

"Pseudo-MPEC" for IF033Created 2020 Jan 14 18:33:04 UT using [Find_Orb](#)[Click here for an explanation of pseudo-MPECs](#)

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Orbit Simulator View

Astrometry:

IF033	C2020	01	08N!Astrometry:Ts+NQwcYeGAjAT4+0\g?lGxsrlN) [ZhbX\$Cr;tC872
IF033	C2020	01	08`q7y+B!,PM/DZ'FY%_R/Gp5o3^kDc7N@P'U#2fkR3a21VLB:(neK872
IF033	C2020	01	09^@ATW]2fVun5JC,UOIf+9I\$^o,_R^_t0y(o'wdL\$4^U1TT9WC,ipC42
IF033	C2020	01	10_toN8RX0gu\#E!#;t?oDYW9_Kc/bf2\%umLCovVW4%,7C`c8#DPMC42
IF033	C2020	01	10J@kk/Vn_a=5^(bocN(LbHT#`^:2=S0`-p]lLfx@2+qSSehQ;2M7tyC42
IF033	C2020	01	13-w#yRnLNMBmNnq,vugdFku%BimU7]XU8gyZ08(S=ZwU38b\blTwAL51
IF033	C2020	01	13Mx/F;1pB?avN7*%59c-yEhd`\$.pJ98'.kA`[rt#kxiS^gK6H=MQ!L51
IF033	C2020	01	13_q60\$RXnb+o=ba([9up5x#?4O7kbo4jBQMxP(i.G+=9;ZfTEwKeFL51
IF033	C2020	01	13vpos3ngt]upi-4B]*MSyp,5F-1A@v0up'gf:@PhLpZid'^VmIa8-403
IF033	C2020	01	13aA,@*GYqO=/JJ+EL,Co0x/)IQ'vw]gmm+*.F5?YS'0-?j5Q?18wi403
IF033	KC2020	01	13g@^dzijgj7R]TU3L[redacted;cRxi)NVOi*XY(R.+GjAqy(PRQ\D88
IF033	C2020	01	13cfd#ID#RsJyIK2iMG/LD-79p,]4%,e@u[Kp'J7ktvkG'A2AGgIUj403
IF033	KC2020	01	13x/Jor5E8I2?g1'T6SO/rjFb[t6Wh46rXaAf-uu_;7ZdLp.\$j2uRXD88
IF033	C2020	01	13rtN#H2D\$KA;4TW#q=NoD\$i/NEQ?(qPIeeI3E\$`7S?PS3Uha-ux\'403
IF033	KC2020	01	14MJdYl\$[0AuQZH6!ZVJ(\$t4tKjj:NSWe9a6Uc_LXlOb7Msf0YE+FXA71
IF033	KC2020	01	14Sn-Z^lgTK1oX9Hw`,AF,Ox^4-\5H\:r/hfXNax9@bbK.0n1Y=n.kA71
IF033	KC2020	01	14D\$nr6_ri#-@]Z9,Wm%g?pnqTjA/%(X!Sm4+AwKT/bu[ZKvRw7kA71
IF033	KC2020	01	14:x;m-bKI191P*;E:*jQM?_95f_tav4+?vS[;a7W%/koP]oTs^/lYA71
IF033	KC2020	01	14Cu\$w60y(\P=^^UrL64E;qf4D@c=K5jHl-wsux)\$7C_\$i\5/t6KM9A71
IF033	KC2020	01	14=5]QLe43g21Hqi@^'0Q)),s*m^CN1*MU-pX`HPbYLR,9rf^uXtm+A71
IF033	KC2020	01	14.25596 17 57 16.89 +09 43 48.6 15.2 R 970

IF033	KC2020	01	14.26055	17 57	17.12	+09 44	02.0	15.4	R	970
IF033	KC2020	01	14.26513	17 57	17.31	+09 44	15.9	15.5	R	970
IF033	*C2020	01	14,Ao+\$i8%5cMo]@NSIU9AMP*y%8!/3Y_BSmiea*Q(Qo=nbW(HZu.+G40							
IF033	*C2020	01	14,AcO.U)ynM%of';e#.oXahu^sFYRlh`#seeG;XA(65++V*\$L=B`'G40							
IF033	*C2020	01	14dwlludDg6S_L[]AU='!Y6M,q^J0g=S`y/=g9'yQ6N(eg+W01T\`.CG40							
IF033	C2020	01	14.uMsn4g?F@l\$if]2Pfd0XhHoN.9*\$Std%c#\$4%ZjNWC1[=SNIFF[H01							
IF033	C2020	01	14kJ\M(f.L;]hmA5`H6lvF)yhEn@_ks5X:XqaV7'TEO@Nkfks6on%H01							
IF033	C2020	01	14`]Ao3\FnND/5\[ote4,\$uCF2V.y:NRxaO=m4_JR,*sC+`2p#\R!H01							
IF033	C2020	01	14JMKWGPujgGpc*8F?EO*K5T@bHmb\$#ZLIIXNHT!(axw/?A-Rly+6H06							
IF033	C2020	01	14I]g8B5vR66od!mrLVa))YD'FbPbV_mGpoVTqLr:MrItw;eC_8013H06							
IF033	C2020	01	14;3Dm:ZkQJ^qsk[iM1Ysd6O@sq9)rgp1_:xRthyDsQy3Y#\$\$=plHAH01							
IF033	C2020	01	14(do)5Z8KS\$RGfua,6pvkJoj8_D^UQY@_ouAW4@cryd37qYM#]ksvH06							
IF033	C2020	01	14G/Pt1t1f'AN\$0@i`rtnl!.XCC2J9HQSD%uXpQ=N71;8o(AsVQYhH06							
IF033	C2020	01	14UiffaGhTFy,G.(%.RByRiKUHvdpdpEcGEOAKIRp!#FR\1vNEOCPh01							
IF033	C2020	01	14.54814	17 57	32.19	+09 57	47.5	15.8	GVNEOCPG96	
IF033	C2020	01	14.55263	17 57	32.43	+09 58	01.1	15.9	GVNEOCPG96	
IF033	C2020	01	14.55710	17 57	32.63	+09 58	13.2	15.8	GVNEOCPG96	
IF033	C2020	01	14.55731	17 57	32.71	+09 58	14.6	14.0	GVNEOCP152	
IF033	C2020	01	14.55822	17 57	32.70	+09 58	17.1	14.1	GVNEOCP152	
IF033	C2020	01	14.55913	17 57	32.66	+09 58	19.6	14.2	GVNEOCP152	
IF033	C2020	01	14.56101	17 57	32.85	+09 58	24.7	15.8	GVNEOCPG96	

Station data:

- (403) Kani ([N35.413168 E137.055600](#)) Japan.
- (872) [Tokushima](#) ([N34.090230 E134.241100](#)) Japan.
- (970) [Chelmsford](#) ([N51.744713 E0.495400](#)) UK. Observer N. James. 0.28-m f/10 Schmidt-Cassegrain + CCD.
- (A71) Stixendorf ([N48.428772 E15.453300](#)) Austria.
- (C42) [Xingming Observatory, Mt. Nanshan](#) ([N43.471019 E87.177800](#)) China. Observers H. Tan, X. Gao, P. Sun. Measurers Z. Xu, P. Sun, M.-T. [Hui](#). 0.5-m f/4 reflector + CCD.
- (D88) Hiratsuka ([N35.369660 E139.314200](#)) Japan.
- (G40) Slooh.com Canary Islands Observatory ([N28.299718 W16.508260](#)) Canary Islands (Spain). Observers G. Gašparović, Y. Chen. 0.43-m f/6.8 Corrected Dall-Kirkham + CCD.
- (G96) [Mt. Lemmon Survey](#) ([N32.442751 W110.788720](#)) US/Arizona. Observers E. J. [Christensen](#), A. R. [Gibbs](#), A. D. [Grauer](#), R. E. [Hill](#), J. A. Johnson, R. A. [Kowalski](#), S. M. [Larson](#), F. C. [Shelly](#). 1.5-m reflector + CCD.
- (H01) [Magdalena Ridge Observatory, Socorro](#) ([N33.984829 W107.189330](#)) US/New Mexico. Observers [W. H. Ryan](#), E. V. Ryan. Measurer W. H. Ryan. 2.4-m f/8.9 reflector + CCD.
- (H06) [RAS Observatory, Mayhill](#) ([N32.903323 W105.528700](#)) US/New Mexico. Observers E. [Guido](#), G. [Sostero](#), V. Gonano, L. Donato.
- (I52) Steward Observatory, Mt. Lemmon Station ([N32.442544 W110.788920](#)) US/Arizona.
- (L51) MARGO, Nauchnij ([N44.729398 E34.016400](#)) Ukraine.

Orbital elements: IF033

Perihelion 2020 Jan 8.327762 +/- 0.0872 TT; Constraint: e=1
 Epoch 2020 Jan 14.0 TT = JDT 2458862.5 Earth MOID: 0.3142 Ma: 0.0276
 q 0.97851595 +/- 0.00128 (J2000 ecliptic)
 H 13.3 G 0.15 Peri. 68.18760 +/- 0.20
 Node 286.35559 +/- 0.052
 e 1.0 +/- 0 Incl. 120.74283 +/- 0.018
 40 of 42 observations 2020 Jan. 9-14; mean residual 0".88

Residuals in arcseconds:

200108	872	(5.5- 3.0-)	200114	A71	.53- .16-	200114	H01	.50+ .11-
200108	872	(.65+ 5.3-)	200114	A71	.55- 1.1+	200114	H06	.28+ .37-
200109	C42	.43- .97+	200114	A71	.55- .69+	200114	H06	.35+ .69-
200110	C42	1.4- .06-	200114	A71	.27- .46+	200114	H01	.31+ .19-
200110	C42	1.1+ .16-	200114	A71	1.1+ .02+	200114	H06	.09+ .33-
200113	L51	1.5+ .01-	200114	A71	.25- .02+	200114	H06	.14+ .64-
200113	L51	.06- 3.1-	200114	970	.19+ 1.6-	200114	H01	.27+ .10-
200113	L51	1.3+ 2.3-	200114	970	.12+ 1.3-	200114	G96	.10- .05+
200113	403	.04- .66+	200114	970	.53- .49-	200114	G96	.02+ .73+
200113	403	.78+ .39-	200114	G40	.89- .76-	200114	G96	.43- .03-
200113	D88	.54- .92+	200114	G40	.73- .10+	200114	I52	.59+ .77+
200113	403	.39- 3.0+	200114	G40	.10- .41-	200114	I52	.25- .65+
200113	D88	.55- 1.3+	200114	H01	.21+ .29-	200114	I52	1.5- .53+
200113	403	1.6+ 2.2+	200114	H01	.31+ .06-	200114	G96	.16- .22+

Ephemerides for Chelmsford:

Date (UTC).d	RA	Dec	delta	r	elong	mag	'/hr	PA	alt	az	"	sig	PA
2020 01 14.8	17 57 44.939	+10 09 51.01	1.4931	.98495	40.7	15.8	2.08	15.4	-16	311	.27	37	
2020 01 14.9	17 57 50.359	+10 14 40.31	1.4911	.98514	40.8	15.8	2.09	15.5	-27	347	.33	37	
2020 01 15.0	17 57 55.816	+10 19 30.64	1.4891	.98535	40.9	15.8	2.10	15.5	-24	027	.40	37	
2020 01 15.1	17 58 01.250	+10 24 22.00	1.4870	.98555	41.0	15.8	2.10	15.3	-09	060	.47	37	
2020 01 15.2	17 58 06.620	+10 29 14.28	1.4850	.98576	41.1	15.8	2.10	15.0	+12	089	.54	37	
2020 01 15.3	17 58 11.911	+10 34 07.33	1.4829	.98597	41.2	15.8	2.11	14.8	+34	120	.61	37	
2020 01 15.4	17 58 17.150	+10 39 01.02	1.4809	.98619	41.3	15.8	2.11	14.7	+48	164	.69	37	
2020 01 15.5	17 58 22.388	+10 43 55.26	1.4789	.98641	41.4	15.8	2.11	14.7	+44	216	.77	37	
2020 01 15.6	17 58 27.684	+10 48 50.06	1.4768	.98663	41.5	15.8	2.12	14.9	+26	253	.85	37	
2020 01 15.7	17 58 33.082	+10 53 45.54	1.4748	.98685	41.6	15.8	2.13	15.2	+04	282	.94	37	
2020 01 15.8	17 58 38.594	+10 58 41.85	1.4728	.98708	41.7	15.8	2.14	15.4	-16	312	1.0	37	
2020 01 15.9	17 58 44.194	+11 03 39.17	1.4707	.98731	41.8	15.8	2.15	15.6	-27	348	1.1	37	
2020 01 16.0	17 58 49.832	+11 08 37.58	1.4687	.98754	41.9	15.8	2.15	15.5	-23	027	1.2	37	
2020 01 16.1	17 58 55.446	+11 13 37.07	1.4666	.98777	42.0	15.8	2.16	15.3	-08	061	1.3	37	
2020 01 16.2	17 59 00.994	+11 18 37.53	1.4646	.98801	42.1	15.8	2.16	15.1	+14	089	1.4	37	
2020 01 16.3	17 59 06.465	+11 23 38.80	1.4625	.98825	42.2	15.8	2.17	14.9	+35	120	1.5	37	
2020 01 16.4	17 59 11.883	+11 28 40.73	1.4605	.98850	42.4	15.8	2.17	14.7	+49	165	1.6	37	
2020 01 16.5	17 59 17.303	+11 33 43.22	1.4584	.98875	42.5	15.8	2.17	14.8	+45	217	1.7	37	
2020 01 16.6	17 59 22.784	+11 38 46.30	1.4564	.98900	42.6	15.8	2.18	15.0	+26	255	1.9	37	

2020 01 16.7	17 59 28.369	+11 43 50.08	1.4543	.98925	42.7	15.8	2.19	15.3	+04 283	2.0	37
2020 01 16.8	17 59 34.072	+11 48 54.76	1.4523	.98951	42.8	15.8	2.20	15.5	-15 313	2.1	37
2020 01 16.9	17 59 39.864	+11 54 00.49	1.4502	.98976	42.9	15.8	2.21	15.6	-26 349	2.2	37
2020 01 17.0	17 59 45.694	+11 59 07.38	1.4482	0.9900	43.0	15.8	2.22	15.5	-22 028	2.4	37
2020 01 17.1	17 59 51.500	+12 04 15.41	1.4461	0.9903	43.1	15.8	2.22	15.4	-07 061	2.5	37
2020 01 17.2	17 59 57.239	+12 09 24.47	1.4440	0.9906	43.2	15.8	2.23	15.1	+15 089	2.6	37
2020 01 17.3	18 00 02.900	+12 14 34.38	1.4420	0.9908	43.3	15.8	2.23	14.9	+36 120	2.8	37
2020 01 17.4	18 00 08.509	+12 19 44.96	1.4399	0.9911	43.4	15.8	2.23	14.8	+50 166	2.9	37
2020 01 17.5	18 00 14.122	+12 24 56.12	1.4378	0.9914	43.5	15.8	2.24	14.9	+45 218	3.1	37
2020 01 17.6	18 00 19.800	+12 30 07.89	1.4358	0.9917	43.6	15.8	2.24	15.0	+27 256	3.2	37
2020 01 17.7	18 00 25.586	+12 35 20.40	1.4337	0.9919	43.7	15.8	2.25	15.3	+05 285	3.4	37
2020 01 17.8	18 00 31.491	+12 40 33.85	1.4317	0.9922	43.8	15.8	2.26	15.5	-15 314	3.5	37
2020 01 17.9	18 00 37.488	+12 45 48.42	1.4296	0.9925	43.9	15.8	2.27	15.6	-25 350	3.7	37
2020 01 18.0	18 00 43.522	+12 51 04.22	1.4276	0.9928	44.0	15.8	2.28	15.6	-21 028	3.9	37
2020 01 18.1	18 00 49.532	+12 56 21.23	1.4255	0.9931	44.1	15.8	2.29	15.4	-06 061	4.0	37
2020 01 18.2	18 00 55.474	+13 01 39.32	1.4234	0.9934	44.2	15.8	2.29	15.2	+16 089	4.2	37
2020 01 18.3	18 01 01.338	+13 06 58.29	1.4213	0.9937	44.3	15.8	2.29	14.9	+37 120	4.4	37
2020 01 18.4	18 01 07.151	+13 12 17.96	1.4193	0.9940	44.4	15.8	2.30	14.8	+51 166	4.6	37
2020 01 18.5	18 01 12.970	+13 17 38.22	1.4172	0.9943	44.5	15.8	2.30	14.9	+46 220	4.8	36
2020 01 18.6	18 01 18.857	+13 22 59.12	1.4151	0.9946	44.6	15.8	2.31	15.1	+27 257	4.9	36
2020 01 18.7	18 01 24.856	+13 28 20.79	1.4131	0.9949	44.7	15.8	2.32	15.4	+05 286	5.1	36
2020 01 18.8	18 01 30.977	+13 33 43.46	1.4110	0.9952	44.8	15.8	2.33	15.6	-14 315	5.3	36
2020 01 18.9	18 01 37.191	+13 39 07.31	1.4090	0.9956	45.0	15.8	2.34	15.7	-24 351	5.5	36
2020 01 19.0	18 01 43.443	+13 44 32.47	1.4069	0.9959	45.1	15.8	2.35	15.6	-20 029	5.8	36
2020 01 19.1	18 01 49.671	+13 49 58.90	1.4048	0.9962	45.2	15.8	2.36	15.4	-04 061	6.0	36
2020 01 19.2	18 01 55.829	+13 55 26.47	1.4027	0.9965	45.3	15.8	2.36	15.2	+17 089	6.2	36
2020 01 19.3	18 02 01.909	+14 00 54.95	1.4006	0.9969	45.4	15.8	2.36	15.0	+38 120	6.4	36
2020 01 19.4	18 02 07.940	+14 06 24.16	1.3985	0.9972	45.5	15.8	2.37	14.9	+52 167	6.6	36
2020 01 19.5	18 02 13.979	+14 11 53.98	1.3965	0.9975	45.6	15.8	2.37	15.0	+46 221	6.9	36
2020 01 19.6	18 02 20.088	+14 17 24.46	1.3944	0.9979	45.7	15.8	2.38	15.2	+27 258	7.1	36
2020 01 19.7	18 02 26.314	+14 22 55.75	1.3923	0.9982	45.8	15.8	2.39	15.4	+05 287	7.3	36
2020 01 19.8	18 02 32.664	+14 28 28.09	1.3903	0.9986	45.9	15.8	2.40	15.6	-14 316	7.6	36
2020 01 19.9	18 02 39.111	+14 34 01.68	1.3882	0.9989	46.0	15.8	2.41	15.7	-23 352	7.8	36
2020 01 20.0	18 02 45.595	+14 39 36.66	1.3861	0.9992	46.1	15.8	2.42	15.7	-19 029	8.1	36
2020 01 20.1	18 02 52.054	+14 45 12.98	1.3840	0.9996	46.2	15.8	2.43	15.5	-03 061	8.3	36
2020 01 20.2	18 02 58.443	+14 50 50.49	1.3819	1.0000	46.3	15.8	2.43	15.2	+18 089	8.6	36
2020 01 20.3	18 03 04.754	+14 56 28.96	1.3799	1.0003	46.4	15.8	2.44	15.0	+40 121	8.9	36
2020 01 20.4	18 03 11.017	+15 02 08.17	1.3778	1.0007	46.5	15.8	2.44	15.0	+53 168	9.1	36
2020 01 20.5	18 03 17.289	+15 07 48.02	1.3757	1.0010	46.6	15.8	2.45	15.0	+47 223	9.4	36
2020 01 20.6	18 03 23.637	+15 13 28.55	1.3736	1.0014	46.7	15.8	2.45	15.2	+27 260	9.7	36
2020 01 20.7	18 03 30.104	+15 19 09.93	1.3716	1.0018	46.9	15.8	2.46	15.5	+05 288	10.0	36
2020 01 20.8	18 03 36.700	+15 24 52.42	1.3695	1.0021	47.0	15.8	2.47	15.7	-13 318	10.3	36
2020 01 20.9	18 03 43.393	+15 30 36.24	1.3674	1.0025	47.1	15.8	2.49	15.8	-22 353	10.6	36
2020 01 21.0	18 03 50.125	+15 36 21.51	1.3654	1.0029	47.2	15.8	2.50	15.7	-18 030	10.9	36
2020 01 21.1	18 03 56.831	+15 42 08.21	1.3633	1.0033	47.3	15.8	2.50	15.5	-02 061	11.2	36
2020 01 21.2	18 04 03.467	+15 47 56.15	1.3612	1.0037	47.4	15.8	2.51	15.3	+19 089	11.5	36
2020 01 21.3	18 04 10.024	+15 53 45.09	1.3591	1.0040	47.5	15.8	2.51	15.1	+41 121	11.8	36

2020	01	21.4	18 04	16.533	+15 59	34.80	1.3570	1.0044	47.6	15.8	2.52	15.0	+54 169	12.1	36
2020	01	21.5	18 04	23.056	+16 05	25.16	1.3549	1.0048	47.7	15.8	2.52	15.1	+47 224	12.5	36
2020	01	21.6	18 04	29.658	+16 11	16.23	1.3529	1.0052	47.8	15.8	2.53	15.3	+28 261	12.8	36
2020	01	21.7	18 04	36.383	+16 17	08.19	1.3508	1.0056	47.9	15.8	2.54	15.5	+06 289	13.1	36
2020	01	21.8	18 04	43.240	+16 23	01.31	1.3487	1.0060	48.0	15.8	2.55	15.7	-13 319	13.5	36
2020	01	21.9	18 04	50.197	+16 28	55.85	1.3467	1.0064	48.1	15.8	2.56	15.8	-22 354	13.8	36
2020	01	22.0	18 04	57.193	+16 34	51.92	1.3446	1.0068	48.2	15.8	2.57	15.7	-17 030	14.2	36
2020	01	22.1	18 05	04.163	+16 40	49.50	1.3425	1.0072	48.3	15.8	2.58	15.6	-01 061	14.6	36
2020	01	22.2	18 05	11.062	+16 46	48.37	1.3404	1.0076	48.5	15.8	2.59	15.3	+20 089	14.9	36
2020	01	22.3	18 05	17.882	+16 52	48.29	1.3383	1.0081	48.6	15.8	2.59	15.1	+42 121	15.3	36
2020	01	22.4	18 05	24.656	+16 58	48.99	1.3362	1.0085	48.7	15.8	2.60	15.1	+55 170	15.7	36
2020	01	22.5	18 05	31.446	+17 04	50.37	1.3342	1.0089	48.8	15.8	2.60	15.1	+48 226	16.1	36
2020	01	22.6	18 05	38.318	+17 10	52.48	1.3321	1.0093	48.9	15.8	2.61	15.3	+28 262	16.4	36
2020	01	22.7	18 05	45.319	+17 16	55.52	1.3300	1.0097	49.0	15.8	2.62	15.6	+06 290	16.8	36
2020	01	22.8	18 05	52.455	+17 22	59.79	1.3280	1.0102	49.1	15.8	2.63	15.8	-12 320	17.2	36
2020	01	22.9	18 05	59.694	+17 29	05.56	1.3259	1.0106	49.2	15.8	2.65	15.8	-21 354	17.7	36
2020	01	23.0	18 06	06.973	+17 35	12.94	1.3238	1.0110	49.3	15.8	2.66	15.8	-16 030	18.1	36
2020	01	23.1	18 06	14.225	+17 41	21.91	1.3217	1.0115	49.4	15.8	2.67	15.6	+00 061	18.5	36
2020	01	23.2	18 06	21.405	+17 47	32.24	1.3197	1.0119	49.5	15.8	2.67	15.4	+22 088	18.9	36
2020	01	23.3	18 06	28.506	+17 53	43.64	1.3176	1.0123	49.6	15.8	2.68	15.2	+43 121	19.4	36
2020	01	23.4	18 06	35.563	+17 59	55.86	1.3155	1.0128	49.7	15.8	2.68	15.1	+56 171	19.8	36
2020	01	23.5	18 06	42.639	+18 06	08.78	1.3134	1.0132	49.8	15.8	2.69	15.2	+49 227	20.2	35
2020	01	23.6	18 06	49.801	+18 12	22.44	1.3114	1.0137	50.0	15.8	2.69	15.4	+28 264	20.7	35
2020	01	23.7	18 06	57.097	+18 18	37.09	1.3093	1.0141	50.1	15.8	2.71	15.6	+07 291	21.1	35
2020	01	23.8	18 07	04.532	+18 24	53.03	1.3073	1.0146	50.2	15.7	2.72	15.8	-11 321	21.6	35
2020	01	23.9	18 07	12.072	+18 31	10.54	1.3052	1.0150	50.3	15.7	2.73	15.9	-20 355	22.1	35
2020	01	24.0	18 07	19.654	+18 37	29.77	1.3031	1.0155	50.4	15.7	2.74	15.8	-15 031	22.6	35
2020	01	24.1	18 07	27.208	+18 43	50.65	1.3011	1.0160	50.5	15.7	2.75	15.6	+01 061	23.1	35
2020	01	24.2	18 07	34.690	+18 50	12.97	1.2990	1.0164	50.6	15.7	2.76	15.4	+23 088	23.6	35
2020	01	24.3	18 07	42.093	+18 56	36.40	1.2969	1.0169	50.7	15.7	2.76	15.2	+44 121	24.1	35
2020	01	24.4	18 07	49.453	+19 03	00.66	1.2948	1.0174	50.8	15.7	2.77	15.2	+57 172	24.6	35
2020	01	24.5	18 07	56.835	+19 09	25.64	1.2928	1.0178	50.9	15.7	2.77	15.3	+49 229	25.1	35
2020	01	24.6	18 08	04.308	+19 15	51.39	1.2907	1.0183	51.0	15.7	2.78	15.5	+29 265	25.6	35
2020	01	24.7	18 08	11.919	+19 22	18.17	1.2887	1.0188	51.1	15.7	2.79	15.7	+07 293	26.1	35