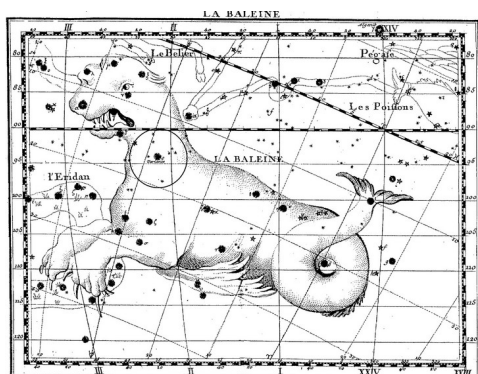
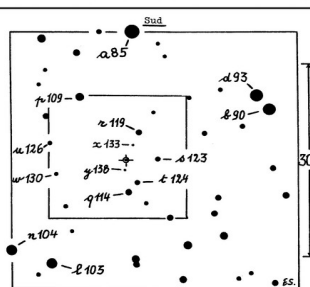


Bulletin de l'Association Française des Observateurs d'Etoiles Variables (AFOEV)



0749+22 U Geminorum (U Gem)
 1900 : 07h 49m 10s +22° 15,9' précession annuelle
 1950 : 07h 52m 08s +22° 08,3' +3,56s -0,153"
 2000 : 07h 55m 06s +22° 00,6' 4q. 1900
 UGSS : mv 8,2 à 14,9 - per.moy. 105,2 j - sp. Pec(UG)+MA.5V

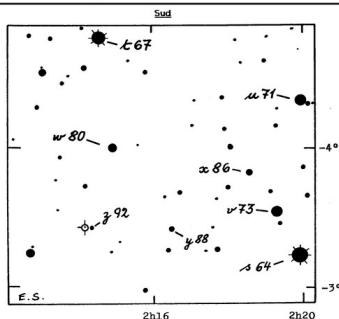


Carte et séquence AFOEV 1936
1991-IX

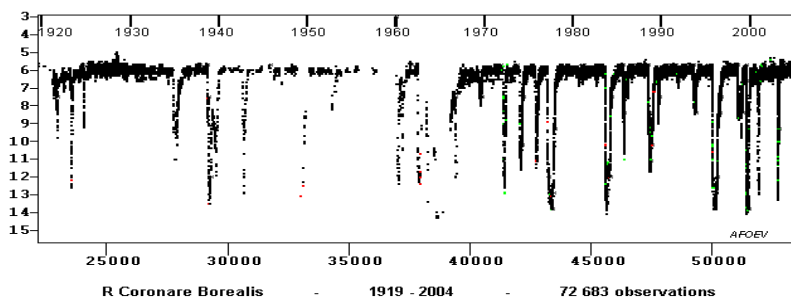
0214-03 Mira Ceti (omi Cet)

1900 : 02h 14m 18s -03° 26,1' précession annuelle
 1950 : 02h 16m 49s -03° 12,2' +3,03s +0,278"
 2000 : 02h 19m 21s -02° 58,3' 4q. 1900

Mira : mv 2,0 à 10,1 - pér. : 331,96 j - sp. MSe-M9e



Carte et séquence AFOEV (1936)
1991-IV ; 4q 1900



R Coronae Borealis - 1919 - 2004 - 72 683 observations

Bulletin
numéro 193
(2025-3)

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Cotisations et abonnements

10 euros	Membre Titulaire (bulletin en ligne)
35 euros	Membre Titulaire (bulletin papier et expédition)
100 euros	Membre bienfaiteur

Publication trimestrielle, l'abonnement part du 1er janvier de l'année. Paiement par chèque bancaire ou postal adressé au trésorier de l'AFOEV.

Revue trimestrielle – ISSN 0153-9949

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Dominique Naillon assure la gestion du site WEB de l'AFOEV ainsi que la cohérence des données.

Le mot du Président

À l'aide du télescope spatial Webb, une équipe scientifique internationale, associant des astrophysiciens de l'Observatoire de Paris – PSL, recueille des observations sur la présence possible d'une planète géante en orbite autour d'Alpha du Centaure A, une étoile presque identique au Soleil et très proche de nous. Ces résultats font l'objet de deux publications dans *The Astrophysical Journal Letters*, le 7 août 2025.

Situé à seulement 4 années-lumière du Soleil, Alpha du Centaure est un système stellaire triple qui constitue depuis longtemps une cible de choix dans la quête de mondes au-delà de notre Système solaire. Il contient deux étoiles semblables au Soleil, Alpha Centauri A et Alpha Centauri B, ainsi qu'une étoile naine rouge, Proxima Centauri, dont on sait qu'à elle seule, elle héberge trois planètes.



Cette image montre le système stellaire Alpha Centauri vu depuis plusieurs observatoires terrestres et spatiaux : le Digitized Sky Survey (DSS), le télescope spatial Hubble de la NASA et le télescope spatial James Webb de la NASA. Alpha Centauri A est la troisième étoile la plus brillante du ciel nocturne et l'étoile similaire au Soleil la plus proche de la Terre.

Jusqu'à présent, il s'est avéré difficile de détecter la présence d'autres mondes autour d'Alpha Centauri A et d'Alpha Centauri B, car ces étoiles sont trop brillantes pour les grands télescopes professionnels et elles sont très proches l'une de l'autre sur le ciel (source : Observatoire de Paris).

Dominique Proust

(Observatoire de Paris, campus de Meudon)

EG Andromedae, une étoile variable symbiotique pour l'automne

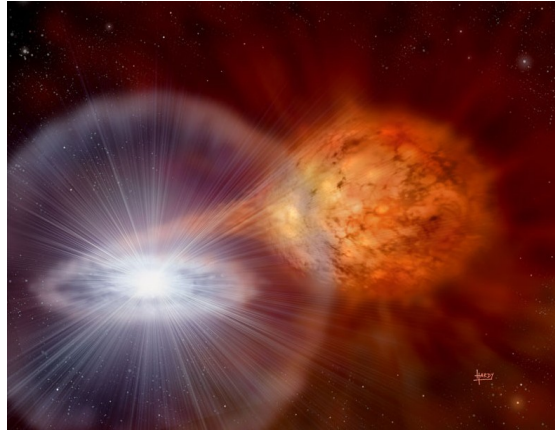
Pierre JACQUET

Cette étoile variable symbiotique, facilement accessible aux petits instruments, se situe dans un cadre stellaire magnifique, dans le champ de notre voisine, la Galaxie d'Andromède (M31). EG And appartient à Notre Galaxie. Toujours suivie activement, son orbite qui serait presque circulaire, la rotation peut-être sous-synchrone... donc, demande un suivi régulier.

Accessible aux petits instruments, EG And est encadrée par les étoiles HD 3914 (spectre : F5) de mv : 7.03 ; HD 4902 (spectre : A0) de mv : 7.25 et HD 4806 (spectre : 8.13), étoiles tirées du Guide 9 par mes soins. Le repérage est un peu « sportif » mais on y arrive ! Il faut utiliser un champ large : les jumelles 10x50 ou 20x80 semblent bien adaptée. Pour le confort, il est indispensable de fixer les jumelles sur un trépied dit « parallélogramme ».

- - EG And

EG And est une variable symbiotique constituée d'une naine blanche compacte et d'une géante froide. Sa période orbitale de 482 jours. L'intérêt du suivi photométrique permet de mettre en évidence la déformation ellipsoïdale de la géante par effet de marée. Selon R.E. Wilson et T.R. Vaccaro (MNRAS, vol. 291, 54-58-1997 et Bulletin AFOEV n°82 – 1997/4) : « la géante remplit son lobe de Roche à au moins 82%. L'orbite est peut-être synchrone, peut-être légèrement sous-synchrone ». La géante perd de sa masse à cause de son vent stellaire à un taux supérieur à 10^{-6} masse solaire par an, et la naine blanche récupère une fraction de cette masse sous forme de disque d'accrétion. La naine blanche elle-même, pourrait émettre un vent chaud qui interagit avec le vent plus froid de l'étoile géante, en plus d'induire la photoionisation de cette dernière. Les observations effectuées en rayons X, n'ont pas pu détecter l'émission provenant de vents en collision, mais il est établi la nature non magnétique de la naine blanche.



Vue d'artiste d'une étoile symbiotique.

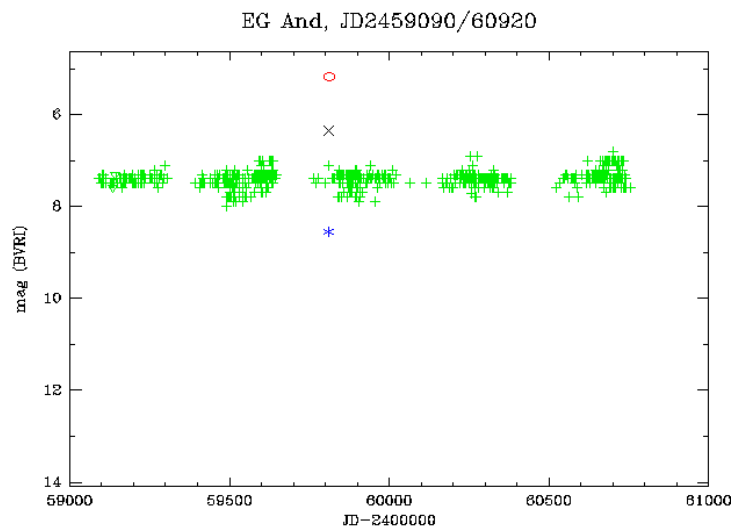
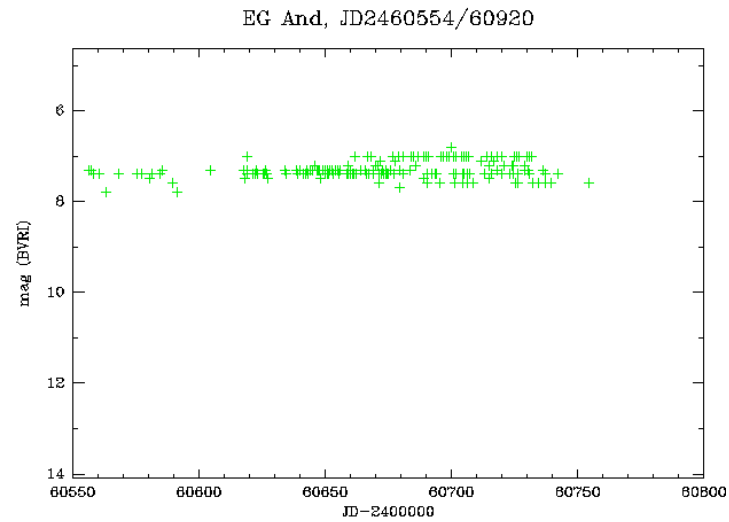
(Source : « Espace Virtuel Club d'Astronomie Urania »)



Localisation de EG And (d'après SIMBAD – CDS Strasbourg)

L'étoile géante ne remplit son lobe de Roche, mais il n'y a encore de grandes incertitudes sur sa masse et son rayon. Même les paramètres de la naine blanche ne sont pas strictement contraints, mais les modèles disponibles peuvent donner des limites inférieures et supérieures. Du point de vue spectral, EG And est classée M2IIIep, soit celle d'une géante froide avec un spectre de l'oxyde de titane et du calcium, changeant de phase avec l'orbite peut être synchrone donc (ou peut être légèrement sous synchrone...). La naine blanche est mieux étudiée dans l'UV, où les espèces hautement ionisées en soufre, oxygène, azote, carbone et phosphore peuvent également être identifiées avec leurs raies d'absorption ou d'émission. L'observation en X de EG Andromedae a détecté un plasma chaud (température de 3KeV) qui est probablement situé dans la couche limite externe de la naine blanche, sans aucune contribution d'un disque d'accrétion. Dans l'état des connaissances actuelles, il semblerait qu'aucune explosion n'a été observée d'EG And.

La variabilité observée est bien décrite par les deux composants qui s'éclipsent, l'un après l'autre au cours de l'orbite. Cependant, il existerait des preuves que l'étoile géante et le flux de vent stellaire ont une variation intrinsèque.



Courbe de lumière de EG And sur 1 et 5 ans.
(Source : AFOEV)

- - **Où situer EG And ?**

Située au sud-ouest de M31 et à proximité de l'étoile HD 4322 de magnitude 7.67.

- Identification :

AD (2000.0) : 00h44min37.2s Dec (2000.0) : +40°40'46"

mv : (6.97/7.8) Type : Z And

Période : (?) Spectre : (M2IIIep)

Champ de EG And (Cartes AFOEV)

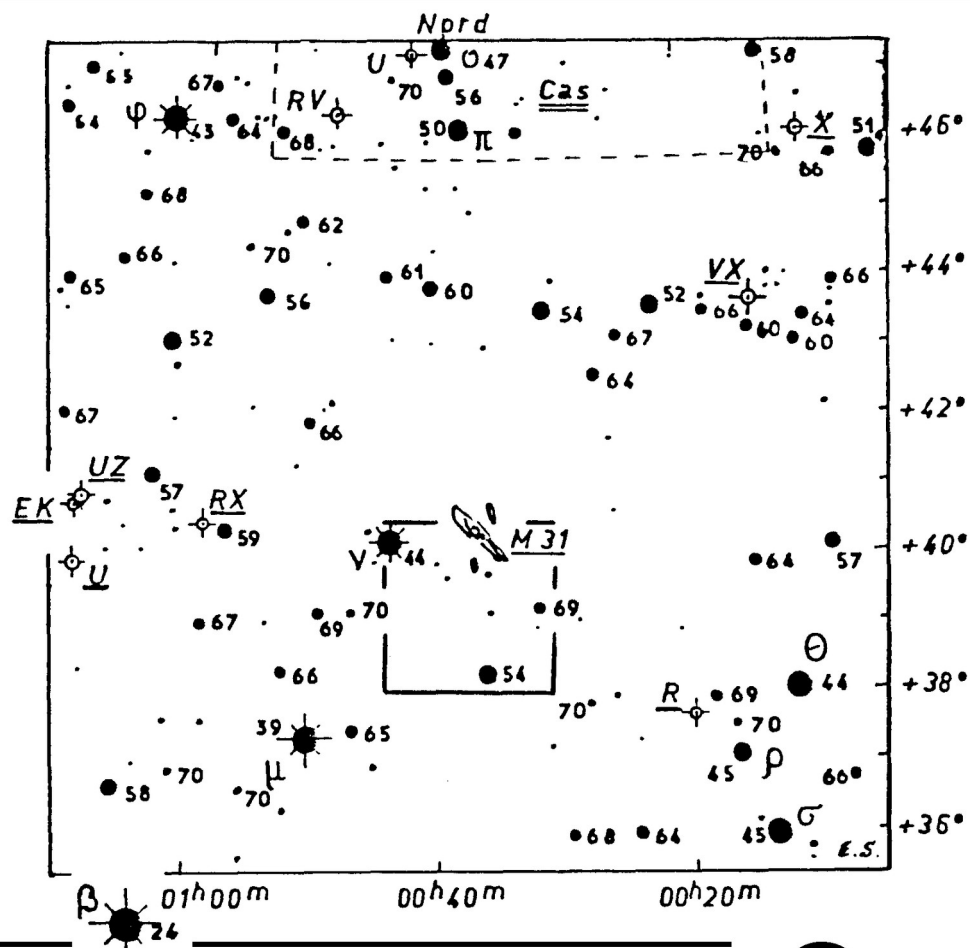
0039+40 EG Andromedae (EG And)

1900 : 00h 39m 09s +40° 07,9' précession annuelle

1950 : 00h 41m 52s +40° 24,4' +03,26s +0,329'

2000 : 00h 44m 35s +40° 40,8' éq. 1900

Z And - mv 7,1 à 7,8 - sp. M2 III ep



Carte d'après l'Atlas photométrique
des constellations de A. Brun ; Éq. 1900

A

0039+40 EG Andromedae (EG And)

1900 : 00h 39m 09s +40° 07,9'

1950 : 00h 41m 52s +40° 24,4'

2000 : 00h 44m 35s +40° 40,8'

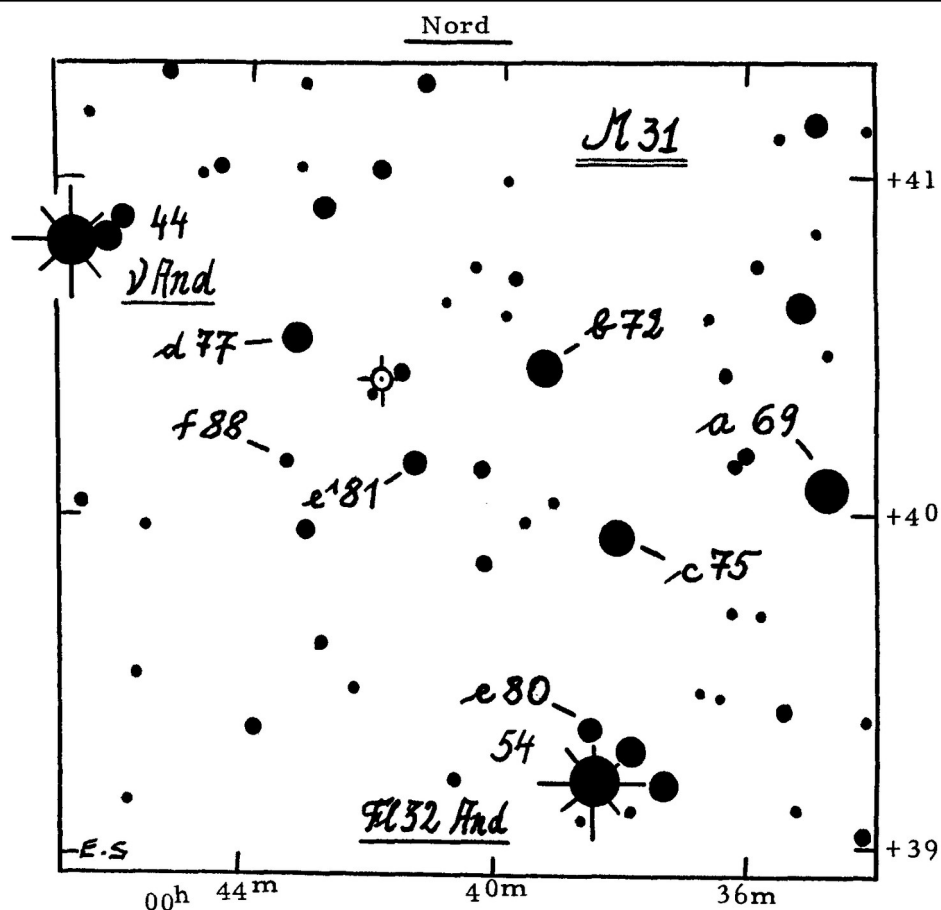
précession annuelle

+03,26s +0,329'

éq. 1900



Z And - mv 7,1 à 7,8 - sp. M2 III ep



Carte d'après Becvar, séquence AFOEV (CDS)
1989-VII ; Éq. 1950

A1

• Bibliographie :

- « Ellipsoïdal variation in EG Andromedae » - R.E. Wilson, T.R. Vaccaro, MNRAS, vol. 291 p 54-58 (1997).
- « Notes de Lecture » - Jean Gunther ; BAFOEV n°82 – 1997/4.
- « EG Andromedae » - Wikipedia.

Liste des observateurs pour le 4ème trimestre 2024

Ce tableau rappelle la totalité des observations reçues au titre du quatrième trimestre 2024, ce qui ne veut pas dire que toutes ces observations ont été effectuées au cours de cette période. Il est fréquent que des retardataires envoient des observations bien antérieures qu'il est évidemment impossible d'inclure dans les listes déjà parues. Le classement est par ordre alphabétique des sigles.

Ne sont publiées dans le bulletin que les observations des adhérents de l'AFOEV relatives aux étoiles du programme de l'AFOEV.

Mis à part un nombre relativement restreint d'observations éliminées (observations « inférieures à » redondantes et observations manifestement erronées), les observations reçues sont intégrées à la base de données du CDS où l'ordre chronologique est évidemment respecté.

S AKG ANDERSSON Karl-Gustav	32	S KLT KARHULA Timo	11
ALT ALBERT Patrice	26	S KTS KARLSSON Thomas	233
BDJ BREARD Jean Marc	79	J KWE KOSHIKAWA Tetsuya	30
S BEN BENGTTSSON Hans	35	S LIM LINNE Markus	14
BUK BUKWA Pascal	41	S LNM LARSSON Magnus	599
CAS CASTELLANI Jean-Jacques	176	MNZ MANZORRO-ARAGON Juan	1079
CGL CASSIGNARD Laurent	4	B MUY MUYLLAERT Eddy	2649
E DAM DARRIBA-MARTINEZ Adolfo	179	NDQ NAILLON Dominique	129
S DHE HEINONEN David	51	PDJ PERRARD Jean-Luc	5
T DPV DUBOVSKY Pavol A.	301	PGT PEGUET Claude	313
DUM DUMONT Michel	54	K POY POYNER Garry	2117
FRL FRANGEUL Michel	164	D RCR RAETZ Kerstin (Mme)	69
S HES HERMANSSON Lars	451	E RIP RIPERO-OSORIO Jose	739
# HGG HOLMBERG Gustav	838	Z STU STUBBINGS Rod	966
JPS SCIOLLA Jean-Pierre	245	S WAR WARELL Johan	76
JTP JACQUET Pierre	80	S WRT WIKANDER Tomas	180
# KAR KARLSSON Bjorn	33		

=====	ALT 60704.446 7.6	0110+41 UZAND	JPS 60724.4 10.5	=====	=====
0004+51 SSCAS	ALT 60706.438 7.6	=====	=====	FRL 60693.2486 Y 8.08	0223+39 PQAND
=====	ALT 60708.358 7.6	PGT 60679.4 10.5	0203+56 KKPER	FRL 60707.2555 Y 7.95	=====
PGT 60679.4 10.7	PGT 60724.3 7.2	PGT 60690.4 10.9	=====	PGT 60723.4 7.8	CAS 60673.35 Q<16.7
PGT 60689.4 10.0	ALT 60724.35 7.4	=====	FRL 60693.2486 Y 8.29	FRL 60729.2812 Y 7.88	=====
PGT 60723.3 11.2	ALT 60725.354 7.6	0110+55 VZCAS	FRL 60707.2555 Y 8.04	FRL 60732.2847 Y 7.88	0226+45 UXAND
JPS 60724.39 11.2	ALT 60726.338 7.6	=====	PGT 60723.4 7.7	FRL 60736.2847 Y 7.98	=====
PGT 60730.3 11.8	PGT 60730.3 7.3	PGT 60723.3 12.1	FRL 60729.2812 Y 8.17	PGT 60736.4 7.8	PGT 60724.3 9.2
PGT 60736.4 12.1	ALT 60732.397 7.6	PGT 60753.3 10.2	FRL 60732.2847 Y 8.1	FRL 60740.293 Y 7.93	PGT 60737.4 9.0
PGT 60753.3 :13.0	ALT 60734.411 7.6	PGT 60766.3 10.0	FRL 60736.2847 Y 8.25	FRL 60752.3069 Y 7.81	=====
=====	PGT 60737.3 7.4	=====	PGT 60736.4 7.7	PGT 60753.3 7.9	0228-13 UCET
0006+29 V402AND	ALT 60737.363 7.6	0111-18 WXCET	JTP 60737.5 8.1	FRL 60762.3145 Y 7.89	=====
=====	ALT 60739.344 7.6	=====	FRL 60740.293 Y 8.25	PGT 60766.3 7.8	JPS 60691.3 7.5
CAS 60673.251 Q<17.2	PGT 60742.3 7.4	CAS 60673.296 Q<16.2	PGT 60740.4 7.8	FRL 60766.3222 Y 7.92	=====
=====	ALT 60754.328 7.6	=====	PGT 60753.3 7.8	=====	0228+55 DYPER
0010+46 XAND	=====	0112+08 SPS	FRL 60762.3145 Y 8.11	0213+56 FZPER	=====
=====	0040+47 UCAS	=====	JTP 60762.5 8.1	=====	CAS 60673.353 Q 12.35
JPS 60676.51 10.2	=====	JPS 60706.35 10.7	PGT 60766.3 7.8	FRL 60693.2486 Y 8.03	=====
PGT 60679.4 10.0	JPS 60676.51 8.8	=====	FRL 60766.3222 Y 8.03	FRL 60707.2555 Y 8.05	0231+33 RTRI
PGT 60690.4 9.0	PGT 60679.4 8.6	0120+20 RXPSC	=====	FRL 60729.2812 Y 8.03	=====
JPS 60706.35 8.6	PGT 60689.4 8.6	=====	0203+56 UVPER	FRL 60732.2847 Y 8.01	JPS 60724.4 9.1
PGT 60737.3 8.8	PGT 60723.4 10.5	JPS 60724.34 13.7	=====	FRL 60736.2847 Y 8.03	PGT 60737.4 9.5
PGT 60742.3 9.3	PGT 60730.3 10.8	=====	CAS 60673.333 Q<17.1	FRL 60740.293 Y 8.03	=====
=====	PGT 60736.4 11.0	0120+31 TYPSC	NDQ 60678.2736 <13.7	FRL 60762.3145 Y 7.95	0235+35 PUPER
0014+44 VXAND	PGT 60741.4 11.4	=====	NDQ 60721.2792 <13.7	FRL 60766.3222 Y 7.74	=====
=====	=====	CAS 60673.299 Q<15.9	PGT 60723.377 <12.7	0214-03 OMICET	CAS 60673.358 Q<16.1
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PGT 60690.4 8.7	=====	0123+50 RZPER	PGT 60736.4131 <12.7	PGT 60688.3 7.6	=====
PGT 60724.3 8.6	PGT 60679.4 7.9	=====	PGT 60737.3909 <12.7	=====	CAS 60673.361 Q<16.6
PGT 60730.3 8.6	PGT 60690.4 8.0	PGT 60723.4 9.7	PGT 60740.4013 <12.5	0214+57 PRPER	=====
PGT 60737.3 8.5	JPS 60691.3 8.1	PGT 60736.4 10.1	PGT 60742.3395 <12.7	=====	0236+37 PVPER
PGT 60742.3 8.4	PGT 60724.3 8.2	PGT 60753.3 10.2	PGT 60753.3229 <13.5	FRL 60693.2486 Y 8.01	CAS 60673.364 Q<16.1
=====	=====	PGT 60766.3 10.4	PGT 60766.3527 :13.0	FRL 60707.2555 Y 8.01	=====
0017+26 TAND	0043+56 GXCAS	=====	0204+48 RVAND	PGT 60723.4 8.3	CAS 60673.364 Q<16.1
=====	CAS 60673.268 Q<17.0	0124+57 KUCAS	=====	FRL 60729.2812 Y 8.05	0239+33 UWTRI
PGT 60679.4 9.4	=====	CAS 60673.317 Q<17.1	PGT 60737.4 9.8	FRL 60732.2847 Y 8.1	=====
0017+55 TCAS	0046+53 V452CAS	=====	=====	FRL 60736.2847 Y 8.18	CAS 60673.369 Q<15.6
=====	=====	0129+53 AXP	0205+56 UWPER	PGT 60736.4 8.3	=====
PGT 60689.4 10.0	CAS 60673.274 Q<17.2	=====	=====	FRL 60740.293 Y 8.1	0241+36 TXPER
PGT 60723.3 9.7	=====	PGT 60723.4 11.5	CAS 60673.331 Q<16.6	FRL 60752.3069 Y 8.02	=====
PGT 60730.3 9.7	0047+46 RVCAS	PGT 60736.4 11.3	NDQ 60678.2722 <13.5	PGT 60753.3 8.2	PGT 60723.4 11.4
PGT 60736.4 9.6	=====	PGT 60753.3 11.6	NDQ 60721.2764 <13.3	FRL 60762.3145 Y 7.98	PGT 60733.4 12.0
PGT 60741.4 9.6	PGT 60679.4 11.9	PGT 60766.3 11.3	NDQ 60731.2861 <13.9	PGT 60766.3 8.2	PGT 60742.4 11.4
PGT 60753.3 9.6	PGT 60689.4 :12.3	=====	=====	FRL 60766.3222 Y 8.03	PGT 60753.3 10.4
PGT 60766.3 9.5	=====	0130+50 KTER	0206+57 TZPER	=====	PGT 60766.4 10.1
=====	0048+58 WCAS	=====	=====	0215+56 RSPER	=====
0018+38 RAND	=====	CAS 60673.321 Q 13.4	CAS 60673.337 Q 13.5	=====	0243+37 PYP
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PGT 60730.3 10.4	PGT 60689.4 10.0	0130+57 RWCAS	0210+24 RARI	FRL 60732.2847 Y 8.3	CAS 60673.384 Q 13.55
PGT 60742.3 9.1	PGT 60723.3 9.5	=====	=====	FRL 60736.2847 Y 8.48	=====
=====	PGT 60730.3 9.8	JTP 60737.4 9.2	BUK 60708.35 8.7	FRL 60740.293 Y 8.52	0243+56 WPER
0021+30 YZAND	PGT 60736.4 9.5	JTP 60737.4 : 9.2	JPS 60724.4 8.4	FRL 60762.3145 Y 8.52	=====
=====	PGT 60741.4 9.5	=====	BUK 60734.34 8.0	FRL 60766.3222 Y 8.79	PGT 60723.4 9.3
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JPS 60706.35 12.0	PGT 60766.3 9.4	=====	BUK 60752.33 7.6	0215+56 SUPER	PGT 60742.3 9.3
=====	0050+60 GAMMACAS	CAS 60673.324 Q 16.7	BUK 60761.33 8.0	=====	PGT 60753.3 9.4
0022+35 AQAND	=====	0149+58 XCAS	=====	FRL 60693.2486 Y 7.77	PGT 60766.4 9.2
=====	JTP 60739.5 2.2	=====	0210+58 PPPER	FRL 60707.2555 Y 7.68	=====
PGT 60679.4 8.3	JTP 60754.4 2.2	PGT 60730.3 10.5	=====	PGT 60723.4 7.7	0243+68 SUCAS
PGT 60690.4 8.3	JTP 60764.3 2.1	PGT 60736.4 10.6	FRL 60707.2555 Y 9.49	FRL 60729.2812 Y 7.57	=====
JPS 60691.31 8.1	=====	PGT 60741.4 10.5	FRL 60729.2812 Y 9.35	FRL 60732.2847 Y 7.55	JTP 60729.4 6.2
PGT 60724.3 8.2	0054+27 WPSC	PGT 60732.2847 Y 9.39	FRL 60736.2847 Y 9.39	FRL 60736.2847 Y 7.59	JTP 60737.4 6.1
PGT 60730.3 8.4	=====	PGT 60753.3 10.3	FRL 60736.2847 Y 9.58	PGT 60736.4 7.5	JTP 60739.5 6.1
PGT 60737.3 8.4	JPS 60724.34 12.4	PGT 60766.3 10.2	FRL 60740.293 Y 9.5	FRL 60740.293 Y 7.57	JTP 60753.4 6.1
=====	=====	=====	FRL 60752.3069 Y 9.61	FRL 60752.3069 Y 7.51	JTP 60762.4 6.1
0025+41 LSAND	0055-73 RTTUC	0152+54 UPER	FRL 60762.3145 Y 9.42	PGT 60753.3 7.7	JTP 60764.4 6.0
=====	=====	=====	=====	FRL 60762.3145 Y 7.56	=====
CAS 60673.261 Q<17.6	CAS 60754.462 Q<16.1	PGT 60723.4 8.3	0211+40 KVAND	PGT 60766.3 7.6	0259+19 RTARI
=====	=====	PGT 60736.4 8.3	=====	FRL 60766.3222 Y 7.61	=====
0025+61 VXCAS	0058+40 RXAND	PGT 60753.3 8.4	CAS 60673.339 Q<17.4	=====	JPS 60709.375 N 15.36
=====	=====	PGT 60766.3 8.6	=====	0215+58 SPER	=====
FRL 60682.3055 11.0	CAS 60673.281 Q 11.9	0154+70 V393CAS	0211+43 WAND	=====	0302+26 ZARI
=====	=====	=====	=====	FRL 60695.2999 9.9	=====
0027+25 DZAND	0101-02 ZCET	JTP 60737.5 : 7.0	PGT 60724.3 11.4	FRL 60707.2555 Y 9.96	JPS 60709.382 N 11.06
=====	=====	=====	=====	PGT 60723.4 9.5	JPS 60724.4 11.4
PGT 60679.5 9.9	JPS 60706.28 8.9	0156+54 XPER	0211+56 BUPER	FRL 60729.2812 Y 9.81	=====
=====	=====	=====	=====	FRL 60732.2847 Y 9.88	0305+14 UARI
0027+25 TUAND	0103+59 HTCAS	FRL 60707.2555 Y 8.36	=====	FRL 60736.2847 Y 9.98	=====
=====	CAS 60673.285 Q 16.5	FRL 60729.2812 Y 8.53	FRL 60729.2812 Y 9.29	PGT 60736.4 9.4	JPS 60706.36 8.3
PGT 60679.5 8.2	=====	FRL 60732.2847 Y 9.24	FRL 60732.2847 Y 9.24	FRL 60740.293 Y 9.93	JPS 60724.36 8.5
=====	0104+27 RZPSC	FRL 60736.2847 Y 8.54	FRL 60736.2847 Y 9.47	FRL 60752.3069 Y 9.93	=====
0031+79 YCEP	=====	FRL 60736.2847 Y 8.58	FRL 60740.293 Y 9.49	PGT 60753.3 9.4	0309+42 QYPER
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JPS 60724.42 13.6	=====	FRL 60752.3069 Y 8.59	FRL 60762.3145 Y 9.37	PGT 60766.3 9.3	CAS 60673.387 Q<16.2
JPS 60733.53 12.9	=====	FRL 60762.3145 Y 8.74	FRL 60766.3222 Y 9.07	FRL 60766.3222 Y 9.91	=====
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0036+26 LLAND	=====	0159+12 SARI	0212+58 TPER	0217+70 AMCAS	=====
=====	JPS 60709.372 N 11.94	=====	=====	=====	PGT 60766.3 9.3
CAS 60673.264 Q<17.0	0106+34 FNAND	JPS 60706.36 11.5	FRL 60707.2555 Y 8.78	CAS 60673.346 Q 15.25	=====
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0039+40 EGAND	CAS 60673.288 Q<17.3	0201+14 TTARI	FRL 60732.2847 Y 8.51	=====	=====
=====	=====	=====	FRL 60736.2847 Y 8.96	CAS 60673.342 Q 15.9	PGT 60688.3 8.9
PGT 60679.4 7.3	0109+37 FOAND	CAS 60673.328 Q 10.75	FRL 60740.293 Y 8.82	=====	JPS 60706.28 9.3
ALT 60679.417 7.7	=====	=====	FRL 60752.3069 Y 8.65	0221+32 STRI	JPS 60724.35 9.4
ALT 60690.339 7.6	=====	0202+27 ZTRI	FRL 60762.3145 Y 8.68	=====	=====
PGT 60690.4 7.4	CAS 60673.292 Q<18.0	=====	FRL 60766.3222 Y 8.78	JPS 60724.4 11.0	0316+41 V336PER
ALT 60695.272 7.6	=====	=====	=====	PGT 60737.4 10.2	=====
ALT 60701.41 7.6	=====	=====	0213+56 ADPER	=====	CAS 60673.39 Q<16.3

=====	=====	ALT 60708.393 6.8	ALT 60762.394 8.0	FRL 60752.3131 Y 9.9	0539+09 FUORI
0319+19 SVARI	0413+28 BPTAU	JTP 60708.4 6.7	ALT 60764.405 7.8	=====	=====
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CAS 60673.392 Q<16.5	FRL 60695.3694 12.0	ALT 60717.358 6.7	ALT 60766.347 7.3	=====	PGT 60736.4 9.9
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0320+43 YPER	FRL 60734.3083 12.1	ALT 60725.355 6.5	=====	CAS 60710.351 Q 14.3	PGT 60740.4 9.8
=====	ALT 60737.3131 12.3	ALT 60725.44 6.3	0500-22 TLEP	=====	PGT 60753.4 9.9
JPS 60708.51 9.0	FRL 60738.3125 12.3	ALT 60726.328 6.7	=====	0520+36 WAUR	=====
PGT 60723.4 9.0	FRL 60754.3673 12.2	ALT 60729.418 6.6	PGT 60688.4 8.6	=====	0539+20 YTAU
JPS 60724.41 9.0	FRL 60765.3243 12.2	JTP 60729.5 5.8	JPS 60706.28 8.3	JPS 60733.51 12.5	=====
PGT 60733.4 9.3	=====	JTP 60729.5 : 6.1	BUK 60708.38 8.1	=====	BDJ 60711.335 N 7.0
PGT 60736.4 9.0	0415+28 RYTAU	ALT 60732.392 6.8	JPS 60708.51 8.3	0523+02 V1372ORI	PGT 60736.4 7.4
PGT 60742.3 9.3	=====	ALT 60734.369 6.8	JPS 60724.32 8.4	=====	BDJ 60737.323 N 7.4
PGT 60753.3 9.3	FRL 60695.3729 10.4	ALT 60734.455 6.7	CAS 60739.33 10.0	JTP 60764.4 : 7.0	PGT 60740.4 7.4
JPS 60753.32 9.1	FRL 60708.3034 11.1	ALT 60735.349 6.7	=====	=====	PGT 60753.4 7.2
PGT 60766.4 9.0	FRL 60734.3118 10.4	ALT 60735.451 6.6	0500+01 WORI	0524-04 SORI	=====
=====	ALT 60737.3097 10.2	ALT 60736.353 6.7	=====	=====	0543+19 SUTAU
0322+44 VVPER	FRL 60738.3138 10.3	ALT 60736.454 6.8	DUM 60678.55 6.44	BDJ 60711.409 N 10.22	=====
=====	FRL 60754.3715 10.4	ALT 60737.361 6.7	DUM 60679.46 6.67	BUK 60736.38 9.7	CAS 60710.36 Q<16.6
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JPS 60753.32 10.9	=====	JTP 60737.4 : 7.1	DUM 60703.48 6.71	BDJ 60737.359 N 10.3	NDQ 60731.3 10.8
=====	0416+19 TTAU	ALT 60737.442 6.6	DUM 60706.26 6.81	CAS 60739.33 10.0	PGT 60736.4 13.0
0323+35 RPER	=====	ALT 60739.347 6.8	FRL 60708.3784 6.5	PGT 60740.4 10.0	BDJ 60737.294 N 12.93
=====	FRL 60682.25 11.8	ALT 60739.46 7.0	DUM 60708.44 6.44	BUK 60752.34 9.8	PGT 60753.4 :13.3
JPS 60708.51 8.9	FRL 60693.2958 11.4	JTP 60739.5 : 7.7	DUM 60709.48 6.63	JPS 60753.33 9.9	=====
PGT 60723.4 9.3	FRL 60695.2625 11.6	ALT 60740.367 6.7	DUM 60710.26 6.65	PGT 60753.4 10.1	0546+15 ZTAU
JPS 60724.4 9.7	FRL 60703.2479 11.6	ALT 60745.374 6.6	BDJ 60711.435 N 6.0	BUK 60761.34 9.5	=====
PGT 60733.4 10.3	FRL 60707.2937 11.6	ALT 60754.326 6.6	DUM 60721.27 6.7	=====	BDJ 60711.34 N 11.34
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0323+39 RUPER	FRL 60721.2999 11.6	ALT 60765.331 6.7	FRL 60729.3506 6.8	BDJ 60711.454 N 12.9	=====
=====	FRL 60726.2791 11.7	ALT 60766.338 6.6	DUM 60729.43 6.64	BDJ 60737.398 N 13.3	0547-05 CNORI
PGT 60723.4 10.9	FRL 60729.3125 11.5	=====	DUM 60732.44 6.67	=====	=====
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PGT 60742.4 11.2	PGT 60733.4 11.6	=====	FRL 60734.368 7.1	=====	CAS 60710.362 Q 14.0
PGT 60753.3 11.0	FRL 60734.2979 11.5	JPS 60691.27 10.8	DUM 60735.37 6.64	FRL 60682.3562 9.8	BDJ 60737.405 N 12.76
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0324+43 GKPER	FRL 60737.302 11.7	BDJ 60737.34 N 11.98	DUM 60737.45 6.68	FRL 60695.268 9.3	0549+07 ALPHAOIRI
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CAS 60673.395 Q 13.05	FRL 60738.3048 11.5	0440+25 RVTAU	FRL 60754.377 6.6	FRL 60708.2986 9.3	KCH 60281.403 0.75
PGT 60736.4229 13.2	FRL 60739.3486 11.6	=====	DUM 60764.34 6.99	FRL 60721.3034 9.6	KCH 60295.449 0.74
PGT 60753.3291 :13.4	FRL 60745.3076 11.6	BDJ 60711.343 N 9.99	FRL 60764.35 7.1	FRL 60726.2861 9.5	KCH 60309.342 0.29
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0334+32 IPPER	FRL 60754.3479 11.7	PGT 60733.4 9.0	=====	FRL 60734.3013 9.6	KCH 60321.336 0.72
=====	FRL 60756.3611 11.8	BDJ 60737.337 N 8.99	0500+03 VORI	FRL 60737.3138 9.6	KCH 60325.424 0.56
FRL 60682.2631 10.3	FRL 60761.3541 11.8	PGT 60753.4 9.8	=====	FRL 60738.3104 9.5	KCH 60328.333 0.29
FRL 60695.3062 10.3	FRL 60764.3145 11.7	=====	BDJ 60711.428 N 12.77	FRL 60739.3569 9.3	KCH 60330.306 0.5
FRL 60708.2715 10.3	FRL 60765.3187 11.8	0446+17 VTAU	BDJ 60737.378 N 11.01	FRL 60745.3097 10.0	KCH 60337.412 0.61
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FRL 60682.2715 9.6	CAS 60673.412 Q<16.4	JPS 60753.33 12.2	=====	FRL 60764.3145 10.2	KCH 60353.416 0.84
FRL 60695.3152 9.6	CAS 60709.342 Q<16.4	=====	FRL 60682.2569 12.1	FRL 60765.3187 10.0	KCH 60363.406 0.9
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0343+23 BUTAU	0419+16 VXTAU	CAS 60673.419 Q<16.9	FRL 60706.3784 12.0	=====	KCH 60384.344 1.02
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JTP 60708.3 6.0	JPS 60691.27 10.1	CAS 60710.348 Q<16.4	FRL 60726.284 12.4	CAS 60709.355 Q 10.25	KCH 60394.332 0.93
JTP 60729.4 5.9	BUK 60708.36 10.8	=====	FRL 60729.3145 12.6	CAS 60710.356 Q 10.35	KCH 60413.332 1.01
JTP 60731.4 5.7	BDJ 60711.357 N 10.58	0452+56 TXCAM	FRL 60732.3111 12.4	BDJ 60711.417 N 10.81	FRL 60682.3611 0.8
JTP 60737.3 : 5.8	BUK 60734.36 13.0	=====	FRL 60737.3069 12.7	NDQ 60721.2882 11.1	JTP 60682.6 0.8
JTP 60737.4 5.8	BDJ 60737.344 N 12.49	JPS 60733.54 9.4	FRL 60738.3076 12.6	BUK 60734.37 11.5	JTP 60689.4 : 0.4
JTP 60739.5 5.7	=====	PGT 60736.5 9.0	FRL 60739.3548 12.8	BDJ 60737.365 N 11.32	JTP 60690.4 0.4
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JTP 60754.4 : 5.7	=====	=====	=====	BUK 60761.35 11.5	JTP 60708.4 0.7
JTP 60762.4 5.7	BDJ 60711.303 N 12.48	0453+07 RORI	0506-11 RXLEP	=====	JTP 60711.4 0.8
JTP 60764.4 5.8	BDJ 60737.306 N 11.17	=====	=====	0530-05 ANORI	FRL 60721.3111 0.8
=====	=====	BDJ 60711.375 N 10.88	PGT 60688.4 5.4	=====	JTP 60724.4 : 0.9
0344+32 RXPER	0422+15 WTAU	BDJ 60737.356 N 10.49	JTP 60729.5 5.6	BUK 60734.37 11.5	FRL 60729.3506 0.8
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JPS 60708.5 11.8	BUK 60708.36 9.1	PGT 60740.4 10.8	BUK 60764.4 6.3	BUK 60761.35 11.3	NDQ 60731.3 0.6
PGT 60723.4 10.7	BDJ 60711.328 N 9.63	JPS 60753.33 10.2	=====	=====	JTP 60731.4 0.8
JPS 60724.4 11.3	PGT 60727.4 9.8	PGT 60753.4 10.1	0509+34 AEAUR	0532-01 XORI	FRL 60732.3812 0.8
PGT 60733.4 10.8	PGT 60733.4 10.1	=====	FRL 60693.252 Y 5.96	=====	JTP 60733.4 1.0
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JPS 60753.32 11.4	BUK 60736.37 9.2	=====	FRL 60729.2902 Y 5.93	JPS 60706.28 11.9	FRL 60737.3583 0.8
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=====	PGT 60753.4 10.2	=====	FRL 60740.2951 Y 5.96	BDJ 60711.438 N 10.87	JTP 60748.4 0.7
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JTP 60737.4 6.1	BUK 60761.33 10.7	=====	=====	JPS 60730.31 10.0	JTP 60753.4 0.9
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=====	=====	ALT 60734.394 7.4	PGT 60736.5 <13.2	JPS 60753.33 11.1	JTP 60764.3 0.7
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PGT 60753.4 7.7	=====	ALT 60735.392 8.1	=====	0533+26 RRTAU	=====
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0401+50 FOPER	=====	ALT 60736.378 7.2	=====	BDJ 60737.332 N 12.07	=====
=====	ALT 60679.422 6.8	ALT 60736.45 7.3	BUK 60708.39 <13.1	=====	JPS 60676.57 12.5
CAS 60673.4 Q 16.2	ALT 60689.347 6.8	ALT 60737.383 7.3	=====	0535+31 UAUR	BDJ 60711.422 N 11.4
=====	ALT 60689.401 7.0	ALT 60737.446 7.3	0515+32 UVAUR	=====	PGT 60736.4 10.4
0409+50 SYPER	ALT 60690.278 6.6	ALT 60739.378 8.3	=====	CAS 60739.34 9.8	BDJ 60737.371 N 10.76
=====	ALT 60690.328 6.8	ALT 60739.456 7.6	FRL 60693.252 Y 10.55	=====	PGT 60740.4 10.4
PGT 60753.3 10.4	ALT 60690.394 6.7	ALT 60740.363 7.5	FRL 60707.259 Y 10.56	0536-04 YORI	PGT 60753.4 10.0
=====	ALT 60701.442 6.7	ALT 60745.391 7.8	FRL 60729.2902 Y 9.97	=====	=====
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CAS 60673.403 Q<16.2	ALT 60704.44 6.7	ALT 60759.352 7.4	FRL 60740.2951 Y 9.84	BDJ 60737.391 N 14.0	JPS 60691.27 11.7
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JPS 60708.53 11.0	ALT 60739.478 7.3	ALT 60732.444 7.0	ALT 60725.347 6.4	KCH 60441.366 5.2	FRL 60729.3381 7.7
JPS 60733.51 10.8	FRL 60740.2979 Y 7.15	ALT 60735.413 6.7	ALT 60725.439 5.6	ALT 60704.455 5.6	FRL 60732.3902 7.7
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JPS 60753.38 11.5	FRL 60752.3111 Y 7.11	ALT 60737.394 6.7	JTP 60729.4 : 6.6	ALT 60708.364 5.6	=====
=====	DUM 60752.45 7.15	JTP 60737.4 6.8	ALT 60729.421 6.3	FRL 60708.3687 6.1	0653+26 SWGEM
0551+22 BQORI	DUM 60753.45 7.01	ALT 60739.476 6.8	JTP 60729.5 6.3	ALT 60724.424 5.6	=====
=====	DUM 60754.43 7.13	JTP 60739.5 6.7	ALT 60732.39 6.3	JTP 60724.5 5.6	PGT 60737.6 8.8
FRL 60693.2611 Y 8.71	DUM 60761.38 7.64	FRL 60740.2979 Y 6.51	ALT 60732.47 5.6	ALT 60725.38 5.6	=====
FRL 60707.2638 Y 8.43	FRL 60762.318 Y 7.11	ALT 60745.41 6.7	ALT 60734.368 5.0	FRL 60726.2965 6.4	0655+10 BIMON
FRL 60729.2875 Y 7.87	ALT 60762.389 7.4	FRL 60752.3111 Y 6.48	ALT 60734.449 5.4	FRL 60729.3458 6.1	=====
FRL 60732.2902 Y 7.86	DUM 60762.44 7.52	FRL 60762.318 Y 6.51	ALT 60735.346 5.7	ALT 60729.432 5.6	JPS 60708.51 10.1
FRL 60736.2895 Y 7.93	DUM 60764.35 7.65	ALT 60762.386 6.8	ALT 60735.444 5.6	FRL 60732.3756 6.2	JPS 60724.34 10.0
FRL 60740.2979 Y 7.73	DUM 60765.45 7.64	JTP 60762.4 6.7	ALT 60736.352 6.0	ALT 60732.42 5.7	JPS 60730.32 10.0
PGT 60740.4 7.7	FRL 60766.3263 Y 7.15	JTP 60764.4 6.8	ALT 60736.437 6.3	FRL 60734.375 6.1	JPS 60753.34 11.2
FRL 60752.3111 Y 7.65	DUM 60766.33 7.46	FRL 60766.3263 Y 6.52	ALT 60737.36 5.6	ALT 60735.409 5.6	=====
PGT 60753.4 7.6	=====	=====	JTP 60737.4 5.6	FRL 60737.3555 6.1	0655+30 RSGEM
FRL 60762.318 Y 7.73	0605+23 WYGEM	0609+15 V344ORI	ALT 60737.44 5.6	ALT 60737.373 5.6	=====
FRL 60766.3263 Y 7.78	=====	=====	JTP 60737.5 : 5.5	JTP 60737.5 5.6	PGT 60737.6 11.1
=====	DUM 60678.57 7.66	CAS 60709.371 Q<16.1	ALT 60739.346 5.7	ALT 60739.349 5.6	=====
0553+53 ZAUR	FRL 60693.2611 Y 7.31	CAS 60710.388 Q<16.6	FRL 60739.454 5.6	FRL 60739.368 6.1	0659-11 ZCMA
=====	DUM 60703.49 7.55	=====	ALT 60740.349 6.1	ALT 60745.394 5.5	=====
PGT 60736.5 10.5	DUM 60706.44 7.68	0611+15 CZORI	ALT 60745.372 4.6	FRL 60752.3701 6.1	PGT 60688.4 8.6
PGT 60762.5 9.7	FRL 60707.2638 Y 7.39	=====	ALT 60752.46 5.5	ALT 60752.462 5.6	=====
=====	DUM 60708.45 7.67	CAS 60709.376 Q 13.2	ALT 60754.326 5.0	FRL 60754.377 6.1	0659-23 CGCMA
0554+39 AZAUR	FRL 60729.2875 Y 7.36	CAS 60710.391 Q 13.35	JTP 60754.4 5.5	ALT 60759.442 5.6	=====
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JPS 60733.51 10.9	JTP 60729.5 8.1	=====	ALT 60759.355 5.6	FRL 60764.35 5.6	CAS 60712.42 Q<16.6
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JPS 60753.38 9.1	DUM 60732.44 7.74	=====	JTP 60762.5 5.6	ALT 60764.451 5.5	CAS 60737.364 Q<15.7
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0556+46 RSAUR	DUM 60736.51 7.64	JPS 60708.53 9.4	ALT 60765.332 5.6	=====	0659+10 BCGEM
=====	JTP 60737.4 7.1	JPS 60733.52 9.3	ALT 60766.339 5.5	0630+26 BRGEM	=====
PGT 60736.5 10.8	JTP 60737.4 7.3	JPS 60735.55 9.5	=====	=====	JPS 60708.51 <14.4
PGT 60762.5 10.0	DUM 60737.45 7.68	PGT 60736.5 9.3	0623+35 LYAUR	JPS 60733.5 11.8	=====
=====	DUM 60738.45 7.68	CAS 60739.38 9.2	=====	JPS 60735.55 11.3	0701+09 VCM1
0602+22 SSGEM	DUM 60739.44 7.72	JPS 60753.39 9.5	FRL 60693.252 Y 6.92	JPS 60753.39 11.5	=====
=====	FRL 60740.2979 Y 7.31	PGT 60762.5 9.6	FRL 60707.259 Y 6.91	=====	JPS 60684.47 9.2
FRL 60707.2638 Y 8.87	FRL 60752.3111 Y 7.26	=====	FRL 60729.2902 Y 6.9	0631+00 CWMON	JPS 60706.3 8.3
FRL 60729.2875 Y 8.92	DUM 60752.45 7.67	0617-02 VMON	FRL 60732.2881 Y 6.7	=====	JPS 60708.51 8.1
FRL 60732.2902 Y 8.86	DUM 60753.45 7.67	=====	FRL 60736.2875 Y 6.76	CAS 60709.38 Q<16.7	JPS 60724.35 8.0
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FRL 60740.2979 Y 8.51	DUM 60761.38 7.72	=====	FRL 60752.3131 Y 6.67	CAS 60733.337 Q<16.2	JPS 60753.34 8.3
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FRL 60693.2611 Y 7.38	=====	0618+24 CDGEM	ALT 60701.452 6.4	0632+18 UVGEM	ALT 60766.409 7.7
FRL 60707.2638 Y 7.47	0605+47 SSAUR	=====	ALT 60704.369 6.3	=====	=====
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FRL 60762.318 Y 7.43	CAS 60710.37 Q 14.15	=====	ALT 60724.36 6.8	=====	=====
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ALT 60725.372 7.4	KCH 60376.415 6.9	ALT 60682.283 5.4	KCH 60337.265 5.28	0651+11 YMON	=====
FRL 60729.2875 Y 7.15	KCH 60384.345 7.0	ALT 60689.4 5.4	KCH 60338.259 5.28	=====	JPS 60730.33 13.6
DUM 60729.44 7.3	KCH 60394.336 6.9	ALT 60690.276 6.0	KCH 60341.307 5.53	JPS 60345.36 13.1	=====
FRL 60732.2902 Y 7.16	KCH 60410.374 6.9	ALT 60690.33 5.6	KCH 60353.275 5.48	JPS 60724.34 12.3	0714-26 WZCMA
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ALT 60701.455 6.4	JPS 60684.48 9.5	=====	ALT 60725.427 7.7	=====	=====
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ALT 60734.442 6.6	CAS 60712.442 Q 16.2	0848+03 SHYA	CAS 60712.474 Q 11.7	BUK 60708.48 5.8	=====
ALT 60735.406 6.4	CAS 60733.38 Q 16.5	=====	=====	DUM 60709.49 6.07	1037+58 IYUMA
ALT 60736.435 6.6	CAS 60737.385 Q 16.6	JPS 60676.57 8.5	0904+19 GYCNC	ALT 60717.375 5.7	=====
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ALT 60739.494 6.7	CAS 60712.437 Q 14.2	JPS 60735.56 8.2	0904+25 WCNC	ALT 60725.429 6.2	NDQ 60678.3 8.3
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ALT 60745.408 6.7	CAS 60737.38 Q 14.4	0849+11 AKCNC	JPS 60684.51 7.8	ALT 60729.401 6.5	FRL 60765.343 11.9
ALT 60754.348 6.7	=====	=====	JPS 60706.36 8.1	DUM 60729.46 6.97	=====
ALT 60759.44 6.7	0801+65 RZUMA	CAS 60712.469 Q<15.7	JPS 60711.56 8.0	ALT 60732.392 6.3	1049+30 SXLMI
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ALT 60765.333 6.7	0803+62 SUUMA	0849+17 XCNC	0904+31 RSCNC	ALT 60734.401 6.3	1051+50 CYUMA
ALT 60766.352 6.8	=====	=====	=====	ALT 60735.355 6.5	=====
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=====	JPS 60754.41 10.1	ALT 60726.344 6.4	DUM 60705.62 6.63	BUK 60752.36 6.5	ALT 60724.441 6.9
0726-09 UMON	=====	DUM 60726.46 7.02	DUM 60706.44 6.66	ALT 60752.449 7.1	ALT 60725.378 6.9
=====	0808+37 RTLYN	FRL 60729.3423 6.8	DUM 60708.44 5.92	DUM 60752.46 7.6	ALT 60729.417 6.9
DUM 60678.56 5.43	=====	ALT 60729.403 6.8	DUM 60709.49 6.01	DUM 60753.46 7.7	ALT 60732.41 7.0
DUM 60679.46 5.46	JPS 60684.5 10.2	DUM 60729.45 7.06	DUM 60721.28 6.0	ALT 60754.347 6.8	ALT 60735.4 6.9
PGT 60688.4 6.5	JPS 60706.31 10.0	FRL 60732.3902 6.8	DUM 60734.47 6.93	JPS 60754.47 6.7	ALT 60736.476 6.9
DUM 60703.47 6.21	=====	ALT 60732.399 6.7	DUM 60735.49 5.98	DUM 60761.44 7.97	ALT 60737.401 7.0
DUM 60706.42 6.08	0811+12 RCNC	DUM 60733.43 6.98	DUM 60737.47 5.98	ALT 60764.457 7.9	PGT 60741.7 6.8
FRL 60708.3819 5.9	=====	FRL 60734.3708 6.9	DUM 60739.47 5.96	DUM 60764.47 7.97	ALT 60745.385 7.0
DUM 60708.44 5.42	JPS 60753.35 10.1	ALT 60735.349 6.7	DUM 60740.51 6.14	DUM 60766.46 8.06	ALT 60752.444 6.9
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DUM 60721.42 5.34	0814+73 ZCAM	ALT 60736.433 6.7	DUM 60752.45 5.98	0945+12 XLEO	ALT 60762.375 6.9
DUM 60722.46 5.39	=====	DUM 60736.52 7.06	DUM 60753.46 5.92	=====	ALT 60765.374 6.9
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DUM 60732.43 6.09	0815+14 SZCNC	FRL 60739.368 6.8	DUM 60766.38 5.88	BUK 60752.37 12.4	1137+72 DODRA
DUM 60733.44 6.12	=====	ALT 60739.396 6.7	=====	CAS 60754.427 Q 13.9	=====
FRL 60734.368 6.2	JPS 60711.57 12.0	DUM 60739.46 7.06	0905+67 RXUMA	=====	NDQ 60678.259 <12.4
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FRL 60737.3555 6.4	JPS 60735.55 10.2	DUM 60741.43 7.04	PGT 60741.6 10.9	=====	NDQ 60731.2833 <13.5
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DUM 60738.43 6.2	=====	DUM 60752.45 7.03	0915+00 INHYA	PGT 60737.6 8.1	1151+58 ZUMA
FRL 60739.3708 6.5	0816+17 VCNC	ALT 60752.464 6.4	=====	BUK 60753.39 8.6	=====
DUM 60739.44 5.73	=====	DUM 60753.46 7.06	ALT 60734.462 6.7	BUK 60761.39 8.3	JTP 60708.4 7.8
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DUM 60766.32 5.73	JPS 60753.35 8.1	FRL 60764.35 6.8	ALT 60759.453 7.0	JPS 60676.59 12.7	=====
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FRL 60707.3569 12.2	CAS 60733.406 Q 17.05	FRL 60766.3645 6.8	=====	JPS 60754.47 9.6	JPS 60711.58 12.0
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FRL 60732.3708 12.3	=====	JPS 60684.49 7.9	PGT 60737.6 10.2	=====	=====
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BUK 60734.38 12.1	=====	JPS 60730.36 9.0	0931+78 YDRA	BUK 60734.4 9.5	JPS 60733.56 12.7
FRL 60737.352 12.0	JPS 60753.35 13.5	JPS 60735.56 9.4	=====	PGT 60737.6 9.9	=====
FRL 60739.3611 12.1	=====	JPS 60753.35 9.8	BDJ 60712.347 N 14.1	BUK 60739.66 9.8	1215+61 RYUMA
FRL 60752.3513 11.6	0830+21 CCCNC	=====	=====	BUK 60752.37 10.3	=====
BUK 60753.34 11.2	=====	=====	0937+20 RSLEO	BUK 60754.4 10.3	JTP 60737.4 : 7.1

FRL 60762.3541 Y 7.56	=====	=====	DUM 60735.5 7.71	JPS 60764.56 6.5	1654-26 EROPH
FRL 60766.3347 Y 7.53	1242+38 UCVN	DUM 60733.49 7.31	DUM 60737.49 7.72	DUM 60765.48 7.0	=====
ALT 60766.402 7.3	=====	DUM 60735.52 7.27	DUM 60739.48 7.65	DUM 60766.42 6.85	KCH 60132.41 6.36
=====	JPS 60676.6 12.0	DUM 60737.5 7.24	DUM 60740.49 7.81	=====	KCH 60136.407 6.36
1220+01 SSVIR	JPS 60684.57 11.0	DUM 60739.49 7.36	DUM 60752.48 7.72	1546+39 VCRB	KCH 60140.401 6.49
=====	JPS 60708.52 10.4	DUM 60753.47 6.92	DUM 60753.49 7.71	=====	KCH 60141.4 6.43
JPS 60676.64 8.0	JPS 60724.41 10.4	DUM 60754.46 7.2	DUM 60754.45 7.74	JPS 60711.61 10.8	KCH 60151.408 6.13
JPS 60706.76 8.7	JPS 60730.54 10.2	DUM 60764.46 6.74	DUM 60761.44 7.72	JPS 60735.53 11.0	KCH 60164.363 6.57
BUK 60709.66 8.4	JPS 60754.4 11.1	DUM 60765.46 6.73	DUM 60764.48 7.79	=====	KCH 60167.361 6.36
JPS 60730.56 8.6	=====	=====	DUM 60765.48 7.84	1555+02 BCSE	KCH 60168.366 6.26
BUK 60739.67 8.4	1246+06 UVIR	1332+73 TUMI	DUM 60766.4 7.74	=====	KCH 60170.396 6.31
BUK 60740.69 8.5	=====	=====	=====	JPS 60735.57 9.7	KCH 60173.399 6.46
BUK 60752.4 8.5	JPS 60676.63 8.5	JPS 60708.55 10.9	1510+83 ZUMI	JPS 60764.56 10.6	KCH 60174.371 6.58
JPS 60754.4 8.9	=====	BDJ 60712.401 N 10.81	=====	=====	KCH 60177.378 6.57
BUK 60754.41 8.4	1250+47 TUCVN	JPS 60733.54 11.2	BDJ 60712.407 N:15.2	1555+26 TCRB	KCH 60178.339 6.57
BUK 60761.4 8.5	=====	=====	NDQ 60721.3 <14.4	=====	KCH 60178.375 6.71
BUK 60764.63 8.5	JTP 60708.3 5.8	1336+74 VUMI	NDQ 60731.3 <13.9	JPS 60376.41 10.0	KCH 60179.36 6.36
=====	JTP 60729.4 : 5.9	=====	BDJ 60737.433 N 14.6	NDQ 60723.7465 < 6.5	KCH 60179.363 6.49
1225+32 TCVN	ALT 60729.413 5.7	PGT 60677.3 8.2	=====	NDQ 60725.7396 < 6.5	KCH 60179.385 6.48
=====	JPS 60729.5 5.9	JPS 60708.54 8.0	1513+36 RTBOO	JPS 60730.59 9.9	KCH 60182.381 6.57
JPS 60676.62 11.0	JTP 60729.5 : 5.7	BDJ 60712.4 N 8.94	=====	BUK 60740.68 9.5	KCH 60185.383 6.75
JPS 60684.58 11.5	JPS 60729.5 5.7	JTP 60737.4 7.9	JPS 60711.6 10.5	JPS 60754.49 9.9	KCH 60190.378 6.65
JPS 60708.52 11.3	JTP 60731.4 5.9	JTP 60737.4 7.8	=====	FRL 60756.4305 9.8	KCH 60190.394 6.75
JPS 60724.42 11.3	ALT 60732.428 6.1	BDJ 60737.421 N 7.75	1515-20 SLIB	FRL 60761.4062 9.7	KCH 60194.305 6.58
JPS 60730.55 11.4	ALT 60734.399 6.0	JTP 60764.4 7.9	=====	FRL 60762.4027 9.8	KCH 60194.31 6.36
JPS 60754.4 11.4	ALT 60735.404 6.0	=====	JPS 60735.68 8.9	JTP 60762.5 < 9.2	KCH 60195.319 6.36
=====	ALT 60736.398 6.0	1344+40 RCVN	JPS 60764.55 9.6	FRL 60763.402 9.8	KCH 60196.349 6.49
1231+60 TUMA	JTP 60737.3 : 5.8	=====	=====	FRL 60764.402 9.9	KCH 60198.337 6.49
=====	JTP 60737.4 5.7	JPS 60676.61 7.5	1518-22 RSLIB	ALT 60764.44 9.8	KCH 60199.335 6.62
FRL 60706.3847 8.9	JTP 60737.4 : 5.7	JPS 60684.58 8.0	=====	FRL 60765.3784 9.6	KCH 60200.344 6.67
BDJ 60712.386 N 8.3	ALT 60737.406 6.0	JPS 60708.52 8.2	JPS 60735.68 8.0	=====	KCH 60202.326 6.71
JPS 60724.38 7.9	ALT 60739.38 6.0	JPS 60724.42 8.8	JPS 60764.55 9.2	1558-23 RZSCO	KCH 60203.319 6.57
FRL 60729.3638 7.4	JTP 60739.4 5.8	JPS 60730.56 8.6	=====	=====	KCH 60204.322 6.75
FRL 60732.368 7.7	JTP 60739.5 : 5.8	=====	1527-14 RULIB	JPS 60735.67 9.7	KCH 60208.319 6.53
FRL 60734.3638 7.7	ALT 60740.387 6.0	1401+13 ZBOO	=====	JPS 60764.58 10.5	KCH 60212.295 6.67
FRL 60737.3472 7.7	ALT 60745.393 6.0	=====	JPS 60735.58 12.2	=====	KCH 60212.317 6.53
BDJ 60737.454 N 7.93	ALT 60752.459 5.9	JPS 60730.58 12.6	JPS 60764.54 8.9	1601+67 AGDRA	KCH 60213.287 6.36
FRL 60739.3659 7.7	JTP 60753.4 5.7	JPS 60735.53 11.6	=====	=====	KCH 60214.397 6.36
FRL 60745.3013 7.7	JTP 60754.4 : 5.8	JPS 60754.48 9.7	1527+03 VVWSER	PGT 60677.3 10.1	KCH 60218.285 6.36
FRL 60752.3562 7.7	JTP 60754.4 : 5.9	=====	=====	=====	KCH 60218.358 6.29
FRL 60754.3833 7.8	ALT 60756.434 6.0	1415+67 UUMI	JPS 60735.57 9.9	1621-12 VOPH	KCH 60221.286 6.36
FRL 60756.3694 7.8	ALT 60759.455 6.0	=====	=====	=====	KCH 60224.277 6.27
FRL 60761.3611 7.9	ALT 60762.39 6.0	PGT 60677.3 7.7	1531+15 TAU4SER	JPS 60735.68 9.3	KCH 60224.361 6.26
FRL 60762.3541 Y 8.12	JTP 60762.4 5.9	JPS 60708.54 8.8	=====	=====	KCH 60281.224 6.36
FRL 60763.4062 7.9	JTP 60762.5 5.8	JPS 60724.38 9.7	BUK 60740.66 7.1	1621+19 UHER	=====
FRL 60765.3368 7.9	JTP 60762.5 5.7	JPS 60733.55 10.0	=====	=====	1657+22 SYHER
FRL 60766.3347 Y 8.21	JTP 60764.4 5.6	BDJ 60737.425 N 9.76	1533+78 SUMI	JPS 60735.57 8.8	=====
=====	JTP 60764.4 5.7	=====	=====	JPS 60754.49 7.0	JPS 60735.58 9.1
1233+07 RVIR	ALT 60765.369 6.0	1419+54 SBOO	BDJ 60737.4281 N 9.71	JPS 60764.59 7.0	=====
=====	ALT 60766.358 6.0	=====	=====	BUK 60764.67 7.1	1659-12 UXOPH
JPS 60676.63 10.0	JTP 60766.4 5.6	JPS 60711.59 10.5	1537+38 RRCRB	=====	=====
JPS 60708.55 7.6	JTP 60766.5 5.7	=====	=====	1626+23 DOHER	JPS 60735.65 13.7
JPS 60730.57 7.0	=====	1422+05 RSVIR	JPS 60735.53 7.8	=====	=====
JPS 60754.4 8.9	1252+66 RYDRA	=====	=====	JPS 60730.59 10.4	1702-15 ROPH
=====	=====	JPS 60711.64 10.3	1544+28 RCRB	JPS 60735.57 10.7	=====
1233+66 RVDRA	ALT 60679.465 6.7	JPS 60730.6 11.6	=====	JPS 60754.48 11.1	BUK 60740.68 9.1
=====	ALT 60689.422 6.7	=====	DUM 60705.63 5.97	JPS 60764.57 11.5	=====
BDJ 60712.375 N 12.08	ALT 60690.372 6.8	1425+39 VB00	DUM 60708.52 6.0	=====	1707+40 V939HER
=====	ALT 60690.398 6.7	=====	DUM 60709.52 6.1	1631+37 WHER	=====
1234+59 RSUMA	ALT 60701.459 6.7	BUK 60709.68 8.2	DUM 60729.49 6.1	=====	DUM 60766.45 8.1
=====	ALT 60704.381 6.9	BUK 60739.7 8.6	DUM 60732.46 6.05	JPS 60711.62 9.5	=====
BDJ 60712.395 N 13.5	ALT 60706.451 6.7	FRL 60762.3631 Y 8.42	DUM 60733.47 6.06	JPS 60730.6 8.5	1714+01 ZOPH
JPS 60724.38 13.2	ALT 60708.378 6.9	BUK 60764.64 8.5	DUM 60735.49 6.05	JPS 60735.54 8.7	=====
BDJ 60737.456 N 12.41	ALT 60715.34 6.8	FRL 60766.3479 Y 8.37	DUM 60736.52 6.04	BUK 60739.68 8.9	JPS 60764.62 9.3
FRL 60762.3541 Y 10.24	ALT 60717.362 6.8	=====	DUM 60737.48 6.08	JPS 60754.48 8.8	=====
FRL 60766.3347 Y 9.82	ALT 60724.439 6.7	1425+84 RCAM	DUM 60739.45 6.1	JPS 60764.56 8.7	1717+23 RSHER
=====	ALT 60725.375 6.8	=====	BUK 60740.67 6.1	BUK 60764.65 9.0	=====
1239+37 TXXVN	ALT 60729.415 6.7	BDJ 60737.44 N 9.84	DUM 60741.44 6.14	=====	JPS 60735.59 8.6
=====	ALT 60732.401 6.8	=====	DUM 60742.43 6.11	1631+72 RUMI	JPS 60764.6 7.0
FRL 60752.3618 10.0	ALT 60735.386 6.6	1435+32 RVBOO	DUM 60748.44 6.1	=====	=====
FRL 60756.3715 10.0	ALT 60736.474 6.8	=====	DUM 60752.47 6.05	PGT 60677.3 9.8	1744+22 SUHER
FRL 60761.3638 10.0	ALT 60737.4 6.7	FRL 60762.3715 Y 8.36	DUM 60753.48 6.01	=====	=====
FRL 60763.4062 10.0	ALT 60745.381 6.7	FRL 60766.3541 Y 8.43	DUM 60754.47 6.05	1633+60 TXDRA	JPS 60735.63 13.4
FRL 60765.3368 10.0	ALT 60752.442 6.7	=====	FRL 60761.3951 6.2	=====	=====
=====	ALT 60756.431 6.7	1436+32 RWBOO	DUM 60761.42 6.07	ALT 60737.413 7.6	1751+11 RTOPH
1239+61 SUMA	ALT 60762.374 6.7	=====	FRL 60762.3958 6.2	ALT 60740.41 7.5	=====
=====	ALT 60765.374 6.7	FRL 60762.3715 Y 7.83	DUM 60762.48 6.06	ALT 60745.404 7.5	JPS 60735.65 12.9
FRL 60706.3826 8.5	=====	FRL 60766.3541 Y 7.76	JTP 60762.5 6.2	ALT 60759.475 7.6	=====
BDJ 60712.383 N 7.83	1315+46 VCVN	=====	FRL 60763.402 6.2	ALT 60764.464 7.9	1757+18 WZHER
JPS 60724.38 7.5	=====	1443+39 RRBOO	DUM 60764.47 6.05	ALT 60766.363 7.4	=====
FRL 60729.3583 8.2	FRL 60765.3576 7.2	=====	FRL 60765.3784 6.3	=====	JPS 60735.63 11.7
FRL 60732.3659 8.2	=====	BUK 60739.69 10.0	DUM 60765.49 6.06	1647+05 RXOPH	JPS 60764.61 12.0
FRL 60734.3624 8.2	1322-02 VVIR	JPS 60754.48 9.7	FRL 60766.3624 6.3	=====	=====
FRL 60737.3465 8.3	=====	=====	DUM 60766.4 6.1	JPS 60735.62 9.6	1805+31 THER
BDJ 60737.455 N 8.01	JPS 60676.65 10.0	1500-18 RTLIB	=====	JPS 60764.61 10.5	=====
FRL 60739.3638 8.3	JPS 60706.76 11.9	=====	1544+28 TTCRB	=====	JPS 60735.62 9.8
FRL 60745.3013 8.3	JPS 60711.59 12.1	JPS 60735.59 <13.0	=====	1647+15 SHER	JPS 60764.6 7.4
FRL 60752.3562 8.5	JPS 60733.56 13.2	=====	BUK 60740.67 10.7	=====	=====
FRL 60754.3833 8.6	=====	1506-05 YLIB	=====	JPS 60735.61 7.5	1810+31 TVHER
FRL 60756.3694 8.7	1322+62 RRUMA	=====	1545+36 XCRB	=====	=====
FRL 60761.3611 8.6	=====	JPS 60735.58 12.9	=====	1649+07 V970OPH	JPS 60735.62 10.7
FRL 60762.3541 Y 8.88	JPS 60708.54 13.3	=====	JPS 60754.48 9.4	=====	JPS 60764.6 10.0
FRL 60763.4062 8.8	=====	1508+50 FGBOO	=====	JPS 60735.61 <14.6	=====
FRL 60765.3368 8.8	1327-06 SVIR	=====	1546+15 RSER	=====	1813+06 BCOPH
FRL 60766.3347 Y 9.07	=====	DUM 60708.5 7.76	=====	1652-02 SSOPH	=====
=====	BUK 60739.68 12.6	DUM 60709.51 7.83	BUK 60740.67 8.1	=====	JPS 60735.66 10.5
1242+04 RUVIR	JPS 60754.49 12.2	DUM 60729.5 7.84	DUM 60754.49 7.8	=====	JPS 60764.65 9.5
=====	=====	DUM 60732.47 7.77	DUM 60761.46 7.2	BUK 60764.68 12.3	=====
JPS 60730.57 13.0	1330+08 FPVIR	DUM 60733.47 7.76	DUM 60764.48 7.1	=====	1814+06 AYOPH

=====	KCH 60468.396 6.32	KCH 60203.322 7.14	KCH 60202.325 5.47	KCH 60473.414 5.61	=====
JPS 60735.66 <14.5	KCH 60469.424 6.3	KCH 60208.323 6.97	KCH 60203.318 5.28	KCH 60477.408 5.59	PGT 60689.3 8.4
=====	KCH 60471.397 6.31	ALT 60708.486 6.7	KCH 60204.318 5.21	=====	=====
1823+06 TSER	KCH 60471.406 6.35	ALT 60725.438 6.2	KCH 60204.326 5.15	1955+51 CMCYG	2138+31 VI760CYG
=====	KCH 60472.408 6.36	ALT 60732.452 6.3	KCH 60205.324 5.41	=====	=====
JPS 60735.65 11.3	KCH 60473.413 6.36	ALT 60734.417 6.2	KCH 60208.317 5.33	PGT 60689.2 11.1	JPS 60690.27 13.3
JPS 60764.64 9.5	KCH 60473.416 6.35	ALT 60735.388 6.1	KCH 60212.296 5.5	=====	=====
=====	KCH 60477.406 6.35	ALT 60736.396 6.2	KCH 60212.319 5.39	1958+49 ZCYG	2138+43 SSCYG
1826+06 BIOPH	KCH 60477.41 6.36	ALT 60737.404 6.1	KCH 60213.285 5.33	=====	=====
=====	KCH 60483.374 6.28	ALT 60739.39 6.1	KCH 60214.396 5.41	PGT 60689.3 7.9	NDQ 60678.2687 12.0
JPS 60735.65 10.3	KCH 60488.376 6.31	ALT 60739.46 6.2	KCH 60218.283 5.41	JPS 60690.26 7.8	PGT 60679.3201 11.9
JPS 60764.64 11.2	KCH 60491.381 6.29	KCH 60740.359 6.3	KCH 60218.358 5.36	JPS 60706.26 8.1	PGT 60689.2736 11.7
=====	JTP 60762.5 6.3	ALT 60745.399 6.2	KCH 60221.288 5.5	=====	PGT 60703.2527 8.9
1828+36 TLXR	JTP 60766.4 6.7	ALT 60752.458 6.2	KCH 60224.281 5.55	2002+50 BUCYG	=====
=====	=====	ALT 60756.433 6.3	KCH 60224.363 5.54	=====	2139+24 RRPEG
PGT 60677.2 7.9	1842-05 RSCIT	ALT 60759.447 6.4	KCH 60248.408 5.04	JPS 60690.26 13.7	=====
=====	=====	ALT 60762.379 6.0	KCH 60255.247 4.98	JPS 60706.26 12.9	PGT 60679.3 10.7
1834+39 XYLYR	KCH 60132.4 5.88	ALT 60764.46 6.2	KCH 60256.246 4.99	=====	JPS 60706.27 11.7
=====	KCH 60136.403 5.76	ALT 60765.368 6.0	KCH 60256.423 4.99	2007+15 SAQL	=====
KCH 60129.41 6.4	KCH 60140.401 5.88	ALT 60766.34 6.2	KCH 60259.406 5.06	=====	2139+37 RVCYG
KCH 60132.399 6.42	KCH 60141.395 5.84	=====	KCH 60262.225 5.2	PGT 60677.2 10.6	=====
KCH 60136.4 6.44	KCH 60148.415 5.67	1927+34 DDCYG	KCH 60274.332 5.62	=====	PGT 60689.3 7.5
KCH 60136.408 6.42	KCH 60151.402 5.88	=====	KCH 60281.221 5.08	2007+15 RWAQL	=====
KCH 60140.401 6.4	KCH 60159.373 5.89	PGT 60677.2 10.1	KCH 60281.283 4.99	=====	2140+58 MU_CEP
KCH 60140.404 6.44	KCH 60164.358 5.89	PGT 60689.3 9.9	KCH 60295.225 5.04	PGT 60677.2 9.2	=====
KCH 60141.394 6.41	KCH 60167.36 5.78	=====	KCH 60309.33 4.99	=====	KCH 60129.411 5.63
KCH 60141.399 6.41	KCH 60168.345 5.13	1927+45 AFCYG	KCH 60321.267 5.59	2009+16 RSGE	KCH 60132.402 5.58
KCH 60144.415 6.41	KCH 60170.39 5.64	=====	KCH 60467.402 5.13	=====	KCH 60136.401 5.59
KCH 60148.41 6.37	KCH 60173.396 5.48	PGT 60677.3 7.0	KCH 60468.397 5.1	PGT 60677.2 9.1	KCH 60140.397 5.62
KCH 60151.403 6.39	KCH 60174.371 5.52	DUM 60679.24 6.7	KCH 60469.426 5.39	=====	KCH 60141.398 5.58
KCH 60159.37 6.38	KCH 60177.376 5.13	DUM 60682.24 6.78	KCH 60471.399 5.5	2009+38 RSCYG	KCH 60148.413 5.58
KCH 60164.36 6.4	KCH 60178.338 4.93	PGT 60689.2 6.7	KCH 60472.409 5.41	=====	KCH 60151.404 5.7
KCH 60164.363 6.37	KCH 60179.355 4.93	DUM 60690.25 6.68	KCH 60473.412 5.37	PGT 60689.3 7.3	KCH 60159.372 5.7
KCH 60167.356 6.36	KCH 60181.388 5.16	DUM 60703.26 6.73	KCH 60477.406 5.57	=====	KCH 60164.358 5.6
KCH 60167.363 6.32	KCH 60184.378 5.56	DUM 60708.26 6.72	KCH 60483.375 5.44	2012+47 VI488CYG	KCH 60167.355 5.62
KCH 60168.362 6.34	KCH 60185.381 5.47	DUM 60710.27 6.86	KCH 60488.375 5.5	=====	KCH 60168.344 5.6
KCH 60168.367 6.34	KCH 60190.379 5.52	DUM 60754.49 7.77	KCH 60491.379 5.55	JTP 60754.4 4.3	KCH 60170.392 5.62
KCH 60170.388 6.28	KCH 60192.347 5.63	DUM 60765.47 7.79	=====	=====	KCH 60173.4 5.6
KCH 60170.397 6.28	KCH 60194.303 5.7	DUM 60766.43 7.75	1955+17 VZSGE	2014+37 WXCYG	KCH 60174.374 5.63
KCH 60173.395 6.36	KCH 60196.348 5.8	=====	=====	=====	KCH 60176.378 5.62
KCH 60174.369 6.36	KCH 60198.331 5.9	1934+28 BGCYG	KCH 60159.378 5.89	PGT 60689.3 12.1	KCH 60177.381 5.57
KCH 60174.375 6.31	KCH 60199.335 5.87	=====	KCH 60164.359 5.59	=====	KCH 60179.362 5.63
KCH 60177.376 6.4	KCH 60200.347 5.93	PGT 60677.2 12.1	KCH 60167.359 5.72	2015+20 VSGE	KCH 60182.383 5.5
KCH 60178.338 6.36	KCH 60202.327 5.94	=====	KCH 60168.365 5.71	=====	KCH 60184.38 5.52
KCH 60178.376 6.38	KCH 60203.317 6.0	1940+48 RTCYG	KCH 60168.368 5.72	PGT 60677.2291 11.2	KCH 60185.384 5.5
KCH 60179.36 6.34	KCH 60204.322 6.0	=====	KCH 60170.39 5.63	=====	KCH 60190.382 5.63
KCH 60179.363 6.32	KCH 60208.314 6.0	PGT 60689.2 11.4	KCH 60170.398 5.59	2015+59 CNCYG	KCH 60193.366 5.62
KCH 60179.383 6.33	KCH 60212.294 6.1	=====	KCH 60173.401 5.58	=====	KCH 60194.307 5.6
KCH 60181.388 6.4	KCH 60213.284 6.1	1944+27 SVUL	KCH 60174.372 5.61	PGT 60689.2 8.9	KCH 60195.317 5.63
KCH 60182.379 6.41	KCH 60218.281 6.1	=====	KCH 60174.376 5.61	JPS 60690.26 8.6	KCH 60196.344 5.65
KCH 60184.376 6.41	KCH 60221.287 6.0	PGT 60677.2 9.0	KCH 60177.377 5.77	JPS 60706.26 8.8	KCH 60198.334 5.65
KCH 60185.381 6.39	KCH 60224.276 5.94	=====	KCH 60178.376 5.77	=====	KCH 60199.333 5.54
KCH 60185.386 6.38	KCH 60256.24 5.2	1945+42 DFCYG	KCH 60179.36 5.52	2016+47 UCYG	KCH 60200.342 5.58
KCH 60190.377 6.37	KCH 60281.219 6.7	=====	KCH 60179.385 5.62	=====	KCH 60202.323 5.59
KCH 60190.394 6.36	=====	PGT 60677.3 10.1	KCH 60181.39 5.71	PGT 60689.3 9.6	KCH 60203.322 5.6
KCH 60192.347 6.35	1850+32 RXLYR	PGT 60689.2 10.4	KCH 60182.38 5.78	JPS 60690.26 9.5	KCH 60204.324 5.5
KCH 60192.36 6.36	=====	=====	KCH 60184.377 5.63	JPS 60706.26 9.4	KCH 60205.323 5.58
KCH 60193.363 6.36	JPS 60735.63 13.8	1946+32 CHCYG	KCH 60185.381 5.64	=====	KCH 60208.319 5.5
KCH 60194.303 6.37	JPS 60764.63 11.5	=====	KCH 60185.386 5.61	2038+47 VCYG	KCH 60212.298 5.53
KCH 60194.309 6.36	=====	KCH 60469.435 5.27	KCH 60190.379 5.64	=====	KCH 60213.288 5.53
KCH 60195.31 6.39	1859+47 WZLYR	KCH 60472.41 5.16	KCH 60190.395 5.65	JPS 60690.26 10.6	KCH 60214.398 5.62
KCH 60196.345 6.38	=====	KCH 60473.413 5.13	KCH 60192.351 5.63	=====	KCH 60218.284 5.6
KCH 60198.331 6.38	JPS 60735.66 11.2	KCH 60477.406 5.37	KCH 60192.365 5.67	2044+31 AMCYG	KCH 60221.285 5.58
KCH 60199.331 6.4	=====	KCH 60488.373 5.1	KCH 60193.364 5.7	=====	KCH 60224.28 5.6
KCH 60199.338 6.36	1913+49 TZCYG	KCH 60491.382 4.46	KCH 60194.305 5.69	JPS 60689.26 13.0	KCH 60248.41 5.65
KCH 60200.348 6.36	=====	=====	KCH 60194.311 5.62	=====	KCH 60255.242 5.7
KCH 60202.326 6.32	PGT 60677.3 11.3	1947+38 V1509CYG	KCH 60195.32 5.7	2105+87 XUMI	KCH 60256.242 5.63
KCH 60202.328 6.32	PGT 60689.2 11.2	=====	KCH 60196.347 5.67	=====	KCH 60259.407 5.63
KCH 60203.317 6.36	=====	KCH 60132.406 5.54	KCH 60198.332 5.65	NDQ 60721.3 <13.3	KCH 60274.329 5.7
KCH 60204.32 6.44	1916+37 ULYR	KCH 60136.406 5.76	KCH 60199.336 5.65	=====	KCH 60281.222 5.7
KCH 60204.325 6.42	=====	KCH 60141.394 5.43	KCH 60199.338 5.67	2106+12 ANPEG	KCH 60295.227 5.58
KCH 60205.321 6.4	JPS 60764.63 9.5	KCH 60144.416 5.52	KCH 60200.347 5.71	=====	KCH 60306.256 5.7
KCH 60208.315 6.38	=====	KCH 60148.411 5.57	KCH 60202.326 5.74	JPS 60689.27 11.8	KCH 60309.331 5.58
KCH 60208.322 6.34	1919+29 BFCYG	KCH 60151.403 5.22	KCH 60202.329 5.71	=====	KCH 60321.229 4.5
KCH 60212.294 6.36	=====	KCH 60159.371 5.44	KCH 60203.318 5.74	2108+12 REQU	KCH 60325.319 4.22
KCH 60212.317 6.37	PGT 60677.2 10.7	KCH 60164.36 5.43	KCH 60204.319 5.69	=====	KCH 60328.337 4.5
KCH 60213.284 6.38	=====	KCH 60167.358 5.52	KCH 60204.326 5.67	JPS 60690.27 9.4	KCH 60330.243 4.32
KCH 60214.394 6.36	1921+21 WWVUL	KCH 60168.363 5.59	KCH 60205.324 5.72	=====	KCH 60337.261 4.32
KCH 60218.282 6.36	=====	KCH 60170.391 5.41	KCH 60208.316 5.71	2116+14 XPEG	KCH 60341.309 4.01
KCH 60218.356 6.32	PGT 60677.2194 10.8	KCH 60173.398 5.33	KCH 60208.322 5.71	=====	KCH 60353.277 4.35
KCH 60221.288 6.41	=====	KCH 60174.372 5.51	KCH 60212.294 5.71	JPS 60689.27 10.3	KCH 60384.349 4.2
KCH 60224.278 6.27	1921+50 CHCYG	KCH 60177.378 5.33	KCH 60212.318 5.65	=====	KCH 60410.376 3.78
KCH 60224.36 6.37	=====	KCH 60178.34 5.43	KCH 60213.285 5.68	2117+21 SWPEG	KCH 60418.374 3.9
KCH 60248.408 6.41	PGT 60677.3 7.4	KCH 60178.376 5.41	KCH 60214.395 5.63	=====	KCH 60434.381 3.75
KCH 60255.241 6.31	PGT 60689.2 7.2	KCH 60179.361 5.43	KCH 60218.282 5.71	JPS 60690.27 10.3	KCH 60464.401 4.35
KCH 60256.241 6.41	=====	KCH 60179.385 5.41	KCH 60218.357 5.72	=====	KCH 60467.399 4.37
KCH 60256.247 6.41	1925+45 AWCYG	KCH 60181.389 5.37	KCH 60221.287 5.7	2121+77 GHCEP	KCH 60468.399 4.37
KCH 60256.414 6.41	=====	KCH 60182.38 5.47	KCH 60224.278 5.64	=====	KCH 60469.424 4.35
KCH 60259.405 6.39	PGT 60677.3 8.9	KCH 60184.377 5.14	KCH 60224.362 5.76	JPS 60724.42 14.4	KCH 60471.399 4.35
KCH 60262.228 6.44	PGT 60689.2 9.0	KCH 60185.382 5.37	KCH 60255.24 5.74	JPS 60733.53 14.0	KCH 60472.413 4.25
KCH 60274.333 6.44	=====	KCH 60190.38 5.47	KCH 60256.242 5.63	=====	KCH 60473.41 4.35
KCH 60281.22 6.42	1925+76 UXDRA	KCH 60192.364 5.41	KCH 60259.406 5.65	2136+78 SCEP	KCH 60477.408 4.22
KCH 60281.281 6.41	=====	KCH 60193.365 5.24	KCH 60262.224 5.58	=====	KCH 60483.377 4.14
KCH 60295.223 6.41	KCH 60132.408 6.77	KCH 60194.306 5.49	KCH 60281.219 5.63	JPS 60691.26 7.5	JTP 60708.4 : 3.8
KCH 60440.384 6.28	KCH 60136.402 6.87	KCH 60195.312 5.41	KCH 60281.285 5.6	JPS 60708.56 7.5	JTP 60729.4 : 3.9
KCH 60441.371 6.28	KCH 60141.399 6.87	KCH 60196.346 5.37	KCH 60295.224 5.66	JPS 60724.42 7.3	JTP 60737.4 3.8
KCH 60442.394 6.26	KCH 60164.361 6.57	KCH 60198.332 5.44	KCH 60469.433 5.58	JPS 60733.53 7.2	JTP 60739.5 3.9
KCH 60464.398 6.41	KCH 60167.357 7.14	KCH 60199.337 5.44	KCH 60471.403 5.58	=====	JTP 60753.4 4.0
KCH 60467.397 6.39	KCH 60168.364 7.24	KCH 60200.349 5.37	KCH 60472.41 5.59	2137+53 RUCYG	JTP 60762.5 : 4.4

JTP 60764.4 : 4.1	JTP 60753.4 3.8	=====	KCH 60281.402 4.73	PGT 60766.3 6.9	KCH 60168.36 5.67
=====	JTP 60762.5 : 4.1	2324+43 DXAND	KCH 60295.226 4.34	=====	KCH 60168.369 5.67
2144+43 WCYG	JTP 60764.4 3.7	=====	KCH 60295.334 4.63	2358+55 YCAS	KCH 60174.37 5.67
=====	=====	PGT 60679.3583 <13.0	KCH 60295.452 4.71	=====	KCH 60178.342 5.91
JPS 60706.31 8.9	2232+57 WCEP	PGT 60689.325 <12.5	KCH 60306.256 4.59	JPS 60676.52 10.2	KCH 60179.357 5.72
=====	=====	PGT 60703.2604 <12.5	KCH 60309.331 4.63	PGT 60679.4 10.4	=====
2151+47 LVCYG	ALT 60679.458 7.2	PGT 60724.3048 <12.5	KCH 60321.231 4.68	PGT 60689.4 10.2	XXXXXXX EUCMA
=====	ALT 60724.358 6.9	PGT 60730.2979 <13.0	KCH 60321.268 4.75	PGT 60723.3 10.5	=====
PGT 60689.3 11.7	ALT 60725.36 6.9	=====	KCH 60321.335 4.75	PGT 60730.3 10.4	CAS 60710.418 Q<15.7
=====	ALT 60732.435 6.9	2326+42 BGAND	KCH 60321.404 4.75	PGT 60736.4 10.6	CAS 60712.422 Q<15.7
2153+63 VVCEP	ALT 60734.378 6.9	=====	KCH 60325.319 4.77	PGT 60741.3 10.7	CAS 60733.358 Q<16.5
=====	ALT 60735.371 6.8	JPS 60676.51 10.0	KCH 60325.428 4.78	PGT 60753.3 11.4	=====
JTP 60708.4 5.2	ALT 60736.371 6.8	JPS 60706.32 10.0	KCH 60328.333 4.69	PGT 60766.3 11.5	XXXXXXX KYAND
JTP 60737.4 5.2	ALT 60737.366 7.2	=====	KCH 60328.338 4.75	=====	=====
JTP 60739.5 5.3	ALT 60739.353 6.8	2328+48 ZAND	KCH 60328.42 4.78	XXXXXXX OTGE	KCH 60136.408 6.76
JTP 60762.5 5.3	ALT 60745.379 6.8	=====	KCH 60330.244 4.75	=====	KCH 60140.403 6.82
JTP 60764.4 : 5.7	ALT 60754.331 6.9	PGT 60679.4 10.8	KCH 60337.263 4.79	KCH 60295.456 6.35	KCH 60141.398 6.76
=====	ALT 60765.331 6.8	PGT 60687.4 10.8	KCH 60337.411 4.77	KCH 60309.343 6.56	KCH 60148.413 6.77
2158+48 GYCYG	ALT 60766.336 6.8	PGT 60689.3 10.7	KCH 60341.306 4.69	=====	KCH 60151.405 6.82
=====	=====	PGT 60703.3 10.7	KCH 60353.276 4.73	XXXXXXX PYEM	KCH 60159.372 6.82
PGT 60689.3 10.3	2240+49 RVLAC	PGT 60724.3 10.7	KCH 60353.327 4.77	=====	KCH 60164.362 6.79
=====	=====	PGT 60730.3 10.7	KCH 60353.417 4.77	KCH 60312.442 5.46	KCH 60167.358 6.82
2159+27 TWPEG	PGT 60679.4 10.3	PGT 60737.3 10.6	KCH 60363.408 4.69	KCH 60321.406 6.53	KCH 60168.364 6.79
=====	PGT 60689.3 9.9	PGT 60742.3 10.6	KCH 60373.415 4.68	KCH 60325.425 6.44	KCH 60170.394 6.82
PGT 60679.3 8.0	PGT 60724.3 10.0	=====	KCH 60376.419 4.73	KCH 60328.335 6.44	KCH 60173.4 6.82
=====	PGT 60730.3 10.1	2333+35 STAND	KCH 60384.349 4.77	KCH 60330.406 6.42	KCH 60174.374 6.79
2159+69 BHCEP	=====	=====	KCH 60394.335 4.59	KCH 60337.414 6.65	KCH 60177.381 6.82
=====	2253+42 TVAND	PGT 60679.4 9.3	KCH 60410.375 4.71	KCH 60338.261 6.42	KCH 60178.344 6.82
FRL 60682.2937 11.2	=====	PGT 60690.4 9.1	KCH 60418.373 4.69	KCH 60341.308 6.35	KCH 60179.363 6.82
FRL 60687.2423 11.4	PGT 60679.4 10.4	=====	KCH 60434.381 4.71	KCH 60353.274 6.56	KCH 60182.383 6.82
FRL 60693.3069 11.2	PGT 60689.3 10.4	2339+56 ZCAS	KCH 60441.369 4.68	KCH 60353.326 6.53	KCH 60185.384 6.82
FRL 60695.2909 11.1	PGT 60724.3 10.3	=====	KCH 60464.403 4.71	KCH 60353.415 6.47	KCH 60190.383 6.82
FRL 60707.2999 11.1	PGT 60730.3 10.1	PGT 60723.3 12.0	KCH 60467.401 4.68	KCH 60363.408 6.4	KCH 60194.307 6.82
FRL 60708.3097 11.2	=====	JPS 60724.39 11.5	KCH 60468.399 4.68	KCH 60373.417 6.5	KCH 60195.318 6.82
FRL 60729.3055 11.2	2255+42 SZAND	PGT 60730.3 11.2	KCH 60469.423 4.63	KCH 60376.417 6.6	KCH 60196.344 6.82
FRL 60732.3048 11.2	=====	PGT 60736.4 11.0	KCH 60471.398 4.67	KCH 60384.347 6.56	KCH 60198.335 6.82
FRL 60734.2854 11.3	PGT 60679.4 10.7	PGT 60741.4 10.5	KCH 60471.408 4.71	KCH 60394.425 6.4	KCH 60199.333 6.82
FRL 60737.2965 11.3	PGT 60689.3 10.6	PGT 60753.3 9.6	KCH 60472.414 4.71	KCH 60434.38 6.56	KCH 60200.342 6.82
FRL 60738.2979 11.3	JPS 60706.32 11.0	PGT 60766.3 9.5	KCH 60473.41 4.73	=====	KCH 60202.324 6.82
FRL 60745.2972 11.5	PGT 60724.3 11.9	=====	KCH 60477.409 4.75	XXXXXXX WGAM	KCH 60203.322 6.82
=====	PGT 60730.3 11.6	2349+56 RHOCAS	KCH 60483.378 4.61	=====	KCH 60204.324 6.77
2206+72 DMCEP	=====	=====	ALT 60679.48 4.6	ALT 60765.372 6.1	KCH 60205.323 6.82
=====	2257+45 VYAND	KCH 60129.415 4.52	KCH 60689.408 4.5	=====	KCH 60208.319 6.82
JTP 60737.4 : 5.8	=====	KCH 60132.403 4.63	ALT 60690.344 4.4	XXXXXXX AKCEP	KCH 60212.298 6.82
=====	PGT 60679.4 10.2	KCH 60136.401 4.73	ALT 60690.367 4.4	=====	KCH 60212.321 6.82
2214+56 YZCEP	PGT 60689.3 10.2	KCH 60140.403 4.68	ALT 60701.444 4.7	FRL 60682.2986 11.3	KCH 60213.288 6.82
=====	PGT 60724.3 10.3	KCH 60141.397 4.71	ALT 60704.367 4.7	FRL 60687.2465 11.1	KCH 60214.399 6.82
FRL 60682.2986 11.5	PGT 60730.3 10.2	KCH 60148.414 4.59	ALT 60706.448 4.4	FRL 60693.3118 11.0	KCH 60218.284 6.76
FRL 60687.2465 11.4	=====	KCH 60151.405 4.63	ALT 60708.37 4.6	FRL 60695.2951 11.0	KCH 60221.285 6.79
FRL 60693.3104 11.3	2258+59 UVCAS	KCH 60159.372 4.71	ALT 60715.338 5.0	FRL 60707.3013 11.8	KCH 60224.28 6.82
FRL 60695.2937 11.4	=====	KCH 60164.357 4.67	ALT 60724.342 4.5	FRL 60708.3138 11.3	KCH 60248.41 6.77
FRL 60707.3013 11.3	PGT 60679.4 10.5	KCH 60167.357 4.69	ALT 60726.331 4.6	FRL 60729.3083 11.6	KCH 60255.244 6.77
FRL 60708.3118 11.3	PGT 60689.3 10.5	KCH 60168.344 4.59	ALT 60729.399 4.4	FRL 60732.3069 11.0	KCH 60256.243 6.82
FRL 60729.3083 11.3	PGT 60723.3 10.7	KCH 60170.393 4.59	ALT 60732.424 4.4	FRL 60734.2916 11.6	KCH 60259.408 6.76
FRL 60734.2875 11.3	PGT 60730.3 10.5	KCH 60173.399 4.52	ALT 60734.394 4.8	FRL 60738.3034 11.0	KCH 60281.223 6.82
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2214+69 BOCEP	PGT 60741.3 10.5	KCH 60178.343 4.59	ALT 60739.381 4.6	=====	KCH 60309.332 6.87
=====	PGT 60753.3 10.6	KCH 60178.378 4.68	ALT 60740.365 4.6	JPS 60690.27 9.6	KCH 60321.269 6.77
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FRL 60687.2423 11.8	=====	KCH 60179.387 4.71	ALT 60764.383 4.6	XXXXXXX CGUMA	KCH 60328.337 6.76
FRL 60693.3055 11.9	2307+59 VCAS	KCH 60182.384 4.69	ALT 60765.326 4.4	=====	KCH 60337.267 6.82
FRL 60695.2888 11.8	=====	KCH 60184.379 4.63	ALT 60766.332 4.4	KCH 60353.281 6.01	KCH 60341.31 6.79
FRL 60707.2999 11.9	PGT 60679.4 9.8	KCH 60185.383 4.63	=====	KCH 60353.328 6.01	KCH 60353.277 6.82
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=====	PGT 60730.3 9.6	KCH 60199.333 4.63	PGT 60742.3 9.0	KCH 60440.378 6.25	DUM 60678.57 7.9
2219+73 SVCEP	PGT 60737.3 9.7	KCH 60199.339 4.71	=====	KCH 60442.395 5.48	DUM 60679.45 7.7
=====	=====	KCH 60200.341 4.59	2352-09 VCET	KCH 60464.399 6.13	DUM 60706.43 7.48
FRL 60682.2951 10.9	2314+25 WPEG	KCH 60202.322 4.68	=====	KCH 60467.398 6.28	DUM 60708.46 7.7
FRL 60687.2423 10.9	=====	KCH 60202.328 4.69	JPS 60691.28 10.1	KCH 60468.394 6.28	DUM 60709.5 7.89
FRL 60693.3083 10.8	JPS 60690.27 9.8	KCH 60203.321 4.75	=====	KCH 60469.422 6.19	DUM 60729.45 7.49
FRL 60695.2923 10.8	JPS 60706.31 9.9	KCH 60204.323 4.77	2352+55 WYCAS	KCH 60471.397 6.28	DUM 60732.44 7.7
FRL 60707.2999 10.7	=====	KCH 60204.326 4.71	=====	KCH 60472.415 6.29	DUM 60733.45 7.7
FRL 60708.3118 10.7	2315+39 RYAND	KCH 60205.322 4.63	JPS 60676.52 11.1	KCH 60473.409 6.32	DUM 60735.48 7.47
FRL 60721.2951 10.7	=====	KCH 60208.321 4.68	PGT 60679.4 11.4	KCH 60477.41 6.28	DUM 60736.51 7.47
FRL 60729.3083 10.7	JPS 60706.34 <14.3	KCH 60212.297 4.61	PGT 60689.3 11.4	KCH 60483.373 6.27	DUM 60737.45 7.7
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FRL 60734.2875 10.7	=====	KCH 60213.289 4.63	=====	=====	DUM 60739.44 7.7
FRL 60737.2986 10.7	2318+17 IPPEG	KCH 60214.397 4.73	2355+25 ZPEG	XXXXXXX CIBOO	DUM 60752.45 7.46
FRL 60738.3013 10.7	=====	KCH 60218.283 4.71	=====	=====	DUM 60753.46 7.45
FRL 60745.2993 10.8	NDQ 60678.2653 12.9	KCH 60218.359 4.68	JPS 60691.3 9.5	FRL 60762.3715 Y 6.58	DUM 60754.44 7.51
=====	PGT 60679.3409 12.5	KCH 60221.285 4.75	=====	FRL 60766.3541 Y 6.48	DUM 60761.38 7.45
2224+39 SLAC	=====	KCH 60224.279 4.75	2356+59 WZCAS	=====	DUM 60764.36 7.87
=====	2318+78 RYCEP	KCH 60224.363 4.73	=====	XXXXXXX CYBOO	DUM 60765.45 7.46
PGT 60679.3 9.9	=====	KCH 60248.41 4.67	PGT 60679.4 7.5	=====	DUM 60766.34 7.45
=====	JPS 60691.28 11.4	KCH 60255.248 4.44	PGT 60689.3 7.5	KCH 60129.413 5.72	=====
2225+57 DELTACEP	JPS 60724.42 9.7	KCH 60256.244 4.6	PGT 60718.3 7.4	KCH 60132.401 5.77	XXXXXXX PUCMA
=====	JPS 60733.52 9.5	KCH 60256.415 4.65	PGT 60723.3 7.6	KCH 60136.404 5.8	=====
JTP 60708.4 3.7	=====	KCH 60259.41 4.65	PGT 60730.3 7.5	KCH 60140.399 5.68	CAS 60710.401 Q 15.3
JTP 60729.4 : 3.8	2321+44 ALAND	KCH 60274.331 4.75	PGT 60736.4 7.6	KCH 60141.396 6.3	CAS 60733.343 Q 15.7
JTP 60737.4 3.8	=====	KCH 60281.224 4.75	PGT 60741.3 7.6	KCH 60151.4 5.76	=====
JTP 60739.5 3.9	JPS 60709.365 N 17.44	KCH 60281.285 4.59	PGT 60753.3 7.3	KCH 60167.362 6.18	XXXXXXX PXAND

=====	FRL 60707.2555 Y 8.31	XXXXXXX V642HER	KCH 60471.406 6.8	KCH 60194.302 5.25	XXXXXXX SN2024xmw
CAS 60673.255 Q 14.5	FRL 60729.2812 Y 8.36	=====	KCH 60472.411 6.85	=====	=====
=====	FRL 60732.2847 Y 8.29	KCH 60132.408 7.25	KCH 60473.415 6.8	XXXXXXX V1155TAU	SUM 60603.437 Q 17.78
XXXXXXX RWTAU	FRL 60736.2847 Y 8.46	KCH 60136.406 7.3	KCH 60477.408 6.92	=====	=====
=====	FRL 60740.293 Y 8.5	KCH 60140.402 7.27	KCH 60483.376 6.87	KCH 60259.41 5.9	XXXXXXX GRB240809A
FRL 60734.2999 12.4	FRL 60762.3145 Y 8.33	KCH 60141.392 7.3	=====	KCH 60309.338 6.26	=====
=====	=====	KCH 60148.415 7.25	XXXXXXX V782CAS	KCH 60321.403 6.26	SUM 60532.367 Q 20.6
XXXXXXX RXSCO	XXXXXXX V441PER	KCH 60151.401 7.1	=====	KCH 60325.323 6.24	=====
=====	=====	KCH 60159.374 7.27	JTP 60729.4 7.7	KCH 60328.424 6.26	XXXXXXX GRB241030A
JPS 60735.67 12.5	FRL 60707.2555 Y 8.29	KCH 60167.36 6.8	JTP 60737.5 7.7	KCH 60337.413 6.29	=====
JPS 60764.58 12.5	FRL 60729.2812 Y 8.24	KCH 60168.361 7.06	JTP 60739.5 : 7.7	KCH 60338.263 6.22	SUM 60615.29 Q 20.65
=====	FRL 60732.2847 Y 8.22	KCH 60168.367 6.8	JTP 60762.5 7.9	KCH 60341.308 6.18	=====
XXXXXXX VYLEO	FRL 60736.2847 Y 8.28	KCH 60170.396 6.8	JTP 60764.4 7.6	KCH 60353.276 6.21	XXXXXXX SN2024adfy
=====	FRL 60740.293 Y 8.22	KCH 60173.397 6.92	=====	KCH 60373.419 6.29	=====
JTP 60737.5 : 6.5	FRL 60752.3069 Y 8.12	KCH 60174.368 7.1	XXXXXXX V793CAS	=====	SUM 60661.341 Q 19.0
JTP 60739.5 : 7.4	FRL 60762.3145 Y 8.1	KCH 60174.375 7.16	=====	XXXXXXX AT2024xow	=====
JTP 60764.4 6.3	FRL 60766.3222 Y 8.18	KCH 60177.378 7.27	JTP 60708.3 : 7.7	=====	XXXXXXX 31N-2008-12a
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XXXXXXX APHAORI	XXXXXXX V442AUR	KCH 60178.375 7.16	=====	=====	SUM 60659.391 Q 20.0
=====	=====	KCH 60179.359 7.3	XXXXXXX MARK4UMA	XXXXXXX EP240801A	=====
JTP 60734.5 0.7	DUM 60678.58 7.4	KCH 60179.364 7.4	=====	=====	XXXXXXX N-AT2024abqt
=====	DUM 60708.49 7.38	KCH 60179.384 7.3	CAS 60754.466 Q 13.15	SUM 60524.532 Q 22.3	=====
XXXXXXX V368PER	DUM 60709.49 7.51	KCH 60182.379 7.29	=====	=====	SUM 60642.366 Q 17.7
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CAS 60673.379 Q<16.2	DUM 60732.45 7.42	KCH 60190.378 7.25	=====	=====	SUM 60643.506 Q 17.44
=====	DUM 60733.45 7.49	KCH 60190.394 6.95	CAS 60709.353 Q 16.45	SUM 60461.406 Q 12.37	SUM 60644.333 Q 18.05
XXXXXXX V392PER	DUM 60735.4 7.47	KCH 60192.35 7.16	CAS 60710.355 Q<16.7	SUM 60461.432 Q 12.72	SUM 60644.36 M 18.61
=====	DUM 60736.53 7.38	KCH 60194.304 7.25	=====	SUM 60462.364 Q 12.33	SUM 60644.399 O 17.22
CAS 60673.415 Q 15.0	DUM 60737.47 7.44	KCH 60194.309 7.23	XXXXXXX NSV07074	=====	SUM 60644.436 N 18.86
CAS 60710.344 Q 15.0	DUM 60739.47 7.4	KCH 60195.322 7.2	=====	XXXXXXX SN2024jif	=====
=====	DUM 60753.44 7.43	KCH 60196.349 7.16	KCH 60132.407 5.36	=====	XXXXXXX N-AT2024afyi
XXXXXXX V403PER	DUM 60754.45 7.45	KCH 60198.33 7.35	KCH 60136.406 5.34	SUM 60472.463 Q 14.61	=====
=====	DUM 60762.44 7.42	KCH 60199.334 7.4	KCH 60140.4 5.36	SUM 60472.486 N 15.14	SUM 60675.349 Q 17.01
FRL 60707.2555 Y 8.42	DUM 60764.37 7.5	KCH 60200.343 7.04	KCH 60141.391 5.36	=====	SUM 60675.386 O 16.53
FRL 60729.2812 Y 8.45	DUM 60765.46 7.55	KCH 60202.326 7.4	KCH 60151.406 5.29	XXXXXXX SN2024pxl	SUM 60675.409 N 17.32
FRL 60732.2847 Y 8.45	DUM 60766.34 7.43	KCH 60203.319 7.16	KCH 60159.369 5.32	=====	SUM 60677.36 Q 18.81
FRL 60736.2847 Y 8.71	=====	KCH 60204.325 7.04	KCH 60164.356 5.37	SUM 60521.371 Q 15.77	SUM 60677.42 O 17.98
FRL 60740.293 Y 8.59	XXXXXXX V615Vul	KCH 60208.318 7.25	KCH 60167.356 5.33	SUM 60521.458 N 16.17	SUM 60677.446 N 19.24
FRL 60762.3145 Y 8.44	=====	KCH 60212.295 7.27	KCH 60168.343 5.32	=====	SUM 60679.302 Q 19.84
FRL 60766.3222 Y 8.32	SUM 60587.304 N 15.36	KCH 60213.286 7.28	KCH 60174.367 5.36	XXXXXXX SN2024rbf	=====
=====	SUM 60594.256 N 16.43	KCH 60221.286 6.92	KCH 60178.342 5.36	=====	=====
XXXXXXX V439PER	SUM 60595.377 N 16.43	KCH 60224.277 7.16	KCH 60179.358 5.33	SUM 60577.451 Q 18.56	=====
=====	=====	KCH 60469.427 6.8	KCH 60182.378 5.37	=====	=====