

低軌道衛星通過予報 for 9M4SDX, SPRATLY Island (Pulau LAYANG LAYANG)

Edited by Nobutaka Tone, JK2XXK
Ver.2.0 (2007年3月13日)

左のカラムは9M4SDX (GL : 0J67wi) における通過予報、右のカラムはJK2XXK/2 (岐阜県中津川市、GL : PM85rm) における通過予報です

9M4SDXにおける通過予報では、MELが5度未満となるパスはリストから外しています

<New> 北東から南方面へは建物があるとのことなので、この方角に衛星が来るパスでは交信そのものが困難だと思われま

<New> TS -2000のサテライトモードでトーンが入らないロットを持参しているため、トーンが要る S0 -50 をリストから外しました

<New> V0 -52は 9M0~JA のウィンドウが約4分以下と短く、またウィンドウの長いパスは9M0側の都合 (建物が邪魔) によりNGなので、V0 -52 をリストから外しました

9M4SDXにおける通過予報では

反転文字のパス JAとの良好なウィンドウがあるパス (衛星が建物の影にほとんど入らない、が絶対条件)

斜字体の時刻 JAとのウィンドウが開いていることを示す

取消線のあるパス 建物が邪魔して使えないパス

左から順に「年月日」「衛星名」「AOS時刻」「MEL時刻」「LOS時刻」「パスの時間」「AOS方位角」「MEL方位角」「LOS方位角」「MEL時の仰角」「衛星と日照の関係」「オービット番号」

JK2XXK/2における通過予報では

斜字体の時刻 9M4SDXとのウィンドウが開いていることを示す

通過時刻はすべて「JST」表記 (UTC + 9.00h) ですのでご注意ください

	FO -29 (SSB/CW)	AO -51 (FM)	AO -27 (FM)
UpLink	145.900 ~ 146.000	145.920 (No Tone)	145.850 (No Tone)
DownLink	435.900 ~ 435.800	435.300	436.795
Beacon	435.795		

	TX (Fix)	RX (AOS)	RX (MEL)	RX (LOS)	
FO -29	145.977	435.829	435.823	435.817	FO -29 は左記周波数による送信固定で運用するとのアナウンスがありました (from JE1CKA's BLOG)
AO -51	145.920	435.310	435.300	435.290	
AO -27	145.850	436.805	436.795	436.785	

~~AO -51 は予定表を確認すること (http://www.amsat.org/amsat_new/echo/ControlTeam.php)~~ 期間中は V/Uモード で運用されます
AO -27 は運用時間の制限がある (アナログモードがONになるのは7分間のみ、詳細は <http://www.umbrasi.com/A027/index.shtml>)

Ground Station : Lat/Long 7.373N 113.846E --- OJ67WI
 Time Zone : JST (+9.00 h)

Ground Station : Lat/Long 35.503N 137.482E --- PM85RM
 Time Zone : JST (+9.00 h)

Date (JST)	Time (JST) of			Duration of Pass	Azimuth at			Peak Elev	Vis Orbit	Time (JST) of			Duration of Pass	Azimuth at			Peak Elev	Vis	
	AOS	MEL	LOS		AOS	MEL	LOS			AOS	MEL	LOS		AOS	MEL	LOS			
Wed 14Mar07	FO-29	03:17:21	03:24:40	03:31:45	00:14:24	54	100	145	10.2	VNN 52201	03:04:26	03:14:39	03:25:05	00:20:39	19	99	179	51.6*	VVN
	FO-29	04:59:02	05:09:36	05:19:45	00:20:43	11	282	194	84.8*	VNN 52202	04:49:53	04:59:15	05:09:02	00:19:10	1	294	226	32.2	VVN
	AO-51	09:32:41	09:39:37	09:46:53	00:14:12	18	103	185	61.2*	DDD 14202	09:24:30	09:30:45	09:37:17	00:12:48	357	291	224	24.3	DDD
	FO-29	16:37:49	16:45:20	16:53:34	00:15:45	162	75	353	67.0*	DDD 52209	16:47:20	16:52:48	16:58:45	00:11:25	231	275	319	8.2	DDD
	AO-51	20:29:26	20:35:14	20:40:58	00:11:32	129	76	23	12.5	NNV 14208	20:34:46	20:41:34	20:48:14	00:13:28	195	263	333	26.2	NNV
Thu 15Mar07	FO-29	04:04:58	04:14:54	04:24:20	00:19:22	30	101	171	34.0	VNN 52215	03:54:37	04:04:54	04:15:24	00:20:47	10	286	201	74.2*	VVN
	FO-29	05:49:51	05:59:30	06:09:00	00:19:10	354	286	216	32.0	VNN 52216	05:40:58	05:48:43	05:56:44	00:15:45	352	302	252	14.0	DDD
	AO-51	08:54:13	09:00:25	09:06:53	00:12:40	38	101	164	19.5	DDD 14216	08:44:49	08:51:41	08:58:49	00:14:00	8	287	202	62.6*	DDD
	FO-29	15:44:24	15:50:47	15:57:40	00:13:16	131	72	16	16.3	DDD 52222	15:49:39	15:57:06	16:05:32	00:15:54	195	266	336	30.0	DDD
	AO-27	16:29:53	16:37:17	16:44:36	00:14:43	154	77	0	43.2*	DDD 70209	16:38:37	16:44:08	16:49:46	00:11:09	222	270	319	9.7	DDD
AO-51	21:27:11	21:34:39	21:41:51	00:14:40	163	77	353	69.4*	NNV 14223	21:37:47	21:41:39	21:45:31	00:07:44	238	271	305	4.2	NNV	
Fri 16Mar07	FO-29	03:13:06	03:20:04	03:26:44	00:13:37	56	99	142	8.9	VNN 52228	02:59:50	03:10:07	03:20:25	00:20:35	19	99	177	48.7*	VVN
	FO-29	04:54:30	05:05:05	05:15:05	00:20:35	12	194	193	89.5*	VNN 52229	04:45:08	04:54:47	05:04:35	00:19:27	2	293	224	34.1	VVN
	AO-51	09:52:54	09:59:54	10:07:14	00:14:20	8	279	196	72.5*	DDD 14231	09:45:10	09:50:54	09:56:50	00:11:40	350	294	237	15.3	DDD
	AO-27	16:02:29	16:09:08	16:15:47	00:13:18	138	76	13	20.3	DDD 70223	16:08:56	16:15:35	16:22:22	00:13:26	203	265	330	20.0	DDD
	FO-29	16:33:09	16:40:36	16:48:54	00:15:45	160	76	354	60.8*	DDD 52236	16:42:14	16:48:03	16:54:26	00:12:12	227	274	321	9.6	DDD
AO-51	20:48:47	20:55:31	21:01:59	00:13:12	142	77	12	22.6	NNV 14237	20:55:51	21:01:59	21:08:07	00:12:16	208	266	326	15.9	NNV	
AO-51	22:27:25	22:34:05	22:40:36	00:13:12	195	258	323	21.4	NNN 14238	22:38:50	22:44:40	22:50:38	00:11:48	202	265	329	18.9	NNN	
Sat 17Mar07	FO-29	04:00:31	04:10:18	04:19:32	00:19:01	32	100	169	31.3	VNN 52242	03:49:56	04:00:22	04:10:52	00:20:56	11	285	200	78.1*	VVN
	FO-29	05:45:10	05:54:58	06:04:28	00:19:18	355	286	215	34.2	VNN 52243	05:36:14	05:44:11	05:52:20	00:16:06	353	302	250	15.0	DDD
	AO-51	09:13:58	09:20:42	09:27:45	00:13:48	27	101	176	35.2	DDD 14245	09:05:18	09:11:58	09:18:50	00:13:32	2	287	213	37.4	DDD
	AO-27	15:35:49	15:40:59	15:46:14	00:10:25	119	75	30	8.4	DDD 70237	15:39:51	15:47:10	15:54:29	00:14:39	186	262	338	37.6	DDD
	FO-29	15:39:43	15:46:02	15:52:55	00:13:12	129	73	17	15.1	DDD 52249	15:44:41	15:52:21	16:01:05	00:16:23	192	266	338	32.9	DDD
AO-51	20:11:58	20:16:26	20:20:50	00:08:52	113	75	37	6.0	NNN 14251	20:15:26	20:22:34	20:29:26	00:14:00	184	262	339	40.3*	NNV	
Sun 18Mar07	FO-29	03:08:56	03:15:27	03:21:42	00:12:46	59	99	139	7.5	VNN 52255	02:55:14	03:05:31	03:15:40	00:20:26	20	98	175	45.9*	VVN
	FO-29	04:49:54	05:00:28	05:10:24	00:20:30	13	99	191	84.7*	VNN 52256	04:40:32	04:50:15	05:00:07	00:19:35	3	293	223	36.0	VVN
	AO-51	08:36:05	08:41:33	08:47:13	00:11:08	50	101	152	11.2	DDD 14259	08:25:49	08:32:45	08:40:01	00:14:12	13	100	192	82.5*	DDD
	AO-51	10:13:19	10:20:07	10:27:19	00:14:00	358	283	207	38.9	DDD 14260	10:06:03	10:10:59	10:16:03	00:10:00	343	297	251	9.1	DDD
	FO-29	16:28:28	16:35:51	16:44:18	00:15:49	158	76	356	55.5*	DDD 52263	16:37:08	16:43:18	16:50:07	00:12:59	224	274	324	11.0	DDD
AO-27	16:44:28	16:51:59	16:59:31	00:15:03	162	79	353	66.7*	DDD 70252	16:54:36	16:59:06	17:03:41	00:09:04	234	272	310	5.6	DDD	
AO-51	21:08:36	21:15:48	21:22:43	00:14:08	153	76	1	39.8	NNV 14266	21:17:20	21:22:31	21:27:39	00:10:20	222	269	317	8.8	NNV	
Mon 19Mar07	FO-29	03:56:07	04:05:42	04:14:43	00:18:35	33	100	168	28.8	VNN 52269	03:45:20	03:55:50	04:06:16	00:20:56	11	282	198	82.2*	VVN
	FO-29	05:40:30	05:50:26	05:59:52	00:19:22	356	286	213	36.4	VNN 52270	05:31:29	05:39:39	05:47:57	00:16:28	354	302	248	16.0	DDN
	AO-51	09:33:55	09:40:58	09:48:22	00:14:28	17	103	186	65.6*	DDD 14274	09:25:51	09:32:07	09:38:38	00:12:48	356	291	225	23.5	DDD

9M4SDX (Ground Station : Lat/Long 7.373N 113.846E --- OJ67WI) における各パスの方位角・仰角

時刻はすべて日本標準時 (JST) です

「JST」「Azimuth」「Elev」「Doppler」の4つを押さえておくとい

JST の前に * (アスタリスク) のある時刻は、衛星が建物 (北東 ~ 南の方角を想定) の向こうにあると思われる

このリストを見れば、テモータ役 (hi) のクルーは簡単に Ant の方角を合わせることができると思いますhi

3月14日 (水)

Satellite #24278 : FO-29 [P] (JAS-2) --- Orbit 52200

JST	Azimuth [deg]	Elev [deg]	Range [km]	Sun Ang [deg]	Doppler [kHz]	Loss [dB]	Phs	Md	V
*03:17:25	54.2	0.3	4304.8	113.0	+5.60	157.9	131	J	V
*03:18:40	60.1	2.8	4029.1	111.9	+5.06	157.3	134	J	V
*03:19:55	66.7	5.1	3785.0	110.8	+4.37	156.8	137	J	N
*03:21:10	74.2	7.2	3580.8	109.7	+3.52	156.3	140	J	N
*03:22:25	82.6	8.9	3425.2	108.5	+2.49	155.9	143	J	N
*03:23:40	91.6	9.9	3326.4	107.4	+1.32	155.7	146	J	N
*03:24:55	101.1	10.2	3290.4	106.4	+0.06	155.6	149	J	N
*03:26:10	110.6	9.6	3320.1	105.4	-1.21	155.7	152	J	N

Satellite #24278 : FO-29 [P] (JAS-2) --- Orbit 52201

JST	Azimuth [deg]	Elev [deg]	Range [km]	Sun Ang [deg]	Doppler [kHz]	Loss [dB]	Phs	Md	V
04:59:28	10.9	1.6	4153.7	99.4	+8.59	157.6	120	J	V
05:00:43	10.8	5.9	3711.0	96.5	+8.56	156.6	123	J	V
05:01:58	10.7	11.0	3271.6	93.1	+8.46	155.5	126	J	V
05:03:13	10.4	17.0	2839.9	89.2	+8.25	154.3	129	J	V *
05:04:28	9.9	24.3	2422.9	84.2	+7.88	152.9	132	J	V *
05:05:43	9.0	33.9	2032.3	77.9	+7.20	151.4	135	J	V *
05:06:58	7.2	46.6	1689.5	69.6	+5.97	149.8	138	J	N
05:08:13	2.3	63.9	1431.8	59.4	+3.84	148.4	141	J	N
05:09:28	317.3	83.7	1312.3	49.9	+0.65	147.6	144	J	N
05:10:43	207.5	69.8	1368.7	46.6	-2.77	148.0	147	J	N

Satellite #28375 : A0-51 [+] --- Orbit 14202

JST	Azimuth [deg]	Elev [deg]	Range [km]	Sun Ang [deg]	Doppler [kHz]	Loss [dB]	Phs	Md	V
09:32:47	18.0	0.8	3022.5	99.6	+3.29	145.3	27	D	
09:33:47	19.4	4.8	2618.0	102.8	+3.27	144.1	29	D	
09:34:47	21.3	9.6	2218.1	106.7	+3.22	142.7	32	D	
09:35:47	24.0	15.8	1827.9	111.9	+3.11	141.0	34	D	
09:36:47	28.5	24.1	1457.4	119.2	+2.88	139.0	37	D	
09:37:47	37.1	36.2	1128.4	129.9	+2.40	136.8	40	D	
*09:38:47	58.6	52.7	890.2	144.0	+1.35	134.7	42	D	

Satellite #24278 : FO-29 [P] (JAS-2) --- Orbit 52208

JST	Azimuth [deg]	Elev [deg]	Range [km]	Sun Ang [deg]	Doppler [kHz]	Loss [dB]	Phs	Md	V
*16:45:10	91.0	66.3	923.2	107.9	+0.74	144.5	25	J	D
*16:45:35	61.3	66.2	928.0	108.3	-1.28	144.6	26	J	D
16:46:00	38.1	61.3	966.5	107.9	-3.16	144.9	27	J	D
16:47:15	9.8	41.1	1239.5	103.7	-6.95	147.1	30	J	D
16:48:30	1.2	26.7	1645.6	99.3	-8.56	149.6	33	J	D
16:49:45	357.3	17.1	2107.0	95.7	-9.23	151.7	36	J	D
16:51:00	355.1	10.3	2591.7	92.9	-9.52	153.5	39	J	D
16:52:15	353.7	4.9	3086.0	90.5	-9.62	155.0	42	J	D
16:53:30	352.8	0.5	3583.1	88.4	-9.64	156.3	45	J	D

Satellite #28375 : A0-51 [+] --- Orbit 14208

JST	Azimuth [deg]	Elev [deg]	Range [km]	Sun Ang [deg]	Doppler [kHz]	Loss [dB]	Phs	Md	V
*20:33:53	92.8	11.4	2209.5	5.1	+0.95	142.6	184	N	
*20:34:53	80.8	12.5	2130.3	8.9	+0.32	142.3	186	N	
*20:35:53	68.3	12.3	2132.7	20.8	-0.36	142.3	189	N	
*20:36:53	56.3	11.0	2216.6	32.5	-0.99	142.6	191	N	
20:37:53	45.8	8.7	2373.4	43.2	-1.53	143.2	194	N	
20:38:53	36.8	6.1	2589.5	52.5	-1.96	144.0	197	N	
20:39:53	29.5	3.2	2851.0	60.4	-2.27	144.8	199	N	
20:40:53	23.6	0.4	3145.9	67.0	-2.50	145.7	202	V	

Satellite #24278 : F0-29 [P] (JAS-2) --- Orbit 52215

JST	Azimuth [deg]	Elev [deg]	Range [km]	Sun Ang [deg]	Doppler [kHz]	Loss [dB]	Phs	Md	V
05:50:09	353.0	1.2	4200.3	84.1	+7.87	157.7	121	J V	
05:51:24	349.7	5.0	3799.4	79.4	+7.65	156.8	124	J V	
05:52:39	345.6	9.3	3412.9	73.8	+7.31	155.9	127	J V	
05:53:54	340.2	13.9	3048.7	67.1	+6.78	154.9	130	J V	
05:55:09	333.1	18.9	2717.6	59.0	+6.00	153.9	133	J V *	
05:56:24	323.6	24.0	2435.2	49.2	+4.88	153.0	136	J V *	
05:57:39	311.0	28.6	2221.7	37.4	+3.32	152.2	139	J N	
05:58:54	295.2	31.5	2099.5	24.1	+1.36	151.7	142	J N	

3月15日(木)

Satellite #24278 : F0-29 [P] (JAS-2) --- Orbit 52214

JST	Azimuth [deg]	Elev [deg]	Range [km]	Sun Ang [deg]	Doppler [kHz]	Loss [dB]	Phs	Md	V
04:05:11	30.5	0.7	4255.3	110.7	+7.86	157.8	125	J V	
04:06:26	33.7	4.5	3853.4	109.3	+7.70	157.0	128	J V	
04:07:41	37.7	8.7	3462.5	107.7	+7.43	156.0	131	J V	
04:08:56	42.8	13.3	3089.6	106.0	+7.00	155.0	134	J V	
*04:10:11	49.4	18.4	2744.3	104.2	+6.34	154.0	137	J V *	
*04:11:26	58.2	23.7	2441.1	102.2	+5.35	153.0	140	J N	
*04:12:41	70.2	28.9	2199.6	99.9	+3.93	152.1	143	J N	
*04:13:56	85.9	32.8	2043.8	97.4	+2.03	151.4	146	J N	
*04:15:11	104.2	33.9	1995.4	94.9	-0.19	151.2	149	J N	
*04:16:26	122.0	31.6	2062.8	92.8	-2.39	151.5	152	J N	

Satellite #28375 : A0-51 [+] --- Orbit 14216

JST	Azimuth [deg]	Elev [deg]	Range [km]	Sun Ang [deg]	Doppler [kHz]	Loss [dB]	Phs	Md	V
08:54:17	38.7	0.6	3065.6	121.5	+2.83	145.5	32	D	
08:55:17	43.7	3.8	2725.1	127.3	+2.68	144.4	34	D	
*08:56:17	50.1	7.4	2407.4	134.5	+2.46	143.4	37	D	
*08:57:17	58.4	11.2	2124.5	143.4	+2.11	142.3	40	D	
*08:58:17	69.3	15.0	1893.5	154.6	+1.61	141.3	42	D	
*08:59:17	83.0	18.1	1736.5	168.0	+0.91	140.5	45	D	
*09:00:17	99.0	19.5	1675.0	176.2	+0.07	140.2	47	D	

Satellite #24278 : F0-29 [P] (JAS-2) --- Orbit 52221

JST	Azimuth [deg]	Elev [deg]	Range [km]	Sun Ang [deg]	Doppler [kHz]	Loss [dB]	Phs	Md	V
*15:47:58	106.5	11.3	2370.8	71.4	+4.75	152.7	23	J D	
*15:49:13	92.9	14.6	2175.9	70.9	+2.71	152.0	26	J D	
*15:50:28	77.2	16.2	2098.5	70.8	+0.24	151.7	29	J D	
*15:51:43	61.3	15.8	2151.5	71.0	-2.26	151.9	32	J D	
*15:52:58	47.1	13.4	2325.4	71.6	-4.39	152.6	35	J D	
15:53:23	43.0	12.4	2406.0	71.9	-4.98	152.9	36	J D	
15:53:48	39.2	11.3	2496.1	72.1	-5.50	153.2	37	J D	
15:55:03	29.6	7.7	2813.4	72.5	-6.72	154.2	40	J D	
15:56:18	22.2	4.0	3182.5	72.7	-7.53	155.3	43	J D	
15:57:33	16.5	0.6	3585.4	72.7	-8.05	156.3	46	J D	

Satellite #22825 : A0-27 [+] (EYESAT-A) --- Orbit 70209

JST	Azimuth [deg]	Elev [deg]	Range [km]	Sun Ang [deg]	Doppler [kHz]	Loss [dB]	Phs	Md	V
*16:37:38	66.7	42.8	1112.7	86.7	-1.24	146.2	140	J	D
*16:38:18	47.9	39.0	1180.7	86.9	-3.65	146.7	141	J	D
16:38:38	40.3	36.2	1237.9	87.0	-4.66	147.1	142	J	D
16:39:38	24.2	27.4	1479.4	86.8	-6.86	148.7	145	J	D
16:40:38	14.8	19.6	1789.9	86.3	-8.10	150.3	147	J	D
16:41:38	8.9	13.3	2138.7	85.6	-8.78	151.9	150	J	D
16:42:38	5.0	8.2	2509.0	84.7	-9.16	153.2	152	J	D
16:43:38	2.1	4.0	2891.2	83.8	-9.38	154.5	155	J	D
16:44:38	0.0	0.3	3280.0	82.9	-9.49	155.6	157	J	D

Satellite #24278 : F0-29 [P] (JAS-2) --- Orbit 52228

JST	Azimuth [deg]	Elev [deg]	Range [km]	Sun Ang [deg]	Doppler [kHz]	Loss [dB]	Phs	Md	V
04:54:37	12.2	0.6	4267.3	101.7	+8.60	157.8	123	J	V
04:55:52	12.3	4.8	3823.7	99.0	+8.59	156.9	126	J	V
04:57:07	12.4	9.6	3382.3	95.9	+8.51	155.8	129	J	V
04:58:22	12.6	15.3	2946.9	92.3	+8.35	154.6	132	J	V *
04:59:37	12.7	22.3	2523.6	87.9	+8.03	153.3	135	J	V *
05:00:52	12.8	31.1	2122.5	82.3	+7.46	151.8	138	J	V *
05:02:07	12.8	43.0	1761.9	75.0	+6.42	150.2	141	J	N
05:03:22	12.9	59.3	1474.5	65.7	+4.55	148.6	144	J	N
05:04:37	12.8	80.6	1312.0	55.9	+1.57	147.6	147	J	N
05:05:52	193.1	75.8	1322.6	50.5	-1.97	147.7	150	J	N

Satellite #28375 : A0-51 [+] --- Orbit 14223

JST	Azimuth [deg]	Elev [deg]	Range [km]	Sun Ang [deg]	Doppler [kHz]	Loss [dB]	Phs	Md	V
21:35:42	18.7	53.4	922.8	56.2	-1.65	135.0	190	N	
21:36:42	4.7	35.7	1187.7	70.6	-2.54	137.2	192	N	
21:37:42	359.3	23.8	1528.0	80.1	-2.94	139.4	195	N	
21:38:42	356.5	15.6	1902.9	86.5	-3.13	141.3	198	N	
21:39:42	354.8	9.5	2294.6	91.1	-3.22	142.9	200	N	
21:40:42	353.6	4.7	2694.5	94.7	-3.27	144.3	203	V	
21:41:42	352.9	0.7	3098.3	97.5	-3.28	145.6	205	V	

Satellite #28375 : A0-51 [+] --- Orbit 14231

JST	Azimuth [deg]	Elev [deg]	Range [km]	Sun Ang [deg]	Doppler [kHz]	Loss [dB]	Phs	Md	V
09:53:06	7.8	1.2	2994.2	90.8	+3.31	145.3	30	D	
09:54:06	7.1	5.2	2586.8	92.6	+3.30	144.0	33	D	
09:55:06	6.1	10.2	2183.4	94.6	+3.25	142.5	35	D	
09:56:06	4.5	16.6	1788.9	97.0	+3.15	140.8	38	D	
09:57:06	1.9	25.6	1412.9	100.1	+2.93	138.7	41	D	
09:58:06	356.2	39.1	1077.1	103.9	+2.45	136.4	43	D	

3月16日(木)

Satellite #24278 : F0-29 [P] (JAS-2) --- Orbit 52227

JST	Azimuth [deg]	Elev [deg]	Range [km]	Sun Ang [deg]	Doppler [kHz]	Loss [dB]	Phs	Md	V
*03:13:24	57.5	0.7	4256.5	113.0	+5.29	157.8	136	J	V
*03:14:39	63.6	3.0	3998.4	111.9	+4.69	157.3	139	J	V
*03:15:54	70.5	5.1	3774.9	110.7	+3.94	156.8	142	J	N
*03:17:09	78.2	6.9	3594.3	109.6	+3.03	156.3	145	J	N
*03:18:24	86.7	8.2	3464.7	108.4	+1.97	156.0	148	J	N
*03:19:39	95.7	8.8	3393.1	107.2	+0.79	155.8	151	J	N
*03:20:54	105.0	8.7	3384.3	106.1	-0.45	155.8	154	J	N
*03:22:09	114.1	7.9	3439.3	105.1	-1.67	156.0	157	J	N

Satellite #22825 : A0-27 [+] (EYESAT-A) --- Orbit 70223

JST	Azimuth [deg]	Elev [deg]	Range [km]	Sun Ang [deg]	Doppler [kHz]	Loss [dB]	Phs	Md	V
*16:08:38	84.3	20.0	1775.7	70.3	+1.36	150.2	141	J	D
*16:09:38	68.7	20.1	1769.8	70.5	-1.08	150.2	143	J	D
*16:10:38	54.0	18.2	1862.2	71.2	-3.35	150.7	146	J	D
16:11:38	41.6	14.9	2039.3	72.1	-5.17	151.4	148	J	D
16:12:38	31.9	11.2	2281.1	72.9	-6.49	152.4	151	J	D
16:13:38	24.4	7.5	2568.6	73.5	-7.41	153.4	153	J	D
16:14:38	18.7	4.0	2887.4	73.8	-8.03	154.5	156	J	D
16:15:38	14.1	0.8	3227.2	73.9	-8.44	155.4	158	J	D

Satellite #24278 : FO-29 [P] (JAS-2) --- Orbit 52235

JST	Azimuth [deg]	Elev [deg]	Range [km]	Sun Ang [deg]	Doppler [kHz]	Loss [dB]	Phs	Md	V
16:41:34	35.4	53.3	1065.8	103.1	-4.07	145.8	32	J	D
16:41:59	24.9	47.4	1147.5	102.2	-5.39	146.4	33	J	D
16:42:24	17.7	41.7	1249.4	101.2	-6.42	147.2	34	J	D
16:43:39	6.1	27.8	1633.9	97.8	-8.24	149.5	37	J	D
16:44:54	0.7	18.2	2082.1	94.9	-9.03	151.6	40	J	D
16:46:09	357.7	11.2	2558.0	92.4	-9.38	153.4	43	J	D
16:47:24	355.8	5.7	3046.1	90.2	-9.52	154.9	46	J	D
16:48:39	354.4	1.3	3538.5	88.2	-9.56	156.2	49	J	D

Satellite #28375 : AO-51 [+] --- Orbit 14237

JST	Azimuth [deg]	Elev [deg]	Range [km]	Sun Ang [deg]	Doppler [kHz]	Loss [dB]	Phs	Md	V
*20:54:52	88.0	22.1	1614.1	3.0	+0.64	139.9	189	N	
*20:55:52	70.5	22.4	1591.3	19.0	-0.28	139.8	192	N	
*20:56:52	53.9	20.2	1679.8	34.6	-1.14	140.2	194	N	
20:57:52	40.2	16.3	1863.7	48.0	-1.81	141.1	197	N	
20:58:52	30.0	12.0	2117.9	58.9	-2.28	142.3	199	N	
20:59:52	22.3	7.8	2419.8	67.4	-2.59	143.4	202	N	
21:00:52	16.6	4.0	2752.8	74.1	-2.80	144.5	205	V	
21:01:52	12.2	0.6	3106.1	79.5	-2.93	145.6	207	V	

Satellite #28375 : AO-51 [+] --- Orbit 14238

JST	Azimuth [deg]	Elev [deg]	Range [km]	Sun Ang [deg]	Doppler [kHz]	Loss [dB]	Phs	Md	V
22:37:50	307.6	10.0	2266.4	117.0	-2.34	142.8	197	N	
22:38:30	312.5	7.4	2466.6	117.0	-2.53	143.6	199	N	
22:39:30	318.4	3.8	2791.3	117.2	-2.73	144.7	201	N	
22:40:30	323.0	0.5	3135.9	117.3	-2.86	145.7	204	N	

3月17日 (土)

Satellite #24278 : FO-29 [P] (JAS-2) --- Orbit 52241

JST	Azimuth [deg]	Elev [deg]	Range [km]	Sun Ang [deg]	Doppler [kHz]	Loss [dB]	Phs	Md	V
04:00:45	31.9	0.7	4256.5	111.9	+7.78	157.8	129	J	V
04:02:00	35.4	4.4	3859.5	110.4	+7.60	157.0	132	J	V
04:03:15	39.6	8.5	3474.5	108.9	+7.30	156.1	135	J	V
04:04:30	44.9	12.9	3108.8	107.2	+6.84	155.1	138	J	V
*04:04:55	47.0	14.5	2992.8	106.6	+6.64	154.8	139	J	V
*04:06:10	54.6	19.4	2669.2	104.8	+5.85	153.8	142	J	N
*04:07:25	64.6	24.3	2395.4	102.7	+4.69	152.8	145	J	N
*04:08:40	77.8	28.6	2192.4	100.4	+3.10	152.1	148	J	N
*04:09:55	93.9	31.1	2082.8	97.8	+1.09	151.6	151	J	N
*04:11:10	111.3	30.7	2082.7	95.4	-1.09	151.6	154	J	N
*04:12:00	122.2	28.9	2144.5	94.1	-2.48	151.9	156	J	N

Satellite #24278 : FO-29 [P] (JAS-2) --- Orbit 52242

JST	Azimuth [deg]	Elev [deg]	Range [km]	Sun Ang [deg]	Doppler [kHz]	Loss [dB]	Phs	Md	V
05:45:18	354.8	0.5	4276.1	86.9	+8.01	157.9	125	J	V
05:46:33	351.9	4.4	3867.0	82.5	+7.83	157.0	128	J	V
05:47:48	348.1	8.6	3469.6	77.3	+7.55	156.0	131	J	V
05:49:03	343.3	13.3	3091.0	71.0	+7.10	155.0	134	J	V
05:50:18	336.9	18.4	2741.2	63.3	+6.42	154.0	137	J	V *
05:51:33	328.1	23.8	2434.5	53.9	+5.40	153.0	140	J	V *
05:52:48	316.1	29.1	2191.2	42.4	+3.95	152.0	143	J	N
05:53:38	306.0	32.0	2076.2	33.7	+2.71	151.6	145	J	N

Satellite #28375 : AO-51 [+] --- Orbit 14245

JST	Azimuth [deg]	Elev [deg]	Range [km]	Sun Ang [deg]	Doppler [kHz]	Loss [dB]	Phs	Md	V
09:13:56	27.0	0.4	3091.4	109.8	+3.14	145.5	34	D	
09:14:56	30.1	4.1	2707.6	114.2	+3.08	144.4	36	D	
09:15:56	34.2	8.4	2334.0	119.7	+2.97	143.1	39	D	
09:16:56	39.9	13.5	1978.5	126.8	+2.78	141.7	42	D	
*09:17:56	48.3	19.7	1654.8	136.4	+2.44	140.1	44	D	
*09:18:56	61.4	26.8	1387.1	149.6	+1.85	138.6	47	D	
*09:19:56	81.7	33.2	1214.3	166.2	+0.89	137.4	49	D	

Satellite #22825 : A0 -27 [+] (EYESAT -A) --- Orbit 70237

JST	Azimuth [deg]	Elev [deg]	Range [km]	Sun Ang [deg]	Doppler [kHz]	Loss [dB]	Phs	Md	V
*15:39:11	93.6	7.0	2618.5	65.9	+3.04	153.6	141	J	D
*15:40:11	83.7	8.1	2524.3	65.5	+1.51	153.3	143	J	D
*15:41:11	73.2	8.4	2496.2	65.3	-0.15	153.2	146	J	D
*15:42:11	62.9	7.9	2536.7	65.4	-1.80	153.3	148	J	D
*15:43:11	53.1	6.7	2642.9	65.7	-3.32	153.7	151	J	D
15:44:11	44.4	4.9	2806.9	66.2	-4.61	154.2	153	J	D
15:45:11	36.8	2.7	3019.1	66.7	-5.65	154.9	156	J	D
15:46:11	30.4	0.4	3269.3	67.1	-6.46	155.5	158	J	D

Satellite #24278 : F0 -29 [P] (JAS -2) --- Orbit 52248

JST	Azimuth [deg]	Elev [deg]	Range [km]	Sun Ang [deg]	Doppler [kHz]	Loss [dB]	Phs	Md	V
*15:43:07	106.2	10.1	2489.5	70.9	+4.71	153.2	27	J	D
*15:44:22	93.4	13.2	2293.6	70.7	+2.80	152.4	30	J	D
*15:45:37	78.7	14.9	2207.3	70.7	+0.50	152.1	33	J	D
*15:46:52	63.6	14.8	2243.6	71.1	-1.88	152.3	36	J	D
*15:48:07	49.8	12.9	2396.4	71.7	-3.97	152.8	39	J	D
15:48:32	45.7	12.0	2469.7	71.9	-4.56	153.1	40	J	D
15:48:57	41.8	11.0	2552.7	72.1	-5.09	153.4	41	J	D
15:50:12	32.0	7.7	2850.0	72.6	-6.36	154.3	44	J	D
15:51:27	24.4	4.2	3202.0	72.9	-7.23	155.3	47	J	D
15:52:42	18.4	0.9	3590.5	72.9	-7.80	156.3	50	J	D

Satellite #28375 : A0 -51 [+] --- Orbit 14251

JST	Azimuth [deg]	Elev [deg]	Range [km]	Sun Ang [deg]	Doppler [kHz]	Loss [dB]	Phs	Md	V
*20:14:42	92.0	4.9	2720.6	6.1	+0.96	144.4	190	N	
*20:15:42	82.5	5.8	2632.6	9.0	+0.46	144.1	193	N	
*20:16:42	72.5	5.9	2608.7	18.0	-0.08	144.1	195	N	
*20:17:42	62.6	5.4	2651.1	27.8	-0.61	144.2	198	N	
*20:18:42	53.3	4.2	2756.7	37.2	-1.10	144.5	200	N	
*20:19:42	44.9	2.5	2918.7	45.8	-1.52	145.0	203	N	
20:20:42	37.5	0.5	3127.8	53.5	-1.86	145.6	205	N	

3月18日 (日)

Satellite #24278 : F0 -29 [P] (JAS -2) --- Orbit 52254

JST	Azimuth [deg]	Elev [deg]	Range [km]	Sun Ang [deg]	Doppler [kHz]	Loss [dB]	Phs	Md	V
*03:09:23	60.8	0.9	4216.8	113.0	+4.96	157.7	141	J	V
*03:10:38	67.2	3.0	3977.3	111.8	+4.30	157.2	144	J	N
*03:11:53	74.3	4.9	3775.3	110.6	+3.50	156.8	147	J	N
*03:13:08	82.3	6.3	3618.9	109.4	+2.54	156.4	150	J	N
*03:14:23	90.8	7.3	3515.5	108.1	+1.45	156.2	153	J	N
*03:15:38	99.7	7.5	3471.0	106.9	+0.27	156.0	156	J	N
*03:16:53	108.7	7.1	3488.4	105.8	-0.94	156.1	159	J	N

Satellite #24278 : F0 -29 [P] (JAS -2) --- Orbit 52255

JST	Azimuth [deg]	Elev [deg]	Range [km]	Sun Ang [deg]	Doppler [kHz]	Loss [dB]	Phs	Md	V
04:50:11	13.4	0.9	4234.3	103.1	+8.61	157.8	128	J	V
04:51:26	13.8	5.1	3790.2	100.6	+8.60	156.8	131	J	V
04:52:41	14.2	10.0	3348.4	97.6	+8.52	155.7	134	J	V
04:53:56	14.7	15.7	2912.7	94.1	+8.35	154.5	137	J	V *
04:55:11	15.4	22.7	2489.4	89.8	+8.03	153.2	140	J	V *
04:56:26	16.3	31.8	2089.0	84.4	+7.43	151.6	143	J	V *
04:57:41	18.0	43.8	1730.8	77.4	+6.35	150.0	146	J	N
04:58:56	22.1	60.4	1449.2	68.5	+4.39	148.5	149	J	N
04:59:46	31.4	74.0	1330.0	62.1	+2.45	147.7	151	J	N
*05:00:11	47.7	80.9	1297.6	59.3	+1.31	147.5	152	J	N
*05:00:36	109.1	84.8	1285.4	56.9	+0.10	147.4	153	J	N
*05:01:01	161.7	80.0	1294.1	55.3	-1.11	147.5	154	J	N
*05:01:26	175.5	72.8	1323.2	54.4	-2.27	147.7	155	J	N

Satellite #28375 : A0 -51 [+] --- Orbit 14259

JST	Azimuth [deg]	Elev [deg]	Range [km]	Sun Ang [deg]	Doppler [kHz]	Loss [dB]	Phs	Md	V
*08:36:06	50.1	0.4	3108.9	134.7	+2.40	145.6	41	D	
*08:37:06	56.5	3.1	2827.4	141.5	+2.16	144.8	43	D	
*08:38:06	64.2	5.7	2580.7	149.5	+1.83	144.0	46	D	
*08:39:06	73.4	8.2	2380.8	158.8	+1.39	143.3	49	D	
*08:40:06	84.1	10.1	2241.5	168.8	+0.85	142.7	51	D	
*08:41:06	95.9	11.1	2175.0	173.8	+0.22	142.5	54	D	

Satellite #28375 : A0-51 [+] --- Orbit 14260

JST	Azimuth [deg]	Elev [deg]	Range [km]	Sun Ang [deg]	Doppler [kHz]	Loss [dB]	Phs	Md	V
10:13:24	357.9	0.6	3064.5	82.7	+3.20	145.5	34	D	
10:14:24	355.2	4.4	2673.7	83.2	+3.14	144.3	37	D	
10:15:24	351.6	8.9	2292.5	83.6	+3.04	142.9	39	D	
10:16:24	346.4	14.3	1928.4	83.7	+2.85	141.4	42	D	
10:17:24	338.4	21.0	1595.0	83.3	+2.52	139.8	44	D	

Satellite #24278 : F0-29 [P] (JAS-2) --- Orbit 52262

JST	Azimuth [deg]	Elev [deg]	Range [km]	Sun Ang [deg]	Doppler [kHz]	Loss [dB]	Phs	Md	V
*16:36:10	66.4	55.1	1056.7	99.4	-1.23	145.7	34	J	D
*16:36:35	50.2	52.5	1092.3	99.6	-2.87	146.0	35	J	D
16:37:00	37.4	48.2	1154.3	99.4	-4.31	146.5	36	J	D
16:38:15	16.2	34.0	1458.4	97.5	-7.14	148.5	39	J	D
16:39:30	6.9	23.0	1865.2	95.1	-8.46	150.6	42	J	D
16:40:45	1.9	15.0	2318.9	92.8	-9.06	152.5	45	J	D
16:41:35	359.7	10.8	2634.2	91.4	-9.26	153.6	47	J	D
16:42:50	357.4	5.5	3116.7	89.5	-9.42	155.1	50	J	D
16:44:05	355.8	1.1	3604.0	87.7	-9.46	156.4	53	J	D

Satellite #22825 : A0-27 [+] (EYESAT-A) --- Orbit 70252

JST	Azimuth [deg]	Elev [deg]	Range [km]	Sun Ang [deg]	Doppler [kHz]	Loss [dB]	Phs	Md	V
16:53:26	16.1	47.3	1042.6	104.8	-5.79	145.6	148	J	D
16:54:26	5.0	32.4	1328.6	101.4	-7.85	147.7	151	J	D
16:55:26	359.9	22.1	1674.4	98.3	-8.82	149.7	153	J	D
16:56:26	357.1	14.7	2048.8	95.8	-9.31	151.5	156	J	D
16:57:26	355.4	9.1	2437.6	93.6	-9.55	153.0	158	J	D
16:58:26	354.2	4.5	2833.7	91.7	-9.67	154.3	161	J	D
16:59:26	353.3	0.7	3233.1	90.0	-9.72	155.4	163	J	D

Satellite #28375 : A0-51 [+] --- Orbit 14266

JST	Azimuth [deg]	Elev [deg]	Range [km]	Sun Ang [deg]	Doppler [kHz]	Loss [dB]	Phs	Md	V
*21:16:30	55.6	37.5	1142.6	33.2	-0.93	136.9	196	N	
21:17:30	34.0	29.7	1322.7	51.2	-1.93	138.2	199	N	
21:18:30	21.1	21.5	1600.0	64.6	-2.52	139.8	201	N	
21:19:30	13.2	14.7	1932.5	74.1	-2.85	141.5	204	N	
21:20:30	8.1	9.2	2295.4	81.0	-3.03	143.0	206	N	
21:21:30	4.6	4.7	2675.4	86.2	-3.13	144.3	209	V	
21:22:30	2.0	0.9	3065.0	90.4	-3.19	145.5	212	V	

3月19日 (月)

Satellite #24278 : F0-29 [P] (JAS-2) --- Orbit 52268

JST	Azimuth [deg]	Elev [deg]	Range [km]	Sun Ang [deg]	Doppler [kHz]	Loss [dB]	Phs	Md	V
03:56:11	33.0	0.3	4302.3	113.1	+7.71	157.9	133	J	V
03:57:26	36.6	3.9	3909.1	111.7	+7.52	157.1	136	J	V
03:58:41	40.9	7.8	3528.4	110.2	+7.22	156.2	139	J	V
03:59:31	44.4	10.6	3285.0	109.1	+6.93	155.6	141	J	V
*03:59:56	46.4	12.0	3167.4	108.6	+6.75	155.2	142	J	V
*04:01:11	53.3	16.5	2836.1	106.8	+6.05	154.3	145	J	V *
*04:02:26	62.4	21.1	2548.7	104.9	+5.03	153.4	148	J	N
*04:03:41	74.2	25.3	2324.0	102.6	+3.61	152.6	151	J	N
*04:04:56	88.7	28.1	2183.3	100.2	+1.78	152.0	154	J	N
*04:06:11	105.0	28.7	2144.7	97.6	-0.31	151.9	157	J	N
*04:07:26	120.9	26.6	2214.6	95.4	-2.37	152.1	160	J	N

Satellite #24278 : F0 -29 [P] (JAS -2) --- Orbit 52269

JST	Azimuth [deg]	Elev [deg]	Range [km]	Sun Ang [deg]	Doppler [kHz]	Loss [dB]	Phs	Md	V
05:40:44	356.0	0.7	4261.6	88.9	+8.11	157.8	129	J	V
05:41:59	353.2	4.5	3846.7	84.5	+7.96	156.9	132	J	V
05:43:14	349.7	8.8	3442.3	79.4	+7.70	156.0	135	J	V
05:44:29	345.2	13.6	3055.2	73.3	+7.28	154.9	138	J	V
05:45:44	339.0	19.0	2695.1	65.7	+6.63	153.8	141	J	V *
05:46:59	330.4	24.8	2376.6	56.3	+5.65	152.8	144	J	V *
05:48:14	318.3	30.5	2120.7	44.7	+4.19	151.8	147	J	N
05:49:29	301.9	35.0	1953.6	31.0	+2.20	151.1	150	J	N

Satellite #28375 : A0 -51 [+] --- Orbit 14274

JST	Azimuth [deg]	Elev [deg]	Range [km]	Sun Ang [deg]	Doppler [kHz]	Loss [dB]	Phs	Md	V
09:33:55	16.7	0.3	3107.8	100.0	+3.29	145.6	37	D	
09:34:55	17.9	4.2	2703.2	103.0	+3.27	144.4	39	D	
09:35:55	19.4	8.9	2302.2	106.6	+3.23	143.0	42	D	
09:36:55	21.5	14.8	1909.3	111.2	+3.14	141.4	44	D	
09:37:55	24.9	22.7	1532.8	117.6	+2.95	139.4	47	D	
09:38:55	31.2	34.2	1190.4	126.8	+2.55	137.2	50	D	
*09:39:55	46.6	51.1	923.0	139.3	+1.67	135.0	52	D	