAT1 | QU1    | L | HSL | TYPE             | SYST | SOC | HZ | PLL    | PA | OGTY | OA | VRG    | VA | NFG   | NA |
|------|--------|---|-----|------------------|------|-----|----|--------|----|------|----|--------|----|-------|----|
| 55Mr | PA     | E | GEM | EY81             | Y    | No  | E  |        |    |      |    |        |    |       |    |
| 55Ap | PA     | E | GEM | EY82             | Y    | No  | E  | PY82   | H  |      |    |        |    |       |    |
| 56Ap | PA     | W | VAL | EY86             | y    | No  | E  |        |    |      |    |        |    |       |    |
| 57Oc | HLR    | E | GEM | EY88             | Y    | No  | E  | PY88   | H  |      |    |        |    |       |    |
| 49Au | PA     | E | VAL | EY91             | Y    | Mi7 | E  |        |    |      |    |        |    |       |    |
| 65Jn | 65RM06 | F | GEM | EY500            | Y    | Mno | E  |        |    |      |    |        |    |       |    |
| 65Jn | 65RM06 | F | GEM | EY501            | y    | Mno | E  |        |    |      |    |        |    |       |    |
| 5x   |        | Y |     | EYY13            | YY   | S10 | E  |        |    |      |    |        |    |       |    |
| 34Mr | PBD13  | E | PLP | EZ1              | Z    | Au8 | E  | FZ1    | H  | 84   | C  |        | &  | EZ2   | Z  |
| 36My | PBF30  | E | PLP | EZ2              | Z    | Au8 | E  | EZ11   | K  |      |    | EZ1    | <  | EZ41  | N  |
| 35Sp | PBD29  | N | PLP | EZ2 <sup>9</sup> | Z    | Au8 | E  |        |    |      |    | EZ1    | <  | EZ2   | >  |
| 36My | PBF30  | E | TRM | EZ3              | Z    | Au8 | E  | EZ12   | K  |      |    |        |    | EZ40  | N  |
| 36My | PBF30  | E | PLP | EZ4              | Z    | Au8 | E  |        |    | 5V4  | U  | 1815   | U  | GZ32  | N  |
| 38   | RH39   | D | TFK | EZ11             | Z    | St8 | E  | EZ2    | K  | 6ZY5 | T  | EZ1    | U  | EZ41  | U  |
| 38   |        | D | TFK | EZ12             | Z    | St8 | E  | EZ3    | K  | EZ3  | R  | R_2004 | U  | EZ81  | N  |
| 49Au | PA     | G | MUL | EZ35             | Z    | Oc  | EX | 6X5    | Q  | 6X5  | Q  |        |    | EZ90  | S  |
| 48Sp | PB3A   | E | PLP | EZ40             | Z    | Ri  | EX | EZ12   | K  |      |    | EZ3    | U  | EZ80  | S  |
| 5x   |        | F | MZF | EZ40A            | Z    | Ri  | EX | GZ41   | H  | 6X4  | S  | EZ40   | >  | EZ90  | S  |
| 50Fe | 50FT03 | W | TFK | EZ40(TF)         | Z    | Ri  | E  | EZ40   | H  | EZ40 | H  |        |    | EZ80  | R  |
| 49Au | PB3A   | E | PLP | EZ41             | Z    | Ri  | E  |        |    |      |    | EZ2    | T  |       | J  |
| 52Fe | PA     | E | GEM | EZ80             | Z    | No  | EX | 6V4    | Q  | EZ40 | S  | EZ40   | S  |       | J  |
| 56Ja | 56FS01 | W | VAL | EZ81             | Z    | No  | E  | 6CA4   | Q  |      |    | EZ4    | N  |       | J  |
| 5x   |        | E | GEM | EZ90             | Z    | Mi7 | EX | 6X4    | Q  | 6X4  | =  |        |    | 6BX4  | >  |
| 5x   |        | E | PLP | EZ91             | Z    | Mi7 | E  | 6BX4   | Q  |      |    |        |    |       | J  |
| 6x   |        | E | LOR | EZ900            | Z    | Mi7 | EX | EZ90   | B  | EZ90 | B  |        |    |       | J  |
| 21Au | PA     | N | PLP | F                | D    | Eu4 | O  |        |    |      |    |        |    |       |    |
| 28No | PA     | N | PLP | F109             | C    | Eu4 | D  |        |    |      |    |        |    |       |    |
| 28No | PA     | N | PLP | F209             | C    | Eu4 | J  |        |    |      |    |        |    |       |    |
| 27   | NHV923 | E | PLP | F215             | C    | Eu5 | J  |        |    |      |    |        |    |       |    |
| 30Jl | PA     | E | PLP | F410             | D    | Eu4 | O  |        |    |      |    |        |    |       |    |
| 30Jl | PA     | E | PLP | F443             | L    | Eu5 | O  |        |    |      |    |        |    | F443N |    |
| 30   | VV40   | E | PLP | F443N            | L    | Eu5 | O  | L495D  | Q  |      |    | F443   |    | EL60  | U  |
| 31Oc | PA     | E | PLP | F460             | C    | Eu5 | O  | VR505  |    |      |    |        |    |       |    |
| 30Jn | PA     | E | PLP | F704             | D    | Eu4 | W  |        |    |      |    |        |    |       |    |
| 32De | PA     | N | PLP | F708             | D    | Eu4 | W  |        |    |      |    |        |    |       |    |
| 4x   |        | I | PLP | FDD20            | DD + | Au8 | F  | 6N7    | R  | 6N7  | R  |        |    |       |    |
| 34Mr | PBD13  | E | GEM | FZ1              | Z    | Au8 | F  | EZ1    | H  |      |    |        |    | %     | %  |
| 21Au | PA     | N | PLP | G I              | D    | MOc | E  |        |    |      |    |        |    |       |    |
| 21Au | PA     | N | PLP | G II             | D    | E27 | E  |        |    |      |    |        |    |       |    |
| 29<  | 29FB07 | D | AEG | G 132            | X    | Eu4 | N  | R_1500 | K  |      |    |        |    |       |    |
| 27?  |        | D | VAL | G354             | Y    | Eu3 | O  | RGN354 | K  | 1810 | =  |        |    |       |    |
| 30   | %'     | D | VAL | G425             | Y    | Eu3 | O  |        |    |      |    |        |    |       |    |
| 30   | %'     | D | VAL | G430             | Z    | Eu4 | O  | RGN504 |    |      |    |        |    |       |    |
| 30   | %'     | D | VAL | G460             | Z    | Eu4 | O  |        |    |      |    |        |    |       |    |
| 29   | %'     | D | VAL | G490             | Z    | Eu4 | O  |        |    |      |    |        |    |       |    |
| 29   | %'     | D | VAL | G495             | Y    | Eu3 | O  |        |    | 505  | =  |        |    |       |    |
| 29   |        | D | VAL | G504             | Z    | Eu4 | O  | RGN504 | K  | 1801 | =  |        |    |       |    |
| 32   |        | D | VAL | G564             | Y    | Eu3 | O  | RGN564 | K  | 1803 | =  |        |    |       |    |
| 29   | %'     | D | VAL | G715             | Y    | Eu3 | S  |        |    | 1562 | =  |        |    |       |    |
| 28   |        | D | VAL | G1054            | Z    | Eu4 | O  | R_1054 | K  | 506  | =  |        |    |       |    |
| 31?  |        | D | VAL | G1064            | Z    | Eu4 | O  | R_1064 | K  | 1805 | =  |        |    |       |    |
| 31?  |        | D | VAL | G1404            | Y    | Eu3 | O  | R_1404 | K  | 1832 | =  |        |    |       |    |
| 27?  |        | D | VAL | G1503            | Z    | Eu4 | Jd | R_1503 | K  | 1201 | =  |        |    |       |    |
| 29   |        | D | VAL | G2004            | Z    | Eu4 | O  | R_2004 | K  | 1561 | =  |        |    |       |    |
| 31   |        | D | VAL | G2005            | Z    | Eu4 | Gd | R_2005 | K  | 1560 | =  |        |    |       |    |
| 30   | %'     | D | VAL | G2200            | Z    | Eu4 | M  |        |    |      |    |        |    |       |    |
| 30   | %'     | D | VAL | G2340            | X    | Eu4 | M  | 1701   | Q  |      |    |        |    |       |    |
| 31   |        | D | VAL | G2504            | Z    | Eu4 | O  | R_2504 | K  | 1815 | =  |        |    |       |    |
| 29   | %'     | D | VAL | G3140            | Z    | Eu4 | J  |        |    |      |    |        |    |       |    |
| x    |        | D | VAL | G4004            | Z    | Eu4 | O  | R_4004 | K  |      |    |        |    |       |    |
| 28Jl | 28B32  | H | TRM | G406             |      | Eu4 |    |        |    |      |    |        |    |       |    |
| 28Jl | 28B32  | H | TRM | G408             |      | Eu4 |    |        |    |      |    |        |    |       |    |
| 29   | %'     | D | VAL | G4200            | Z    | Eu4 | O  |        |    |      |    |        |    |       |    |

| DAT1 | QU1    | L | HSL | TYPE     | SYST | SOC | HZ | PLL    | PA | OGTY   | OA | VRG   | VA | NFG   | NA |
|------|--------|---|-----|----------|------|-----|----|--------|----|--------|----|-------|----|-------|----|
| 30   | %'     | D | VAL | G4205    | Y    | Eu3 | O  |        |    |        |    |       |    |       |    |
| 27Mr | 27FB13 | A | HOV | Garanti2 | C    |     |    |        |    |        |    |       |    |       |    |
| 27Mr | 27FB13 | A | HOV | Garantie | C    |     |    |        |    |        |    |       |    |       |    |
| 28Jl | 28FB31 | D | DEL | Gigant   | D    |     |    |        |    |        |    |       |    |       |    |
| 31De | 70Y    | A | MAJ | G-2-S    | B    | U5  | J  |        |    |        |    |       | [  | G-4-S | U  |
| 32?  | 70Y    | A | MAJ | G-4-S    | B    | U5  | J  |        |    |        |    | G-2-S |    | 2S/4S | #  |
| 6x   |        | X | CER | GR15     | T    | No  | N  |        |    |        |    |       |    |       |    |
| 6x   |        | X | CER | GR16     | T    | No  | N  |        |    |        |    |       |    |       |    |
| 6x   |        | X | CER | GR17     | T    | No  | N  |        |    |        |    |       |    |       |    |
| 5x   |        | D | SYL | GR20     | V    | Eu4 | N  |        |    |        |    |       |    |       |    |
| 29<  | 29FB09 | D | TKD | GT130    | Z    | Eu4 | O  |        |    |        |    |       |    |       |    |
| 29<  | 29FB09 | D | TKD | GT138    | Y    | Eu4 | O  |        |    |        |    |       |    |       |    |
| 65Jl | 65RM07 | G | MUL | GY501    | y    | Mno | S  |        |    |        |    |       |    |       |    |
| 49Jl | PA     | E | PLP | GZ32     | Z    | Oc  | G  |        |    |        |    | 5V4   | <  |       | ]  |
| 56Ja | 56FS01 | W | VAL | GZ34     | Z    | Oc  | G  |        |    |        |    | GZ32  | Z  |       | ]  |
| 49Fe | %      | F | MZF | GZ40     | Z    | Ri  | G  | EZ40   | H  | EZ40   | H  | 1883  | U  | EZ80  | R  |
| 5x   | HLR    | F | MZF | GZ41     | Z    | Ri  | G  | EZ40A  | H  | 6X4    | R  | GZ40  | >  | EZ90  | R  |
| 21Au | PA     | N | PLP | H        | D    | MOc | W  |        |    |        |    |       |    |       |    |
| 28   | %'     | D | VAL | H125     | C    | Eu4 | Y  |        |    |        |    |       |    | %     | %  |
| 28   | VV40   | D | VAL | H125D    | E    | Eu4 | Y  | C142   | Q  | C109   | =  |       |    |       |    |
| 29<  | %'     | D | VAL | H125spez | C    | Eu4 | Y  |        |    |        |    |       |    |       |    |
| 27Sp | 27FB39 | D | VAL | H206     | C    | Eu4 | K  | RE062  | K  |        |    |       |    |       |    |
| 28<  | %'     | D | VAL | H206 Sp  | C    | Eu4 | K  |        |    |        |    |       |    |       |    |
| 27Sp | 27FB39 | D | VAL | H406     | C    | Eu4 | O  | RE074  | K  | A409   | C  |       |    |       |    |
| 28Jl | 28FB31 | D | VAL | H406D    | E    | Eu4 | O  | RES094 | K  | A442   | Q  |       |    |       |    |
| 27Sp | 27FB39 | D | VAL | H406 Sp  | C    | Eu4 | O  |        |    |        |    |       |    |       |    |
| 29   | %'     | D | VAL | H407spez | C    | Eu4 | O  | RE074n | K  | A410N  | N  |       |    |       |    |
| 30   | VV40   | D | VAL | H410D    | E    | Eu4 | O  | RES044 | K  | B442   |    |       |    |       |    |
| 32No | 32FB46 | D | VAL | H1818D   | E    | Eu4 | B  | R_1818 | K  | B2052T | Q  |       |    |       |    |
| 32   | VV40   | D | VAL | H1918D   | E°   | Eu4 | B  | R_1819 | K  | B2045  | Q  |       |    |       |    |
| 31   | VV40   | D | VAL | H2018D   | E    | Eu5 | B  | R_1820 | K  | B2042  | =  |       |    |       |    |
| 33   | VV40   | D | VAL | H2518D   | J    | Eu5 | B  | R_1884 | K  | B2046  | =  |       |    |       |    |
| 33   | %'     | D | VAL | H2618D   | F    | Eu5 | B  | R_1894 | K  | B2047  | =  |       |    |       |    |
| 29   | %'     | D | VAL | H4080D   | E    | Eu5 | A  | R_1204 | K  | E442S  | =  |       |    |       |    |
| 28   | DRM    | D | VAL | H4100D   | E    | Eu5 | A  |        |    | E442   | Q  |       |    |       |    |
| 29<  | %'     | D | VAL | H4100spz | D    |     |    |        |    |        |    |       |    |       |    |
| 31Au | 31FB35 | D | VAL | H4111D   | E    | Eu5 | A  | R_1264 | K  | E462   | =  |       |    |       |    |
| 33   | %'     | D | VAL | H4115D   | E°   | Eu5 | A  | R_1274 | K  | E455   | =  |       |    |       |    |
| 32Sp | 32FB41 | D | VAL | H4125D   | E°   | Eu5 | A  | R_1214 | K  | E445   | =  |       |    |       |    |
| 33   | %'     | D | VAL | H4125D   | E°   | Eu5 | A  | R_1214 | K  | E445   | =  |       |    |       |    |
| 33   | %'     | D | VAL | H4128D   | J    | Eu5 | A  | R_1284 | K  | E446   | =  |       |    |       |    |
| 33   | %'     | D | VAL | H4129D   | F    | Eu5 | A  | R_1294 | K  | E447   | =  | E455  | C  |       |    |
| 28Jl | 28FB31 | D | IDL | HeliodIV | C    | Eu4 | O  |        |    |        |    |       |    |       |    |
| 5x   |        | W | LOR | HAA91    | AA   | Mi7 | HF | 12AL5  | Q  | EAA91  | H  |       |    |       | ]  |
| 52Jl | 52FT13 | W | LOR | HABC80   | A-BC | No  | H  | 19T8   | Q  | UABC80 | H  |       |    |       | ]  |
| 5x   |        | W | LOR | HBC90    | BC   | Mi7 | HF | 12AT6  | Q  | EBC90  | H  |       |    | HBC91 | C  |
| 51No | 51FS22 | W | LOR | HBC91    | BC   | Mi7 | HF | 12AV6  | Q  | EBC91  | H  |       |    |       | ]  |
| 5x   |        | W | LOR | HCC85    | C-C  | Mi7 | H  | 17EW8  | Q  | UCC85  | H  | ECC81 | O  |       | ]  |
| 52Au | 52FS16 | W | LOR | HCH81    | CI   | Mi7 | HF | 12AJ8  | Q  | UCH81  | H  |       |    |       | ]  |
| 29?  | ERB    | D | LWO | HF29     | CD   | SpS | O  |        |    |        |    |       |    |       |    |
| 28   | ERB    | D | LWO | HF30     | CC   | SpS | O  |        |    |        |    |       |    |       |    |
| 5x   |        | U | TRM | HF85     | F    | Mi7 | HF |        |    | EF85   | H  |       |    |       | ]  |
| 51No | 51FS22 | W | LOR | HF93     | F    | Mi7 | HF | 12BA6  | Q  | EF93   | H  |       |    |       | ]  |
| 51No | 51FS22 | W | LOR | HF94     | J    | Mi7 | HF | 12AU6  | Q  | EF94   | H  |       |    |       | ]  |
| 51No | 51FS22 | W | LOR | HK90     | N    | Mi7 | HF | 12BE6  | Q  | EK90   | H  |       |    |       | ]  |
| 5x   |        | W | LOR | HL84     | L    | No  | H  |        |    | UL84   | H  |       |    |       | ]  |
| 51No | 51FS22 | W | LOR | HL90     | S    | Mi7 | H  | 19AQ5  | Q  | EL90   | H  |       |    |       | ]  |
| 5x   |        | W | LOR | HL92     | S    | Mi7 | H  | 50C5   | Q  | 50C5   |    |       |    |       | ]  |
| 55Mr | PA     | W | LOR | HL94     | S    | Mi7 | H  | 30A5   | Q  | 30A5   |    |       |    |       | ]  |
| 5x   |        | W | LOR | HM34     | MMCC | Oc  | H  |        |    | EM34   | H  | 1629  | U  | HM71  |    |
| 51Sp | 51FT18 | W | LOR | HM71     | MC   | Lo8 | HF | 12M71  | Q  | EM71   | H  | HM34  | U  | HM85  | U  |
| 52De | 52FS23 | W | LOR | HM85     | MMCC | No  | HF |        |    | EM85   | H  | HM71  | U  |       | ]  |
| 34<  | HLR    | H | TRM | HP1018   | J    | Hx6 | B  |        |    |        |    |       |    |       |    |

| DAT1 | QU1    | L | HSL | TYPE   | SYST | SOC | HZ | PLL    | PA | OGTY   | OA | VRG   | VA | NFG   | NA |
|------|--------|---|-----|--------|------|-----|----|--------|----|--------|----|-------|----|-------|----|
| 34<  | HLR    | H | TRM | HP1118 | F    | Hx6 | B  |        |    |        |    |       |    |       |    |
| 5x   |        | W | LOR | HY90   | Y    | Mi7 | H  | 35W4   | Q  | 35W4   |    |       |    |       | J  |
| 28   | ERB    | D | VAL | HZ420  | CC   | SpS | O  |        |    |        |    |       |    |       |    |
| 21Au | PA     | N | PLP | I      | D    | MOc | Q  |        |    |        |    |       |    |       |    |
| 1Jl  | %      | N | PLP | IDZ    |      | -   | -  |        |    |        |    |       |    |       |    |
| 19   | %      | N | PLP | IDZ A  |      |     |    | IDZ    | #  |        |    |       |    |       |    |
| 19   | %      | N | PLP | IDZ B  |      |     | K  |        |    |        |    |       |    |       |    |
| 19   | %      | N | PLP | IDZ C  |      |     |    |        |    |        |    |       |    |       |    |
| 27Sp | 27FB39 | D | DEL | K/AH   | C    |     |    |        |    |        |    |       |    |       |    |
| 27Sp | 27FB39 | D | DEL | K/N    | C    |     |    |        |    |        |    |       |    |       |    |
| 35Jl | %      | E | GEM | KB1    | B    | Au5 | K  |        |    |        |    |       |    | KB2   | W  |
| 35Sp | PA     | E | GEM | KB2    | B    | Au5 | Ki | AB2    | Z  | AB2    | Z  | KB1   | W  |       | %  |
| 35Mr | PBD24  | E | GEM | KBC1   | BC   | Au8 | K  |        |    |        |    |       |    | DBC21 | U  |
| 34   | FBT    | E | GEM | KC1    | C    | Au8 | K  |        |    |        |    | B 228 | U  | DC11  | N  |
| 35   | %      | D | GEM | KC1-ST | C    | Eu4 | K  | KC1    | S  | KC1    | S  |       |    |       |    |
| 35Sp | PA     | E | GEM | KC3    | C    | Au8 | K  |        |    |        |    | B2017 | N  |       |    |
| 38Ap | PB2    | E | GEM | KC4    | C    | Au8 | K  |        |    |        |    | KC1   | Z  |       |    |
| 38Oc | PA     | N | PLP | KC50   | C    | SpS | K  |        |    |        |    |       |    |       |    |
| 38Oc | PA     | N | PLP | KC51   | C    | SpS | K  |        |    |        |    |       |    |       |    |
| 38De | PA     | E | GEM | KCH1   | G    | Au8 | K  |        |    |        |    | KK2   | Y  | DCH11 | U  |
| 42Fe | PA     | N | PLP | KD50   | D    | SpS | K  |        |    |        |    |       |    |       |    |
| 35Sp | PA     | E | GEM | KDD1   | DD + | Au8 | K  |        |    | 19     | T  |       | &  | DDD11 | U  |
| 42Fe | PA     | N | PLP | KE50   | E    | SpS | K  |        |    |        |    |       |    |       |    |
| 34No | PBD20  | E | PLP | KF1    | J    | Hx7 | K  |        |    |        |    |       |    | KF4   | U  |
| 34No | PBD20  | E | PLP | KF2    | F    | Hx7 | K  |        |    |        |    |       |    | KF3   | U  |
| 35Sp | PA     | E | GEM | KF3    | F    | Au8 | K  |        |    |        |    | KF2   | U  | DF11  | U  |
| 35Sp | PA     | E | GEM | KF4    | J    | Au8 | K  |        |    |        |    | KF1   | U  | DF11  | N  |
| 35Jl | %      | E | TFK | KF7    | J    | Au8 | K  | KF4    | X  |        |    |       |    | KF4   | X  |
| 35Jl | %      | E | TFK | KF8    | F    | Au8 | K  | KF3    | X  |        |    |       |    | KF3   | X  |
| 38Ap | PB2    | E | GEM | KH1    | H    | Au8 | K  |        |    |        |    | RE074 | Y  |       |    |
| 35Mr | PBD24  | E | GEM | KK2    | K    | Au8 | K  |        |    |        |    | RE074 | Y  | DK21  | U  |
| 35Oc | PA     | E | GEM | KL1    | L    | Au8 | K  |        |    |        |    |       |    | KL4   | C  |
| 35<  | %      | D | GEM | KL1-ST | L    | Eu4 | K  | KL1    | S  | KL1    | S  |       |    |       |    |
| 36Fe | PBD34  | E | GEM | KL2    | L    | Au8 | K  |        |    |        |    | KL1   | <  |       |    |
| 36Fe | PBD34  | E | GEM | KL4    | L    | Au8 | K  |        |    |        |    | KL1   | C  | KL5   | Z  |
| 38De | PA     | E | GEM | KL5    | L    | Au8 | K  |        |    |        |    | KL4   | Z  | DL11  | N  |
| 32Au | 70Y    | A | KRD | KR20   | CC?  |     |    |        |    |        |    |       |    |       |    |
| 32Au | 70Y    | A | KRD | KR22   | CC?  |     |    |        |    |        |    |       |    |       |    |
| 3x   |        | G | MOV | KT61   | S    | Oc  | E  | EL33   | N  |        |    |       |    |       |    |
| 3x   |        | G | MOV | KTW61  | F    | Oc  | EP | 6M7    | N  |        |    |       |    |       |    |
| 27Sp | 27FB39 | N | HOL | L2     | C    | Eu4 | K  |        |    |        |    |       |    |       |    |
| 27Sp | 27FB39 | N | HOL | L4     | C    | Eu4 | G  |        |    |        |    |       |    |       |    |
| 28   | ERB    | D | VAL | L160   | D    | Eu4 | Y  | D105   | Q  |        |    |       |    | %     | %  |
| 28   | VV40   | D | VAL | L160D  | D    | Eu4 | Y  | D143   | Q  | D143   | =  |       |    |       |    |
| 27Sp | 27FB39 | D | VAL | L215   | D    | Eu4 | K  | B205   | Q  |        |    |       |    |       |    |
| 27Sp | 27FB39 | D | VAL | L410   | D    | Eu4 | O  | RE114  | K  | B406   | =  |       |    |       |    |
| 29<  | ERB    | D | VAL | L4100  | D    |     |    |        |    |        |    |       |    |       |    |
| 28Jl | 28FB31 | D | VAL | L413   | D    | Eu4 | O  | RE134  | K  | B409   | =  |       |    |       |    |
| 27Sp | 27FB39 | D | VAL | L415   | D    | Eu4 | O  | B405   | Q  |        |    |       |    |       |    |
| 28<  | 30FB10 | D | VAL | L415   | D    | Eu4 | O  |        |    |        |    |       |    |       |    |
| 28Jl | 28FB31 | D | VAL | L415D  | L    | Eu4 | O  | RES174 | K  | B443   | =  |       | [  | L416D | C  |
| 30   | VV40   | D | VAL | L416D  | L    | Eu5 | O  | RES164 | K  | B443S  | =  |       |    |       |    |
| 29   | ERB    | D | VAL | L425D  | L    | Eu5 | O  | RES364 | K  | C443   | =  |       |    |       |    |
| 31Au | 31FB33 | D | VAL | L427D  | L    | Eu5 | O  | RES374 | K  | C443N  | =  |       |    |       |    |
| 29   | VV40   | D | VAL | L490D  | L    | Eu5 | O  |        |    |        |    |       |    |       |    |
| 30   | VV40   | D | VAL | L491D  | L    | Eu5 | O  | RES664 | K  | E443N  | ?  |       |    |       |    |
| 30Mr | 30FB15 | D | VAL | L495D  | L    | Eu5 | O  | F443N  | Q  | F443N  | =  |       |    |       |    |
| 32   | VV40   | D | VAL | L496D  | L    | Eu5 | O  | RES964 | K  | E443H  | =  | L491D | Z  | AL1   | S  |
| 30<  | ERB    | D | VAL | L510D  | L    | Eu4 | G  | B543   | Q  | RES105 | K  |       |    |       |    |
| 31   | 31FB41 | O | OST | L1525  | D    | Eu5 | S* |        |    |        |    |       |    |       |    |
| 31   | %'     | D | VAL | L2218  | D    | Eu5 | B  | R_1822 | K  | B2006  | =  |       |    |       |    |
| 31   | %'     | D | VAL | L2318D | L    | Eu5 | B  | R_1823 | K  | B2043  | =  |       |    |       |    |
| 29   | %'     | D | VAL | L4100  | D    | Eu5 | A  | E409   | Q  |        |    |       |    |       |    |

| DAT1 | QU1    | L | HSL | TYPE     | SYST | SOC | HZ | PLL    | PA | OGTY  | OA | VRG | VA | NFG | NA |
|------|--------|---|-----|----------|------|-----|----|--------|----|-------|----|-----|----|-----|----|
| 32Ap | 32FB17 | D | VAL | L4150D   | L    | Eu5 | B  | R_1374 | K  | E453  | =  |     |    |     |    |
| 28   | ERB    | D | VAL | L4180    | D    | Eu4 | O  |        |    |       |    |     |    |     |    |
| 26<  | %      | D | LWO | LA74     | C    | Eu4 | O  |        |    |       |    |     |    |     |    |
| 26<  | %      | D | LWO | LA75     | C    | Eu4 | J  |        |    |       |    |     |    |     |    |
| 25   | 66FG05 | D | LWO | LA77     | C    | Eu4 | D  |        |    |       |    |     |    |     |    |
| 25   | %      | D | LWO | LA77     | C    | Eu4 | S  |        |    |       |    |     |    |     |    |
| 30   | ERB    | D | LWO | LA203    | C    | Eu5 | A  | REN904 | K  |       |    |     |    |     |    |
| 28   | ERB    | D | LWO | LAP513   | L    | Eu5 | O  | B443S  | Q  |       |    |     |    |     |    |
| 28Jl | 28FB32 | D | HUT | LE215b   | C    | Eu4 |    |        |    |       |    |     |    |     |    |
| 26<  | %      | D | HUT | LE221    | D    | Eu4 | O  |        |    |       |    |     |    |     |    |
| 26<  | %      | D | HUT | LE228    | D    | Eu4 | O  |        |    |       |    |     |    |     |    |
| 26<  | %      | D | HUT | LE244    | C    | Eu4 | D  |        |    |       |    |     |    |     |    |
| 26<  | %      | D | HUT | LE245    | C    | Eu4 | Y  |        |    |       |    |     |    |     |    |
| 27Mr | 27FB13 | D | HUT | LE262    | D    | Eu4 |    |        |    |       |    |     |    |     |    |
| 28Jl | 28B32  | D |     | LE415    |      | Eu4 |    |        |    |       |    |     |    |     |    |
| 28Jl | 28B32  | D |     | LE430    |      | Eu4 |    |        |    |       |    |     |    |     |    |
| 28Jl | 28B32  | D |     | LE620    |      | Eu4 |    |        |    |       |    |     |    |     |    |
| 26<  | %      | D | HUT | LEA229   | C    | Eu4 | T  |        |    |       |    |     |    |     |    |
| 26<  | %      | D | HUT | LEA241   | C    | Eu4 | J  |        |    |       |    |     |    |     |    |
| 27Sp | 27FB39 | D | LOR | LH206    | C    | Eu4 |    |        |    |       |    |     |    |     |    |
| 27Sp | 27FB39 | D | LOR | LH414    | C    | Eu4 |    |        |    |       |    |     |    |     |    |
| 27   | DRM    | D | LOR | LH415    | C    | Eu4 | O  |        |    |       |    |     |    |     |    |
| 28   | %      | D | VAL | LK430    | D    | Eu4 | O  | RE304  | K  | C405  | =  |     |    |     |    |
| 29   | %'     | D | VAL | LK460    | D    | Eu4 | O  | RE604  | K  | D404  | =  |     |    |     |    |
| 30   | %'     | D | VAL | LK4110   | D    | Eu4 | O  | RE614  | K  | E408N | =  |     |    |     |    |
| 31<  | 31FB08 | D | VAL | LK4110   | D    | Eu4 | O  |        |    |       |    |     |    |     |    |
| 28   | ERB    | D | VAL | LK8100   | D    | Eu4 | S  |        |    |       |    |     |    |     |    |
| 29<  | ERB    | D | VAL | LK4130   | D    | SpS | O  |        |    |       |    |     |    |     |    |
| 30<  | ERB    | D | VAL | LK4200   | D    |     |    |        |    |       |    |     |    |     |    |
| 30<  | ERB    | D | VAL | LK4200   | D    |     |    |        |    |       |    |     |    |     |    |
| 32   | ERB    | D | VAL | LK7110   | D    | SpS | S  | RV258  | K  |       |    |     |    |     |    |
| 32   | ERB    | D | VAL | LK7115   | D    | SpS | S  | RV239  | K  |       |    |     |    |     |    |
| 29<  | ERB    | D | VAL | LK8100   | D    | SpS | W  |        |    |       |    |     |    |     |    |
| 28Jl | 28FB33 | D | LOR | LL215    | C    | Eu4 |    |        |    |       |    |     |    |     |    |
| 27   | DRM    | D | LOR | LL413    | D    | Eu4 | O  |        |    |       |    |     |    |     |    |
| 28Jl | 28FB33 | D | LOR | LL413    | C    | Eu4 |    |        |    |       |    |     |    |     |    |
| 27Sp | 27FB39 | D | LOR | LL435    | C    | Eu4 |    |        |    |       |    |     |    |     |    |
| 28Jl | 28B32  | D |     | LN408    |      | Eu4 |    |        |    |       |    |     |    |     |    |
| 4x   |        | D | TFK | LS50     | L    | SpA | F  |        |    |       |    |     |    |     |    |
| 28Jl | 28FB33 | D | LOR | LU206    | C    | Eu4 |    |        |    |       |    |     |    |     |    |
| 28Jl | 28FB33 | D | LOR | LU406    | C    | Eu4 |    |        |    |       |    |     |    |     |    |
| 27Mr | 27FB13 | D | LOR | LV206    | C    | Eu4 |    |        |    |       |    |     |    |     |    |
| 27Mr | 27FB13 | D | LOR | LV215    | C    | Eu4 |    |        |    |       |    |     |    |     |    |
| 27Mr | 27FB13 | D | LOR | LV250    | C    | Eu4 |    |        |    |       |    |     |    |     |    |
| 27Mr | 27FB13 | D | LOR | LV406    | C    | Eu4 |    |        |    |       |    |     |    |     |    |
| 27Mr | 27FB13 | D | LOR | LV415    | C    | Eu4 |    |        |    |       |    |     |    |     |    |
| 26<  | %      | D | LOR | LV0.1/50 | C    | Eu4 | T  |        |    |       |    |     |    |     |    |
| 26<  | %      | D | LOR | LV.27/90 | C    | Eu4 | T  |        |    |       |    |     |    |     |    |
| 26<  | %      | D | LOR | LV12/800 | D    | Eu4 | O  |        |    |       |    |     |    |     |    |
| 26<  | %      | D | LOR | LV15/500 | D    | Eu4 | O  |        |    |       |    |     |    |     |    |
| 26<  | %      | D | LOR | LV30/800 | D    | Eu4 | W  |        |    |       |    |     |    |     |    |
| 26<  | %      | D | LOR | LV3,5/22 | D    | Eu4 | O  |        |    |       |    |     |    |     |    |
| 27Sp | 27FB39 | D | LOR | LW205    | C    | Eu4 |    |        |    |       |    |     |    |     |    |
| 27Sp | 27FB39 | D | LOR | LW405    | C    | Eu4 |    |        |    |       |    |     |    |     |    |
| 29   | DRM    | D | LOR | LWJ4001  | C    | Eu5 | A  | E438   | K  |       |    |     |    |     |    |
| 28Jl | 28FB31 | D | MRC | M205     | C    | Eu4 | K  |        |    |       |    |     |    |     |    |
| 28Jl | 28FB31 | D | MRC | M210     | C    | Eu4 | K  |        |    |       |    |     |    |     |    |
| 27Sp | 27FB39 | N | RAR | M350     | E    |     |    |        |    |       |    |     |    |     |    |
| 28Jl | 28FB31 | D | MRC | M405     | C    | Eu4 | O  |        |    |       |    |     |    |     |    |
| 28Jl | 28FB31 | D | MRC | M405Sp   | C    | Eu4 | O  |        |    |       |    |     |    |     |    |
| 28Jl | 28FB31 | D | MRC | M410     | C    | Eu4 | O  |        |    |       |    |     |    |     |    |
| 28Jl | 28FB31 | D | MRC | M415     | C    | Eu4 | O  |        |    |       |    |     |    |     |    |
| 27Sp | 27FB39 | D | ULT | MegatrM2 | D    | Eu4 | K  |        |    |       |    |     |    |     |    |

| DAT1 | QU1    | L | HSL | TYPE     | SYST | SOC | HZ | PLL    | PA | OGTY   | OA | VRG  | VA | NFG   | NA |
|------|--------|---|-----|----------|------|-----|----|--------|----|--------|----|------|----|-------|----|
| 27Sp | 27FB39 | D | ULT | MegatrM4 | D    | Eu4 | O  |        |    |        |    |      |    |       |    |
| 29<  | 29FB09 | D | VAL | Mikrotro | Z    | Eu4 | O  |        |    |        |    |      |    |       |    |
| 30Sp | ERB    | D | VAL | MA125    | [    | SpS | Y  | 301ARC | K  | 301ARC | K  |      | %  |       | %  |
| 34   | HLR    | H | TRM | MH1118   | K    | Hx7 | B  | UPG105 |    | 6A7    | N  |      |    |       |    |
| 33   | ERB    | D | LWO | MO44     | EE   | Hx7 | B  |        |    |        |    |      |    |       |    |
| 3x   |        | G | MOV | MPT4     | L    | Eu5 | A  |        |    | 42     | N  |      |    |       |    |
| 28Jl | 28B32  | H | TRM | MRW      |      | Eu4 |    |        |    |        |    |      |    |       |    |
| 28Jl | 28B32  | H | TRM | MRW1     |      | Eu4 |    |        |    |        |    |      |    |       |    |
| 26<  | %      | D | RRF | MSI      | D    | SpS | S  |        |    |        |    |      |    |       |    |
| 26<  | %      | D | RRF | MSII     | D    | SpS | S  |        |    |        |    |      |    |       |    |
| 26<  | %      | D | RRF | MSIII    | D    | SpS | W  |        |    |        |    |      |    |       |    |
| 30Sp | ERB    | D | VAL | MW125    | [    | SpS | Y  | 201ARC | K  | 201ARC | K  |      | %  |       | %  |
| 3x   |        | G | MOV | MX40     | K    | Br7 | A  |        |    | 6A7    | N  |      |    |       |    |
| 19No | %      | A | WEC | N        |      |     |    |        |    |        |    |      |    |       |    |
| 27Sp | 27FB39 | D | VAL | N406     | D    | Eu4 | O  | B405   | Q  |        |    |      |    |       |    |
| 27Sp | 29FB39 | D | VAL | NN-Zwil  | CC   |     |    |        |    |        |    |      |    |       |    |
| 24   | VV40   | D | RRF | NORMAL-A | C    | Eu4 | O  |        |    |        |    |      |    |       |    |
| 24   | VV40   | D | RRF | NORMAL-B | C    | Eu4 | Ow |        |    |        |    |      |    |       |    |
| 27Sp | 29FB39 | D | VAL | N/L-Zwil | CC   |     |    |        |    |        |    |      |    |       |    |
| 27Sp | 27FB39 | D | NGL | NA206    | C    | Eu4 | K  |        |    |        |    |      |    |       |    |
| 27Sp | 27FB39 | D | NGL | NA210    | C    | Eu4 | K  |        |    |        |    |      |    |       |    |
| 27Sp | 27FB39 | D | NGL | NA220    | C    | Eu4 | K  |        |    |        |    |      |    |       |    |
| 27Sp | 27FB39 | D | NGL | NA406H   | C    | Eu4 | O  |        |    |        |    |      |    |       |    |
| 28Jl | 28FB33 | D | NGL | NA406H   | C    | Eu4 | O  |        |    |        |    |      |    |       |    |
| 28Jl | 28FB33 | D | NGL | NA406W   | C    | Eu4 | O  |        |    |        |    |      |    |       |    |
| 27Sp | 27FB39 | D | NGL | NA409U   | C    | Eu4 | O  |        |    |        |    |      |    |       |    |
| 27Sp | 27FB39 | D | NGL | NA409U   | C    | Eu4 | O  |        |    |        |    |      |    |       |    |
| 27Sp | 27FB39 | D | NGL | NA410O   | C    | Eu4 | O  |        |    |        |    |      |    |       |    |
| 28Jl | 28FB33 | D | NGL | NA410O   | C    | Eu4 | O  |        |    |        |    |      |    |       |    |
| 27Sp | 27FB39 | D | NGL | NA420L   | C    | Eu4 | O  |        |    |        |    |      |    |       |    |
| 28Jl | 28FB33 | D | NGL | NA420L   | D    | Eu4 | O  |        |    |        |    |      |    |       |    |
| 27Sp | 27FB39 | D | NGL | NAW206   | C    | Eu4 | K  |        |    |        |    |      |    |       |    |
| 27Sp | 27FB39 | D | NGL | NAW406   | C    | Eu4 | O  |        |    |        |    |      |    |       |    |
| 28Jl | 28B32  | D |     | NE408b   |      | Eu4 |    |        |    |        |    |      |    |       |    |
| 28   | DRM    | D | VAL | NZ420    | CC   | SpS | O  |        |    |        |    |      |    |       |    |
| 29   | VV40   | D | VAL | NZ4200   | DD   | SpS | A  | R 2104 | K  |        |    |      |    |       |    |
| 28Jl | 28B32  | H | TRM | O408b    |      | Eu4 |    |        |    |        |    |      |    |       |    |
| 28Jl | 28B32  | H | TRM | O415     |      | Eu4 |    |        |    |        |    |      |    |       |    |
| 27Mr | 27FB13 | D | RRF | Oecon.W4 | C    | Eu4 | Ot |        |    |        |    |      |    |       |    |
| 24   | VV40   | D | RRF | OeconomA | C    | Eu4 | Ot |        |    | C404   | =  |      |    |       |    |
| 24   | VV40   | D | RRF | OeconomH | C    | Eu4 | Ot |        |    |        |    |      |    |       |    |
| 25   | VV40   | D | RRF | OeconomN | C    | Eu4 | Ot |        |    |        |    |      |    |       |    |
| 25   | VV40   | D | RRF | OeconomW | C    | Eu4 | Ot |        |    |        |    |      |    |       |    |
| 27Sp | 27FB39 | D | ULT | OrchesO2 | D    | Eu4 | K  |        |    |        |    |      |    |       |    |
| 27Sp | 27FB39 | D | ULT | OrchesO4 | D    | Eu4 | O  |        |    |        |    |      |    |       |    |
| 4x   |        |   | PLP | OBC3     | BC   | Oc  | HF | 12SQ7  | Q  | 6SQ7   | H  | 12Q7 | X  | 12AT6 | T  |
| 4x   |        |   | PLP | OFB2     | BF   | Oc  | H  | UBF2   | H  | EBF2   | R  | 6B8  | N  |       |    |
| 4x   |        |   | PLP | OCH4     | Cl   | Oc  | H  | UCH4   | H  |        |    | 12A8 | N  |       |    |
| 4x   |        |   | PLP | OF1      | F    | Oc  | EH | 6S7    | Q  | 6K7    | B  | 6K7  | Z  | 6SS7  | X  |
| 4x   |        |   | PLP | OF5      | F    | Oc  | HF | 12K7   | Q  | 6K7    | H  |      |    | 12SK7 | X  |
| 4x   |        |   | PLP | OF9      | F    | Oc  | H  | UF9    | H  | EF9    | R  | EF9  | R  | UF21  | R  |
| 4x   |        |   | PLP | OH4      | K    | Oc  | HF | 12A8   | Q  | 6A8    | H  |      |    | 12SA7 | Y  |
| 4x   |        |   | PLP | OM5      | MMCC | Oc  | H  | UM4    | H  | EM4    | R  |      |    | 1629  | N  |
| 28Jl | 28B32  | H | TRM | P410     |      | Eu4 |    |        |    |        |    |      |    |       |    |
| 28Jl | 28B32  | H | TRM | P415     |      | Eu4 |    |        |    |        |    |      |    |       |    |
| 27Sp | 27FB39 | D | DEL | Poly-Vor | C    |     |    |        |    |        |    |      |    |       |    |
| 27Sp | 27FB39 | D | DEL | Polytron | CCCC |     |    |        |    |        |    |      |    |       |    |
| 28Jl | 28FB31 | D | DEL | Polytron | CCCC |     |    |        |    |        |    |      |    |       |    |
| 4x   |        |   | PLP | PAB1     | ABJ  | Oc  | EP | EAB1   | R  |        |    |      | %  |       | %  |
| 52My | TRM    | W | TFK | PABC80   | A-BC | No  | P  | EABC80 | H  | EABC80 | H  |      |    |       | %  |
| 4x   |        |   | PLP | PBF2     | BF   | Oc  | EP | 6B8    | Q  | 6B7    | S  | 6B7  | S  | 7E7   | T  |
| 57Sp | TRM579 | W | TFK | PC86     | C    | No  | P  |        |    |        |    |      |    |       |    |
| 61No | TRM61B | W | GEM | PC88     | C    | No  | P  |        |    |        |    |      |    |       |    |

| DAT1 | QU1    | L | HSL | TYPE     | SYST | SOC | HZ | PLL   | PA | OGTY   | OA | VRG   | VA | NFG   | NA |
|------|--------|---|-----|----------|------|-----|----|-------|----|--------|----|-------|----|-------|----|
| 5x   |        | E | GEM | PC92     | C    | Mi7 | P  | EC92  | H  | EC92   | H  |       |    |       |    |
| 5x   |        | E | GEM | PC93     | C    | Mi7 | P  |       |    |        |    |       |    |       |    |
| 58Sp | PA     | W | SIM | PC95     | C°   | Mi7 | P  |       |    |        |    |       |    |       |    |
| 5x   |        | Y | RFT | PC96     | C    | Mi7 | P  |       |    |        |    |       |    |       |    |
| 61Jn | PA     | W | GEM | PC97     | C°   | Mi7 | P  |       |    |        |    |       |    |       |    |
| 63Mr |        | W | GEM | PC900    | C°   | Mi7 | P  |       |    |        |    |       |    |       |    |
| 53Ja | TRM    | W | GEM | PCC84    | C-C  | No  | P  |       |    |        |    |       |    | PCC88 |    |
| 53Jl | TRM    | W | TFK | PCC85    | C-C  | No  | P  |       |    |        |    |       |    |       |    |
| 56Sp | TRM569 | W | GEM | PCC88    | C-C  | No  | P  |       |    |        |    |       |    |       |    |
| 5x   |        | E | GEM | PCC89    | C-C  | No  | P  |       |    |        |    |       |    |       |    |
| 58Jn | PA     | W | GEM | PCC189   | C°C° | No  | P  |       |    | PCC88  | C  |       |    |       |    |
| 53Sp |        | W | VAL | PCF80    | C-J  | No  | P  |       |    |        |    |       |    |       |    |
| 53Jl | TRM    | W | TFK | PCF82    | C-J  | No  | P  |       |    | 6U8    | H  |       |    |       |    |
| 60   | HLR    | W | GEM | PCF86    | C-J  | No  | P  |       |    |        |    |       |    |       |    |
| 64Ja |        | W | GEM | PCF200   | C-J  | Dec | P  |       |    |        |    |       |    |       |    |
| 64   | HLR    | E | GEM | PCF201   | C-J  | Dec | P  |       |    |        |    |       |    |       |    |
| 62Oc | PA     | W | GEM | PCF801   | CJ   | No  | P  |       |    |        |    |       |    |       |    |
| 62Mr | PA     | W | GEM | PCF802   | C-J  | No  | P  |       |    |        |    |       |    |       |    |
| 63Mr |        | W | GEM | PCF803   | C-J  | No  | P  |       |    |        |    |       |    |       |    |
| 65?  |        | E | GEM | PCF805   | CF   | No  | P  | 7GV7  | Q  |        |    |       |    |       |    |
| 64Ja |        | W | GEM | PCH200   | C-I% | Dec | P  |       |    |        |    |       |    |       |    |
| 51Sp |        | W | TFK | PCL81    | CS   | No  | P  |       |    | ECL113 | U  | ECL80 | O  | PCL82 | O  |
| 55Sp | TRM559 | E | GEM | PCL82    | C-S  | No  | P  |       |    |        |    | PCL81 | O  | PCL86 | O  |
| 5x   |        | E | BMA | PCL83    | C-L  | No  | P  |       |    |        |    |       |    |       |    |
| 56No | PA     | W | GEM | PCL84    | C-L  | No  | P  |       |    |        |    |       |    |       |    |
| 60Jl | PA     | W | GEM | PCL85    | C-S  | No  | P  |       |    |        |    |       |    |       |    |
| 60Ap | 60FS08 | W | GEM | PCL86    | C-S  | No  | P  |       |    |        |    | PCL86 | O  |       | J  |
| 65Ja | 65FS01 | W | GEM | PCL200   | C-S  | Dec | P  |       |    |        |    |       |    |       |    |
| 68My | 68FS09 | W | GEM | PCL805   | C-S  | No  | P  |       |    |        |    |       |    |       |    |
| 65Jl | 65RM07 | G | MUL | PD500    | d    | Mno | P  |       |    |        |    |       |    |       |    |
| 6x   |        | E | GEM | PD510    | d    | Mno | P  |       |    |        |    |       |    |       |    |
| 4x   |        |   | PLP | PF9      | F    | Oc  | EP | 6K7   | Q  | 78     | A  | 78    | S  | 6SK7  | S  |
| 5x   |        | E | GEM | PF83     | F    | No  | P  |       |    |        |    |       |    |       |    |
| 60Ja | PA     | E | GEM | PF86     | J    | No  | P  |       |    |        |    |       |    |       |    |
| 64Ja | 64FS01 | W | GEM | PFL200   | J-S  | Dec | P  |       |    |        |    |       |    |       |    |
| 4x   |        |   | PLP | PH4      | K    | Oc  | EP | 6A8   | Q  | 6A7    | S  | 6A7   | S  | 6SA7  | Y  |
| 52   | 52FS04 | W | LWO | PL11     | L    | St8 | P  | UL11  | H  | UL41   | R  |       |    | PL82  | R  |
| 50Oc | 50FT19 | W | VAL | PL21     | T    | Mi7 | EX |       |    | 2055   | S  | 2055  | S  |       |    |
| 5x   |        | E | BMA | PL33     | L    | Oc  | P  |       |    |        |    |       |    |       |    |
| 54De | TRM    | W | GEM | PL36     | S    | Oc  | P  | 25E5  | Q  |        |    | PL81  |    | PL500 | U  |
| 5x   |        | E | MUL | PL38     | L    | Oc  | P  |       |    |        |    |       |    |       |    |
| 50Jl | 50RM07 | N | PLP | PL81     | S    | No  | P  |       |    |        |    |       |    | PL36  | U  |
| 51Ja | PB3C   | W | GEM | PL82     | L    | No  | P  |       |    | UL41   | R  |       |    | PL84  | O  |
| 50Jl | 50RM07 | N | PLP | PL83     | L    | No  | P  |       |    |        |    |       |    |       |    |
| 56Jl | TRM567 | W | GEM | PL84     | L    | No  | P  |       |    |        |    | PL82  | O  |       | J  |
| 6x   |        | E | GEM | PL95     | S    | Mi7 | P  |       |    | EL95   | H  |       |    |       | J  |
| 61   | HLR    | F |     | PL300    | S    | Oc  | P  | EL300 | H  | 35FN5  | #  |       |    |       |    |
| 60No | 60FS22 | E | PLP | PL500    | S    | Mno | P  |       |    |        |    | PL36  | U  | PL504 | C  |
| 67My | 67FS09 | W | GEM | PL504    | S    | Mno | P  |       |    |        |    | PL500 | C  |       | J  |
| 65Jl | 65RM07 | G | MUL | PL505    | S    | Mno | P  |       |    |        |    |       |    | PL509 | D  |
| 66Ap | 66FS08 | W | GEM | PL508    | S    | Mno | P  |       |    |        |    |       |    |       | J  |
| 67Ja | 67FS01 | W | GEM | PL509    | S    | Mno | P  |       |    |        |    | PL505 | C  | PL519 | D  |
| 6x   |        | E | GEM | PL519    | S    | Mno | P  |       |    |        |    | PL509 | C  |       | J  |
| 66Ap | 66FS08 | W | GEM | PL802    | S    | No  | P  |       |    |        |    |       |    |       | J  |
| 6x   |        | W | GEM | PL802/02 | °    | No  | P  |       |    |        |    | PL802 |    |       | %  |
| 67Ja | 67FS01 | W | VAL | PL805    | S    | No  | P  |       |    |        |    |       |    |       |    |
| 5x   |        | E | PLP | PL5684   | T    | SpS | S  |       |    |        |    |       |    |       |    |
| 5x   |        | E | PLP | PL6755A  | T    | SpS | S  |       |    |        |    |       |    |       |    |
| 60Ap | 60FS08 | W | LOR | PLL80    | SS   | No  | P  |       |    | ELL80  | H  |       | %  |       | %  |
| 4x   |        |   | PLP | PM5      | MMCC | Oc  | EP | OM5   | H  | EM4    | R  |       |    | EM34  | V  |
| 58My | 58FS09 | W | GEM | PM84     | MC   | No  | P  |       |    | UM84   | H  |       | %  |       | %  |
| 34<  | HLR    | H | TRM | PP4018   | L    | Hx6 | B  |       |    |        |    |       |    |       |    |
| 34<  | HLR    | H | TRM | PV4018   | YY   | Hx6 | B  |       |    |        |    |       |    |       |    |

| DAT1 | QU1    | L | HSL | TYPE     | SYST | SOC | HZ  | PLL    | PA | OGTY | OA | VRG | VA | NFG    | NA |
|------|--------|---|-----|----------|------|-----|-----|--------|----|------|----|-----|----|--------|----|
| 5x   |        | G | GEM | PY32     | Y    | Oc  | P   |        |    |      |    |     |    |        |    |
| 51Oc | 51FT19 | W | LOR | PY71     | Y    | Lo8 | P   |        |    |      |    |     |    |        |    |
| 50Jl | 50RM07 | W | GEM | PY80     | Y    | No  | P   |        |    |      |    |     |    |        |    |
| 52My | PB3C   | W | GEM | PY81     | Y    | No  | P   |        |    |      |    |     |    |        |    |
| 51Ja | PB3C   | W | GEM | PY82     | Y    | No  | P   |        |    |      |    |     |    |        |    |
| 52My | TRM    | E | GEM | PY83     | Y    | No  | P   |        |    | □    |    |     |    |        |    |
| 59My | 59FS09 | W | GEM | PY88     | Y    | No  | P   |        |    |      |    |     |    |        |    |
| 65Jl | 65RM07 | G | MUL | PY500    | Y    | Mno | P   |        |    |      |    |     |    |        |    |
| 6x   |        | E | GEM | PY500A   | Y    | Mno | P   |        |    |      |    |     |    |        |    |
| 6x   |        | E | BMA | PY801    | Y    | No  | P   |        |    |      |    |     |    |        |    |
| 31Mr | 70Y    | A | ARC | PZ       | L    | U5  | J   | 47     | K  |      |    |     |    | 42     | U  |
| 26<  | %      | D | HUT | PIAV9    | C    | Eu4 | Y   |        |    |      |    |     |    |        |    |
| 26<  | %      | D | HUT | PIAV12   | C    | Eu4 | Y   |        |    |      |    |     |    |        |    |
| 23   | PA     | N | PLP | Q        | E    | Eu4 | O   | D VI   | #  |      |    |     |    |        |    |
| 51Ja | PA     | N | PLP | QQE0640  | SS   | Se7 | EF  | 5894   |    |      |    |     |    |        |    |
| 29   |        | D | REC | R21      | X    | Eu4 | K   |        |    |      |    |     |    |        |    |
| 29<  | 29FB09 | D | REC | R22      | X    | Eu4 | M   |        |    |      |    |     |    |        |    |
| 4x   |        | F |     | R30N     | R    | Oc  | P   |        |    |      |    |     |    |        |    |
| 29<  | 29FB09 | D | REC | R33      | X    | Eu4 | M   |        |    |      |    |     |    |        |    |
| 29<  | 29FB09 | D | REC | R44      | X    | Eu4 | M   |        |    |      |    |     |    |        |    |
| 29<  | 29FB09 | D | REC | R45      | X    | Eu4 | M   |        |    |      |    |     |    |        |    |
| 29<  | 29FB09 | D | REC | R110/II  | X    | Eu4 | M   |        |    |      |    |     |    |        |    |
| 29<  | 29FB09 | D | REC | R200/II  | X    | ??  | ??M |        |    |      |    |     |    |        |    |
| 29<  | 29FB09 | D | REC | R200/III | XW   | ??  | ??M |        |    |      |    |     |    |        |    |
| 29<  | 29FB09 | N | RAR | R202     | X    | Eu4 | M   |        |    |      |    |     |    |        |    |
| 29<  | 29FB09 | N | RAR | R204     | X    | Eu4 | M   |        |    |      |    |     |    |        |    |
| 29<  | 29FB09 | N | RAR | R215     | X    | Eu4 | M   |        |    |      |    |     |    |        |    |
| 29<  | 29FB08 | D | REC | R220     | X    | Eu4 | K   |        |    |      |    |     |    |        |    |
| 29<  | 29FB09 | D | REC | R250     | X    | Eu4 | K   |        |    |      |    |     |    |        |    |
| 30<  | 30FB12 | D | REC | R500     | X    | Eu4 | R   |        |    |      |    |     |    |        |    |
| 30Au | 30FB35 | D | REC | R0423    | Z    | Eu4 | O   | 4G60   | K  |      |    |     |    |        |    |
| 30Au | 30FB35 | D | REC | R0424    | Y    | Eu3 | O   | G354   | K  |      |    |     |    |        |    |
| 30Au | 30FB35 | D | REC | R0431    | Z    | Eu4 | O   | G2004  | K  |      |    |     |    |        |    |
| 30Au | 30FB35 | D | REC | R0433    | Z    | Eu4 | O   | G4004  | K  |      |    |     |    |        |    |
| 30Au | 30FB35 | D | REC | R0437    | Z    | Eu4 | O   | 506    | K  |      |    |     |    |        |    |
| 30Au | 30FB35 | D | REC | R0446    | Y    | Eu3 | O   | 505    | K  |      |    |     |    |        |    |
| 30Au | 30FB35 | D | REC | R0452    | Z    | Eu4 | O   | G2504  | K  |      |    |     |    |        |    |
| 30Au | 30FB35 | D | REC | R0481    | Y    | Eu3 | O   | E4H    | K  |      |    |     |    |        |    |
| 30<  | 30FB12 | D | REC | R1000    | X    | Eu4 | R   |        |    |      |    |     |    |        |    |
| 29<  | 29FB09 | N | RAR | R1045    | W    | Eu4 | S   |        |    |      |    |     |    |        |    |
| 30Au | 30FB35 | D | REC | R2000    | X    | Eu4 | J   |        |    |      |    |     |    |        |    |
| 28Jl | 28B32  | H | TRM | R408     |      | Eu4 |     |        |    |      |    |     |    |        |    |
| 29<  | 29FB09 | N | RAR | R20215   | X-W  | Eu4 | M   |        |    |      |    |     |    |        |    |
| 24   | VV40   | D | RRF | REFLEX   | C    | Eu4 | Kw  |        |    |      |    |     |    |        |    |
| 27Sp | 27FB39 | D | ULT | ResistR2 | R    | Eu4 |     |        |    |      |    |     |    |        |    |
| 27Sp | 27FB39 | D | ULT | ResistR4 | R    | Eu4 |     |        |    |      |    |     |    |        |    |
| 23   | TF50   | D | TFK | RE11     | C    | TFK | Sw  |        |    |      |    |     |    |        |    |
| 20?  | TF25   | D | TFK | RE16     | C    | TFK | Sw  |        |    |      |    |     |    |        |    |
| 19   | TF25   | D | TFK | RE20     | E    | Eu4 | Sr  |        |    |      |    |     |    |        |    |
| 19   | TF25   | D | TFK | RE26     | E    | Eu4 | O   |        |    |      |    |     |    |        |    |
| 20?  | %      | D | TFK | RE33     | C    | TFK | O   |        |    |      |    |     |    |        |    |
| 20?  | %      | D | TFK | RE58     | D    | TFK | G   |        |    |      |    |     |    |        |    |
| 25<  | %      | D | TFK | RE70     |      |     |     |        |    |      |    |     |    |        |    |
| 20?  | %      | D | TFK | RE73     |      |     |     |        |    |      |    |     |    |        |    |
| 20?  | %      | D | TFK | RE76     |      |     |     |        |    |      |    |     |    |        |    |
| 25<  | %      | D | TFK | RE77     |      |     |     |        |    |      |    |     |    |        |    |
| 24<  | 82FG09 | D | TFK | RE79     | C    | ?   | ?   |        |    |      |    |     |    |        |    |
| 25<  | %      | D | TFK | RE81     |      |     |     |        |    |      |    |     |    |        |    |
| 25<  | %      | D | TFK | RE85     | D    | TFK | G   |        |    |      |    |     |    |        |    |
| 24<  | %      | D | TFK | RE89     | C    | Eu4 | S   |        |    |      |    |     |    |        |    |
| 27Mr | 27FB13 | D | TFK | RE052    | C    | Eu4 | K   | KC1 St | N  |      |    |     |    | KC1 St | N  |
| 25   | TF25   | D | TFK | RE054    | C    | Eu4 | O   |        |    |      |    |     |    | RE034  |    |
| 25   | TF25   | D | TFK | RE062    | C    | ?   | ?   |        |    |      |    |     |    |        |    |

| DAT1 | QU1    | L | HSL | TYPE     | SYST | SOC | HZ | PLL    | PA | OGTY   | OA | VRG    | VA | NFG    | NA |
|------|--------|---|-----|----------|------|-----|----|--------|----|--------|----|--------|----|--------|----|
| 25   | TF25   | D | TFK | RE064    | C    | Eu4 | O  |        |    |        |    |        |    | RE074  |    |
| 28   | ERB    | D | TFK | RE074d   | E    | Eu4 | O  | A441N  |    |        |    |        |    | REN704 | X  |
| 31<  | 31FB08 | D | TFK | RE074n   | C    | Eu4 | O  | A409   |    | RE074  | Q  |        |    |        |    |
| 27De | %      | D | TFK | RE084    | C    | Eu4 | O  | A408   |    |        |    | RE144  |    |        |    |
| 27De | %      | D | TFK | RE114    | D    | Eu4 | O  | B406   |    |        |    | RE154  |    |        |    |
| 28Jl | 28FB31 | D | TFK | RE122    | D    | Eu4 | K  |        |    |        |    |        |    |        |    |
| 27Sp | 27FB39 | D | TFK | RE134    | D    | Eu4 | O  | B409   |    |        |    |        |    |        |    |
| 27Mr | 27FB13 | D | TFK | RE142    | C    | Eu4 | K  | RE144  | H  |        |    |        |    |        |    |
| 26   | 28FB31 | D | TFK | RE144    | C    | Eu4 | O  |        |    |        |    |        |    | RE084  |    |
| 26   | 28FB31 | D | TFK | RE154    | D    | Eu4 | O  |        |    |        |    |        |    | RE114  |    |
| 25<  | %      | D | TFK | RE201    | D    | TFK | O  |        |    |        |    |        |    |        |    |
| 25<  | %      | D | TFK | RE211    |      |     |    |        |    |        |    |        |    |        |    |
| 29Sp | 29FB36 | D | TFK | RE304    | D    | Eu4 | O  | C405   |    |        |    |        |    |        |    |
| 27Mr | 27FB13 | D | TFK | RE352    | D    | Eu4 | K  |        |    |        |    |        |    |        |    |
| 27Mr | 27FB13 | D | TFK | RE354    | D    | Eu4 | O  |        |    |        |    |        |    |        |    |
| 2x   |        | D | TFK | RE454    | D    | Eu4 | O  |        |    |        |    |        |    |        |    |
| 26   | 28FB31 | D | TFK | RE504    | D    | Eu4 | O  |        |    |        |    | RE209  |    |        |    |
| 28   | %      | D | TFK | RE604    | D    | Eu4 | O  | D404   |    |        |    |        |    | AD1    | U  |
| 33   | %      | D | TFK | RE614    | D    | Eu4 | O  | LK4110 | K  |        |    |        |    |        |    |
| 28Jl | 28FB31 | D | TFK | REN 501  | C    | Eu4 | Y  | C109   | K  |        |    |        |    |        |    |
| 28Jl | 28FB31 | D | TFK | REN 511  | C    | Eu4 | Y  | RE061  | #  |        |    |        |    |        |    |
| 28Jl | 28FB31 | D | TFK | REN 601  | C    | Eu4 | Y  | B105   | K  |        |    |        |    |        |    |
| 30No | %      | D | TFK | REN704d  | E    | Eu5 | A  | E441   | K  |        |    |        | [  | R 1224 | Y  |
| 28   | %      | D | TFK | REN804   | C    | Eu5 | A  | E415   | K  |        |    |        | [  | REN904 | C  |
| 30   | %      | D | TFK | REN904   | C    | Eu5 | A  | E424N  | K  |        |    | R_1004 | C  | AC2    | R  |
| 33   | %'     | D | TFK | REN914   | C    | Eu5 | A  | E499   | K  |        |    |        | [  | ECC83  | N  |
| 32?  | 83FG71 | D | TFK | REN924   | AC   | Eu5 | A  | E444S  | K  |        |    |        | [  | ABC1   | U  |
| 28Jl | 28FB31 | D | TFK | REN1004  | C    | Eu5 | A  | E438   | K  |        |    |        | [  | REN904 | C  |
| 27   | 82FG12 | D | TFK | REN1104  | C    | Eu5 | A  | E409N  | K  |        |    |        | [  | REN904 | C  |
| 33   | %'     | D | TFK | REN1814  | C    | Eu5 | B  | B2099  | K  | REN914 | H  |        | [  | ECC83  | N  |
| 32No | 32FB46 | D | TFK | REN1817  | E    | Eu5 | B  | B2041  | K  | REN704 | H  |        | [  | R 1824 | Y  |
| 31Jn | 31FB25 | D | TFK | REN1821  | C    | Eu5 | B  | B2038  | K  | REN904 | H  |        | [  | CC2    | U  |
| 31Jn | 31FB25 | D | TFK | REN1822  | D    | Eu5 | B  | B2006  | K  |        |    |        | %  |        | %  |
| 33   | %'     | D | TFK | REN1826  | AC   | Eu5 | B  | B2044S | K  | REN924 | H  |        | [  | CBC1   | U  |
| 28   | %      | D | TFK | REN2204  | D    | Eu5 | A  | E409N  | K  |        |    |        | [  | ED8000 | N  |
| 28   | %'     | D | TFK | RENS1204 | E    | Eu5 | A  | E442S  | K  |        |    |        | [  | R 1264 | C  |
| 31Au | 31FB35 | D | TFK | RENS1214 | E°   | Eu5 | A  | E445   | K  |        |    |        | [  | R 1274 | C  |
| 33   | 83FG71 | D | TFK | RENS1224 | H    | Hx7 | A  | E448   | K  |        |    |        | [  | ACH1   | Y  |
| 32De | 77FG06 | D | TFK | RENS1234 | H    | Hx7 | A  | E449   | K  |        |    |        | [  | AH1    | U  |
| 33   | %'     | D | TFK | RENS1254 | AE   | Hx6 | A  | E444   | K  |        |    |        | [  | EBF11  | N  |
| 31Au | 31FB33 | D | TFK | RENS1264 | E    | Eu5 | A  | E462   | K  |        |    | R_1204 | C  | R_1284 | C  |
| 32?  | %'     | D | TFK | RENS1274 | E°   | Eu5 | A  | E455   | K  |        |    | R_1214 | C  | R_1294 | C  |
| 33   | %'     | D | TFK | RENS1284 | J    | Eu5 | A  | E446   | K  |        |    | R_1264 | Y  | AF7    | R  |
| 33   | %'     | D | TFK | RENS1294 | F    | Eu5 | A  | E447   | K  |        |    | R_1214 | Y  | AF3    | U  |
| 32Ap | 32FB20 | D | TFK | RENS1374 | L    | Eu5 | A  | E453   | Q  |        |    | g      | [  | AL2    | U  |
| 33?  |        | D | TFK | RENS1384 | L    | Hx6 | A  | E463   | K  |        |    |        | [  | AL2    | U  |
| 32No | 32FB46 | D | TFK | RENS1818 | E    | Eu5 | B  | B2052T | K  | R_1264 | H  | R_1820 | C  | R_1884 | C  |
| 32No | 32FB46 | D | TFK | RENS1819 | E°   | Eu5 | B  | B2045  | K  | R_1214 | H  |        | [  | R_1894 | C  |
| 31Jn | 31FB25 | D | TFK | RENS1820 | E    | Eu5 | B  | B2042  | K  | R_1204 | H  |        | [  | R_1818 | C  |
| 31Jn | 31FB25 | D | TFK | RENS1823 | L    | Eu5 | B  | B2043  | K  | R_1374 | H  | R_1822 | Y  | CL1    | U  |
| 33   | %'     | D | TFK | RENS1824 | H    | Hx7 | B  | B2048  | K  | R_1224 | H  | R_1817 | Y  | BCH1   | Y  |
| 33   | %'     | D | TFK | RENS1834 | H    | Hx7 | B  | B2049  | K  | R_1234 | H  |        | [  | CH1    | U  |
| 33   | %'     | D | TFK | RENS1854 | AE   | Hx6 | B  | B2044  | K  | R_1254 | H  |        | [  | EBF11  | N  |
| 33   | DRM    | D | TFK | RENS1884 | J    | Eu5 | B  | B2046  | K  | R_1284 | H  | R_1818 | C  | CF7    | U  |
| 33   | DRM    | D | TFK | RENS1894 | F    | Eu5 | B  | B2047  | K  | R_1294 | H  | R_1819 | C  | CF3    | U  |
| 28   | %'     | D | TFK | RENZ2104 | CC   |     |    |        |    |        |    |        |    |        |    |
| 28Jl | 28B32  | D | TFK | RES044   | E    | Eu4 | O  | B442   | K  |        |    |        | [  | RES094 |    |
| 28   | 82FG12 | D | TFK | RES094   | E    | Eu4 | O  | A442   | K  |        |    |        | [  |        |    |
| 30   | %      | D | TFK | RES164   | L    | Eu5 | Od | B443S  | K  |        |    | R_164d | S  | VCL11  | N  |
| 28Jl | 28FB32 | D | TFK | RES164d  | L    | Eu4 | O  | B443S  | K  | RES174 | C  | RES174 | C  | RES164 | S  |
| 31Au | 31FB33 | D | TFK | RES174d  | L    | Eu5 | O  | B443   | K  |        |    |        | [  | R_164d | C  |
| 31?  | ERB    | D | TFK | RES182   | E    | Eu4 | K  | B262   | K  |        |    |        |    |        |    |
| 31?  | ERB    | D | TFK | RES192   | E°   | Eu4 | K  | B255   | K  |        |    |        |    |        |    |



| DAT1 | QU1    | L | HSL | TYPE     | SYST | SOC | HZ | PLL    | PA | OGTY   | OA | VRG    | VA | NFG    | NA |
|------|--------|---|-----|----------|------|-----|----|--------|----|--------|----|--------|----|--------|----|
| 31?  | ERB    | D | TFK | RES212   | L    | Eu4 | K  | C243N  | K  |        |    |        |    |        |    |
| 31   | ERB    | D | TFK | RES364   | L    | Eu5 | O  | C443   | K  |        |    |        |    |        |    |
| 31Au | 31FB33 | D | TFK | RES374d  | L    | Eu5 | O  | C443N  | K  |        |    |        |    |        |    |
| 30Au | 30FB35 | D | TFK | RES664d  | L    | Eu5 | O  | E443N  | K  |        |    |        |    | RES964 | O  |
| 33   | ERB    | D | TFK | RES964   | L    | Eu5 | O  | E443H  | K  |        |    | RES664 | O  | AL1    | S  |
| 4x   |        | D | TFK | RES1664d | L    | Eu5 | Ah |        |    |        |    |        |    |        |    |
| 2x   | TF25   | D | TFK | REZ2104  | CC   | ?   | ?  |        |    |        |    |        |    |        |    |
| 37   | DRM    | D | TFK | RFE1     | L    | Eu5 | A  |        |    |        |    |        |    |        |    |
| 37   | DRM    | D | TFK | RFG1     | YY   | SpS | A  |        |    |        |    |        |    |        |    |
| 37   | DRM    | D | TFK | RFG3     | y    | Au5 | A  |        |    |        |    |        |    |        |    |
| 3x   |        | D | TFK | RFG5     | y    | St8 | EC |        |    |        |    |        |    |        |    |
| 3x   |        | D | TFK | RG62D    | Y    | Eu4 | Jd |        |    |        |    |        |    |        |    |
| 3x   |        | D | TFK | RG105    | Z    | Eu4 | J  |        |    |        |    |        |    |        |    |
| 31   | %      | D | TFK | RGN354   | Y    | Eu3 | O  | 1810   | K  |        |    |        |    | [      |    |
| 31   | %      | D | TFK | RGN504   | Z    | Eu4 | O  | 1801   | Q  |        |    |        |    |        |    |
| 32   | %'     | D | TFK | RGN564   | Y    | Eu3 | O  | 1803   | K  | RGN354 | <  |        |    |        |    |
| 29<  | 29FB09 | D | TFK | RGN1054  | Z    | Eu4 | A  |        |    |        |    | R_1504 |    | R_1064 | >  |
| 32   | DRM    | D | TFK | RGN1064  | Z    | Eu4 | A  | 1805   | K  |        |    | R_1054 | <  | AZ1    | S  |
| 28   | %'     | D | TFK | RGN1203  | Y    | Eu3 | O  |        |    |        |    |        |    |        |    |
| 28   | ERB    | D | TFK | RGN1304  | Y    | Eu3 | O  | G1304  | K  |        |    |        |    |        |    |
| 30   | ERB    | D | TFK | RGN1404  | Y    | Eu3 | A  | 1832   | K  |        |    |        |    |        |    |
| 28   | FBT    | D | TFK | RGN1500  | X    | Eu4 | N  |        |    |        |    |        |    |        |    |
| 27   | 82FG12 | D | TFK | RGN1503  | Z    | Eu4 | Jd | 1201   | K  |        |    | R_1201 |    |        |    |
| 28   | %'     | D | TFK | RGN_1504 | Z    | Eu4 | O  |        |    |        |    |        |    | R_1054 |    |
| 28   | %      | D | TFK | RGN2004  | Z    | Eu4 | A  | 1561   | K  |        |    |        |    |        |    |
| 31Au | 31FB33 | D | TFK | RGN2005  | Z    | Eu4 | G  | 80     | S  | 80     | S  |        |    |        |    |
| 31   | %      | D | TFK | RGN2504  | Z    | Eu4 | O  | G2005  | K  |        |    |        |    |        |    |
| 31Au | 31FB33 | D | TFK | RGN4004  | Z    | Eu4 | O  | 1817   | K  |        |    |        |    |        |    |
| 29<  | 29FB09 | N | RAR | RRR134   | W    | Eu4 | T  |        |    |        |    |        |    |        |    |
| 29<  | 29FB09 | N | RAR | RRR145   | W    | Eu4 | O  |        |    |        |    |        |    |        |    |
| 29<  | 29FB09 | N | RAR | RRR234   | X    | Eu4 | T  |        |    |        |    |        |    |        |    |
| 29<  | 29FB09 | N | RAR | RRR245   | X    | Eu4 | O  |        |    |        |    |        |    |        |    |
| 3x   |        | D | TFK | RS289    | L    | Eu5 | A  |        |    |        |    |        |    |        |    |
| 3x   |        | F | VIS | RS4141   | E    | SpS | A  | E441   | S  |        |    |        |    |        |    |
| 31Ja | %      | D | TFK | RV_239   | D    |     |    | LK7115 | K  |        |    |        |    |        |    |
| 28   | %'     | D | TFK | RV_258   | D    |     |    |        |    |        |    |        |    |        |    |
| 31<  | %      | D | TFK | RV_2300  | D    |     |    |        |    |        |    |        |    |        |    |
| 31<  | %      | D | TFK | RV_2400  | D    |     |    |        |    |        |    |        |    |        |    |
| 35   | 78FG43 | D | TFK | RV12P20_ | J    | Wm6 | F  |        |    |        |    |        |    |        |    |
| 29   | 29FB33 | D | ULT | Sinus E  | D    | Eu4 |    |        |    |        |    |        |    |        |    |
| 27Sp | 27FB39 | D | ULT | Sinus SA | C    | Eu4 |    |        |    |        |    |        |    |        |    |
| 27Sp | 27FB39 | D | ULT | Sinus SE | D    | Eu4 |    |        |    |        |    |        |    |        |    |
| 28Jl | 28FB31 | D | IDL | SuperdIV | C    | Eu4 | O  |        |    |        |    |        |    |        |    |
| 6x   |        | X | CER | SR2B     | T    | No  | N  |        |    |        |    |        |    |        |    |
| 6x   |        | X | CER | SR4      | V    | Sm3 | N  |        |    |        |    |        |    |        |    |
| 6x   |        | X | CER | SR44     | V    | Sm3 | N  |        |    |        |    |        |    |        |    |
| 26<  | %      | D | TKD | ST2      | D    | Eu4 | W  |        |    |        |    |        |    |        |    |
| 28Jl | 28B32  | D |     | ST3      |      | Eu4 |    |        |    |        |    |        |    |        |    |
| 28Jl | 28B32  | D |     | ST10     |      | Eu4 |    |        |    |        |    |        |    |        |    |
| 26<  | %      | D | TKD | ST12     | D    | Eu4 | W  |        |    |        |    |        |    |        |    |
| 26<  | %      | D | TKD | ST21     | D    | Eu4 | W  |        |    |        |    |        |    |        |    |
| 26<  | %      | D | TKD | ST51     | D    | Eu4 | W  |        |    |        |    |        |    |        |    |
| 3x   |        | D | STV | STV100/6 | V    | Eu4 | N  |        |    |        |    |        |    |        |    |
| 3x   |        | D | STV | STV150/2 | VV   | Au8 | N  |        |    |        |    |        |    |        |    |
| 3x   |        | D | STV | STV280/4 | VVVV | Eu5 | N  |        |    |        |    |        |    |        |    |
| 21Au | PA     | N | PLP | T I      | Y    | SpS | O  |        |    |        |    |        |    |        |    |
| 21Au | PA     | N | PLP | T II     | Y    | SpS | O  |        |    |        |    |        |    |        |    |
| 4x   |        | D | TFK | T116     | E    | Eu4 | D  |        |    |        |    |        |    |        |    |
| 27Au | PA     | N | PLP | TA04/5   | D    | Eu4 |    |        |    |        |    |        |    |        |    |
| 27Au | PA     | N | PLP | TA08/10  | D    | Eu4 |    |        |    |        |    |        |    |        |    |
| 27Au | PA     | N | PLP | TB04/10  | D    | Eu4 |    |        |    |        |    |        |    |        |    |
| 27Au | PA     | N | PLP | TB04/10  | D    | Eu4 |    |        |    |        |    |        |    |        |    |
| 28Jl | 28B32  | D |     | TN406    |      | Eu4 |    |        |    |        |    |        |    |        |    |

| DAT1 | QU1    | L | HSL | TYPE     | SYST | SOC | HZ | PLL    | PA | OGTY   | OA | VRG   | VA | NFG   | NA |
|------|--------|---|-----|----------|------|-----|----|--------|----|--------|----|-------|----|-------|----|
| 37Ap | HLR    | H | TRM | TX21     | G    | Oc  | C  | 21TH8  | #  | 6TH8   | H  | 6A8   | Y  | 12E8  | N  |
| 3x   |        | D | OSR | Te30     | V    | TFK | N  |        |    |        |    |       |    |       |    |
| 49Ja | PA     | N | PLP | U30      | R    | Oc  | U  |        |    |        |    |       |    |       |    |
| 3x   |        | G | MOV | U50      | Z    | Oc  | G  | 5Y3    | Q  | 5Y3    | Q  |       |    |       |    |
| 27Sp | 29FB39 | D | VAL | U208D    | E    | Eu4 | K  |        |    |        |    |       |    |       |    |
| 28Jl | 28FB34 | D | VAL | U209D    | E    | Eu4 | K  | A241   | Q  |        |    |       |    |       |    |
| 28Jl | 28FB33 | D | DLY | U220     | C    | Eu4 |    |        |    |        |    |       |    |       |    |
| 28Jl | 28FB32 |   |     | U306     | C    |     |    |        |    |        |    |       |    |       |    |
| 27Mr | 29FB14 | D | DLY | U406     | E    | Eu4 |    |        |    |        |    |       |    |       |    |
| 27Sp | 29FB39 | D | VAL | U408D    | E    | Eu4 | O  |        |    |        |    |       |    |       |    |
| 28Jl | 28B32  | D |     | U408b    |      | Eu4 |    |        |    |        |    |       |    |       |    |
| 27Sp | 27FB39 | D | VAL | U409D    | E    | Eu4 | O  | A441   | Q  | RE074d | K  |       |    |       |    |
| 31   | 31FB41 | O | OST | U920     | C    | Eu5 | S* |        |    |        |    |       |    |       |    |
| 32No | 32FB46 | D | VAL | U1718    | E    | Eu5 | B  | R_1817 | K  | B2041  | Q  |       |    |       |    |
| 3x   |        | D | OSR | U2410P   | R    | SpS | U  |        |    |        |    |       |    |       |    |
| 29   | VV40   | D | VAL | U4100D   | E    | Eu5 | A  |        |    | E441N  | C  |       |    |       |    |
| 27Sp | 27FB39 | D | ULT | Univer2A | C    | Eu4 | K  |        |    |        |    |       |    |       |    |
| 27Sp | 27FB39 | D | ULT | Univer2E | C    | Eu4 | K  |        |    |        |    |       |    |       |    |
| 27Sp | 27FB39 | D | ULT | Univer2H | C    | Eu4 | K  |        |    |        |    |       |    |       |    |
| 27Sp | 27FB39 | D | ULT | Univer4A | C    | Eu4 | O  |        |    |        |    |       |    |       |    |
| 27Sp | 27FB39 | D | ULT | Univer4E | C    | Eu4 | O  |        |    |        |    |       |    |       |    |
| 27Sp | 27FB39 | D | ULT | Univer4H | C    | Eu4 | O  |        |    |        |    |       |    |       |    |
| 48Mr | 48RM03 |   | TRM | UA55     | SS   | SpA | U  |        |    |        |    |       |    |       |    |
| 48   | TZ87   | W | TFK | UAA11    | AA   | St8 | U  | UB41   | K  | EAA11  | H  |       |    | UB41  | R  |
| 51Jn | 51FT12 | W | TFK | UAA91    | AA   | Mi7 | U  | 12AL5  | H  | EAA91  | H  |       |    |       |    |
| 52Ap | TRM    | E | GEM | UABC80   | A-BC | No  | U  | PABC80 | H  | EABC80 | H  |       |    |       |    |
| 46Jl | PB3A   | E | PLP | UAF41    | AF   | Ri  | U  | EAF41  | H  |        |    | EBF2  | N  | UAF42 | V  |
| 48Sp | PB3A   | E | PLP | UAF42    | AF   | Ri  | U  | EAF42  | H  | UAF41  | V  | UAF41 | V  | UBF80 | M  |
| 50Jl | PB3A   | E | PLP | UB41     | AA   | Ri  | U  | UAA11  | K  | EB41   | H  | CB2   | U  | UAA91 | S  |
| 48No | PB3A   | E | PLP | UBC41    | BC   | Ri  | U  | EBC41  | H  | 6Q7    | R  | EBC3  | U  | UBC81 | S  |
| 4x   |        |   | PLP | UBC1     | BC   | Oc  | UF | 12Q7   | R  | 6Q7    | W  |       |    | UBC41 | R  |
| 56Ja | PA     | W | GEM | UBC81    | BC   | No  | U  | EBC81  | H  | UBC41  | S  | UBC41 | S  |       |    |
| 4x   |        |   | PLP | UBF2     | BF   | Oc  | UF | OBF2   | H  | EBF2   | R  |       |    |       |    |
| 39Jn | 39FV13 | W | TFK | UBF11    | BF   | St8 | U  |        |    | EBF11  | H  | CF3   | E  | UAF42 | N  |
| 47   | TZ87   | W | TFK | UBF11-gv | BF   | St8 | U  |        |    | UBF11  | 2  |       |    |       |    |
| 48Ja | 48FT01 | W | LOR | UBF11-mp | BF   | St8 | U  |        |    | UBF11  |    |       |    |       |    |
| 50My | 50RM05 | W | TFK | UBF15    | BF   | St8 | U  | EBF15  | H  | EBF15  | H  | UBF11 | Z  | UBF89 | U  |
| 49No | PA     | W | VAL | UBF80    | BF   | St8 | U  | EBF80  | H  | EBF80  | H  | UAF42 | N  | UBF89 | C  |
| 55Oc | TRM    | W | GEM | UBF89    | BF   | No  | U  | EBF89  | H  | UBF80  | C  | UBF80 | C  |       |    |
| 51Ap | 51FT07 | Y | RFT | UBF175   | BF   | Gno | U  |        |    | UBF15  |    |       |    |       |    |
| 40Ja | PB3    | E | PLP | UBL1     | BL   | Oc  | U  | UBL3   | S  | CBL1   | U  | CBL1  | U  | UBL21 | T  |
| 48Ja | 48FT01 | W | VAL | UBL3     | BL   | Au8 | U  | UBL1   | S  | UBL1   | S  | UCL11 | N  | UL41  | N  |
| 41Fe | PB3    | E | PLP | UBL21    | BL   | Lo8 | U  | EBL21  | Z  | UBL1   | T  | UBL1  | T  | UL41  | N  |
| 50Ja | 50RM03 | W | LOR | UBL71    | BL   | Lo8 | U  | UBL21  | K  | UBL21  | =  |       |    |       |    |
| 52Ap | TRM    | E | GEM | UC92     | C    | Mi7 | U  | EC92   | H  | EC92   | H  |       |    |       |    |
|      |        | E | PLP | UCC84    | C-C  | No  | U  | PCC84  | H  | PCC84  |    |       |    |       |    |
| 53Oc | TRM    | W | GEM | UCC85    | C-C  | No  | U  | PCC85  | H  | ECC85  | Z  | UCC84 | N  |       |    |
| 50My | 50RM05 | W | TFK | UCF12    | CJ   | St8 | U  | ECF12  | H  | ECF12  | H  |       |    | UCF80 | U  |
|      |        | E | PLP | UCF80    | C-J  | No  | U  | PCF80  | H  | PCF80  | H  | UCF12 | U  |       |    |
| 40Ap | PB3    | E | PLP | UCH4     | CI   | Oc  | U  | UCH5   | S  |        |    | ECH3  | U  | UCH21 | S  |
| 48Ja | 48FT01 | W | VAL | UCH5     | CI   | Au8 | U  | UCH4   | S  | UCH4   | S  | UCH11 | U  | UCH41 | U  |
| 39Jn | 39FV13 | D | TFK | UCH11    | G    | St8 | U  | UCH4   | K  | ECH11  | H  | CCH1  | N  | UCH42 | U  |
| 47   | TZ87   | W | TFK | UCH11-gv | G    | St8 | U  |        |    | UCH11  | 2  |       |    |       |    |
| 48Ja | 48FT01 | W | LOR | UCH11-mp | BF   | St8 | U  |        |    | UCH11  |    |       |    |       |    |
| 41Ja | PA     | E | PLP | UCH21    | CI   | Lo8 | U  | ECH21  | H  | UCH4   | S  | UCH4  | S  | UCH41 | N  |
| 46Jl | PB3A   | E | PLP | UCH41    | G    | Ri  | U  | UCH11  | K  |        |    | UCH21 | N  | UCH42 | C  |
| 48Oc | PB3A   | E | PLP | UCH42    | G    | Ri  | U  | UCH42  | H  | UCH41  | C  | UCH41 | C  | UCH81 | J  |
| 50Ja | 50RM03 | W | LOR | UCH71    | CI   | Lo8 | U  | UCH21  | K  | UCH21  | =  |       |    | UCH42 | U  |
| 52Ap | TRM    | E | GEM | UCH81    | CI   | No  | U  | 19D8   | Q  | UCH21  | R  | UCH42 | U  |       |    |
| 51Ap | 51FT07 | Y | RFT | UCH171   | CH   | Gno | U  |        |    | UCH11  |    |       |    |       |    |
| 39Jn | 39FV13 | D | TFK | UCL11    | CS   | St8 | U  | UBL1   | K  | ECL11  | Z  | CL4   | N  | UCL81 | U  |
| 48Ja | 48FT01 | W | LOR | UCL11 -p | CS   | St8 | U  |        |    | UCL11  |    |       |    |       |    |
| 52Ap | TRM    | W | TFK | UCL81    | CS   | No  | U  | ECL113 | U  | PCL81  | H  | UCL11 | U  | UCL82 | O  |

| DAT1 | QU1    | L | HSL | TYPE    | SYST | SOC | HZ | PLL    | PA | OGTY  | OA | VRG    | VA | NFG   | NA |
|------|--------|---|-----|---------|------|-----|----|--------|----|-------|----|--------|----|-------|----|
| 55No | TRM55B | W | GEM | UCL82   | C-S  | No  | U  | ECL82  | H  | PCL82 | H  | UCL81  | O  |       | J  |
|      |        | E | BMA | UCL83   | C-S  | No  | U  |        |    | PCL83 |    |        | %  |       | %  |
| 49My | 49FS10 | W | TFK | UEL11   | ES   | St8 | U  | UEL71  | K  | VEL11 | H  | UCL11  | J  | UCL81 | N  |
| 50Mr | 50RM03 | Y | RFT | UEL51   | ES   | St8 | U  |        |    | UCL11 | J  | UCL11  | J  |       |    |
| 48Mr | 48RM03 | W | LOR | UEL71   | EL   | Lo8 | U  | UEL11  | K  | VEL11 | U  | UBL71  | J  |       | J  |
| 51Ap | 51FT07 | Y | RFT | UEL171  | ES   | Gno | U  |        |    |       |    |        |    |       |    |
| 49Ja | 49FS01 | W | VAL | UF5     | F    | Au8 | UF | UF9    | S  | UF9   | S  | UF11   | U  | UF41  | T  |
| 48Ja | 48FT01 | W | VAL | UF6     | J    | Au8 | UF |        |    | EF6   | H  | UF11   | N  | UF41  | N  |
| 4x   |        |   | PLP | UF8     | F    | Au8 | UF | EF8    | R  |       |    |        | %  |       | %  |
| 40Ja | PB3    | E | PLP | UF9     | F    | Oc  | UF | UF5    | S  | EF9   | R  | EF9    | R  | UF21  | R  |
|      |        | D | TFK | UF11    | F    | St8 | U  | UF21   | K  | EF11  | H  | CF3    | U  | UF41  | U  |
| 4x   |        | W | TFK | UF14    | J    | St8 | U  | EF14   | H  | EF14  | H  | UF11   | U  | UF42  | U  |
| 50My | 50RM05 | W | TFK | UF15    | F    | St8 | U  | EF15   | H  | EF15  | H  | UF11   | U  | UF43  | U  |
| 41Fe | PB3    | E | PLP | UF21    | F    | Lo8 | UF | EF22   | H  | UF9   | S  | UF9    | S  | UF41  | T  |
| 46Jl | PB3A   | E | PLP | UF41    | F    | Ri  | U  | EF41   | H  | UF9   | S  | UF21   | S  | UF89  | U  |
| 50De | PA     | W | PLP | UF42    | J    | Ri  | U  | EF42   | H  | EF42  | H  | UF14   | U  | UF85  | U  |
| 50Au | 50FT15 | W | VAL | UF43    | J    | Ri  | U  | EF43   | H  | EF43  | H  | UF15   | U  | UF85  | U  |
| 51Jn | 51FS12 | W | GEM | UF80    | J    | No  | U  | EF80   | H  | EF80  | H  | UF42   | U  |       | J  |
| 51Jn | 51FS12 | W | GEM | UF85    | F    | No  | U  | EF85   | H  | EF85  | H  | UF43   | U  | UF89  | N  |
| 53Oc | TRM    | W | GEM | UF89    | F    | No  | U  | EF89   | H  | EF89  | H  | UF41   | U  |       | J  |
| 4x   |        | D | TFK | UFM11   | FM   | St8 | U  | EFM11  | H  | EFM11 | H  | C/EM 2 | N  | UM11  | E  |
| 4x   |        |   | PLP | UL1     | L    | Oc  | U  |        |    |       |    |        |    | UL41  | S  |
| 49Ja | 49FS02 | W | VAL | UL2     | S    | Au8 | U  | EL 2   | H  |       |    | VL1    | N  | UL41  | N  |
| 50My | 50RM05 | W | TFK | UL11    | L    | St8 | U  | UL41   | K  | UL41  | S  | UCL11  | M  | UL41  | S  |
| 4x   |        | W | TFK | UL12    | L    | St8 | U  |        |    | EL12  | U  | CL6    | U  | UL84  | N  |
| 46Sp | PB3A   | E | PLP | UL41    | L    | Ri  | U  | UL11   | K  |       |    | UBL21  | M  | UL84  | T  |
| 48No | PA     | E | PLP | UL44    | L    | Ri  | U  |        |    |       |    |        |    |       |    |
| 47?  | 48RM03 | W | LOR | UL71    | L    | Lo8 | U  |        |    |       |    |        |    | UEL71 | M  |
| 55Ap | 55FS07 | W | VAL | UL84    | L    | No  | U  | PL84   | H  | EL84  | Z  | UL41   | T  |       | J  |
| 29<  | 29FB08 | D | ULT | UL430L  | D    | Eu4 | O  | B404   | K  |       |    |        |    |       |    |
| 6x   |        | W | LOR | ULL80   | SS   | No  | U  | ELL80  | H  | ELL80 | H  |        | %  |       | %  |
| 40Ja | PB3    | E | PLP | UM4     | MMCC | Oc  | U  | EM4    | W  | EM4   | R  | EM4    | R  | UM34  | V  |
| 4x   |        | D | TFK | UM11    | MMCC | St8 | U  | UM 4   | K  | EM11  | Z  | UFM11  | M  | UM34  | U  |
| 50No | PA     | E | VAL | UM34    | MMCC | Oc  | U  | EM34   | W  | UM4   | V  | UM4    | V  | UM85  | U  |
| 52My | TRM    | W | TFK | UM35    | MMCC | Oc  | U  | UM11   | S  | UM11  | S  | UM11   | S  | UM85  | U  |
| 54My | TRM    | W | GEM | UM80    | MC   | No  | U  | EM80   | H  | EM80  | H  | UM85   | O  | UM84  | O  |
| 5x   |        | E | GEM | UM81    | MC   | No  | U  | EM81   | H  | UM80  | L  | UM85   | O  | UM84  | O  |
| 58De | PA     | E | GEM | UM84    | MC   | No  | U  | EM84   | H  | EM84  | H  | UM80   | O  |       | J  |
| 52De | 52FS23 | W | LOR | UM85    | MC   | No  | U  | EM85   | H  | EM85  | H  | UM34   | U  | UM80  | O  |
| 5x   |        | E | GEM | UQ80    | Q    | No  | U  | EQ80   | H  | EQ80  | H  |        | %  |       | %  |
| 22De | OTB984 | A | RCA | UX-199  | C    | U4  | Sd | UX-199 | S  |       |    |        |    |       |    |
| 2x   |        | A |     | UX-210  | D    | U4  | S  |        |    |       |    |        |    |       |    |
| 28Jl | 28FB32 | A |     | UX222   |      |     |    |        |    |       |    |        |    |       |    |
| 26Jn | %      | A | WEH | UX225   |      |     |    |        |    |       |    |        |    |       |    |
| 27Sp | %      | A | WEH | UX226   | C    | U4  | S  |        |    |       |    |        |    |       |    |
| 29Mr | %      | A | RCA | UX245   | D    | U4  | J  | 45     | #  |       |    |        |    |       |    |
| 28Fe | %      | A | RCA | UX250   | D    | U4  | S  | 50     | #  |       |    |        |    |       |    |
| 27My | %      | A | RCA | UX280   | Z    | U4  | G  | 80     | #  |       |    |        |    |       |    |
| 27Jn | %      | A | WEH | UX281   | Y    | U4  | S  | 81     | #  |       |    |        |    |       |    |
| 40Ja | PA     | E | PLP | UY1     | Y    | Oc  | U  | UY3    | S  |       |    | CY1    | U  | UY1N  | V  |
| 40   | PB3    | E | PLP | UY1N    | Y    | Oc  | U  | UY3    | S  |       |    | UY1    | V  | UY21  | S  |
| 48   | TZ87   | W | TFK | UY2     | Y    | Au5 | U  |        |    | VY2   | Z  | VY2    | N  | UY41  | N  |
| 48Ja | 48FT01 | W | VAL | UY3     | Y    | Au8 | U  | UY1    | S  | UY1N  | S  | UY11   | S  | UY41  | U  |
| 49My | 49FS11 | W | VAL | UY4     | Y    | Au8 | U  |        |    |       |    | UY3    | >  | UY41  | N  |
| 39Jn | 39FV13 | D | TFK | UY11    | Y    | St8 | U  | UY1    | K  |       |    | CY1    | U  | UY41  | U  |
| 48Ja | 48FT01 | W | LOR | UY11 -p | Y    | St8 | U  |        |    |       |    |        |    |       |    |
| 41Fe | PA     | E | PLP | UY21    | Y    | Lo8 | U  |        |    | UY1   | S  | UY1    | S  | UY41  | U  |
| 46Jl | PB3A   | E | PLP | UY41    | Y    | Ri  | U  | UY89   | S  |       |    | UY21   | U  | UY85  | U  |
| 48Au | PB3A   | E | PLP | UY42    | Y    | Ri  | U  | UY11   | K  |       |    | UY41   | C  | UY92  | U  |
| 55Mr | PA     | E | GEM | UY82    | Y    | No  | U  | PY82   | H  | PY82  | H  | UY3    | N  |       | J  |
| 54Mr | PA     | W | VAL | UY85    | Y    | No  | U  |        |    |       |    | UY41   | U  |       | J  |
| 60Ja | PA     | E | VAL | UY89    | Y    | No  | U  | UY41   | S  | UY421 | S  | UY41   | S  |       | J  |
| 55Ap | PA     | E | PLP | UY92    | Y    | Mi7 | U  |        |    |       |    |        | %  |       | %  |

| DAT1 | QU1    | L | HSL | TYPE     | SYST | SOC | HZ | PLL    | PA | OGTY  | OA | VRG    | VA | NFG   | NA |
|------|--------|---|-----|----------|------|-----|----|--------|----|-------|----|--------|----|-------|----|
| 2x   |        | A | RCA | UY-224   | C    | U4  | E  | 24     | #  |       |    |        |    |       |    |
| 27My | %      | A | WEH | UY227    | C    | U5  | J  | 27     | #  |       |    |        |    |       |    |
| 2x   |        | A |     | UY-235   |      |     |    | 35     | #  |       |    |        |    |       |    |
| 28Jl | 28FB31 | D | VAL | UZ420    | CC   | SpS | O  | NZ420  | #  |       |    |        |    |       |    |
| 26<  | %      | D | RRF | Valvo,15 | C    | Eu4 | D  |        |    |       |    |        |    |       |    |
| 26<  | %      | D | RRF | Vv 15/25 | C    | Eu4 | D  |        |    |       |    |        |    |       |    |
| 35   | %      | D | GEM | VC1      | C    | Au8 | V  | CC2    | H  | AC2   | H  | R_1821 | U  | VCL11 | N  |
| 47No | 47FT21 | D | TFK | VCH11    | G    | St8 | V  | UCH11  | H  | UCH11 | H  |        |    |       |    |
| 38   | DRM    | D | TFK | VCL11    | CS   | St8 | V  |        |    |       |    |        |    | VEL11 | Y  |
| 46   | 46FT02 | W | TFK | VEL11    | ES   | St8 | V  |        |    | VCL11 | J  | VCL11  | J  | UEL11 | H  |
| 39?  |        | D | TFK | VF3      | F    | Au8 | V  | CF3    | H  | AF3   | H  |        |    |       |    |
| 37Jl | %      | D | GEM | VF7      | J    | Au8 | V  | CF7    | H  | AF7   | H  | R_1884 | U  | VF14  | N  |
| 47No | 47FS21 | D | TFK | VF14     | F    | St8 | V  | UF14   | H  | UF14  | H  | VF7    | N  |       |    |
| 31<  | 31FB08 | D | SBT | VG220    | X    | Eu4 | N  | R_1500 | K  |       |    |        |    |       |    |
| 31<  | 31FB08 | D | SBT | VG230    | Z    | Eu4 | O  | RGN504 | K  |       |    |        |    |       |    |
| 31<  | 31FB08 | D | SBT | VG240    | Z    | Eu4 | O  | R_1054 | K  |       |    |        |    |       |    |
| 31<  | 31FB08 | D | SBT | VG250    | Z    | Eu4 | J  | R_1503 | K  |       |    |        |    |       |    |
| 35<  |        | D | SBT | VG3512   | Z    |     |    | R_2004 | K  |       |    |        |    |       |    |
| 35   | %      | D | GEM | VL1      | L    | Au8 | V  | CL1    | Z  | CL1   | Z  | CL1    | Z  | VEL11 | N  |
| 39<  | RH39   | D | GEM | VL4      | L    | Au8 | V  | CL4    | H  | CL4   | H  | CL4    | H  |       |    |
| 18<  | %      | D | SIM | VS27     | D    | SpS | S  |        |    |       |    |        |    |       |    |
| 26<  | %      | D | TKD | VT16     | C    | Eu4 | O  |        |    |       |    |        |    |       |    |
| 26<  | %      | D | TKD | VT17     | C    | Eu4 | O  |        |    |       |    |        |    |       |    |
|      |        | G |     | VT61A    | DD   | Eu5 | F  | 2C34   | R  | 2C34  | R  |        |    |       |    |
| 26<  | %      | D | TKD | VT100    | C    | Eu4 | M  |        |    |       |    |        |    |       |    |
| 26<  | %      | D | TKD | VT103    | C    | Eu4 | M  |        |    |       |    |        |    |       |    |
| 27Mr | 27FB13 | D | TKD | VT111    | C    | Eu4 |    | VT121  | H  |       |    |        |    |       |    |
| 28Jl | 28FB32 | D | TKD | VT112    | C    | Eu4 |    |        |    |       |    |        |    |       |    |
| 27Mr | 27FB13 | D | TKD | VT121    | C    | Eu4 | K  | VT111  | H  |       |    |        |    |       |    |
| 27Mr | 27FB13 | D | TKD | VT122    | C    | Eu4 |    |        |    |       |    |        |    |       |    |
| 27Mr | 27FB13 | D | TKD | VT123    | CC   | Eu4 |    |        |    |       |    |        |    |       |    |
| 27Mr | 27FB13 | D | TKD | VT124    | C    | Eu4 |    |        |    |       |    |        |    |       |    |
| 27Mr | 27FB13 | D | TKD | VT126    | CC   | Eu4 |    |        |    |       |    |        |    |       |    |
| 27Mr | 27FB13 | D | TKD | VT128    | C    | Eu4 |    |        |    |       |    |        |    |       |    |
| 27Sp | 27FB39 | D | TKD | VT129    | D    | Eu4 | O  |        |    |       |    |        |    |       |    |
| 27Sp | 27FB39 | D | TKD | VT132    | CC   | SpS | O  |        |    |       |    |        |    |       |    |
| 27Sp | 27FB39 | D | TKD | VT132    | CC   | SpS | O  |        |    |       |    |        |    |       |    |
| 27Sp | 27FB39 | D | TKD | VT133    | CC   | SpS | O  |        |    |       |    |        |    |       |    |
| 27Sp | 27FB39 | D | TKD | VT134    | CC   | SpS | D  |        |    |       |    |        |    |       |    |
| 27Sp | 27FB39 | D | TKD | VT137    | CC   | SpS | O  |        |    |       |    |        |    |       |    |
| 27Sp | 27FB39 | D | TKD | VT139    | CCD  | SpS | O  |        |    |       |    |        |    |       |    |
| 27Sp | 27FB39 | D | TKD | VT141    | D    | Eu4 | O  |        |    |       |    |        |    |       |    |
| 27Sp | 27FB39 | D | TKD | VT142    | CCD  | SpS | O  |        |    |       |    |        |    |       |    |
| 28Jl | 28FB34 | D | TKD | VT143    |      | SpS | O  |        |    |       |    |        |    |       |    |
| 28Jl | 28FB34 | D | TKD | VT147    | DD   | SpS | O  |        |    |       |    |        |    |       |    |
| 35   | %      | D | GEM | VY1      | Y    | Au8 | V  | CY1    | Z  | CY1   | Z  | CY1    | Z  | UY4   | Z  |
| 38   | DRM    | D | GEM | VY2      | Y    | Au5 | V  |        |    |       |    | VY1    | U  | UY2   | Z  |
|      |        | I | ZNT | W5H      | D    | Au8 | A  | AD5    | !  |       |    |        |    |       |    |
| 28   | VV40   | D | VAL | W125     | C    | Eu4 | Y  |        |    | A4245 | N  |        |    |       |    |
| 27Sp | 27FB39 | D | VAL | W206     | C    | Eu4 | K  | KC1    | #  |       |    |        |    |       |    |
| 31   | 31FB41 | O | OST | W310     | C    | Eu5 | S* |        |    |       |    |        |    |       |    |
| 27Sp | 27FB39 | D | VAL | W406     | C    | Eu4 | O  | RE034  | K  | A425  | =  |        |    |       |    |
| 28Jl | 28B32  | D |     | W408b    |      | Eu4 |    |        |    |       |    |        |    |       |    |
| 30   | VV40   | D | VAL | W410     | C    | Eu4 | O  |        |    |       |    |        |    |       |    |
| 31Au | 31FB33 | D | VAL | W411     | C    | Eu4 | O  |        |    | B438  | =  |        |    |       |    |
| 33   | ERB    | D | VAL | W2418    | E°   | Eu5 | B  | R_1814 | K  | B2099 | =  |        |    |       |    |
| 30   | ERB    | D | VAL | W4080    | C    | Eu5 | A  | REN904 | N  |       |    |        |    |       |    |
| 28   | VV40   | D | VAL | W4100    | C    | Eu5 | A  |        |    | E438  | =  |        |    |       |    |
| 33   | ERB    | D | VAL | W4110    | C    | Eu5 | A  | REN914 | K  | E499  | =  |        |    |       |    |
| 21De | %      | A | WEH | WD11     | C    | U4  | S  |        |    |       |    |        |    |       |    |
| 23   | %      | A | WEH | WD12     | C    | U4  | S  |        |    |       |    |        |    |       |    |
| 4x   |        | I |     | WE13     | CL   | Au8 | E  | ECL1   | !  | ECL11 | S  |        |    |       |    |
| 4x   |        | I | PLP | WE37F    | BF   | Au8 | A  | ABF2   | !  | EBF2  | H  |        |    |       |    |

| DAT1 | QU1    | L | HSL | TYPE     | SYST | SOC | HZ | PLL    | PA | OGTY  | OA | VRG | VA | NFG | NA |
|------|--------|---|-----|----------|------|-----|----|--------|----|-------|----|-----|----|-----|----|
| 4x   |        | I |     | WE44     | CF   | Au8 | A  | ACF1   | !  | ECF1  | Z  |     |    |     |    |
| 32?  | 58FS04 | D | LWO | WG33     | CCL  | SpS | B  |        |    |       |    |     |    |     |    |
| 34   | ERB    | D | LWO | WG34     | EL   | SpS | B  |        |    |       |    |     |    |     |    |
| 34   | ERB    | D | LWO | WG35     | AE*L | SpS | B  |        |    |       |    |     |    |     |    |
| 34   | ERB    | D | LWO | WG36     | FCJ  | SpS | B  |        |    |       |    |     |    |     |    |
| 34   | ERB    | D | LWO | WG37     | EFL  | SpS | B  |        |    |       |    |     |    |     |    |
| 21De | %      | A | WEH | WR21     |      |     |    |        |    |       |    |     |    |     |    |
| 27Sp | 29FB39 | D | VAL | WW-Zwil  | CC   |     |    |        |    |       |    |     |    |     |    |
| 25   | %      | A | WEH | WX12     | C    | U4  | S  |        |    |       |    |     |    |     |    |
| 33Mr | 70Y    | A | ARC | Wund-B   | CCA? | U6  | J  |        |    |       |    |     |    |     |    |
| 32My | 70Y    | A | ARC | Wunder   | CC?  | U6  | J  |        |    |       |    |     |    |     |    |
| 3x   |        | G | MOV | X61M     | G    | Oc  | EP | ECH35  | N  |       |    |     |    |     |    |
| 33   | VV40   | D | VAL | X2818    | H%   | Hx7 | B  | R_1824 | K  | B2048 | =  |     |    |     |    |
| 33   | VV40   | D | VAL | X2918    | H    | Hx7 | B  | R_1834 | K  | B2049 | =  |     |    |     |    |
| 33   | VV40   | D | VAL | X4122    | H%   | Hx7 | A  | R_1224 | K  | E448  | =  |     |    |     |    |
| 33   | %'     | D | VAL | X4123    | H    | Hx7 | A  | R_1234 | K  | E449  | =  |     |    |     |    |
| 23   | PA     | N | PLP | Z I      | D    | Eu4 | O  |        |    |       |    |     |    |     |    |
| 23   | PA     | N | PLP | Z II A   | D    | MOc | E  |        |    |       |    |     |    |     |    |
| 23   | PA     | N | PLP | Z II B   | D    | Eu4 | E  |        |    |       |    |     |    |     |    |
| 23   | PA     | N | PLP | Z III    | D    | SpS | W  |        |    |       |    |     |    |     |    |
| 23   | PA     | N | PLP | Z 4      | D    | SpS | S  |        |    |       |    |     |    |     |    |
| 23   | PA     | N | PLP | Z 5      | D    | SpS | S  |        |    |       |    |     |    |     |    |
| 23   | PA     | N | PLP | ZG I     | Y    | Eu4 | O  |        |    |       |    |     |    |     |    |
| 23   | PA     | N | PLP | ZGII A   | Y    | MOc | E  |        |    |       |    |     |    |     |    |
| 23   | PA     | N | PLP | ZGII B   | Y    | Eu4 | E  |        |    |       |    |     |    |     |    |
| 23   | PA     | N | PLP | ZGIII    | Y    | SpS | W  |        |    |       |    |     |    |     |    |
| 19JI | PA     | N | PLP | ZENDLAMP | C    | SpS | E  |        |    |       |    |     |    |     |    |
| 28JI | 28FB31 | D | DEL | Zweifa 2 | CC   |     |    |        |    |       |    |     |    |     |    |
| 28JI | 28FB31 | D | DEL | Zweifa 4 | CC   |     |    |        |    |       |    |     |    |     |    |
| 29JI | 29FB25 | D | ULT | ZwergI/2 | C    | Eu4 | K  |        |    |       |    |     |    |     |    |
| 29JI | 29FB25 | D | ULT | ZwergII2 | C    | Eu4 | K  |        |    |       |    |     |    |     |    |
| 28JI | 28FB32 | T | MRS | ZN1      |      | Eu4 |    |        |    |       |    |     |    |     |    |