

Orbcomm View Satellite Pass Times
 All Passes of All Satellites in Chronological Order
 Observer: Fukuoka, Japan Time zone: UTC +9 Mask Elev: 5-

Satellite	Date	AOS Time	LOS Time	Duration	Interval Between	AOS Az	Max El	LOS Az	Orbit num.
S3 (42)	21/11/30	13:48:18	13:58:29	00:10:10	11:54:47	313-	19-	65-	39437
T1 (28)	21/11/30	13:58:30	14:07:52	00:09:22	-----	180-	16-	79-	39234
S4 (29)	21/11/30	14:21:11	14:31:51	00:10:39	00:13:19	315-	22-	76-	39354
S1 (46)	21/11/30	14:23:05	14:33:49	00:01:58	-----	315-	23-	77-	39355
K6 (26)	21/11/30	14:29:07	14:38:43	00:04:53	-----	184-	18-	77-	39365
T2 (40)	21/11/30	14:30:20	14:41:33	00:02:49	-----	200-	30-	67-	39319
S2 (43)	21/11/30	14:56:44	15:08:06	00:11:21	00:15:11	315-	29-	90-	39443
T4 (44)	21/11/30	15:03:58	15:16:03	00:07:57	-----	216-	52-	60-	39322
S3 (42)	21/11/30	15:32:10	15:44:08	00:11:58	00:16:06	313-	42-	104-	39438
T1 (28)	21/11/30	15:40:14	15:52:36	00:08:28	-----	234-	86-	53-	39235
S4 (29)	21/11/30	16:04:50	16:17:09	00:12:18	00:12:13	310-	63-	117-	39355
S1 (46)	21/11/30	16:06:43	16:19:03	00:01:54	-----	309-	67-	119-	39356
K6 (26)	21/11/30	16:10:27	16:22:34	00:03:31	-----	237-	78-	52-	39366
T2 (40)	21/11/30	16:13:24	16:25:35	00:03:01	-----	249-	53-	49-	39320
S2 (43)	21/11/30	16:40:22	16:52:41	00:12:19	00:14:46	304-	74-	134-	39444
T4 (44)	21/11/30	16:48:01	16:59:46	00:07:04	-----	262-	36-	46-	39323
S3 (42)	21/11/30	17:16:00	17:27:46	00:11:46	00:16:13	296-	40-	151-	39439
T1 (28)	21/11/30	17:25:11	17:36:13	00:08:26	-----	278-	25-	45-	39236
S4 (29)	21/11/30	17:49:06	17:59:48	00:10:42	00:12:52	288-	24-	167-	39356
S1 (46)	21/11/30	17:51:04	18:01:31	00:01:43	-----	286-	22-	170-	39357
K6 (26)	21/11/30	17:54:49	18:05:25	00:03:54	-----	280-	23-	44-	39367
T2 (40)	21/11/30	17:58:53	18:09:18	00:03:52	-----	290-	20-	46-	39321
S2 (43)	21/11/30	18:25:41	18:33:34	00:07:53	00:16:23	271-	12-	193-	39445
T4 (44)	21/11/30	18:33:46	18:43:46	00:10:00	00:00:11	300-	18-	49-	39324
T1 (28)	21/11/30	19:10:51	19:20:44	00:09:52	00:27:05	309-	17-	56-	39237
K9 (39)	21/11/30	19:26:43	19:33:23	00:06:40	00:05:58	158-	9-	94-	38350
K6 (26)	21/11/30	19:39:47	19:49:15	00:09:27	00:06:24	310-	17-	56-	39368
T2 (40)	21/11/30	19:44:13	19:54:22	00:05:06	-----	313-	19-	65-	39322
K7 (37)	21/11/30	19:59:01	20:08:47	00:09:45	00:04:39	182-	18-	77-	38350
T4 (44)	21/11/30	20:18:37	20:29:15	00:10:38	00:09:50	315-	22-	76-	39325
K3 (33)	21/11/30	20:32:43	20:44:07	00:11:23	00:03:27	202-	32-	66-	38351
T1 (28)	21/11/30	20:55:08	21:06:30	00:11:21	00:11:00	315-	29-	90-	39238
K9 (39)	21/11/30	21:06:57	21:19:11	00:12:14	00:00:27	222-	63-	58-	38351
K6 (26)	21/11/30	21:23:17	21:34:16	00:11:00	00:04:05	316-	29-	90-	39369
T2 (40)	21/11/30	21:28:05	21:40:02	00:05:45	-----	313-	41-	103-	39323
K4 (24)	21/11/30	21:36:45	21:47:36	00:07:34	-----	195-	26-	69-	38501
K7 (37)	21/11/30	21:41:01	21:53:23	00:05:46	-----	236-	80-	53-	38351
T4 (44)	21/11/30	22:02:16	22:14:33	00:12:17	00:08:53	310-	63-	117-	39326
K3 (33)	21/11/30	22:15:58	22:28:05	00:12:07	00:01:24	251-	50-	49-	38352
T1 (28)	21/11/30	22:38:45	22:51:05	00:12:19	00:10:39	304-	74-	134-	39239
K9 (39)	21/11/30	22:51:18	23:02:50	00:11:32	00:00:13	267-	32-	46-	38352
K6 (26)	21/11/30	23:06:11	23:18:02	00:11:51	00:03:20	303-	70-	135-	39370
T2 (40)	21/11/30	23:11:54	23:23:44	00:05:41	-----	297-	42-	150-	39324
K4 (24)	21/11/30	23:19:41	23:31:51	00:08:06	-----	246-	58-	50-	38502
K7 (37)	21/11/30	23:26:03	23:37:00	00:05:08	-----	280-	24-	45-	38352
T3 (25)	21/11/30	23:45:58	23:51:35	00:05:36	00:08:58	154-	8-	103-	38308
T4 (44)	21/11/30	23:46:31	23:57:12	00:05:37	-----	288-	24-	167-	39327
K3 (33)	21/12/01	00:01:30	00:11:50	00:10:20	00:04:17	292-	20-	47-	38353

Satellite	Date	AOS Time	LOS Time	Duration	Interval Between	AOS Az	Max El	LOS Az	Orbit num.
R3 (45)	21/12/01	00:20:07	00:30:39	00:10:31	00:08:16	191-	24-	71-	39513
T1 (28)	21/12/01	00:24:05	00:31:56	00:01:17	-----	271-	12-	192-	39240
K9 (39)	21/12/01	00:37:04	00:46:59	00:09:54	00:05:07	303-	18-	51-	38353
K6 (26)	21/12/01	00:51:02	00:57:57	00:06:55	00:04:02	267-	10-	197-	39371
K4 (24)	21/12/01	01:05:11	01:15:37	00:10:25	00:07:13	288-	21-	46-	38503
K7 (37)	21/12/01	01:11:42	01:21:35	00:05:58	-----	309-	17-	57-	38353
T3 (25)	21/12/01	01:26:16	01:38:51	00:12:34	00:04:41	217-	55-	59-	38309
K3 (33)	21/12/01	01:46:47	01:56:58	00:10:11	00:07:55	314-	19-	67-	38354
R1 (47)	21/12/01	01:57:57	02:08:17	00:10:20	00:00:58	187-	21-	73-	39479
R3 (45)	21/12/01	02:02:28	02:14:37	00:06:19	-----	243-	63-	50-	39514
K9 (39)	21/12/01	02:21:45	02:32:35	00:10:50	00:07:07	316-	24-	80-	38354
R2 (38)	21/12/01	02:47:16	02:59:16	00:12:00	00:14:41	213-	48-	60-	40551
K4 (24)	21/12/01	02:50:41	03:00:40	00:01:24	-----	313-	18-	63-	38504
K7 (37)	21/12/01	02:55:54	03:07:21	00:06:40	-----	315-	30-	92-	38354
T3 (25)	21/12/01	03:11:14	03:23:25	00:12:11	00:03:53	263-	36-	47-	38310
K3 (33)	21/12/01	03:30:36	03:42:36	00:11:59	00:07:10	313-	44-	105-	38355
R1 (47)	21/12/01	03:40:19	03:52:40	00:10:04	-----	240-	69-	51-	39480
R3 (45)	21/12/01	03:47:29	03:57:58	00:05:18	-----	286-	22-	45-	39515
K9 (39)	21/12/01	04:05:22	04:17:42	00:12:20	00:07:23	308-	74-	122-	38355
R2 (38)	21/12/01	04:31:12	04:43:00	00:11:48	00:13:29	261-	37-	47-	40552
K4 (24)	21/12/01	04:34:42	04:46:30	00:03:29	-----	314-	38-	101-	38505
K7 (37)	21/12/01	04:39:32	04:51:48	00:05:18	-----	303-	68-	136-	38355
T3 (25)	21/12/01	04:57:50	05:08:22	00:10:31	00:06:01	299-	19-	51-	38311
K3 (33)	21/12/01	05:14:28	05:26:09	00:11:41	00:06:05	296-	38-	152-	38356
R1 (47)	21/12/01	05:25:31	05:36:18	00:10:08	-----	283-	23-	45-	39481
R3 (45)	21/12/01	05:32:42	05:42:31	00:06:13	-----	312-	18-	61-	39516
K9 (39)	21/12/01	05:49:51	05:59:53	00:10:01	00:07:19	284-	20-	174-	38356
R2 (38)	21/12/01	06:16:55	06:26:58	00:10:02	00:17:02	299-	18-	49-	40553
K4 (24)	21/12/01	06:18:32	06:30:31	00:03:33	-----	298-	47-	147-	38506
K7 (37)	21/12/01	06:25:06	06:32:23	00:01:51	-----	268-	10-	197-	38356
T3 (25)	21/12/01	06:43:32	06:54:47	00:11:14	00:11:09	314-	24-	78-	38312
S2 (43)	21/12/01	07:05:23	07:10:30	00:05:07	00:10:36	155-	7-	100-	39453
R1 (47)	21/12/01	07:11:06	07:21:02	00:09:56	00:00:35	311-	18-	60-	39482
R3 (45)	21/12/01	07:16:24	07:27:59	00:06:56	-----	314-	35-	98-	39517
S3 (42)	21/12/01	07:38:18	07:47:47	00:09:28	00:10:19	181-	17-	79-	39448
R2 (38)	21/12/01	08:01:51	08:12:24	00:10:33	00:14:03	315-	21-	74-	40554
S4 (29)	21/12/01	08:10:00	08:21:07	00:08:43	-----	197-	28-	68-	39365
S1 (46)	21/12/01	08:11:45	08:23:03	00:01:55	-----	199-	31-	67-	39366
T3 (25)	21/12/01	08:28:04	08:40:52	00:12:47	00:05:01	309-	69-	119-	38313
S2 (43)	21/12/01	08:44:49	08:56:57	00:12:08	00:03:56	217-	55-	59-	39454
R1 (47)	21/12/01	08:55:11	09:06:47	00:09:50	-----	315-	33-	96-	39483
R3 (45)	21/12/01	08:59:50	09:11:46	00:04:59	-----	300-	52-	143-	39518
S3 (42)	21/12/01	09:20:06	09:32:30	00:12:23	00:08:19	234-	85-	53-	39449
R2 (38)	21/12/01	09:45:31	09:57:46	00:12:14	00:13:01	310-	59-	115-	40555
S4 (29)	21/12/01	09:52:59	10:05:12	00:07:26	-----	248-	55-	49-	39366
S1 (46)	21/12/01	09:54:53	10:07:04	00:01:51	-----	250-	51-	49-	39367
T3 (25)	21/12/01	10:13:16	10:24:12	00:10:55	00:06:12	287-	23-	169-	38314
S2 (43)	21/12/01	10:28:56	10:40:39	00:11:42	00:04:44	264-	35-	46-	39455
R1 (47)	21/12/01	10:38:51	10:51:01	00:10:22	-----	301-	58-	141-	39484
R3 (45)	21/12/01	10:46:11	10:50:45	00:00:01	-----	253-	7-	215-	39519

Satellite	Date	AOS Time	LOS Time	Duration	Interval Between	AOS Az	Max El	LOS Az	Orbit num.
S3 (42)	21/12/01	11:05:04	11:16:06	00:11:02	00:14:18	278-	25-	45-	39450
R2 (38)	21/12/01	11:29:41	11:40:34	00:10:52	00:13:35	289-	26-	165-	40556
S4 (29)	21/12/01	11:38:26	11:48:55	00:08:21	-----	289-	21-	46-	39367
S1 (46)	21/12/01	11:40:23	11:50:48	00:01:52	-----	291-	20-	46-	39368
S2 (43)	21/12/01	12:14:41	12:24:41	00:10:00	00:23:53	301-	18-	50-	39456
R1 (47)	21/12/01	12:25:00	12:30:51	00:05:50	00:00:19	260-	8-	207-	39485
S3 (42)	21/12/01	12:50:44	13:00:38	00:09:53	00:19:53	309-	17-	57-	39451
T1 (28)	21/12/01	13:03:44	13:08:55	00:05:10	00:03:05	151-	7-	100-	39248
S4 (29)	21/12/01	13:23:48	13:33:56	00:10:07	00:14:53	313-	19-	65-	39368
S1 (46)	21/12/01	13:25:42	13:35:53	00:01:56	-----	313-	19-	66-	39369
T2 (40)	21/12/01	13:34:20	13:43:39	00:07:46	-----	179-	16-	80-	39333
S2 (43)	21/12/01	13:59:30	14:10:12	00:10:42	00:15:51	315-	22-	77-	39457
T4 (44)	21/12/01	14:07:25	14:18:32	00:08:19	-----	197-	28-	68-	39336
S3 (42)	21/12/01	14:35:00	14:46:23	00:11:23	00:16:28	315-	29-	90-	39452
T1 (28)	21/12/01	14:43:14	14:55:21	00:08:57	-----	218-	55-	59-	39249
K6 (26)	21/12/01	15:03:55	15:15:45	00:11:49	00:08:34	215-	51-	60-	39380
S4 (29)	21/12/01	15:07:42	15:19:37	00:03:51	-----	313-	40-	102-	39369
S1 (46)	21/12/01	15:09:33	15:21:32	00:01:54	-----	313-	42-	104-	39370
T2 (40)	21/12/01	15:16:03	15:28:24	00:06:52	-----	233-	87-	53-	39334
S2 (43)	21/12/01	15:43:08	15:55:28	00:12:19	00:14:44	309-	66-	118-	39458
T4 (44)	21/12/01	15:50:23	16:02:37	00:07:09	-----	248-	55-	49-	39337
S3 (42)	21/12/01	16:18:38	16:30:57	00:12:18	00:16:00	304-	73-	134-	39453
T1 (28)	21/12/01	16:27:22	16:39:03	00:08:06	-----	264-	35-	46-	39250
K6 (26)	21/12/01	16:47:15	16:58:44	00:11:28	00:08:12	263-	35-	46-	39381
S4 (29)	21/12/01	16:51:30	17:03:23	00:04:38	-----	297-	43-	149-	39370
S1 (46)	21/12/01	16:53:23	17:05:10	00:01:46	-----	296-	40-	151-	39371
T2 (40)	21/12/01	17:00:57	17:12:00	00:06:50	-----	277-	26-	45-	39335
S2 (43)	21/12/01	17:27:27	17:38:00	00:10:33	00:15:26	287-	23-	169-	39459
T4 (44)	21/12/01	17:35:50	17:46:19	00:08:18	-----	289-	21-	46-	39338
S3 (42)	21/12/01	18:04:00	18:11:46	00:07:45	00:17:41	270-	11-	193-	39454
T1 (28)	21/12/01	18:13:07	18:23:05	00:09:58	00:01:20	301-	18-	50-	39251
K6 (26)	21/12/01	18:32:19	18:41:57	00:09:38	00:09:13	300-	17-	48-	39382
T2 (40)	21/12/01	18:46:38	18:56:31	00:09:52	00:04:40	308-	17-	56-	39336
K7 (37)	21/12/01	19:04:00	19:10:07	00:06:07	00:07:28	158-	9-	100-	38364
T4 (44)	21/12/01	19:21:13	19:31:19	00:10:06	00:11:06	313-	19-	64-	39339
K3 (33)	21/12/01	19:36:39	19:46:19	00:09:40	00:05:19	183-	18-	77-	38365
T1 (28)	21/12/01	19:57:55	20:08:37	00:10:42	00:11:35	315-	22-	77-	39252
K9 (39)	21/12/01	20:10:16	20:21:47	00:11:30	00:01:38	203-	34-	65-	38365
K6 (26)	21/12/01	20:16:30	20:26:40	00:04:53	-----	316-	21-	74-	39383
T2 (40)	21/12/01	20:30:55	20:42:16	00:11:20	00:04:15	315-	29-	89-	39337
K4 (24)	21/12/01	20:42:15	20:51:00	00:08:44	-----	176-	14-	83-	38515
K7 (37)	21/12/01	20:43:56	20:56:09	00:05:08	-----	220-	60-	58-	38365
T4 (44)	21/12/01	21:05:07	21:17:00	00:11:53	00:08:58	313-	40-	102-	39340
K3 (33)	21/12/01	21:18:35	21:30:57	00:12:22	00:01:34	235-	81-	53-	38366
T1 (28)	21/12/01	21:41:33	21:53:53	00:12:19	00:10:36	309-	66-	118-	39253
K9 (39)	21/12/01	21:53:37	22:05:42	00:11:49	-----	253-	47-	48-	38366
K6 (26)	21/12/01	21:59:27	22:11:18	00:05:35	-----	311-	59-	115-	39384
T2 (40)	21/12/01	22:14:32	22:26:52	00:12:20	00:03:14	304-	76-	133-	39338
K4 (24)	21/12/01	22:23:47	22:36:04	00:09:11	-----	231-	86-	54-	38516
K7 (37)	21/12/01	22:28:12	22:39:49	00:03:44	-----	266-	33-	46-	38366

Satellite	Date	AOS Time	LOS Time	Duration	Interval Between	AOS Az	Max El	LOS Az	Orbit num.
T4 (44)	21/12/01	22:48:54	23:00:47	00:11:52	00:09:05	297-	43-	148-	39341
K3 (33)	21/12/01	23:03:36	23:14:33	00:10:57	00:02:49	279-	25-	45-	38367
R3 (45)	21/12/01	23:20:53	23:28:30	00:07:37	00:06:19	168-	11-	90-	39527
T1 (28)	21/12/01	23:25:52	23:36:24	00:07:54	-----	287-	23-	168-	39254
K9 (39)	21/12/01	23:39:12	23:49:29	00:10:16	00:02:47	293-	20-	47-	38367
K6 (26)	21/12/01	23:42:56	23:53:20	00:03:51	-----	288-	24-	166-	39385
T2 (40)	21/12/01	23:59:49	00:07:48	00:07:59	00:06:28	272-	12-	191-	39339
K4 (24)	21/12/02	00:08:41	00:19:45	00:11:03	00:00:53	275-	26-	45-	38517
K7 (37)	21/12/02	00:13:58	00:23:54	00:04:09	-----	302-	18-	51-	38367
T3 (25)	21/12/02	00:40:58	00:53:00	00:12:01	00:17:03	204-	37-	64-	38323
K3 (33)	21/12/02	00:49:15	00:59:08	00:06:08	-----	309-	17-	57-	38368
R3 (45)	21/12/02	01:01:26	01:13:36	00:12:10	00:02:17	226-	73-	56-	39528
R1 (47)	21/12/02	01:02:28	01:09:57	00:03:03	-----	166-	11-	91-	39493
K9 (39)	21/12/02	01:24:25	01:34:40	00:10:14	00:14:27	314-	19-	68-	38368
R2 (38)	21/12/02	01:50:46	02:01:43	00:10:56	00:16:06	194-	26-	69-	40565
K4 (24)	21/12/02	01:54:30	02:04:16	00:02:33	-----	308-	17-	55-	38518
K7 (37)	21/12/02	01:58:42	02:09:29	00:05:12	-----	316-	23-	79-	38368
T3 (25)	21/12/02	02:25:14	02:37:46	00:12:32	00:15:45	253-	47-	48-	38324
K3 (33)	21/12/02	02:33:29	02:44:54	00:07:07	-----	315-	30-	91-	38369
R1 (47)	21/12/02	02:43:08	02:55:27	00:10:33	-----	224-	70-	57-	39494
R3 (45)	21/12/02	02:45:42	02:56:56	00:01:28	-----	271-	29-	45-	39529
K9 (39)	21/12/02	03:08:13	03:20:16	00:12:02	00:11:17	312-	46-	107-	38369
R2 (38)	21/12/02	03:33:36	03:45:51	00:12:15	00:13:20	246-	58-	50-	40566
K4 (24)	21/12/02	03:38:57	03:50:07	00:04:15	-----	316-	27-	87-	38519
K7 (37)	21/12/02	03:42:20	03:54:39	00:04:31	-----	309-	71-	121-	38369
T3 (25)	21/12/02	04:11:41	04:22:29	00:10:47	00:17:02	293-	20-	48-	38325
K3 (33)	21/12/02	04:17:06	04:29:23	00:06:54	-----	303-	70-	135-	38370
R1 (47)	21/12/02	04:27:38	04:39:04	00:09:41	-----	270-	30-	46-	39495
R3 (45)	21/12/02	04:31:10	04:40:53	00:01:48	-----	305-	17-	52-	39530
K9 (39)	21/12/02	04:52:07	05:03:42	00:11:34	00:11:13	295-	36-	154-	38370
R2 (38)	21/12/02	05:19:00	05:29:32	00:10:32	00:15:17	288-	21-	46-	40567
K4 (24)	21/12/02	05:22:38	05:34:58	00:05:26	-----	305-	82-	131-	38520
K7 (37)	21/12/02	05:26:44	05:36:59	00:02:00	-----	285-	21-	172-	38370
T3 (25)	21/12/02	05:57:45	06:08:36	00:10:51	00:20:46	313-	21-	70-	38326
K3 (33)	21/12/02	06:02:37	06:10:03	00:01:26	-----	269-	11-	196-	38371
R1 (47)	21/12/02	06:13:24	06:23:17	00:09:53	00:03:21	304-	17-	52-	39496
R3 (45)	21/12/02	06:15:25	06:26:16	00:02:58	-----	316-	25-	83-	39531
S3 (42)	21/12/02	06:43:31	06:48:52	00:05:21	00:17:14	155-	8-	100-	39462
R2 (38)	21/12/02	07:04:25	07:14:28	00:10:03	00:15:33	313-	18-	63-	40568
K4 (24)	21/12/02	07:07:47	07:16:20	00:01:51	-----	274-	13-	188-	38521
S4 (29)	21/12/02	07:14:04	07:23:11	00:06:51	-----	178-	15-	81-	39379
S1 (46)	21/12/02	07:15:41	07:25:10	00:01:58	-----	181-	17-	79-	39380
T3 (25)	21/12/02	07:42:25	07:55:01	00:12:35	00:17:15	312-	50-	110-	38327
S2 (43)	21/12/02	07:48:13	07:59:27	00:04:26	-----	198-	30-	67-	39468
R1 (47)	21/12/02	07:58:00	08:08:56	00:09:29	-----	316-	25-	82-	39497
R3 (45)	21/12/02	07:58:44	08:10:57	00:02:00	-----	307-	83-	125-	39532
S3 (42)	21/12/02	08:23:04	08:35:13	00:12:09	00:12:06	218-	56-	59-	39463
R2 (38)	21/12/02	08:48:22	09:00:11	00:11:49	00:13:08	314-	38-	101-	40569
S4 (29)	21/12/02	08:55:39	09:08:02	00:07:51	-----	232-	90-	54-	39380
S1 (46)	21/12/02	08:57:29	09:09:53	00:01:50	-----	234-	85-	53-	39381

Satellite	Date	AOS Time	LOS Time	Duration	Interval Between	AOS Az	Max El	LOS Az	Orbit num.
T3 (25)	21/12/02	09:27:15	09:39:09	00:11:54	00:17:21	294-	34-	156-	38328
S2 (43)	21/12/02	09:31:18	09:43:29	00:04:20	-----	249-	53-	49-	39469
R1 (47)	21/12/02	09:41:36	09:53:57	00:10:27	-----	307-	81-	125-	39498
R3 (45)	21/12/02	09:43:09	09:52:31	00:01:02	-----	280-	17-	179-	39533
S3 (42)	21/12/02	10:07:13	10:18:54	00:11:41	00:14:42	264-	34-	46-	39464
R2 (38)	21/12/02	10:32:07	10:44:04	00:11:57	00:13:12	298-	47-	146-	40570
S4 (29)	21/12/02	10:40:31	10:51:38	00:07:34	-----	276-	26-	45-	39381
S1 (46)	21/12/02	10:42:26	10:53:29	00:01:50	-----	278-	25-	45-	39382
S2 (43)	21/12/02	11:16:46	11:27:13	00:10:26	00:23:17	290-	20-	46-	39470
R1 (47)	21/12/02	11:26:14	11:35:51	00:08:37	-----	281-	17-	178-	39499
S3 (42)	21/12/02	11:52:58	12:02:58	00:09:59	00:17:07	301-	18-	50-	39465
S4 (29)	21/12/02	12:26:13	12:36:07	00:09:53	00:23:15	308-	17-	56-	39382
S1 (46)	21/12/02	12:28:07	12:38:01	00:01:54	-----	309-	17-	57-	39383
T2 (40)	21/12/02	12:39:40	12:44:33	00:04:53	00:01:39	149-	7-	101-	39347
S2 (43)	21/12/02	13:02:07	13:12:16	00:10:09	00:17:33	313-	19-	65-	39471
T4 (44)	21/12/02	13:11:27	13:20:35	00:08:18	-----	178-	15-	81-	39350
S3 (42)	21/12/02	13:37:46	13:48:30	00:10:43	00:17:11	315-	22-	77-	39466
T1 (28)	21/12/02	13:46:40	13:57:53	00:09:23	-----	198-	30-	67-	39263
K6 (26)	21/12/02	13:58:07	14:08:34	00:10:27	00:00:14	190-	24-	71-	39394
S4 (29)	21/12/02	14:10:33	14:21:51	00:11:18	00:01:58	315-	28-	89-	39383
S1 (46)	21/12/02	14:12:23	14:23:46	00:01:54	-----	315-	29-	90-	39384
T2 (40)	21/12/02	14:19:01	14:31:07	00:07:21	-----	217-	53-	60-	39348
S2 (43)	21/12/02	14:45:59	14:57:56	00:11:56	00:14:51	313-	41-	104-	39472
T4 (44)	21/12/02	14:53:02	15:05:25	00:07:29	-----	232-	90-	54-	39351
S3 (42)	21/12/02	15:21:24	15:33:44	00:12:19	00:15:58	309-	67-	119-	39467
T1 (28)	21/12/02	15:29:45	15:41:55	00:08:11	-----	249-	52-	49-	39264
K6 (26)	21/12/02	15:40:02	15:52:06	00:10:10	-----	243-	62-	50-	39395
S4 (29)	21/12/02	15:54:10	16:06:31	00:12:21	00:02:03	305-	78-	132-	39384
S1 (46)	21/12/02	15:56:00	16:08:19	00:01:48	-----	304-	73-	134-	39385
T2 (40)	21/12/02	16:03:07	16:14:49	00:06:29	-----	263-	35-	46-	39349
S2 (43)	21/12/02	16:29:48	16:41:37	00:11:49	00:14:58	297-	41-	150-	39473
T4 (44)	21/12/02	16:37:54	16:49:01	00:07:24	-----	276-	26-	45-	39352
S3 (42)	21/12/02	17:05:44	17:16:14	00:10:29	00:16:42	286-	22-	169-	39468
T1 (28)	21/12/02	17:15:14	17:25:38	00:09:24	-----	290-	20-	46-	39265
K6 (26)	21/12/02	17:24:39	17:35:00	00:09:21	-----	286-	21-	45-	39396
S4 (29)	21/12/02	17:39:21	17:47:36	00:08:15	00:04:21	273-	13-	190-	39385
S1 (46)	21/12/02	17:41:23	17:49:09	00:01:32	-----	271-	11-	193-	39386
T2 (40)	21/12/02	17:48:52	17:58:51	00:09:41	-----	300-	18-	50-	39350
T4 (44)	21/12/02	18:23:37	18:33:29	00:09:52	00:24:45	308-	17-	55-	39353
K3 (33)	21/12/02	18:41:42	18:47:36	00:05:54	00:08:12	157-	8-	101-	38379
T1 (28)	21/12/02	19:00:33	19:10:42	00:10:08	00:12:57	313-	19-	65-	39266
K6 (26)	21/12/02	19:09:29	19:19:04	00:08:21	-----	313-	17-	60-	39397
K9 (39)	21/12/02	19:14:05	19:24:01	00:04:57	-----	185-	19-	76-	38379
T2 (40)	21/12/02	19:33:41	19:44:22	00:10:40	00:09:39	315-	22-	76-	39351
K7 (37)	21/12/02	19:47:18	19:58:43	00:11:24	00:02:56	201-	33-	66-	38379
T4 (44)	21/12/02	20:07:56	20:19:13	00:11:17	00:09:13	315-	28-	88-	39354
K3 (33)	21/12/02	20:21:32	20:33:43	00:12:10	00:02:18	219-	58-	59-	38380
T1 (28)	21/12/02	20:44:25	20:56:22	00:11:56	00:10:42	313-	41-	104-	39267
K6 (26)	21/12/02	20:52:47	21:04:04	00:07:42	-----	315-	33-	97-	39398
K9 (39)	21/12/02	20:56:12	21:08:34	00:04:29	-----	237-	77-	52-	38380

Satellite	Date	AOS Time	LOS Time	Duration	Interval Between	AOS Az	Max El	LOS Az	Orbit num.
T2 (40)	21/12/02	21:17:19	21:29:38	00:12:18	00:08:45	310-	65-	118-	39352
K4 (24)	21/12/02	21:28:13	21:40:10	00:10:31	-----	214-	50-	60-	38530
K7 (37)	21/12/02	21:30:33	21:42:41	00:02:30	-----	251-	49-	49-	38380
T4 (44)	21/12/02	21:51:33	22:03:53	00:12:19	00:08:52	305-	79-	132-	39355
K3 (33)	21/12/02	22:05:46	22:17:23	00:11:37	00:01:53	265-	33-	46-	38381
T1 (28)	21/12/02	22:28:14	22:40:04	00:11:49	00:10:51	297-	41-	150-	39268
K6 (26)	21/12/02	22:35:46	22:47:28	00:07:24	-----	300-	54-	142-	39399
K9 (39)	21/12/02	22:41:17	22:52:10	00:04:41	-----	281-	24-	45-	38381
T2 (40)	21/12/02	23:01:36	23:12:13	00:10:36	00:09:26	287-	23-	167-	39353
K4 (24)	21/12/02	23:12:18	23:24:00	00:11:40	00:00:05	262-	36-	46-	38531
K7 (37)	21/12/02	23:16:06	23:26:26	00:02:26	-----	292-	20-	47-	38381
T4 (44)	21/12/02	23:36:44	23:44:59	00:08:14	00:10:18	273-	13-	190-	39356
K3 (33)	21/12/02	23:51:32	00:01:28	00:09:56	00:06:32	302-	18-	50-	38382
T3 (25)	21/12/02	23:55:53	00:07:00	00:05:31	-----	191-	25-	70-	38337
R3 (45)	21/12/03	00:00:52	00:12:23	00:05:23	-----	206-	37-	64-	39542
K6 (26)	21/12/03	00:21:38	00:26:07	00:04:29	00:09:14	253-	7-	215-	39400
K9 (39)	21/12/03	00:26:54	00:36:48	00:09:53	00:00:47	310-	18-	58-	38382
R2 (38)	21/12/03	00:54:55	01:03:39	00:08:44	00:18:06	175-	14-	83-	40579
K4 (24)	21/12/03	00:58:08	01:08:03	00:04:24	-----	300-	18-	49-	38532
K7 (37)	21/12/03	01:01:22	01:11:34	00:03:30	-----	314-	19-	67-	38382
K3 (33)	21/12/03	01:36:17	01:47:02	00:10:45	00:24:43	316-	23-	78-	38383
T3 (25)	21/12/03	01:39:21	01:52:07	00:05:04	-----	243-	64-	51-	38338
R3 (45)	21/12/03	01:44:06	01:55:59	00:03:51	-----	255-	44-	48-	39543
R1 (47)	21/12/03	01:46:21	01:58:04	00:02:05	-----	206-	38-	63-	39508
K9 (39)	21/12/03	02:11:05	02:22:34	00:11:29	00:13:00	315-	31-	93-	38383
R2 (38)	21/12/03	02:36:17	02:48:40	00:12:22	00:13:43	230-	85-	54-	40580
K4 (24)	21/12/03	02:43:07	02:53:38	00:04:58	-----	315-	21-	75-	38533
K7 (37)	21/12/03	02:45:11	02:57:11	00:03:33	-----	313-	44-	106-	38383
K3 (33)	21/12/03	03:19:55	03:32:14	00:12:19	00:22:43	309-	69-	120-	38384
T3 (25)	21/12/03	03:25:31	03:36:40	00:04:26	-----	285-	23-	47-	38339
R3 (45)	21/12/03	03:29:26	03:39:30	00:02:49	-----	295-	19-	47-	39544
R1 (47)	21/12/03	03:29:54	03:41:55	00:02:25	-----	255-	44-	48-	39509
K9 (39)	21/12/03	03:54:43	04:06:58	00:12:14	00:12:47	303-	65-	137-	38384
R2 (38)	21/12/03	04:21:04	04:32:16	00:11:11	00:14:06	275-	27-	45-	40581
K4 (24)	21/12/03	04:26:51	04:39:05	00:06:49	-----	310-	61-	116-	38534
K7 (37)	21/12/03	04:29:03	04:40:44	00:01:38	-----	296-	38-	152-	38384
K3 (33)	21/12/03	05:04:18	05:14:36	00:10:18	00:23:33	285-	21-	171-	38385
T3 (25)	21/12/03	05:11:52	05:22:27	00:07:50	-----	311-	19-	63-	38340
R3 (45)	21/12/03	05:14:18	05:24:27	00:02:00	-----	315-	19-	69-	39545
R1 (47)	21/12/03	05:15:33	05:25:45	00:01:17	-----	295-	19-	47-	39510
K9 (39)	21/12/03	05:40:26	05:47:21	00:06:55	00:14:40	266-	10-	200-	38385
R2 (38)	21/12/03	06:06:48	06:16:39	00:09:51	00:19:26	307-	17-	55-	40582
K4 (24)	21/12/03	06:11:08	06:21:54	00:05:14	-----	288-	25-	166-	38535
S4 (29)	21/12/03	06:19:39	06:23:55	00:02:00	-----	143-	7-	102-	39393
S1 (46)	21/12/03	06:20:53	06:26:14	00:02:19	-----	155-	8-	100-	39394
S2 (43)	21/12/03	06:52:12	07:01:34	00:09:21	00:25:58	180-	16-	80-	39482
T3 (25)	21/12/03	06:56:46	07:09:02	00:07:28	-----	313-	38-	100-	38341
R3 (45)	21/12/03	06:57:46	07:09:44	00:00:41	-----	312-	48-	109-	39546
R1 (47)	21/12/03	07:00:40	07:11:01	00:01:17	-----	314-	20-	70-	39511
S3 (42)	21/12/03	07:26:28	07:37:44	00:11:16	00:15:26	199-	30-	67-	39477

Satellite	Date	AOS Time	LOS Time	Duration	Interval Between	AOS Az	Max El	LOS Az	Orbit num.
R2 (38)	21/12/03	07:51:11	08:02:23	00:11:11	00:13:27	315-	27-	87-	40583
S4 (29)	21/12/03	07:58:40	08:10:45	00:08:22	-----	216-	51-	60-	39394
S1 (46)	21/12/03	08:00:26	08:12:35	00:01:49	-----	218-	55-	59-	39395
S2 (43)	21/12/03	08:33:55	08:46:18	00:12:22	00:21:20	233-	87-	53-	39483
T3 (25)	21/12/03	08:41:22	08:53:52	00:07:33	-----	299-	50-	145-	38342
R3 (45)	21/12/03	08:41:26	08:52:45	00:01:07	-----	293-	33-	156-	39547
R1 (47)	21/12/03	08:44:26	08:56:33	00:03:47	-----	312-	50-	110-	39512
S3 (42)	21/12/03	09:09:34	09:21:45	00:12:11	00:13:01	249-	52-	49-	39478
R2 (38)	21/12/03	09:34:47	09:47:08	00:12:20	00:13:02	305-	84-	130-	40584
S4 (29)	21/12/03	09:42:43	09:54:28	00:07:20	-----	262-	36-	47-	39395
S1 (46)	21/12/03	09:44:35	09:56:17	00:01:48	-----	264-	34-	46-	39396
S2 (43)	21/12/03	10:18:50	10:29:55	00:11:04	00:22:33	277-	26-	45-	39484
R1 (47)	21/12/03	10:28:24	10:39:47	00:09:52	-----	293-	32-	157-	39513
T3 (25)	21/12/03	10:29:05	10:33:41	00:06:06	-----	253-	7-	216-	38343
S3 (42)	21/12/03	10:55:04	11:05:29	00:10:25	00:21:23	290-	20-	46-	39479
R2 (38)	21/12/03	11:19:49	11:28:27	00:08:38	00:14:19	275-	14-	187-	40585
S4 (29)	21/12/03	11:28:27	11:38:28	00:10:01	-----	300-	18-	49-	39396
S1 (46)	21/12/03	11:30:20	11:40:20	00:01:51	-----	301-	18-	50-	39397
S2 (43)	21/12/03	12:04:32	12:14:25	00:09:53	00:24:12	308-	17-	56-	39485
S3 (42)	21/12/03	12:40:23	12:50:34	00:10:10	00:25:58	313-	19-	66-	39480
T1 (28)	21/12/03	12:50:40	13:00:01	00:09:21	00:00:06	180-	16-	80-	39277
K6 (26)	21/12/03	12:53:33	13:00:24	00:00:23	-----	163-	10-	95-	39408
S4 (29)	21/12/03	13:13:19	13:23:58	00:10:38	00:12:54	315-	22-	76-	39397
S1 (46)	21/12/03	13:15:08	13:25:51	00:01:53	-----	315-	22-	77-	39398
T2 (40)	21/12/03	13:22:27	13:33:37	00:07:45	-----	197-	29-	67-	39362
S2 (43)	21/12/03	13:48:49	14:00:10	00:11:21	00:15:12	315-	29-	90-	39486
T4 (44)	21/12/03	13:56:03	14:08:07	00:07:56	-----	215-	51-	60-	39365
S3 (42)	21/12/03	14:24:15	14:36:13	00:11:57	00:16:08	313-	42-	104-	39481
T1 (28)	21/12/03	14:32:24	14:44:46	00:08:32	-----	233-	86-	53-	39278
K6 (26)	21/12/03	14:33:18	14:45:21	00:00:35	-----	223-	66-	57-	39409
S4 (29)	21/12/03	14:56:58	15:09:17	00:12:18	00:11:36	310-	63-	117-	39398
S1 (46)	21/12/03	14:58:46	15:11:06	00:01:49	-----	309-	67-	119-	39399
T2 (40)	21/12/03	15:05:29	15:17:40	00:06:34	-----	248-	53-	49-	39363
S2 (43)	21/12/03	15:32:26	15:44:46	00:12:19	00:14:45	304-	75-	133-	39487
T4 (44)	21/12/03	15:40:04	15:51:50	00:07:04	-----	262-	36-	46-	39366
S3 (42)	21/12/03	16:08:05	16:19:52	00:11:47	00:16:14	297-	41-	150-	39482
K6 (26)	21/12/03	16:17:02	16:28:16	00:08:23	-----	269-	30-	45-	39410
T1 (28)	21/12/03	16:17:19	16:28:22	00:00:06	-----	278-	25-	45-	39279
S4 (29)	21/12/03	16:41:13	16:51:57	00:10:44	00:12:50	288-	24-	167-	39399
S1 (46)	21/12/03	16:43:06	16:53:36	00:01:38	-----	286-	22-	169-	39400
T2 (40)	21/12/03	16:50:57	17:01:23	00:07:46	-----	290-	20-	46-	39364
S2 (43)	21/12/03	17:17:44	17:25:42	00:07:58	00:16:20	272-	12-	192-	39488
T4 (44)	21/12/03	17:25:49	17:35:50	00:10:01	00:00:06	300-	18-	49-	39367
K6 (26)	21/12/03	18:02:07	18:11:40	00:09:32	00:26:17	304-	17-	50-	39411
T1 (28)	21/12/03	18:03:00	18:12:53	00:01:12	-----	308-	17-	56-	39280
K9 (39)	21/12/03	18:18:55	18:25:28	00:06:32	00:06:02	160-	9-	97-	38393
T2 (40)	21/12/03	18:36:18	18:46:25	00:10:07	00:10:49	313-	19-	65-	39365
K7 (37)	21/12/03	18:51:12	19:00:55	00:09:42	00:04:46	183-	18-	77-	38393
T4 (44)	21/12/03	19:10:41	19:21:19	00:10:37	00:09:46	315-	22-	75-	39368
K3 (33)	21/12/03	19:24:55	19:36:17	00:11:21	00:03:36	200-	32-	66-	38394

Satellite	Date	AOS Time	LOS Time	Duration	Interval Between	AOS Az	Max El	LOS Az	Orbit num.
K6 (26)	21/12/03	19:46:04	19:56:32	00:10:28	00:09:46	316-	23-	79-	39412
T1 (28)	21/12/03	19:47:17	19:58:38	00:02:05	-----	315-	29-	90-	39281
K9 (39)	21/12/03	19:59:06	20:11:20	00:12:13	00:00:27	221-	62-	58-	38394
T2 (40)	21/12/03	20:20:10	20:32:06	00:11:55	00:08:50	313-	41-	103-	39366
K4 (24)	21/12/03	20:33:03	20:44:04	00:11:00	00:00:57	196-	28-	68-	38544
K7 (37)	21/12/03	20:33:09	20:45:32	00:01:27	-----	236-	81-	53-	38394
T4 (44)	21/12/03	20:54:20	21:06:37	00:12:17	00:08:48	310-	62-	117-	39369
K3 (33)	21/12/03	21:08:08	21:20:16	00:12:08	00:01:30	251-	50-	49-	38395
K6 (26)	21/12/03	21:28:58	21:40:55	00:11:57	00:08:41	308-	74-	122-	39413
T1 (28)	21/12/03	21:30:54	21:43:14	00:02:18	-----	304-	75-	134-	39282
K9 (39)	21/12/03	21:43:26	21:54:59	00:11:33	00:00:11	267-	32-	46-	38395
T2 (40)	21/12/03	22:03:58	22:15:50	00:11:51	00:09:00	297-	42-	149-	39367
K4 (24)	21/12/03	22:16:07	22:28:15	00:12:08	00:00:17	247-	55-	49-	38545
K7 (37)	21/12/03	22:18:11	22:29:08	00:00:53	-----	279-	25-	45-	38395
T4 (44)	21/12/03	22:38:35	22:49:18	00:10:43	00:09:26	288-	24-	167-	39370
K3 (33)	21/12/03	22:53:40	23:04:01	00:10:21	00:04:22	291-	20-	46-	38396
R3 (45)	21/12/03	23:00:56	23:10:48	00:06:46	-----	186-	19-	76-	39556
T3 (25)	21/12/03	23:11:06	23:20:47	00:09:40	00:00:18	179-	16-	79-	38351
K6 (26)	21/12/03	23:12:46	23:22:21	00:01:34	-----	283-	19-	175-	39414
T1 (28)	21/12/03	23:16:12	23:24:08	00:01:46	-----	272-	12-	191-	39283
K9 (39)	21/12/03	23:29:12	23:39:07	00:09:55	00:05:03	303-	18-	51-	38396
K4 (24)	21/12/04	00:01:39	00:12:02	00:10:22	00:22:32	289-	21-	46-	38546
K7 (37)	21/12/04	00:03:50	00:13:43	00:01:41	-----	309-	17-	57-	38396
K3 (33)	21/12/04	00:38:57	00:49:08	00:10:10	00:25:13	314-	19-	66-	38397
R3 (45)	21/12/04	00:42:48	00:55:01	00:05:53	-----	238-	75-	52-	39557
R1 (47)	21/12/04	00:50:04	01:00:23	00:05:21	-----	186-	21-	74-	39522
T3 (25)	21/12/04	00:53:36	01:06:26	00:06:03	-----	233-	89-	54-	38352
K9 (39)	21/12/04	01:13:53	01:24:43	00:10:49	00:07:26	316-	23-	80-	38397
R2 (38)	21/12/04	01:39:21	01:51:20	00:11:59	00:14:38	213-	48-	61-	40594
K4 (24)	21/12/04	01:47:08	01:57:08	00:05:47	-----	313-	18-	64-	38547
K7 (37)	21/12/04	01:48:03	01:59:29	00:02:21	-----	315-	30-	92-	38397
K3 (33)	21/12/04	02:22:47	02:34:46	00:11:58	00:23:18	313-	43-	105-	38398
R3 (45)	21/12/04	02:27:37	02:38:20	00:03:34	-----	281-	23-	45-	39558
R1 (47)	21/12/04	02:32:25	02:44:46	00:06:25	-----	240-	70-	51-	39523
T3 (25)	21/12/04	02:39:21	02:50:56	00:06:09	-----	276-	27-	46-	38353
K9 (39)	21/12/04	02:57:30	03:09:50	00:12:20	00:06:34	308-	74-	122-	38398
R2 (38)	21/12/04	03:23:16	03:35:05	00:11:49	00:13:25	260-	38-	47-	40595
K4 (24)	21/12/04	03:31:07	03:42:56	00:07:51	-----	314-	39-	102-	38548
K7 (37)	21/12/04	03:31:41	03:43:57	00:01:01	-----	303-	69-	136-	38398
K3 (33)	21/12/04	04:06:38	04:18:21	00:11:42	00:22:40	296-	39-	152-	38399
R3 (45)	21/12/04	04:12:57	04:22:42	00:04:21	-----	310-	17-	58-	39559
R1 (47)	21/12/04	04:17:36	04:28:24	00:05:42	-----	283-	23-	45-	39524
T3 (25)	21/12/04	04:25:54	04:36:20	00:07:56	-----	307-	19-	57-	38354
K9 (39)	21/12/04	04:41:58	04:52:03	00:10:04	00:05:37	284-	20-	173-	38399
R2 (38)	21/12/04	05:08:59	05:19:02	00:10:03	00:16:56	298-	18-	49-	40596
K4 (24)	21/12/04	05:14:58	05:26:51	00:07:48	-----	298-	44-	148-	38549
K7 (37)	21/12/04	05:17:13	05:24:34	00:02:01	-----	268-	11-	196-	38399
R3 (45)	21/12/04	05:56:49	06:08:10	00:11:21	00:32:14	315-	31-	93-	39560
S2 (43)	21/12/04	05:57:29	06:02:30	00:05:04	-----	150-	7-	101-	39496
R1 (47)	21/12/04	06:03:11	06:13:08	00:09:56	00:00:40	311-	18-	60-	39525

Satellite	Date	AOS Time	LOS Time	Duration	Interval Between	AOS Az	Max EI	LOS Az	Orbit num.
T3 (25)	21/12/04	06:11:06	06:22:57	00:09:49	-----	314-	30-	91-	38355
S3 (42)	21/12/04	06:30:25	06:39:52	00:09:26	00:07:27	180-	16-	80-	39491
R2 (38)	21/12/04	06:53:55	07:04:28	00:10:32	00:14:02	315-	21-	74-	40597
S4 (29)	21/12/04	07:02:09	07:13:15	00:08:46	-----	196-	28-	68-	39408
S1 (46)	21/12/04	07:03:49	07:15:05	00:01:50	-----	199-	30-	67-	39409
S2 (43)	21/12/04	07:36:54	07:49:01	00:12:07	00:21:48	217-	54-	59-	39497
R3 (45)	21/12/04	07:40:10	07:52:17	00:03:15	-----	302-	65-	137-	39561
R1 (47)	21/12/04	07:47:17	07:58:53	00:06:36	-----	315-	33-	95-	39526
T3 (25)	21/12/04	07:55:36	08:08:23	00:09:30	-----	304-	74-	134-	38356
S3 (42)	21/12/04	08:12:12	08:24:35	00:12:23	00:03:48	234-	85-	53-	39492
R2 (38)	21/12/04	08:37:36	08:49:50	00:12:14	00:13:00	310-	59-	115-	40598
S4 (29)	21/12/04	08:45:07	08:57:20	00:07:30	-----	247-	55-	49-	39409
S1 (46)	21/12/04	08:46:56	08:59:07	00:01:46	-----	249-	52-	49-	39410
S2 (43)	21/12/04	09:21:00	09:32:43	00:11:42	00:21:53	263-	35-	46-	39498
R3 (45)	21/12/04	09:25:38	09:32:21	00:00:02	-----	265-	10-	200-	39562
R1 (47)	21/12/04	09:30:57	09:43:07	00:10:46	-----	301-	59-	140-	39527
T3 (25)	21/12/04	09:41:47	09:50:07	00:06:59	-----	272-	12-	192-	38357
S3 (42)	21/12/04	09:57:08	10:08:11	00:11:03	00:07:01	278-	25-	45-	39493
R2 (38)	21/12/04	10:21:45	10:32:40	00:10:54	00:13:34	289-	26-	164-	40599
S4 (29)	21/12/04	10:30:33	10:41:03	00:08:22	-----	289-	21-	46-	39410
S1 (46)	21/12/04	10:32:25	10:42:50	00:01:47	-----	290-	20-	46-	39411
S2 (43)	21/12/04	11:06:45	11:16:45	00:10:00	00:23:54	300-	18-	50-	39499
R1 (47)	21/12/04	11:17:03	11:23:01	00:05:58	00:00:17	261-	8-	206-	39528
S3 (42)	21/12/04	11:42:49	11:52:43	00:09:53	00:19:47	308-	17-	56-	39494
T1 (28)	21/12/04	11:55:58	12:01:00	00:05:01	00:03:15	150-	7-	101-	39291
S4 (29)	21/12/04	12:15:56	12:26:03	00:10:07	00:14:55	313-	19-	64-	39411
S1 (46)	21/12/04	12:17:44	12:27:55	00:01:51	-----	313-	19-	66-	39412
T2 (40)	21/12/04	12:26:27	12:35:41	00:07:46	-----	179-	16-	81-	39376
S2 (43)	21/12/04	12:51:34	13:02:16	00:10:41	00:15:52	315-	22-	77-	39500
T4 (44)	21/12/04	12:59:30	13:10:35	00:08:19	-----	196-	28-	68-	39379
S3 (42)	21/12/04	13:27:05	13:38:28	00:11:22	00:16:29	315-	29-	90-	39495
K6 (26)	21/12/04	13:27:14	13:38:19	00:00:08	-----	199-	30-	67-	39423
T1 (28)	21/12/04	13:35:24	13:47:30	00:09:10	-----	217-	54-	59-	39292
S4 (29)	21/12/04	13:59:50	14:11:44	00:11:54	00:12:20	313-	40-	102-	39412
S1 (46)	21/12/04	14:01:36	14:13:34	00:01:49	-----	313-	42-	104-	39413
T2 (40)	21/12/04	14:08:07	14:20:29	00:06:54	-----	233-	88-	54-	39377
S2 (43)	21/12/04	14:35:13	14:47:32	00:12:19	00:14:43	309-	65-	118-	39501
T4 (44)	21/12/04	14:42:27	14:54:41	00:07:08	-----	247-	55-	49-	39380
K6 (26)	21/12/04	15:09:41	15:21:37	00:11:55	00:15:00	250-	50-	48-	39424
S3 (42)	21/12/04	15:10:43	15:23:02	00:01:24	-----	304-	74-	134-	39496
T1 (28)	21/12/04	15:19:31	15:31:12	00:08:09	-----	264-	35-	46-	39293
S4 (29)	21/12/04	15:43:37	15:55:32	00:11:54	00:12:25	298-	44-	148-	39413
S1 (46)	21/12/04	15:45:26	15:57:14	00:01:41	-----	297-	41-	150-	39414
T2 (40)	21/12/04	15:53:01	16:04:05	00:06:51	-----	277-	26-	45-	39378
S2 (43)	21/12/04	16:19:30	16:30:06	00:10:35	00:15:25	287-	23-	168-	39502
T4 (44)	21/12/04	16:27:53	16:38:23	00:08:16	-----	289-	21-	46-	39381
K6 (26)	21/12/04	16:54:30	17:04:36	00:10:05	00:16:07	291-	20-	45-	39425
S3 (42)	21/12/04	16:56:03	17:03:54	00:00:04	-----	271-	12-	193-	39497
T1 (28)	21/12/04	17:05:15	17:15:14	00:09:58	00:01:21	301-	18-	50-	39294
T2 (40)	21/12/04	17:38:43	17:48:35	00:09:52	00:23:28	308-	17-	56-	39379

Satellite	Date	AOS Time	LOS Time	Duration	Interval Between	AOS Az	Max EI	LOS Az	Orbit num.
K7 (37)	21/12/04	17:56:12	18:02:13	00:06:00	00:07:37	158-	8-	101-	38407
T4 (44)	21/12/04	18:13:16	18:23:23	00:10:06	00:11:03	313-	19-	64-	39382
K3 (33)	21/12/04	18:28:51	18:38:29	00:09:37	00:05:28	182-	17-	78-	38408
K6 (26)	21/12/04	18:39:08	18:48:54	00:09:45	00:00:39	314-	18-	64-	39426
T1 (28)	21/12/04	18:50:04	19:00:45	00:10:41	00:01:10	315-	22-	77-	39295
K9 (39)	21/12/04	19:02:25	19:13:55	00:11:29	00:01:39	203-	34-	65-	38408
T2 (40)	21/12/04	19:23:00	19:34:20	00:11:19	00:09:05	315-	29-	89-	39380
K7 (37)	21/12/04	19:36:05	19:48:17	00:12:11	00:01:45	220-	59-	58-	38408
K4 (24)	21/12/04	19:38:28	19:47:34	00:00:04	-----	178-	15-	81-	38558
T4 (44)	21/12/04	19:57:11	20:09:04	00:11:53	00:09:37	313-	40-	102-	39383
K3 (33)	21/12/04	20:10:45	20:23:08	00:12:22	00:01:41	235-	82-	53-	38409
K6 (26)	21/12/04	20:22:17	20:33:51	00:10:42	-----	314-	40-	103-	39427
T1 (28)	21/12/04	20:33:43	20:46:02	00:12:11	-----	309-	65-	118-	39296
K9 (39)	21/12/04	20:45:45	20:57:51	00:11:49	-----	252-	47-	48-	38409
T2 (40)	21/12/04	21:06:37	21:18:57	00:12:20	00:08:46	304-	76-	133-	39381
K4 (24)	21/12/04	21:20:11	21:32:29	00:12:18	00:01:13	232-	89-	54-	38559
K7 (37)	21/12/04	21:20:20	21:31:57	00:00:03	-----	265-	33-	46-	38409
T4 (44)	21/12/04	21:40:58	21:52:51	00:11:53	00:09:00	298-	44-	148-	39384
K3 (33)	21/12/04	21:55:45	22:06:44	00:10:58	00:02:53	279-	25-	45-	38410
R3 (45)	21/12/04	22:02:14	22:08:12	00:01:27	-----	158-	8-	101-	39570
K6 (26)	21/12/04	22:05:24	22:16:50	00:08:37	-----	297-	41-	150-	39428
T1 (28)	21/12/04	22:18:00	22:28:35	00:10:34	00:01:10	287-	23-	168-	39297
T3 (25)	21/12/04	22:26:52	22:34:06	00:05:31	-----	163-	10-	94-	38365
K9 (39)	21/12/04	22:31:19	22:41:37	00:07:30	-----	293-	20-	47-	38410
T2 (40)	21/12/04	22:51:52	22:59:56	00:08:03	00:10:14	272-	12-	190-	39382
K4 (24)	21/12/04	23:05:10	23:16:10	00:11:00	00:05:13	277-	26-	45-	38560
K7 (37)	21/12/04	23:06:06	23:16:03	00:00:06	-----	302-	18-	50-	38410
K3 (33)	21/12/04	23:41:25	23:51:18	00:09:52	00:25:22	309-	17-	57-	38411
R3 (45)	21/12/04	23:41:54	23:53:57	00:02:39	-----	220-	59-	58-	39571
R1 (47)	21/12/04	23:54:37	00:02:01	00:07:23	00:00:40	165-	11-	92-	39536
T3 (25)	21/12/05	00:08:01	00:20:43	00:12:41	00:06:00	222-	64-	57-	38366
K9 (39)	21/12/05	00:16:33	00:26:48	00:06:04	-----	314-	19-	68-	38411
R2 (38)	21/12/05	00:42:52	00:53:47	00:10:55	00:16:04	194-	26-	69-	40608
K7 (37)	21/12/05	00:50:51	01:01:37	00:07:49	-----	316-	23-	78-	38411
K4 (24)	21/12/05	00:50:58	01:00:43	00:00:05	-----	308-	17-	55-	38561
K3 (33)	21/12/05	01:25:39	01:37:04	00:11:24	00:24:56	315-	30-	91-	38412
R3 (45)	21/12/05	01:25:53	01:37:20	00:00:16	-----	266-	32-	46-	39572
R1 (47)	21/12/05	01:35:14	01:47:33	00:10:12	-----	224-	69-	57-	39537
T3 (25)	21/12/05	01:53:14	02:05:15	00:12:00	00:05:40	267-	33-	47-	38367
K9 (39)	21/12/05	02:00:21	02:12:24	00:07:09	-----	312-	45-	107-	38412
R2 (38)	21/12/05	02:25:40	02:37:56	00:12:15	00:13:16	245-	59-	50-	40609
K7 (37)	21/12/05	02:34:28	02:46:48	00:08:51	-----	309-	70-	120-	38412
K4 (24)	21/12/05	02:35:22	02:46:35	00:00:01	-----	315-	28-	89-	38562
K3 (33)	21/12/05	03:09:17	03:21:34	00:12:17	00:22:42	303-	71-	135-	38413
R3 (45)	21/12/05	03:11:21	03:21:08	00:00:02	-----	302-	17-	50-	39573
R1 (47)	21/12/05	03:19:43	03:31:11	00:10:02	-----	269-	30-	46-	39538
T3 (25)	21/12/05	03:39:51	03:50:19	00:10:27	00:08:40	302-	19-	53-	38368
K9 (39)	21/12/05	03:44:15	03:55:51	00:05:32	-----	295-	36-	154-	38413
R2 (38)	21/12/05	04:11:03	04:21:36	00:10:33	00:15:12	287-	21-	46-	40610
K7 (37)	21/12/05	04:18:52	04:29:09	00:07:32	-----	285-	21-	171-	38413

Satellite	Date	AOS Time	LOS Time	Duration	Interval Between	AOS Az	Max EI	LOS Az	Orbit num.
K4 (24)	21/12/05	04:19:03	04:31:21	00:02:11	-----	304-	78-	133-	38563
K3 (33)	21/12/05	04:54:45	05:02:16	00:07:30	00:23:24	269-	11-	195-	38414
R3 (45)	21/12/05	04:55:48	05:06:25	00:04:09	-----	316-	23-	78-	39574
R1 (47)	21/12/05	05:05:29	05:15:23	00:08:58	-----	304-	18-	52-	39539
T3 (25)	21/12/05	05:25:23	05:36:49	00:11:25	00:10:00	315-	25-	82-	38369
S3 (42)	21/12/05	05:35:42	05:40:53	00:04:03	-----	155-	7-	100-	39505
R2 (38)	21/12/05	05:56:29	06:06:32	00:10:02	00:15:36	312-	18-	63-	40611
K4 (24)	21/12/05	06:04:21	06:12:30	00:05:57	-----	272-	12-	191-	38564
S4 (29)	21/12/05	06:06:14	06:15:17	00:02:47	-----	177-	15-	82-	39422
S1 (46)	21/12/05	06:07:46	06:17:13	00:01:55	-----	180-	16-	80-	39423
R3 (45)	21/12/05	06:39:08	06:51:19	00:12:11	00:21:54	309-	70-	120-	39575
S2 (43)	21/12/05	06:40:19	06:51:31	00:00:11	-----	198-	29-	67-	39511
R1 (47)	21/12/05	06:50:05	07:01:02	00:09:31	-----	316-	24-	82-	39540
T3 (25)	21/12/05	07:09:54	07:22:44	00:12:50	00:08:51	308-	79-	124-	38370
S3 (42)	21/12/05	07:15:09	07:27:18	00:04:33	-----	218-	55-	59-	39506
R2 (38)	21/12/05	07:40:26	07:52:15	00:11:48	00:13:08	314-	38-	100-	40612
S4 (29)	21/12/05	07:47:47	08:00:10	00:07:55	-----	232-	89-	54-	39423
S1 (46)	21/12/05	07:49:32	08:01:56	00:01:45	-----	234-	85-	53-	39424
R3 (45)	21/12/05	08:23:14	08:33:24	00:10:10	00:21:18	285-	21-	171-	39576
S2 (43)	21/12/05	08:23:22	08:35:34	00:02:09	-----	249-	53-	49-	39512
R1 (47)	21/12/05	08:33:42	08:46:03	00:10:29	-----	307-	80-	124-	39541
T3 (25)	21/12/05	08:55:19	09:05:38	00:10:19	00:09:16	283-	19-	175-	38371
S3 (42)	21/12/05	08:59:18	09:11:00	00:05:21	-----	264-	35-	46-	39507
R2 (38)	21/12/05	09:24:11	09:36:10	00:11:58	00:13:11	299-	47-	146-	40613
S4 (29)	21/12/05	09:32:38	09:43:46	00:07:36	-----	276-	26-	45-	39424
S1 (46)	21/12/05	09:34:29	09:45:32	00:01:45	-----	278-	25-	45-	39425
S2 (43)	21/12/05	10:08:50	10:19:17	00:10:26	00:23:18	290-	21-	46-	39513
R1 (47)	21/12/05	10:18:19	10:27:59	00:08:41	-----	281-	18-	177-	39542
S3 (42)	21/12/05	10:45:02	10:55:02	00:10:00	00:17:03	301-	18-	50-	39508
S4 (29)	21/12/05	11:18:21	11:28:14	00:09:53	00:23:18	308-	17-	55-	39425
S1 (46)	21/12/05	11:20:09	11:30:03	00:01:49	-----	308-	17-	56-	39426
T2 (40)	21/12/05	11:31:51	11:36:33	00:04:41	00:01:48	147-	7-	102-	39390
S2 (43)	21/12/05	11:54:11	12:04:20	00:10:08	00:17:37	313-	19-	65-	39514
T4 (44)	21/12/05	12:03:33	12:12:37	00:08:16	-----	177-	15-	82-	39393
K6 (26)	21/12/05	12:22:08	12:30:37	00:08:29	00:09:31	174-	14-	85-	39437
S3 (42)	21/12/05	12:29:51	12:40:34	00:09:56	-----	315-	22-	77-	39509
T1 (28)	21/12/05	12:38:50	12:50:01	00:09:27	-----	198-	30-	67-	39306
S4 (29)	21/12/05	13:02:41	13:13:59	00:11:17	00:12:39	315-	28-	88-	39426
S1 (46)	21/12/05	13:04:26	13:15:48	00:01:49	-----	315-	29-	90-	39427
T2 (40)	21/12/05	13:11:07	13:23:12	00:07:23	-----	217-	53-	60-	39391
S2 (43)	21/12/05	13:38:03	13:50:00	00:11:56	00:14:51	313-	41-	103-	39515
T4 (44)	21/12/05	13:45:06	13:57:29	00:07:29	-----	232-	89-	54-	39394
K6 (26)	21/12/05	14:02:47	14:14:55	00:12:08	00:05:17	230-	84-	54-	39438
S3 (42)	21/12/05	14:13:29	14:25:49	00:10:53	-----	309-	66-	118-	39510
T1 (28)	21/12/05	14:21:54	14:34:04	00:08:15	-----	249-	53-	49-	39307
S4 (29)	21/12/05	14:46:18	14:58:39	00:12:21	00:12:13	305-	79-	132-	39427
S1 (46)	21/12/05	14:48:03	15:00:23	00:01:43	-----	304-	74-	134-	39428
T2 (40)	21/12/05	14:55:11	15:06:54	00:06:31	-----	263-	35-	46-	39392
S2 (43)	21/12/05	15:21:52	15:33:43	00:11:50	00:14:58	297-	42-	150-	39516
T4 (44)	21/12/05	15:29:57	15:41:06	00:07:22	-----	276-	26-	45-	39395

Satellite	Date	AOS Time	LOS Time	Duration	Interval Between	AOS Az	Max El	LOS Az	Orbit num.
K6 (26)	21/12/05	15:46:51	15:57:48	00:10:56	00:05:45	275-	26-	45-	39439
S3 (42)	21/12/05	15:57:48	16:08:21	00:10:32	-----	287-	23-	169-	39511
T1 (28)	21/12/05	16:07:22	16:17:47	00:09:26	-----	290-	20-	46-	39308
S4 (29)	21/12/05	16:31:27	16:39:47	00:08:19	00:13:39	274-	13-	189-	39428
S1 (46)	21/12/05	16:33:23	16:41:15	00:01:28	-----	271-	12-	193-	39429
T2 (40)	21/12/05	16:40:56	16:50:55	00:09:39	-----	300-	18-	50-	39393
T4 (44)	21/12/05	17:15:40	17:25:33	00:09:52	00:24:44	308-	17-	55-	39396
K6 (26)	21/12/05	17:31:54	17:41:25	00:09:30	00:06:21	308-	17-	53-	39440
K3 (33)	21/12/05	17:33:56	17:39:44	00:01:04	-----	156-	8-	102-	38422
T1 (28)	21/12/05	17:52:43	18:02:51	00:10:08	00:12:58	313-	19-	65-	39309
K9 (39)	21/12/05	18:06:15	18:16:09	00:09:53	00:03:24	185-	19-	76-	38422
T2 (40)	21/12/05	18:25:46	18:36:25	00:10:39	00:09:36	315-	22-	76-	39394
K7 (37)	21/12/05	18:39:28	18:50:51	00:11:23	00:03:02	201-	32-	66-	38422
K4 (24)	21/12/05	18:45:11	18:49:53	00:00:05	-----	148-	7-	102-	38572
T4 (44)	21/12/05	19:00:00	19:11:17	00:11:16	00:10:07	315-	28-	88-	39397
K3 (33)	21/12/05	19:13:43	19:25:54	00:12:10	00:02:26	219-	58-	59-	38423
K6 (26)	21/12/05	19:15:36	19:26:24	00:00:30	-----	316-	25-	85-	39441
T1 (28)	21/12/05	19:36:35	19:48:31	00:11:56	00:10:11	313-	41-	103-	39310
K9 (39)	21/12/05	19:48:20	20:00:42	00:12:10	-----	237-	78-	52-	38423
T2 (40)	21/12/05	20:09:24	20:21:43	00:12:18	00:08:42	310-	64-	118-	39395
K7 (37)	21/12/05	20:22:41	20:34:50	00:12:08	00:00:58	251-	50-	49-	38423
K4 (24)	21/12/05	20:24:34	20:36:36	00:01:46	-----	217-	53-	60-	38573
T4 (44)	21/12/05	20:43:37	20:55:57	00:12:20	00:07:00	305-	80-	132-	39398
K3 (33)	21/12/05	20:57:56	21:09:34	00:11:38	00:01:58	265-	34-	46-	38424
K6 (26)	21/12/05	20:58:30	21:10:29	00:00:55	-----	306-	88-	129-	39442
T1 (28)	21/12/05	21:20:24	21:32:14	00:11:50	00:09:54	297-	42-	150-	39311
K9 (39)	21/12/05	21:33:24	21:44:19	00:10:54	00:01:10	280-	24-	45-	38424
T2 (40)	21/12/05	21:53:40	22:04:19	00:10:38	00:09:21	287-	23-	167-	39396
K7 (37)	21/12/05	22:08:13	22:18:34	00:10:21	00:03:54	291-	20-	47-	38424
K4 (24)	21/12/05	22:08:45	22:20:23	00:01:48	-----	263-	35-	46-	38574
T4 (44)	21/12/05	22:28:46	22:37:06	00:08:19	00:08:22	274-	13-	189-	39399
R3 (45)	21/12/05	22:41:32	22:52:39	00:11:07	00:04:25	199-	30-	67-	39585
K6 (26)	21/12/05	22:42:44	22:51:15	00:01:02	-----	276-	14-	185-	39443
K3 (33)	21/12/05	22:43:42	22:53:39	00:02:23	-----	301-	18-	50-	38425
K9 (39)	21/12/05	23:19:02	23:28:56	00:09:53	00:25:23	310-	18-	58-	38425
T3 (25)	21/12/05	23:22:37	23:34:54	00:05:57	-----	210-	43-	62-	38380
R2 (38)	21/12/05	23:47:01	23:55:44	00:08:42	00:12:07	175-	14-	84-	40622
K7 (37)	21/12/05	23:53:30	00:03:42	00:07:58	-----	314-	19-	67-	38425
K4 (24)	21/12/05	23:54:37	00:04:29	00:00:47	-----	300-	18-	49-	38575
R3 (45)	21/12/06	00:24:22	00:36:23	00:12:01	00:19:52	250-	51-	49-	39586
K3 (33)	21/12/06	00:28:27	00:39:12	00:02:48	-----	315-	23-	78-	38426
R1 (47)	21/12/06	00:38:28	00:50:10	00:10:57	-----	206-	38-	64-	39551
K9 (39)	21/12/06	01:03:13	01:14:42	00:11:28	00:13:03	315-	31-	93-	38426
T3 (25)	21/12/06	01:07:11	01:19:35	00:04:53	-----	257-	42-	48-	38381
R2 (38)	21/12/06	01:28:22	01:40:44	00:12:22	00:08:47	230-	84-	55-	40623
K7 (37)	21/12/06	01:37:20	01:49:20	00:08:35	-----	313-	43-	105-	38426
K4 (24)	21/12/06	01:39:32	01:50:06	00:00:46	-----	316-	22-	76-	38576
R3 (45)	21/12/06	02:09:35	02:19:49	00:10:14	00:19:28	291-	20-	46-	39587
K3 (33)	21/12/06	02:12:05	02:24:24	00:04:35	-----	309-	69-	120-	38427
R1 (47)	21/12/06	02:22:00	02:34:02	00:09:37	-----	255-	44-	48-	39552

Satellite	Date	AOS Time	LOS Time	Duration	Interval Between	AOS Az	Max EI	LOS Az	Orbit num.
K9 (39)	21/12/06	02:46:52	02:59:07	00:12:15	00:12:49	303-	66-	137-	38427
T3 (25)	21/12/06	02:53:43	03:04:23	00:05:16	-----	296-	20-	49-	38382
R2 (38)	21/12/06	03:13:08	03:24:20	00:11:12	00:08:44	274-	27-	45-	40624
K7 (37)	21/12/06	03:21:12	03:32:53	00:08:32	-----	296-	38-	152-	38427
K4 (24)	21/12/06	03:23:15	03:35:30	00:02:36	-----	310-	64-	118-	38577
R3 (45)	21/12/06	03:54:37	04:04:36	00:09:59	00:19:06	314-	18-	65-	39588
K3 (33)	21/12/06	03:56:27	04:06:48	00:02:12	-----	286-	21-	171-	38428
R1 (47)	21/12/06	04:07:38	04:17:51	00:10:13	00:00:49	294-	19-	47-	39553
K9 (39)	21/12/06	04:32:32	04:39:33	00:07:00	00:14:40	266-	10-	199-	38428
T3 (25)	21/12/06	04:39:38	04:50:38	00:11:00	00:00:05	314-	22-	74-	38383
R2 (38)	21/12/06	04:58:52	05:08:44	00:09:51	00:08:13	307-	17-	54-	40625
K4 (24)	21/12/06	05:07:37	05:18:10	00:09:26	-----	287-	23-	168-	38578
S1 (46)	21/12/06	05:13:03	05:18:12	00:00:02	-----	155-	7-	100-	39437
R3 (45)	21/12/06	05:38:10	05:49:59	00:11:48	00:19:58	313-	41-	104-	39589
S2 (43)	21/12/06	05:44:19	05:53:36	00:03:37	-----	179-	16-	80-	39525
R1 (47)	21/12/06	05:52:46	06:03:06	00:09:30	-----	314-	20-	70-	39554
S3 (42)	21/12/06	06:18:34	06:29:48	00:11:14	00:15:27	198-	30-	67-	39520
T3 (25)	21/12/06	06:24:14	06:36:56	00:07:07	-----	310-	57-	114-	38384
R2 (38)	21/12/06	06:43:16	06:54:27	00:11:11	00:06:19	315-	27-	86-	40626
S4 (29)	21/12/06	06:50:50	07:02:53	00:08:25	-----	215-	51-	60-	39437
S1 (46)	21/12/06	06:52:30	07:04:38	00:01:45	-----	218-	55-	59-	39438
R3 (45)	21/12/06	07:21:42	07:33:22	00:11:39	00:17:04	297-	41-	150-	39590
S2 (43)	21/12/06	07:26:00	07:38:23	00:05:00	-----	233-	88-	54-	39526
R1 (47)	21/12/06	07:36:32	07:48:39	00:10:15	-----	312-	49-	109-	39555
S3 (42)	21/12/06	08:01:39	08:13:51	00:12:11	00:13:00	249-	52-	49-	39521
T3 (25)	21/12/06	08:09:12	08:20:44	00:06:53	-----	291-	29-	161-	38385
R2 (38)	21/12/06	08:26:52	08:39:13	00:12:20	00:06:08	305-	85-	130-	40627
S4 (29)	21/12/06	08:34:50	08:46:36	00:07:23	-----	262-	36-	47-	39438
S1 (46)	21/12/06	08:36:38	08:48:20	00:01:43	-----	264-	35-	46-	39439
S2 (43)	21/12/06	09:10:54	09:22:00	00:11:05	00:22:34	277-	26-	45-	39527
R1 (47)	21/12/06	09:20:30	09:31:56	00:09:56	-----	293-	33-	157-	39556
S3 (42)	21/12/06	09:47:08	09:57:34	00:10:26	00:15:12	290-	20-	46-	39522
R2 (38)	21/12/06	10:11:52	10:20:35	00:08:42	00:14:17	276-	14-	186-	40628
S4 (29)	21/12/06	10:20:34	10:30:36	00:10:01	-----	299-	18-	49-	39439
S1 (46)	21/12/06	10:22:22	10:32:22	00:01:45	-----	301-	18-	50-	39440
S2 (43)	21/12/06	10:56:35	11:06:29	00:09:53	00:24:13	308-	17-	56-	39528
S3 (42)	21/12/06	11:32:28	11:42:38	00:10:09	00:25:58	313-	19-	65-	39523
T1 (28)	21/12/06	11:42:51	11:52:08	00:09:17	00:00:13	179-	16-	80-	39320
S4 (29)	21/12/06	12:05:27	12:16:05	00:10:38	00:13:18	315-	22-	75-	39440
S1 (46)	21/12/06	12:07:11	12:17:54	00:01:48	-----	315-	22-	77-	39441
T2 (40)	21/12/06	12:14:33	12:25:41	00:07:47	-----	197-	29-	68-	39405
S2 (43)	21/12/06	12:40:53	12:52:14	00:11:20	00:15:12	315-	29-	89-	39529
T4 (44)	21/12/06	12:48:08	13:00:11	00:07:56	-----	215-	51-	60-	39408
K6 (26)	21/12/06	12:56:28	13:08:01	00:07:49	-----	207-	40-	63-	39452
S3 (42)	21/12/06	13:16:20	13:28:18	00:11:57	00:08:19	313-	41-	104-	39524
T1 (28)	21/12/06	13:24:33	13:36:55	00:08:37	-----	233-	87-	53-	39321
S4 (29)	21/12/06	13:49:06	14:01:24	00:12:18	00:12:11	310-	62-	117-	39441
S1 (46)	21/12/06	13:50:49	14:03:09	00:01:44	-----	309-	66-	118-	39442
T2 (40)	21/12/06	13:57:34	14:09:45	00:06:36	-----	248-	54-	49-	39406
S2 (43)	21/12/06	14:24:30	14:36:51	00:12:20	00:14:45	304-	76-	133-	39530

Satellite	Date	AOS Time	LOS Time	Duration	Interval Between	AOS Az	Max EI	LOS Az	Orbit num.
T4 (44)	21/12/06	14:32:08	14:43:54	00:07:03	-----	262-	36-	47-	39409
K6 (26)	21/12/06	14:39:23	14:51:08	00:07:13	-----	256-	42-	47-	39453
S3 (42)	21/12/06	15:00:09	15:11:58	00:11:49	00:09:01	297-	41-	150-	39525
T1 (28)	21/12/06	15:09:28	15:20:31	00:08:32	-----	277-	26-	45-	39322
S4 (29)	21/12/06	15:33:20	15:44:07	00:10:46	00:12:48	288-	24-	166-	39442
S1 (46)	21/12/06	15:35:08	15:45:41	00:01:33	-----	287-	23-	169-	39443
T2 (40)	21/12/06	15:43:01	15:53:27	00:07:46	-----	289-	21-	46-	39407
S2 (43)	21/12/06	16:09:46	16:17:50	00:08:03	00:16:18	272-	12-	191-	39531
T4 (44)	21/12/06	16:17:52	16:27:54	00:10:01	00:00:02	299-	18-	49-	39410
K6 (26)	21/12/06	16:24:21	16:34:13	00:06:19	-----	296-	18-	47-	39454
T1 (28)	21/12/06	16:55:09	17:05:01	00:09:52	00:20:55	308-	17-	56-	39323
K9 (39)	21/12/06	17:11:07	17:17:34	00:06:26	00:06:05	160-	9-	98-	38436
T2 (40)	21/12/06	17:28:22	17:38:29	00:10:06	00:10:48	313-	19-	65-	39408
K7 (37)	21/12/06	17:43:22	17:53:02	00:09:40	00:04:52	182-	18-	78-	38436
T4 (44)	21/12/06	18:02:45	18:13:22	00:10:37	00:09:42	315-	22-	75-	39411
K6 (26)	21/12/06	18:08:46	18:18:46	00:05:23	-----	315-	19-	69-	39455
K3 (33)	21/12/06	18:17:07	18:28:27	00:09:41	-----	200-	32-	66-	38437
T1 (28)	21/12/06	18:39:27	18:50:47	00:11:20	00:10:59	315-	29-	89-	39324
K9 (39)	21/12/06	18:51:14	19:03:28	00:12:13	00:00:27	221-	62-	58-	38437
T2 (40)	21/12/06	19:12:15	19:24:10	00:11:54	00:08:47	313-	40-	103-	39409
K7 (37)	21/12/06	19:25:18	19:37:41	00:12:22	00:01:07	235-	81-	53-	38437
K4 (24)	21/12/06	19:29:21	19:40:32	00:02:51	-----	198-	30-	67-	38587
T4 (44)	21/12/06	19:46:24	19:58:41	00:12:17	00:05:52	310-	62-	116-	39412
K6 (26)	21/12/06	19:51:48	20:03:34	00:04:52	-----	312-	48-	109-	39456
K3 (33)	21/12/06	20:00:18	20:12:27	00:08:52	-----	250-	50-	49-	38438
T1 (28)	21/12/06	20:23:04	20:35:23	00:12:19	00:10:36	304-	76-	133-	39325
K9 (39)	21/12/06	20:35:33	20:47:07	00:11:34	00:00:09	267-	32-	46-	38438
T2 (40)	21/12/06	20:56:03	21:07:55	00:11:51	00:08:55	297-	43-	149-	39410
K7 (37)	21/12/06	21:10:18	21:21:17	00:10:58	00:02:23	279-	25-	45-	38438
K4 (24)	21/12/06	21:12:32	21:24:39	00:03:22	-----	249-	53-	49-	38588
T4 (44)	21/12/06	21:30:38	21:41:23	00:10:45	00:05:58	288-	25-	166-	39413
K6 (26)	21/12/06	21:35:04	21:46:06	00:04:42	-----	293-	32-	157-	39457
R3 (45)	21/12/06	21:41:51	21:50:51	00:04:44	-----	178-	15-	82-	39599
K3 (33)	21/12/06	21:45:49	21:56:11	00:05:20	-----	291-	20-	46-	38439
T1 (28)	21/12/06	22:08:20	22:16:20	00:08:00	00:12:08	272-	12-	191-	39326
K9 (39)	21/12/06	22:21:19	22:31:15	00:09:55	00:05:00	302-	18-	51-	38439
T3 (25)	21/12/06	22:37:26	22:48:59	00:11:33	00:06:11	197-	29-	67-	38394
K7 (37)	21/12/06	22:55:58	23:05:51	00:09:53	00:06:59	309-	17-	57-	38439
K4 (24)	21/12/06	22:58:08	23:08:27	00:02:35	-----	290-	20-	46-	38589
R3 (45)	21/12/06	23:23:11	23:35:25	00:12:13	00:14:43	232-	89-	54-	39600
K3 (33)	21/12/06	23:31:07	23:41:18	00:05:53	-----	314-	19-	66-	38440
R1 (47)	21/12/06	23:42:12	23:52:28	00:10:16	00:00:54	185-	21-	74-	39565
K9 (39)	21/12/07	00:06:01	00:16:50	00:10:49	00:13:33	316-	23-	79-	38440
T3 (25)	21/12/07	00:21:15	00:33:56	00:12:40	00:04:24	247-	56-	50-	38395
R2 (38)	21/12/07	00:31:26	00:43:25	00:09:28	-----	213-	47-	61-	40637
K7 (37)	21/12/07	00:40:12	00:51:37	00:08:12	-----	315-	30-	91-	38440
K4 (24)	21/12/07	00:43:34	00:53:36	00:01:58	-----	314-	19-	65-	38590
R3 (45)	21/12/07	01:07:46	01:18:43	00:10:56	00:14:10	277-	26-	45-	39601
K3 (33)	21/12/07	01:14:58	01:26:56	00:08:13	-----	313-	43-	105-	38441
R1 (47)	21/12/07	01:24:31	01:36:53	00:09:56	-----	240-	71-	51-	39566

Satellite	Date	AOS Time	LOS Time	Duration	Interval Between	AOS Az	Max EI	LOS Az	Orbit num.
K9 (39)	21/12/07	01:49:38	02:01:59	00:12:20	00:12:45	308-	73-	121-	38441
T3 (25)	21/12/07	02:07:33	02:18:32	00:10:58	00:05:34	288-	22-	47-	38396
R2 (38)	21/12/07	02:15:19	02:27:10	00:08:37	-----	260-	38-	47-	40638
K7 (37)	21/12/07	02:23:49	02:36:07	00:08:56	-----	303-	70-	135-	38441
K4 (24)	21/12/07	02:27:31	02:39:23	00:03:16	-----	313-	41-	103-	38591
R3 (45)	21/12/07	02:53:11	03:02:53	00:09:42	00:13:48	308-	17-	55-	39602
K3 (33)	21/12/07	02:58:48	03:10:32	00:07:38	-----	296-	39-	152-	38442
R1 (47)	21/12/07	03:09:42	03:20:30	00:09:57	-----	283-	23-	45-	39567
K9 (39)	21/12/07	03:34:06	03:44:13	00:10:06	00:13:35	284-	20-	173-	38442
T3 (25)	21/12/07	03:53:48	04:04:28	00:10:40	00:09:34	312-	20-	66-	38397
R2 (38)	21/12/07	04:01:02	04:11:06	00:06:38	-----	298-	18-	49-	40639
K7 (37)	21/12/07	04:09:19	04:16:46	00:05:39	-----	269-	11-	196-	38442
K4 (24)	21/12/07	04:11:25	04:23:12	00:06:25	-----	297-	41-	150-	38592
R3 (45)	21/12/07	04:37:13	04:48:21	00:11:08	00:14:00	316-	28-	88-	39603
S2 (43)	21/12/07	04:49:40	04:54:30	00:04:49	00:01:18	149-	7-	101-	39539
R1 (47)	21/12/07	04:55:16	05:05:13	00:09:56	00:00:46	311-	18-	59-	39568
S3 (42)	21/12/07	05:22:33	05:31:55	00:09:22	00:17:19	180-	16-	80-	39534
T3 (25)	21/12/07	05:38:35	05:51:00	00:12:25	00:06:39	313-	43-	104-	38398
R2 (38)	21/12/07	05:46:00	05:56:32	00:05:31	-----	315-	21-	74-	40640
S4 (29)	21/12/07	05:54:18	06:05:22	00:08:50	-----	196-	28-	68-	39451
S1 (46)	21/12/07	05:55:54	06:07:08	00:01:45	-----	198-	30-	67-	39452
R3 (45)	21/12/07	06:20:32	06:32:44	00:12:12	00:13:24	305-	79-	132-	39604
S2 (43)	21/12/07	06:28:59	06:41:05	00:08:21	-----	217-	53-	60-	39540
R1 (47)	21/12/07	06:39:23	06:50:59	00:09:53	-----	315-	33-	95-	39569
S3 (42)	21/12/07	07:04:17	07:16:40	00:12:23	00:13:18	233-	86-	53-	39535
T3 (25)	21/12/07	07:23:16	07:35:33	00:12:17	00:06:35	297-	43-	150-	38399
R2 (38)	21/12/07	07:29:40	07:41:55	00:06:21	-----	310-	58-	115-	40641
S4 (29)	21/12/07	07:37:14	07:49:28	00:07:33	-----	247-	56-	49-	39452
S1 (46)	21/12/07	07:38:58	07:51:10	00:01:41	-----	249-	53-	49-	39453
R3 (45)	21/12/07	08:05:25	08:13:35	00:08:09	00:14:15	273-	13-	190-	39605
S2 (43)	21/12/07	08:13:04	08:24:48	00:11:13	-----	263-	35-	46-	39541
R1 (47)	21/12/07	08:23:03	08:35:14	00:10:26	-----	301-	60-	140-	39570
S3 (42)	21/12/07	08:49:12	09:00:16	00:11:04	00:13:58	277-	25-	45-	39536
R2 (38)	21/12/07	09:13:49	09:24:45	00:10:56	00:13:32	290-	26-	164-	40642
S4 (29)	21/12/07	09:22:40	09:33:10	00:08:24	-----	289-	21-	46-	39453
S1 (46)	21/12/07	09:24:27	09:34:53	00:01:42	-----	290-	20-	46-	39454
S2 (43)	21/12/07	09:58:48	10:08:49	00:10:00	00:23:55	300-	18-	50-	39542
R1 (47)	21/12/07	10:09:06	10:15:12	00:06:06	00:00:16	262-	9-	205-	39571
S3 (42)	21/12/07	10:34:53	10:44:47	00:09:53	00:19:41	308-	17-	56-	39537
T1 (28)	21/12/07	10:48:13	10:53:05	00:04:51	00:03:25	149-	7-	101-	39334
S4 (29)	21/12/07	11:08:03	11:18:10	00:10:06	00:14:58	313-	19-	64-	39454
S1 (46)	21/12/07	11:09:47	11:19:57	00:01:46	-----	313-	19-	65-	39455
T2 (40)	21/12/07	11:18:35	11:27:44	00:07:47	-----	178-	16-	81-	39419
S2 (43)	21/12/07	11:43:38	11:54:19	00:10:40	00:15:54	315-	22-	76-	39543
K6 (26)	21/12/07	11:50:58	12:00:36	00:06:17	-----	184-	18-	77-	39466
T4 (44)	21/12/07	11:51:35	12:02:39	00:02:02	-----	196-	28-	68-	39422
S3 (42)	21/12/07	12:19:10	12:30:32	00:11:21	00:16:31	315-	29-	90-	39538
T1 (28)	21/12/07	12:27:34	12:39:39	00:09:06	-----	217-	53-	60-	39335
S4 (29)	21/12/07	12:51:58	13:03:52	00:11:53	00:12:19	313-	39-	102-	39455
S1 (46)	21/12/07	12:53:39	13:05:37	00:01:44	-----	313-	41-	104-	39456

Satellite	Date	AOS Time	LOS Time	Duration	Interval Between	AOS Az	Max EI	LOS Az	Orbit num.
T2 (40)	21/12/07	13:00:12	13:12:34	00:06:57	-----	233-	89-	54-	39420
S2 (43)	21/12/07	13:27:17	13:39:36	00:12:18	00:14:43	310-	64-	118-	39544
K6 (26)	21/12/07	13:32:19	13:44:28	00:04:51	-----	237-	77-	52-	39467
T4 (44)	21/12/07	13:34:31	13:46:45	00:02:17	-----	247-	56-	49-	39423
S3 (42)	21/12/07	14:02:47	14:15:07	00:12:19	00:16:02	304-	75-	134-	39539
T1 (28)	21/12/07	14:11:39	14:23:21	00:08:13	-----	263-	35-	46-	39336
S4 (29)	21/12/07	14:35:45	14:47:41	00:11:55	00:12:23	298-	44-	148-	39456
S1 (46)	21/12/07	14:37:28	14:49:18	00:01:37	-----	297-	41-	150-	39457
T2 (40)	21/12/07	14:45:05	14:56:10	00:06:52	-----	277-	26-	45-	39421
S2 (43)	21/12/07	15:11:34	15:22:12	00:10:38	00:15:23	287-	23-	168-	39545
K6 (26)	21/12/07	15:16:41	15:27:20	00:05:08	-----	281-	24-	44-	39468
T4 (44)	21/12/07	15:19:56	15:30:27	00:03:06	-----	288-	21-	46-	39424
S3 (42)	21/12/07	15:48:06	15:56:02	00:07:56	00:17:39	271-	12-	192-	39540
T1 (28)	21/12/07	15:57:24	16:07:23	00:09:58	00:01:21	300-	18-	50-	39337
T2 (40)	21/12/07	16:30:47	16:40:39	00:09:51	00:23:24	308-	17-	56-	39422
K7 (37)	21/12/07	16:48:25	16:54:18	00:05:53	00:07:45	157-	8-	101-	38450
K6 (26)	21/12/07	17:01:38	17:11:12	00:09:33	00:07:19	310-	17-	56-	39469
T4 (44)	21/12/07	17:05:20	17:15:26	00:04:14	-----	313-	19-	64-	39425
K3 (33)	21/12/07	17:21:03	17:30:38	00:09:34	00:05:37	182-	17-	78-	38451
T1 (28)	21/12/07	17:42:14	17:52:54	00:10:40	00:11:35	315-	22-	76-	39338
K9 (39)	21/12/07	17:54:34	18:06:03	00:11:28	00:01:40	202-	34-	65-	38451
T2 (40)	21/12/07	18:15:05	18:26:24	00:11:18	00:09:02	315-	28-	89-	39423
K7 (37)	21/12/07	18:28:14	18:40:26	00:12:11	00:01:50	219-	58-	59-	38451
K4 (24)	21/12/07	18:34:41	18:44:06	00:03:40	-----	180-	16-	80-	38601
K6 (26)	21/12/07	18:45:08	18:56:14	00:11:05	00:01:01	316-	29-	91-	39470
T4 (44)	21/12/07	18:49:15	19:01:07	00:04:53	-----	313-	39-	102-	39426
K3 (33)	21/12/07	19:02:56	19:15:18	00:12:22	00:01:48	235-	83-	53-	38452
T1 (28)	21/12/07	19:25:52	19:38:11	00:12:18	00:10:33	310-	65-	118-	39339
K9 (39)	21/12/07	19:37:53	19:50:00	00:11:48	-----	252-	48-	48-	38452
T2 (40)	21/12/07	19:58:42	20:11:02	00:12:20	00:08:42	304-	77-	133-	39424
K7 (37)	21/12/07	20:12:28	20:24:06	00:11:38	00:01:25	265-	33-	46-	38452
K4 (24)	21/12/07	20:16:34	20:28:54	00:04:47	-----	234-	85-	53-	38602
K6 (26)	21/12/07	20:28:03	20:40:00	00:11:05	-----	303-	70-	136-	39471
T4 (44)	21/12/07	20:33:01	20:44:56	00:04:57	-----	298-	45-	148-	39427
K3 (33)	21/12/07	20:47:55	20:58:55	00:11:00	00:02:58	279-	25-	45-	38453
T1 (28)	21/12/07	21:10:09	21:20:45	00:10:36	00:11:14	287-	23-	167-	39340
K9 (39)	21/12/07	21:23:27	21:33:46	00:10:18	00:02:41	292-	20-	47-	38453
T2 (40)	21/12/07	21:43:55	21:52:03	00:08:08	00:10:09	273-	12-	190-	39425
T3 (25)	21/12/07	21:52:30	22:02:52	00:10:22	00:00:26	186-	20-	75-	38408
K7 (37)	21/12/07	21:58:14	22:08:11	00:05:18	-----	302-	18-	50-	38453
K4 (24)	21/12/07	22:01:38	22:12:34	00:04:23	-----	278-	25-	45-	38603
K6 (26)	21/12/07	22:12:54	22:19:53	00:06:59	00:00:19	267-	10-	198-	39472
R3 (45)	21/12/07	22:22:26	22:34:17	00:11:50	00:02:33	213-	48-	61-	39614
K3 (33)	21/12/07	22:33:35	22:43:28	00:09:11	-----	309-	17-	57-	38454
R1 (47)	21/12/07	22:46:47	22:54:05	00:07:18	00:03:18	165-	10-	93-	39579
K9 (39)	21/12/07	23:08:41	23:18:55	00:10:13	00:14:36	314-	19-	67-	38454
R2 (38)	21/12/07	23:34:57	23:45:51	00:10:53	00:16:02	193-	26-	70-	40651
T3 (25)	21/12/07	23:35:27	23:48:16	00:02:25	-----	237-	78-	52-	38409
K7 (37)	21/12/07	23:43:00	23:53:45	00:05:28	-----	315-	23-	78-	38454
K4 (24)	21/12/07	23:47:25	23:57:11	00:03:26	-----	309-	17-	56-	38604

Satellite	Date	AOS Time	LOS Time	Duration	Interval Between	AOS Az	Max El	LOS Az	Orbit num.
R3 (45)	21/12/08	00:06:05	00:17:45	00:11:39	00:08:54	261-	37-	47-	39615
K3 (33)	21/12/08	00:17:50	00:29:14	00:11:23	00:00:05	315-	30-	91-	38455
R1 (47)	21/12/08	00:27:21	00:39:39	00:10:25	-----	224-	68-	57-	39580
K9 (39)	21/12/08	00:52:30	01:04:32	00:12:01	00:12:50	313-	45-	106-	38455
R2 (38)	21/12/08	01:17:44	01:30:01	00:12:16	00:13:12	245-	59-	50-	40652
T3 (25)	21/12/08	01:21:23	01:32:46	00:02:45	-----	280-	25-	46-	38410
K7 (37)	21/12/08	01:26:37	01:38:57	00:06:10	-----	309-	69-	120-	38455
K4 (24)	21/12/08	01:31:46	01:43:03	00:04:05	-----	315-	29-	90-	38605
R3 (45)	21/12/08	01:51:31	02:01:24	00:09:52	00:08:28	299-	18-	48-	39616
K3 (33)	21/12/08	02:01:27	02:13:45	00:12:17	00:00:03	304-	71-	135-	38456
R1 (47)	21/12/08	02:11:49	02:23:17	00:09:31	-----	269-	30-	46-	39581
K9 (39)	21/12/08	02:36:23	02:48:00	00:11:37	00:13:06	295-	37-	153-	38456
R2 (38)	21/12/08	03:03:07	03:13:41	00:10:34	00:15:06	287-	21-	46-	40653
T3 (25)	21/12/08	03:07:52	03:18:20	00:04:39	-----	309-	19-	60-	38411
K7 (37)	21/12/08	03:11:00	03:21:19	00:02:58	-----	285-	21-	171-	38456
K4 (24)	21/12/08	03:15:28	03:27:43	00:06:24	-----	304-	73-	134-	38606
R3 (45)	21/12/08	03:36:09	03:46:33	00:10:24	00:08:25	316-	21-	74-	39617
K3 (33)	21/12/08	03:46:54	03:54:29	00:07:35	00:00:20	270-	11-	195-	38457
R1 (47)	21/12/08	03:57:35	04:07:29	00:09:54	00:03:05	304-	18-	52-	39582
S3 (42)	21/12/08	04:27:49	04:32:53	00:05:04	00:20:19	150-	7-	101-	39548
R2 (38)	21/12/08	04:48:33	04:58:36	00:10:02	00:15:39	312-	18-	63-	40654
T3 (25)	21/12/08	04:52:55	05:04:58	00:06:21	-----	314-	33-	95-	38412
S4 (29)	21/12/08	04:58:24	05:07:23	00:02:25	-----	177-	15-	82-	39465
S1 (46)	21/12/08	04:59:52	05:09:14	00:01:50	-----	180-	16-	80-	39466
K4 (24)	21/12/08	05:00:55	05:08:40	00:00:03	-----	270-	11-	194-	38607
R3 (45)	21/12/08	05:19:32	05:31:39	00:12:06	00:10:51	310-	58-	115-	39618
S2 (43)	21/12/08	05:32:25	05:43:35	00:11:09	00:00:45	197-	29-	68-	39554
R1 (47)	21/12/08	05:42:11	05:53:08	00:09:33	-----	316-	24-	82-	39583
S3 (42)	21/12/08	06:07:15	06:19:23	00:12:07	00:14:07	217-	54-	59-	39549
R2 (38)	21/12/08	06:32:31	06:44:19	00:11:48	00:13:08	314-	37-	100-	40655
T3 (25)	21/12/08	06:37:27	06:50:09	00:05:49	-----	302-	63-	139-	38413
S4 (29)	21/12/08	06:39:56	06:52:18	00:02:08	-----	231-	88-	54-	39466
S1 (46)	21/12/08	06:41:35	06:53:58	00:01:40	-----	233-	86-	53-	39467
R3 (45)	21/12/08	07:03:25	07:14:12	00:10:47	00:09:26	289-	26-	164-	39619
S2 (43)	21/12/08	07:15:26	07:27:38	00:12:12	00:01:13	248-	54-	49-	39555
R1 (47)	21/12/08	07:25:48	07:38:09	00:10:30	-----	308-	80-	124-	39584
S3 (42)	21/12/08	07:51:22	08:03:05	00:11:42	00:13:12	263-	35-	46-	39550
R2 (38)	21/12/08	08:16:16	08:28:15	00:11:59	00:13:10	299-	48-	146-	40656
T3 (25)	21/12/08	08:24:07	08:31:13	00:02:58	-----	266-	10-	200-	38414
S4 (29)	21/12/08	08:24:46	08:35:54	00:04:41	-----	276-	26-	45-	39467
S1 (46)	21/12/08	08:26:31	08:37:35	00:01:40	-----	277-	25-	45-	39468
S2 (43)	21/12/08	09:00:54	09:11:21	00:10:27	00:23:18	289-	21-	46-	39556
R1 (47)	21/12/08	09:10:24	09:20:07	00:08:45	-----	282-	18-	177-	39585
S3 (42)	21/12/08	09:37:07	09:47:07	00:10:00	00:17:00	300-	18-	50-	39551
S4 (29)	21/12/08	10:10:28	10:20:21	00:09:53	00:23:21	308-	17-	55-	39468
S1 (46)	21/12/08	10:12:12	10:22:05	00:01:44	-----	308-	17-	56-	39469
T2 (40)	21/12/08	10:24:04	10:28:32	00:04:27	00:01:58	145-	7-	101-	39433
S2 (43)	21/12/08	10:46:15	10:56:23	00:10:08	00:17:43	313-	19-	65-	39557
T4 (44)	21/12/08	10:55:40	11:04:38	00:08:15	-----	177-	15-	82-	39436
S3 (42)	21/12/08	11:21:56	11:32:38	00:10:42	00:17:17	315-	22-	77-	39552

Satellite	Date	AOS Time	LOS Time	Duration	Interval Between	AOS Az	Max EI	LOS Az	Orbit num.
T1 (28)	21/12/08	11:31:01	11:42:10	00:09:32	-----	197-	29-	67-	39349
S4 (29)	21/12/08	11:54:49	12:06:06	00:11:16	00:12:38	315-	28-	88-	39469
S1 (46)	21/12/08	11:56:29	12:07:50	00:01:44	-----	315-	29-	90-	39470
T2 (40)	21/12/08	12:03:12	12:15:16	00:07:25	-----	216-	52-	60-	39434
K6 (26)	21/12/08	12:25:48	12:37:38	00:11:50	00:10:31	215-	51-	60-	39481
S2 (43)	21/12/08	12:30:08	12:42:04	00:04:25	-----	313-	41-	103-	39558
T4 (44)	21/12/08	12:37:10	12:49:34	00:07:29	-----	231-	88-	54-	39437
S3 (42)	21/12/08	13:05:34	13:17:54	00:12:19	00:16:00	309-	65-	118-	39553
T1 (28)	21/12/08	13:14:03	13:26:14	00:08:19	-----	248-	53-	49-	39350
S4 (29)	21/12/08	13:38:26	13:50:47	00:12:21	00:12:11	305-	80-	132-	39470
S1 (46)	21/12/08	13:40:06	13:52:26	00:01:38	-----	304-	75-	134-	39471
T2 (40)	21/12/08	13:47:16	13:58:59	00:06:32	-----	263-	36-	46-	39435
K6 (26)	21/12/08	14:09:08	14:20:39	00:11:30	00:10:09	263-	35-	46-	39482
S2 (43)	21/12/08	14:13:56	14:25:48	00:05:09	-----	297-	43-	149-	39559
T4 (44)	21/12/08	14:22:00	14:33:10	00:07:21	-----	276-	26-	45-	39438
S3 (42)	21/12/08	14:49:52	15:00:27	00:10:34	00:16:42	287-	23-	168-	39554
T1 (28)	21/12/08	14:59:31	15:09:57	00:09:29	-----	290-	20-	46-	39351
S4 (29)	21/12/08	15:23:34	15:31:58	00:08:24	00:13:37	274-	13-	189-	39471
S1 (46)	21/12/08	15:25:24	15:33:21	00:01:23	-----	272-	12-	192-	39472
T2 (40)	21/12/08	15:33:00	15:43:00	00:09:37	-----	300-	18-	49-	39436
K6 (26)	21/12/08	15:54:11	16:03:53	00:09:42	00:11:11	300-	17-	48-	39483
T4 (44)	21/12/08	16:07:43	16:17:36	00:09:52	00:03:49	307-	17-	55-	39439
K3 (33)	21/12/08	16:26:11	18:05:55	01:39:43	00:08:34	156-	57-	218-	38465
T1 (28)	21/12/08	16:44:52	16:55:00	01:01:05	-----	313-	19-	65-	39352
K9 (39)	21/12/08	16:58:25	17:08:16	00:09:50	00:03:26	184-	18-	76-	38465
T2 (40)	21/12/08	17:17:51	17:28:29	00:10:38	00:09:34	315-	22-	76-	39437
K7 (37)	21/12/08	17:31:37	17:43:00	00:11:21	00:03:07	200-	32-	66-	38465
K6 (26)	21/12/08	17:38:21	17:48:38	00:05:38	-----	316-	21-	74-	39484
K4 (24)	21/12/08	17:41:10	17:46:39	00:01:05	-----	155-	8-	99-	38615
T4 (44)	21/12/08	17:52:04	18:03:20	00:11:15	00:05:25	315-	28-	88-	39440
T1 (28)	21/12/08	18:28:44	18:40:40	00:11:55	00:25:24	313-	41-	103-	39353
K9 (39)	21/12/08	18:40:28	18:52:51	00:12:10	-----	237-	78-	52-	38466
T2 (40)	21/12/08	19:01:29	19:13:47	00:12:17	00:08:38	310-	63-	117-	39438
K7 (37)	21/12/08	19:14:49	19:26:58	00:12:09	00:01:01	250-	50-	49-	38466
K4 (24)	21/12/08	19:20:55	19:33:02	00:06:03	-----	218-	56-	59-	38616
K6 (26)	21/12/08	19:21:18	19:33:15	00:00:12	-----	310-	59-	116-	39485
T4 (44)	21/12/08	19:35:41	19:48:02	00:12:20	00:02:26	305-	80-	131-	39441
K3 (33)	21/12/08	19:50:06	20:01:45	00:11:39	00:02:04	265-	34-	46-	38467
T1 (28)	21/12/08	20:12:33	20:24:24	00:11:50	00:10:47	297-	42-	149-	39354
K9 (39)	21/12/08	20:25:32	20:36:27	00:10:55	00:01:08	280-	24-	45-	38467
T2 (40)	21/12/08	20:45:45	20:56:25	00:10:40	00:09:17	288-	24-	167-	39439
K7 (37)	21/12/08	21:00:21	21:10:43	00:10:22	00:03:56	291-	20-	46-	38467
K6 (26)	21/12/08	21:04:48	21:15:16	00:04:33	-----	288-	24-	166-	39486
K4 (24)	21/12/08	21:05:12	21:16:48	00:01:31	-----	264-	34-	46-	38617
T3 (25)	21/12/08	21:08:00	21:16:26	00:00:02	-----	170-	12-	87-	38422
T4 (44)	21/12/08	21:20:48	21:29:13	00:08:24	00:04:22	274-	13-	189-	39442
R3 (45)	21/12/08	21:22:15	21:32:52	00:03:39	-----	192-	25-	71-	39628
K3 (33)	21/12/08	21:35:51	21:45:49	00:09:57	00:02:59	301-	18-	50-	38468
K9 (39)	21/12/08	22:11:10	22:21:04	00:09:53	00:25:21	310-	18-	58-	38468
R2 (38)	21/12/08	22:39:08	22:47:47	00:08:38	00:18:04	174-	14-	85-	40665

Satellite	Date	AOS Time	LOS Time	Duration	Interval Between	AOS Az	Max El	LOS Az	Orbit num.
K7 (37)	21/12/08	22:45:38	22:55:50	00:08:03	-----	314-	19-	66-	38468
T3 (25)	21/12/08	22:49:47	23:02:34	00:06:43	-----	226-	75-	56-	38423
K4 (24)	21/12/08	22:51:05	23:00:56	00:01:03	-----	301-	18-	50-	38618
R3 (45)	21/12/08	23:04:40	23:16:48	00:12:07	00:03:43	244-	61-	50-	39629
K3 (33)	21/12/08	23:20:38	23:31:22	00:10:43	00:03:49	315-	23-	78-	38469
R1 (47)	21/12/08	23:30:35	23:42:15	00:10:53	-----	206-	37-	64-	39594
K9 (39)	21/12/08	23:55:22	00:06:50	00:11:28	00:13:06	315-	31-	92-	38469
R2 (38)	21/12/09	00:20:27	00:32:49	00:12:22	00:13:36	229-	83-	55-	40666
K7 (37)	21/12/09	00:29:29	00:41:28	00:08:39	-----	313-	43-	105-	38469
T3 (25)	21/12/09	00:35:14	00:47:04	00:05:35	-----	271-	30-	46-	38424
K4 (24)	21/12/09	00:35:57	00:46:34	00:00:02	-----	316-	22-	77-	38619
R3 (45)	21/12/09	00:49:43	01:00:10	00:10:26	00:03:08	287-	21-	45-	39630
K3 (33)	21/12/09	01:04:16	01:16:35	00:12:19	00:04:06	309-	68-	119-	38470
R1 (47)	21/12/09	01:14:05	01:26:08	00:09:32	-----	254-	44-	48-	39595
K9 (39)	21/12/09	01:39:00	01:51:16	00:12:15	00:12:51	303-	67-	137-	38470
R2 (38)	21/12/09	02:05:11	02:16:25	00:11:13	00:13:55	274-	27-	45-	40667
K7 (37)	21/12/09	02:13:20	02:25:03	00:08:37	-----	296-	39-	152-	38470
K4 (24)	21/12/09	02:19:40	02:31:55	00:06:51	-----	309-	68-	119-	38620
T3 (25)	21/12/09	02:21:51	02:32:17	00:00:21	-----	304-	18-	55-	38425
R3 (45)	21/12/09	02:34:54	02:44:45	00:09:51	00:02:37	312-	18-	62-	39631
K3 (33)	21/12/09	02:48:37	02:59:00	00:10:22	00:03:52	286-	22-	170-	38471
R1 (47)	21/12/09	02:59:43	03:09:57	00:10:14	00:00:42	294-	19-	47-	39596
K9 (39)	21/12/09	03:24:38	03:31:44	00:07:06	00:14:41	267-	10-	198-	38471
R2 (38)	21/12/09	03:50:55	04:00:48	00:09:52	00:19:10	307-	17-	54-	40668
K4 (24)	21/12/09	04:04:06	04:14:28	00:10:21	00:03:18	286-	22-	171-	38621
S1 (46)	21/12/09	04:05:08	04:10:11	00:04:01	-----	150-	7-	101-	39480
T3 (25)	21/12/09	04:07:14	04:18:51	00:08:40	-----	315-	27-	85-	38426
R3 (45)	21/12/09	04:18:35	04:30:12	00:11:21	-----	314-	36-	99-	39632
S2 (43)	21/12/09	04:36:26	04:45:38	00:09:12	00:06:13	179-	16-	81-	39568
R1 (47)	21/12/09	04:44:52	04:55:12	00:09:33	-----	314-	20-	69-	39597
S3 (42)	21/12/09	05:10:40	05:21:53	00:11:12	00:15:28	198-	30-	67-	39563
R2 (38)	21/12/09	05:35:20	05:46:31	00:11:10	00:13:27	315-	27-	86-	40669
S4 (29)	21/12/09	05:42:59	05:55:00	00:08:29	-----	214-	50-	60-	39480
S1 (46)	21/12/09	05:44:33	05:56:41	00:01:40	-----	217-	54-	59-	39481
T3 (25)	21/12/09	05:51:44	06:04:34	00:07:53	-----	306-	90-	128-	38427
R3 (45)	21/12/09	06:02:01	06:13:56	00:09:22	-----	299-	50-	144-	39633
S2 (43)	21/12/09	06:18:05	06:30:27	00:12:22	00:04:08	233-	88-	54-	39569
R1 (47)	21/12/09	06:28:38	06:40:45	00:10:17	-----	312-	49-	109-	39598
S3 (42)	21/12/09	06:53:44	07:05:56	00:12:11	00:12:59	249-	53-	49-	39564
R2 (38)	21/12/09	07:18:56	07:31:18	00:12:21	00:13:00	306-	86-	130-	40670
S4 (29)	21/12/09	07:26:58	07:38:44	00:07:26	-----	262-	37-	47-	39481
S1 (46)	21/12/09	07:28:40	07:40:23	00:01:38	-----	263-	35-	46-	39482
T3 (25)	21/12/09	07:37:25	07:47:00	00:06:37	-----	279-	16-	181-	38428
R3 (45)	21/12/09	07:48:36	07:52:39	00:04:02	00:01:36	250-	6-	218-	39634
S2 (43)	21/12/09	08:02:58	08:14:03	00:11:05	00:10:18	277-	26-	45-	39570
R1 (47)	21/12/09	08:12:35	08:24:03	00:09:59	-----	293-	33-	157-	39599
S3 (42)	21/12/09	08:39:12	08:49:39	00:10:26	00:15:09	290-	20-	46-	39565
R2 (38)	21/12/09	09:03:55	09:12:42	00:08:46	00:14:15	276-	14-	186-	40671
S4 (29)	21/12/09	09:12:41	09:22:44	00:10:01	-----	299-	18-	49-	39482
S1 (46)	21/12/09	09:14:25	09:24:25	00:01:40	-----	300-	18-	50-	39483

Satellite	Date	AOS Time	LOS Time	Duration	Interval Between	AOS Az	Max El	LOS Az	Orbit num.
S2 (43)	21/12/09	09:48:39	09:58:33	00:09:53	00:24:14	308-	17-	56-	39571
S3 (42)	21/12/09	10:24:33	10:34:42	00:10:09	00:26:00	313-	19-	65-	39566
T1 (28)	21/12/09	10:35:03	10:44:16	00:09:13	00:00:20	179-	16-	81-	39363
S4 (29)	21/12/09	10:57:35	11:08:12	00:10:37	00:13:18	315-	22-	75-	39483
S1 (46)	21/12/09	10:59:14	11:09:56	00:01:43	-----	315-	22-	77-	39484
T2 (40)	21/12/09	11:06:39	11:17:45	00:07:49	-----	197-	28-	68-	39448
K6 (26)	21/12/09	11:20:00	11:30:27	00:10:27	00:02:14	190-	24-	71-	39495
S2 (43)	21/12/09	11:32:58	11:44:18	00:11:19	00:02:30	315-	29-	89-	39572
T4 (44)	21/12/09	11:40:12	11:52:14	00:07:56	-----	214-	50-	60-	39451
S3 (42)	21/12/09	12:08:25	12:20:22	00:11:56	00:16:10	313-	41-	103-	39567
T1 (28)	21/12/09	12:16:43	12:29:04	00:08:42	-----	233-	88-	54-	39364
S4 (29)	21/12/09	12:41:14	12:53:32	00:12:17	00:12:10	310-	61-	116-	39484
S1 (46)	21/12/09	12:42:52	12:55:12	00:01:39	-----	309-	65-	118-	39485
T2 (40)	21/12/09	12:49:38	13:01:50	00:06:38	-----	248-	54-	49-	39449
K6 (26)	21/12/09	13:01:55	13:14:00	00:12:04	00:00:05	243-	62-	50-	39496
S2 (43)	21/12/09	13:16:35	13:28:55	00:12:20	00:02:35	304-	77-	133-	39573
T4 (44)	21/12/09	13:24:11	13:35:59	00:07:03	-----	261-	37-	47-	39452
S3 (42)	21/12/09	13:52:14	14:04:04	00:11:50	00:16:15	297-	42-	150-	39568
T1 (28)	21/12/09	14:01:37	14:12:40	00:08:36	-----	277-	26-	45-	39365
S4 (29)	21/12/09	14:25:27	14:36:16	00:10:48	00:12:46	288-	25-	166-	39485
S1 (46)	21/12/09	14:27:10	14:37:45	00:01:29	-----	287-	23-	168-	39486
T2 (40)	21/12/09	14:35:05	14:45:32	00:07:46	-----	289-	21-	46-	39450
K6 (26)	21/12/09	14:46:32	14:56:55	00:10:22	00:01:00	286-	21-	45-	39497
S2 (43)	21/12/09	15:01:49	15:09:57	00:08:08	00:04:54	273-	12-	191-	39574
T4 (44)	21/12/09	15:09:55	15:19:57	00:10:00	-----	299-	18-	49-	39453
T1 (28)	21/12/09	15:47:18	15:57:10	00:09:51	00:27:20	308-	17-	56-	39366
K9 (39)	21/12/09	16:03:19	16:09:39	00:06:20	00:06:09	159-	9-	99-	38479
T2 (40)	21/12/09	16:20:27	16:30:33	00:10:06	00:10:47	313-	19-	64-	39451
K6 (26)	21/12/09	16:31:20	16:41:00	00:09:40	00:00:47	312-	17-	60-	39498
K7 (37)	21/12/09	16:35:33	16:45:10	00:04:09	-----	182-	17-	78-	38479
T4 (44)	21/12/09	16:54:48	17:05:25	00:10:36	00:09:38	315-	22-	75-	39454
K3 (33)	21/12/09	17:09:18	17:20:37	00:11:19	00:03:53	200-	31-	66-	38480
T1 (28)	21/12/09	17:31:36	17:42:55	00:11:19	00:10:58	315-	29-	89-	39367
K9 (39)	21/12/09	17:43:23	17:55:36	00:12:13	00:00:27	221-	61-	58-	38480
T2 (40)	21/12/09	18:04:20	18:16:14	00:11:54	00:08:43	313-	40-	103-	39452
K6 (26)	21/12/09	18:14:38	18:26:02	00:09:47	-----	315-	34-	97-	39499
K7 (37)	21/12/09	18:17:26	18:29:49	00:03:47	-----	235-	82-	53-	38480
K4 (24)	21/12/09	18:25:40	18:37:00	00:07:09	-----	200-	31-	66-	38630
T4 (44)	21/12/09	18:38:28	18:50:45	00:12:16	00:01:29	310-	61-	116-	39455
K3 (33)	21/12/09	18:52:28	19:04:38	00:12:09	00:01:42	250-	51-	49-	38481
T1 (28)	21/12/09	19:15:13	19:27:33	00:12:20	00:10:35	304-	77-	133-	39368
K9 (39)	21/12/09	19:27:41	19:39:16	00:11:35	00:00:08	266-	32-	46-	38481
T2 (40)	21/12/09	19:48:08	20:00:01	00:11:52	00:08:51	297-	43-	149-	39453
K6 (26)	21/12/09	19:57:38	20:09:25	00:09:24	-----	300-	54-	143-	39500
K7 (37)	21/12/09	20:02:26	20:13:26	00:04:00	-----	279-	25-	45-	38481
K4 (24)	21/12/09	20:08:58	20:21:04	00:07:38	-----	250-	50-	49-	38631
T4 (44)	21/12/09	20:22:41	20:33:29	00:10:47	00:01:37	288-	25-	166-	39456
R3 (45)	21/12/09	20:22:56	20:30:47	00:02:04	-----	169-	12-	89-	39642
T3 (25)	21/12/09	20:24:23	20:29:09	00:01:03	-----	147-	7-	102-	38436
K3 (33)	21/12/09	20:38:00	20:48:22	00:10:22	00:08:49	291-	20-	46-	38482

Satellite	Date	AOS Time	LOS Time	Duration	Interval Between	AOS Az	Max El	LOS Az	Orbit num.
T1 (28)	21/12/09	21:00:28	21:08:31	00:08:03	00:12:05	272-	12-	190-	39369
K9 (39)	21/12/09	21:13:27	21:23:23	00:09:56	00:04:55	302-	18-	51-	38482
K6 (26)	21/12/09	21:43:30	21:48:04	00:04:33	00:20:07	254-	7-	214-	39501
K7 (37)	21/12/09	21:48:06	21:58:00	00:09:53	00:00:02	309-	17-	57-	38482
K4 (24)	21/12/09	21:54:36	22:04:53	00:06:53	-----	291-	20-	46-	38632
R3 (45)	21/12/09	22:03:36	22:15:47	00:10:54	-----	227-	76-	56-	39643
T3 (25)	21/12/09	22:04:18	22:16:48	00:01:00	-----	215-	51-	60-	38437
K3 (33)	21/12/09	22:23:17	22:33:28	00:10:10	00:06:29	313-	19-	66-	38483
R1 (47)	21/12/09	22:34:20	22:44:33	00:10:13	00:00:52	185-	21-	74-	39608
K9 (39)	21/12/09	22:58:09	23:08:58	00:10:48	00:13:36	315-	23-	79-	38483
R2 (38)	21/12/09	23:23:31	23:35:29	00:11:57	00:14:33	212-	46-	61-	40680
K7 (37)	21/12/09	23:32:20	23:43:45	00:08:16	-----	315-	30-	91-	38483
K4 (24)	21/12/09	23:40:00	23:50:04	00:06:19	-----	314-	19-	66-	38633
R3 (45)	21/12/09	23:47:56	23:59:07	00:09:02	-----	272-	28-	45-	39644
T3 (25)	21/12/09	23:49:10	00:01:24	00:02:17	-----	261-	38-	47-	38438
K3 (33)	21/12/10	00:07:08	00:19:06	00:11:58	00:05:44	313-	43-	105-	38484
R1 (47)	21/12/10	00:16:37	00:28:59	00:09:52	-----	239-	72-	52-	39609
K9 (39)	21/12/10	00:41:47	00:54:07	00:12:20	00:12:48	309-	72-	121-	38484
R2 (38)	21/12/10	01:07:23	01:19:15	00:11:51	00:13:16	260-	38-	47-	40681
K7 (37)	21/12/10	01:15:58	01:28:16	00:09:00	-----	303-	71-	135-	38484
K4 (24)	21/12/10	01:23:55	01:35:49	00:07:33	-----	313-	43-	105-	38634
R3 (45)	21/12/10	01:33:24	01:43:06	00:07:17	-----	306-	17-	53-	39645
T3 (25)	21/12/10	01:35:45	01:46:18	00:03:12	-----	298-	19-	51-	38439
K3 (33)	21/12/10	01:50:59	02:02:45	00:11:46	00:04:40	296-	40-	151-	38485
R1 (47)	21/12/10	02:01:47	02:12:36	00:09:51	-----	282-	23-	45-	39610
K9 (39)	21/12/10	02:26:13	02:36:23	00:10:09	00:13:37	284-	20-	173-	38485
R2 (38)	21/12/10	02:53:06	03:03:11	00:10:04	00:16:43	298-	18-	49-	40682
K7 (37)	21/12/10	03:01:26	03:08:58	00:05:47	-----	269-	11-	195-	38485
K4 (24)	21/12/10	03:07:51	03:19:32	00:10:33	-----	296-	39-	152-	38635
R3 (45)	21/12/10	03:17:36	03:28:30	00:08:58	-----	316-	25-	83-	39646
T3 (25)	21/12/10	03:21:30	03:32:41	00:04:10	-----	314-	23-	77-	38440
S2 (43)	21/12/10	03:41:51	03:46:28	00:04:37	00:09:10	147-	7-	102-	39582
R1 (47)	21/12/10	03:47:22	03:57:19	00:09:56	00:00:53	310-	18-	59-	39611
S3 (42)	21/12/10	04:14:40	04:23:58	00:09:18	00:17:21	179-	16-	80-	39577
R2 (38)	21/12/10	04:38:04	04:48:35	00:10:31	00:14:05	315-	21-	73-	40683
S4 (29)	21/12/10	04:46:28	04:57:29	00:08:54	-----	195-	27-	69-	39494
S1 (46)	21/12/10	04:47:58	04:59:10	00:01:40	-----	198-	30-	67-	39495
R3 (45)	21/12/10	05:00:55	05:13:09	00:12:13	00:01:45	307-	86-	126-	39647
T3 (25)	21/12/10	05:06:03	05:18:50	00:05:40	-----	309-	65-	118-	38441
S2 (43)	21/12/10	05:21:04	05:33:09	00:12:05	00:02:14	216-	52-	60-	39583
R1 (47)	21/12/10	05:31:29	05:43:04	00:09:54	-----	315-	33-	95-	39612
S3 (42)	21/12/10	05:56:22	06:08:45	00:12:22	00:13:17	233-	87-	53-	39578
R2 (38)	21/12/10	06:21:45	06:34:00	00:12:14	00:13:00	311-	58-	114-	40684
S4 (29)	21/12/10	06:29:22	06:41:36	00:07:37	-----	247-	56-	50-	39495
S1 (46)	21/12/10	06:31:01	06:43:13	00:01:36	-----	249-	53-	49-	39496
R3 (45)	21/12/10	06:45:23	06:54:35	00:09:11	00:02:10	279-	16-	180-	39648
T3 (25)	21/12/10	06:51:11	07:02:17	00:07:41	-----	288-	24-	167-	38442
S2 (43)	21/12/10	07:05:08	07:16:52	00:11:44	00:02:50	263-	36-	46-	39584
R1 (47)	21/12/10	07:15:09	07:27:21	00:10:28	-----	302-	60-	140-	39613
S3 (42)	21/12/10	07:41:16	07:52:21	00:11:04	00:13:55	277-	26-	45-	39579

Satellite	Date	AOS Time	LOS Time	Duration	Interval Between	AOS Az	Max El	LOS Az	Orbit num.
R2 (38)	21/12/10	08:05:53	08:16:51	00:10:58	00:13:31	290-	27-	164-	40685
S4 (29)	21/12/10	08:14:47	08:25:18	00:08:26	-----	288-	21-	46-	39496
S1 (46)	21/12/10	08:16:29	08:26:56	00:01:37	-----	290-	20-	46-	39497
S2 (43)	21/12/10	08:50:52	09:00:53	00:10:00	00:23:56	300-	18-	50-	39585
R1 (47)	21/12/10	09:01:09	09:07:22	00:06:13	00:00:15	262-	9-	204-	39614
S3 (42)	21/12/10	09:26:58	09:36:51	00:09:53	00:19:35	308-	17-	56-	39580
T1 (28)	21/12/10	09:40:28	09:45:09	00:04:41	00:03:36	147-	7-	101-	39377
S4 (29)	21/12/10	10:00:11	10:10:17	00:10:06	00:15:01	313-	18-	64-	39497
S1 (46)	21/12/10	10:01:50	10:11:59	00:01:41	-----	313-	19-	65-	39498
T2 (40)	21/12/10	10:10:42	10:19:47	00:07:48	-----	178-	15-	81-	39462
K6 (26)	21/12/10	10:15:25	10:22:18	00:02:30	-----	163-	10-	95-	39509
S2 (43)	21/12/10	10:35:43	10:46:23	00:10:40	00:13:25	315-	22-	76-	39586
T4 (44)	21/12/10	10:43:40	10:54:42	00:08:19	-----	195-	27-	69-	39465
S3 (42)	21/12/10	11:11:15	11:22:36	00:11:21	00:16:33	315-	29-	89-	39581
T1 (28)	21/12/10	11:19:43	11:31:48	00:09:11	-----	217-	53-	60-	39378
S4 (29)	21/12/10	11:44:06	11:56:00	00:11:53	00:12:17	314-	39-	102-	39498
S1 (46)	21/12/10	11:45:42	11:57:39	00:01:39	-----	313-	41-	103-	39499
T2 (40)	21/12/10	11:52:17	12:04:39	00:07:00	-----	232-	90-	54-	39463
K6 (26)	21/12/10	11:55:12	12:07:14	00:02:35	-----	223-	67-	57-	39510
S2 (43)	21/12/10	12:19:22	12:31:41	00:12:18	00:12:07	310-	64-	117-	39587
T4 (44)	21/12/10	12:26:34	12:38:49	00:07:08	-----	247-	57-	50-	39466
S3 (42)	21/12/10	12:54:52	13:07:13	00:12:20	00:16:03	304-	76-	133-	39582
T1 (28)	21/12/10	13:03:48	13:15:31	00:08:17	-----	263-	35-	46-	39379
S4 (29)	21/12/10	13:27:53	13:39:49	00:11:56	00:12:22	298-	45-	148-	39499
S1 (46)	21/12/10	13:29:31	13:41:22	00:01:32	-----	297-	42-	150-	39500
T2 (40)	21/12/10	13:37:09	13:48:15	00:06:53	-----	276-	26-	45-	39464
K6 (26)	21/12/10	13:38:55	13:50:10	00:01:54	-----	269-	30-	45-	39511
S2 (43)	21/12/10	14:03:38	14:14:18	00:10:40	00:13:27	288-	24-	167-	39588
T4 (44)	21/12/10	14:12:00	14:22:31	00:08:12	-----	288-	21-	46-	39467
S3 (42)	21/12/10	14:40:09	14:48:11	00:08:01	00:17:38	272-	12-	192-	39583
T1 (28)	21/12/10	14:49:33	14:59:32	00:09:58	00:01:22	300-	18-	50-	39380
T2 (40)	21/12/10	15:22:51	15:32:43	00:09:51	00:23:19	308-	17-	55-	39465
K6 (26)	21/12/10	15:24:00	15:33:36	00:00:52	-----	304-	17-	50-	39512
K7 (37)	21/12/10	15:40:38	15:46:23	00:05:45	00:07:01	156-	8-	98-	38493
T4 (44)	21/12/10	15:57:23	16:07:29	00:10:05	00:11:00	313-	18-	64-	39468
K3 (33)	21/12/10	16:13:16	16:22:49	00:09:33	00:05:46	181-	17-	79-	38494
T1 (28)	21/12/10	16:34:23	16:45:02	00:10:39	00:11:33	315-	22-	76-	39381
K9 (39)	21/12/10	16:46:43	16:58:11	00:11:27	00:01:41	202-	33-	65-	38494
T2 (40)	21/12/10	17:07:10	17:18:28	00:11:17	00:09:00	315-	28-	89-	39466
K6 (26)	21/12/10	17:07:55	17:18:29	00:00:01	-----	316-	23-	79-	39513
K7 (37)	21/12/10	17:20:23	17:32:34	00:12:10	00:01:54	219-	57-	59-	38494
K4 (24)	21/12/10	17:30:55	17:40:35	00:08:01	-----	183-	18-	78-	38644
T4 (44)	21/12/10	17:41:19	17:53:11	00:11:52	00:00:43	314-	39-	101-	39469
K3 (33)	21/12/10	17:55:06	18:07:29	00:12:22	00:01:55	235-	84-	53-	38495
T1 (28)	21/12/10	18:18:02	18:30:20	00:12:18	00:10:32	310-	64-	118-	39382
K9 (39)	21/12/10	18:30:01	18:42:08	00:11:48	-----	252-	48-	48-	38495
T2 (40)	21/12/10	18:50:47	19:03:07	00:12:20	00:08:38	305-	78-	132-	39467
K6 (26)	21/12/10	18:50:49	19:02:52	00:00:01	-----	308-	74-	122-	39514
K7 (37)	21/12/10	19:04:36	19:16:15	00:11:38	00:01:44	265-	34-	46-	38495
K4 (24)	21/12/10	19:12:58	19:25:18	00:09:03	-----	235-	81-	53-	38645

Satellite	Date	AOS Time	LOS Time	Duration	Interval Between	AOS Az	Max El	LOS Az	Orbit num.
T4 (44)	21/12/10	19:25:05	19:37:01	00:11:42	-----	298-	45-	147-	39470
K3 (33)	21/12/10	19:40:05	19:51:05	00:11:00	00:03:03	278-	25-	45-	38496
T1 (28)	21/12/10	20:02:18	20:12:56	00:10:38	00:11:12	287-	23-	167-	39383
K9 (39)	21/12/10	20:15:34	20:25:54	00:10:19	00:02:38	292-	20-	47-	38496
K6 (26)	21/12/10	20:34:38	20:44:17	00:09:38	00:08:44	283-	19-	175-	39515
T2 (40)	21/12/10	20:35:58	20:44:11	00:00:06	-----	273-	13-	189-	39468
K7 (37)	21/12/10	20:50:22	21:00:19	00:09:57	00:06:10	301-	18-	50-	38496
K4 (24)	21/12/10	20:58:06	21:09:00	00:08:40	-----	279-	24-	45-	38646
R3 (45)	21/12/10	21:03:01	21:14:35	00:05:36	-----	207-	39-	63-	39657
T3 (25)	21/12/10	21:19:01	21:30:56	00:11:54	00:04:26	202-	35-	65-	38451
K3 (33)	21/12/10	21:25:45	21:35:38	00:04:42	-----	309-	17-	57-	38497
R1 (47)	21/12/10	21:38:56	21:46:09	00:07:12	00:03:17	164-	10-	93-	39622
K9 (39)	21/12/10	22:00:49	22:11:03	00:10:13	00:14:40	314-	19-	67-	38497
R2 (38)	21/12/10	22:27:03	22:37:54	00:10:51	00:16:00	193-	25-	70-	40694
K7 (37)	21/12/10	22:35:08	22:45:53	00:07:58	-----	315-	23-	78-	38497
K4 (24)	21/12/10	22:43:52	22:53:39	00:07:46	-----	309-	17-	57-	38647
R3 (45)	21/12/10	22:46:19	22:58:09	00:04:30	-----	256-	42-	47-	39658
T3 (25)	21/12/10	23:03:11	23:15:45	00:12:33	00:05:01	251-	49-	49-	38452
K3 (33)	21/12/10	23:10:00	23:21:24	00:05:38	-----	315-	29-	90-	38498
R1 (47)	21/12/10	23:19:27	23:31:45	00:10:21	-----	223-	67-	57-	39623
K9 (39)	21/12/10	23:44:38	23:56:40	00:12:01	00:12:53	313-	45-	106-	38498
R2 (38)	21/12/11	00:09:48	00:22:05	00:12:17	00:13:08	245-	60-	50-	40695
K7 (37)	21/12/11	00:18:46	00:31:05	00:09:00	-----	309-	69-	120-	38498
K4 (24)	21/12/11	00:28:10	00:39:30	00:08:25	-----	315-	30-	91-	38648
R3 (45)	21/12/11	00:31:41	00:41:42	00:02:11	-----	295-	19-	47-	39659
T3 (25)	21/12/11	00:49:36	01:00:25	00:10:49	00:07:54	291-	21-	48-	38453
K3 (33)	21/12/11	00:53:38	01:05:56	00:05:30	-----	304-	72-	135-	38499
R1 (47)	21/12/11	01:03:54	01:15:23	00:09:27	-----	269-	31-	46-	39624
K9 (39)	21/12/11	01:28:31	01:40:11	00:11:40	00:13:07	295-	37-	153-	38499
R2 (38)	21/12/11	01:55:10	02:05:46	00:10:35	00:14:58	287-	21-	46-	40696
K7 (37)	21/12/11	02:03:08	02:13:29	00:07:43	-----	286-	22-	171-	38499
K4 (24)	21/12/11	02:11:53	02:24:06	00:10:36	-----	303-	69-	136-	38649
R3 (45)	21/12/11	02:16:30	02:26:41	00:02:35	-----	315-	20-	70-	39660
T3 (25)	21/12/11	02:35:42	02:46:30	00:10:48	00:09:00	313-	21-	69-	38454
K3 (33)	21/12/11	02:39:03	02:46:43	00:00:12	-----	270-	11-	194-	38500
R1 (47)	21/12/11	02:49:40	02:59:35	00:09:55	00:02:56	304-	18-	52-	39625
S3 (42)	21/12/11	03:20:00	03:24:54	00:04:54	00:20:24	149-	7-	101-	39591
R2 (38)	21/12/11	03:40:37	03:50:40	00:10:02	00:15:43	312-	18-	63-	40697
S4 (29)	21/12/11	03:50:34	03:59:29	00:08:48	-----	176-	15-	83-	39508
S1 (46)	21/12/11	03:51:57	04:01:14	00:01:45	-----	179-	16-	80-	39509
K4 (24)	21/12/11	03:57:31	04:04:49	00:03:34	-----	268-	11-	197-	38650
R3 (45)	21/12/11	03:59:57	04:11:56	00:07:07	-----	312-	49-	110-	39661
T3 (25)	21/12/11	04:20:24	04:32:57	00:12:33	00:08:27	312-	48-	108-	38455
S2 (43)	21/12/11	04:24:30	04:35:38	00:02:41	-----	197-	29-	68-	39597
R1 (47)	21/12/11	04:34:17	04:45:13	00:09:34	-----	315-	24-	81-	39626
S3 (42)	21/12/11	04:59:21	05:11:28	00:12:06	00:14:07	217-	53-	60-	39592
R2 (38)	21/12/11	05:24:35	05:36:23	00:11:47	00:13:07	314-	37-	100-	40698
S4 (29)	21/12/11	05:32:04	05:44:26	00:08:02	-----	231-	88-	54-	39509
S1 (46)	21/12/11	05:33:39	05:46:01	00:01:35	-----	233-	87-	53-	39510
R3 (45)	21/12/11	05:43:38	05:54:53	00:08:51	-----	293-	32-	157-	39662

Satellite	Date	AOS Time	LOS Time	Duration	Interval Between	AOS Az	Max EI	LOS Az	Orbit num.
T3 (25)	21/12/11	06:05:11	06:17:12	00:12:01	00:10:17	295-	36-	155-	38456
S2 (43)	21/12/11	06:07:30	06:19:43	00:02:31	-----	248-	54-	49-	39598
R1 (47)	21/12/11	06:17:54	06:30:16	00:10:32	-----	308-	79-	124-	39627
S3 (42)	21/12/11	06:43:27	06:55:10	00:11:43	00:13:11	263-	35-	46-	39593
R2 (38)	21/12/11	07:08:20	07:20:20	00:12:00	00:13:09	299-	49-	145-	40699
S4 (29)	21/12/11	07:16:53	07:28:02	00:07:42	-----	275-	26-	45-	39510
S1 (46)	21/12/11	07:18:33	07:29:38	00:01:35	-----	277-	26-	45-	39511
S2 (43)	21/12/11	07:52:57	08:03:25	00:10:28	00:23:19	289-	21-	46-	39599
R1 (47)	21/12/11	08:02:29	08:12:15	00:08:49	-----	282-	18-	176-	39628
S3 (42)	21/12/11	08:29:11	08:39:11	00:10:00	00:16:56	300-	18-	50-	39594
S4 (29)	21/12/11	09:02:36	09:12:29	00:09:52	00:23:24	307-	17-	55-	39511
S1 (46)	21/12/11	09:04:14	09:14:08	00:01:38	-----	308-	17-	56-	39512
S2 (43)	21/12/11	09:38:19	09:48:27	00:10:07	00:24:11	313-	19-	65-	39600
T4 (44)	21/12/11	09:47:46	09:56:40	00:08:13	-----	176-	15-	83-	39479
S3 (42)	21/12/11	10:14:01	10:24:42	00:10:41	00:17:20	315-	22-	76-	39595
T1 (28)	21/12/11	10:23:11	10:34:19	00:09:36	-----	197-	29-	68-	39392
S4 (29)	21/12/11	10:46:57	10:58:13	00:11:16	00:12:37	315-	28-	88-	39512
S1 (46)	21/12/11	10:48:32	10:59:53	00:01:39	-----	315-	29-	89-	39513
K6 (26)	21/12/11	10:49:08	11:00:12	00:00:19	-----	199-	31-	67-	39524
T2 (40)	21/12/11	10:55:18	11:07:21	00:07:08	-----	215-	51-	60-	39477
S2 (43)	21/12/11	11:22:13	11:34:08	00:11:55	00:14:51	313-	40-	103-	39601
T4 (44)	21/12/11	11:29:15	11:41:37	00:07:29	-----	231-	87-	54-	39480
S3 (42)	21/12/11	11:57:40	12:09:59	00:12:19	00:16:02	310-	65-	118-	39596
T1 (28)	21/12/11	12:06:12	12:18:23	00:08:24	-----	248-	54-	49-	39393
S4 (29)	21/12/11	12:30:34	12:42:56	00:12:21	00:12:10	305-	81-	131-	39513
K6 (26)	21/12/11	12:31:35	12:43:30	00:00:34	-----	250-	50-	48-	39525
S1 (46)	21/12/11	12:32:09	12:44:29	00:00:58	-----	304-	76-	133-	39514
T2 (40)	21/12/11	12:39:20	12:51:04	00:06:34	-----	262-	36-	46-	39478
S2 (43)	21/12/11	13:06:00	13:17:53	00:11:52	00:14:56	297-	43-	149-	39602
T4 (44)	21/12/11	13:14:03	13:25:14	00:07:20	-----	275-	27-	45-	39481
S3 (42)	21/12/11	13:41:57	13:52:34	00:10:37	00:16:42	287-	23-	168-	39597
T1 (28)	21/12/11	13:51:39	14:02:06	00:09:32	-----	289-	21-	46-	39394
S4 (29)	21/12/11	14:15:40	14:24:08	00:08:28	00:13:34	274-	13-	188-	39514
K6 (26)	21/12/11	14:16:23	14:26:30	00:02:22	-----	291-	20-	45-	39526
S1 (46)	21/12/11	14:17:25	14:25:28	00:01:02	-----	272-	12-	192-	39515
T2 (40)	21/12/11	14:25:04	14:35:04	00:09:36	-----	300-	18-	49-	39479
T4 (44)	21/12/11	14:59:46	15:09:39	00:09:52	00:24:42	307-	17-	55-	39482
K3 (33)	21/12/11	15:18:26	15:23:57	00:05:31	00:08:46	155-	8-	99-	38508
T1 (28)	21/12/11	15:37:01	15:47:08	00:10:06	00:13:03	313-	19-	65-	39395
K9 (39)	21/12/11	15:50:36	16:00:24	00:09:48	00:03:28	184-	18-	77-	38508
K6 (26)	21/12/11	16:01:00	16:10:51	00:09:50	00:00:36	314-	18-	64-	39527
T2 (40)	21/12/11	16:09:55	16:20:33	00:09:42	-----	315-	22-	76-	39480
K7 (37)	21/12/11	16:23:47	16:35:07	00:11:20	00:03:13	200-	31-	66-	38508
K4 (24)	21/12/11	16:37:11	16:43:22	00:06:10	00:02:03	158-	9-	100-	38658
T4 (44)	21/12/11	16:44:08	16:55:23	00:11:15	00:00:46	315-	28-	87-	39483
K3 (33)	21/12/11	16:58:05	17:10:15	00:12:09	00:02:41	218-	56-	59-	38509
T1 (28)	21/12/11	17:20:54	17:32:49	00:11:54	00:10:39	313-	40-	103-	39396
K9 (39)	21/12/11	17:32:36	17:45:00	00:12:10	-----	236-	79-	52-	38509
K6 (26)	21/12/11	17:44:09	17:55:47	00:10:48	-----	314-	40-	103-	39528
T2 (40)	21/12/11	17:53:34	18:05:52	00:10:04	-----	310-	63-	117-	39481

Satellite	Date	AOS Time	LOS Time	Duration	Interval Between	AOS Az	Max El	LOS Az	Orbit num.
K7 (37)	21/12/11	18:06:57	18:19:07	00:12:09	00:01:05	250-	51-	49-	38509
K4 (24)	21/12/11	18:17:16	18:29:28	00:10:20	-----	220-	60-	58-	38659
T4 (44)	21/12/11	18:27:45	18:40:06	00:10:38	-----	305-	81-	131-	39484
K3 (33)	21/12/11	18:42:16	18:53:56	00:11:39	00:02:09	264-	34-	46-	38510
T1 (28)	21/12/11	19:04:42	19:16:33	00:11:51	00:10:46	297-	43-	149-	39397
K9 (39)	21/12/11	19:17:39	19:28:36	00:10:56	00:01:05	280-	24-	45-	38510
K6 (26)	21/12/11	19:27:15	19:38:46	00:10:10	-----	297-	41-	150-	39529
T2 (40)	21/12/11	19:37:49	19:48:31	00:09:45	-----	288-	24-	166-	39482
K7 (37)	21/12/11	19:52:29	20:02:52	00:10:22	00:03:57	291-	20-	46-	38510
K4 (24)	21/12/11	20:01:39	20:13:13	00:10:20	-----	266-	33-	46-	38660
R3 (45)	21/12/11	20:03:02	20:13:02	00:00:01	-----	187-	20-	75-	39671
T4 (44)	21/12/11	20:12:50	20:21:20	00:08:18	-----	275-	13-	188-	39485
K3 (33)	21/12/11	20:28:01	20:38:00	00:09:57	00:06:41	301-	18-	50-	38511
T3 (25)	21/12/11	20:33:59	20:44:55	00:06:55	-----	189-	23-	72-	38465
K9 (39)	21/12/11	21:03:18	21:13:12	00:09:54	00:18:23	309-	18-	58-	38511
R2 (38)	21/12/11	21:31:16	21:39:49	00:08:33	00:18:03	173-	13-	85-	40708
K7 (37)	21/12/11	21:37:47	21:47:58	00:08:08	-----	313-	19-	66-	38511
R3 (45)	21/12/11	21:45:00	21:57:12	00:09:14	-----	239-	73-	52-	39672
K4 (24)	21/12/11	21:47:32	21:57:23	00:00:10	-----	302-	18-	50-	38661
K3 (33)	21/12/11	22:12:48	22:23:32	00:10:43	00:15:25	315-	23-	77-	38512
T3 (25)	21/12/11	22:17:19	22:30:05	00:06:33	-----	241-	67-	51-	38466
R1 (47)	21/12/11	22:22:42	22:34:21	00:04:15	-----	205-	37-	64-	39637
K9 (39)	21/12/11	22:47:30	22:58:58	00:11:27	00:13:08	315-	31-	92-	38512
R2 (38)	21/12/11	23:12:31	23:24:53	00:12:22	00:13:33	229-	82-	55-	40709
K7 (37)	21/12/11	23:21:37	23:33:36	00:08:42	-----	313-	43-	105-	38512
R3 (45)	21/12/11	23:29:51	23:40:32	00:06:55	-----	282-	23-	45-	39673
K4 (24)	21/12/11	23:32:22	23:43:03	00:02:31	-----	316-	23-	78-	38662
K3 (33)	21/12/11	23:56:26	00:08:46	00:12:19	00:13:23	309-	67-	119-	38513
T3 (25)	21/12/12	00:03:25	00:14:38	00:05:51	-----	283-	23-	47-	38467
R1 (47)	21/12/12	00:06:11	00:18:14	00:03:36	-----	254-	45-	48-	39638
K9 (39)	21/12/12	00:31:08	00:43:24	00:12:16	00:12:53	303-	68-	136-	38513
R2 (38)	21/12/12	00:57:15	01:08:30	00:11:14	00:13:50	274-	27-	45-	40710
K7 (37)	21/12/12	01:05:28	01:17:12	00:08:42	-----	296-	39-	151-	38513
R3 (45)	21/12/12	01:15:10	01:24:55	00:07:42	-----	311-	17-	58-	39674
K4 (24)	21/12/12	01:16:04	01:28:20	00:03:24	-----	309-	71-	121-	38663
K3 (33)	21/12/12	01:40:47	01:51:12	00:10:24	00:12:27	286-	22-	170-	38514
T3 (25)	21/12/12	01:49:49	02:00:21	00:09:08	-----	310-	19-	62-	38468
R1 (47)	21/12/12	01:51:48	02:02:03	00:01:42	-----	294-	19-	47-	39639
K9 (39)	21/12/12	02:16:44	02:23:56	00:07:12	00:14:41	268-	10-	198-	38514
R2 (38)	21/12/12	02:43:00	02:52:52	00:09:52	00:19:02	306-	17-	54-	40711
S1 (46)	21/12/12	02:57:17	03:02:09	00:04:51	00:04:25	149-	7-	101-	39523
R3 (45)	21/12/12	02:59:00	03:10:24	00:08:15	-----	315-	32-	94-	39675
K4 (24)	21/12/12	03:00:35	03:10:44	00:00:19	-----	285-	20-	173-	38664
S2 (43)	21/12/12	03:28:32	03:37:41	00:09:08	00:17:48	178-	15-	81-	39611
T3 (25)	21/12/12	03:34:44	03:46:57	00:09:16	-----	314-	37-	98-	38469
R1 (47)	21/12/12	03:36:57	03:47:17	00:00:20	-----	314-	20-	69-	39640
S3 (42)	21/12/12	04:02:47	04:13:57	00:11:10	00:15:29	197-	29-	67-	39606
R2 (38)	21/12/12	04:27:25	04:38:35	00:11:10	00:13:27	315-	27-	86-	40712
S4 (29)	21/12/12	04:35:07	04:47:08	00:08:33	-----	214-	49-	60-	39523
S1 (46)	21/12/12	04:36:37	04:48:43	00:01:35	-----	217-	53-	60-	39524

Satellite	Date	AOS Time	LOS Time	Duration	Interval Between	AOS Az	Max El	LOS Az	Orbit num.
R3 (45)	21/12/12	04:42:22	04:54:27	00:05:43	-----	302-	62-	139-	39676
S2 (43)	21/12/12	05:10:09	05:22:32	00:12:22	00:15:42	232-	89-	54-	39612
T3 (25)	21/12/12	05:19:19	05:31:53	00:09:21	-----	300-	53-	143-	38470
R1 (47)	21/12/12	05:20:44	05:32:50	00:00:57	-----	312-	48-	109-	39641
S3 (42)	21/12/12	05:45:49	05:58:01	00:12:12	00:12:58	248-	54-	49-	39607
R2 (38)	21/12/12	06:11:01	06:23:23	00:12:21	00:13:00	306-	86-	129-	40713
S4 (29)	21/12/12	06:19:05	06:30:52	00:07:29	-----	261-	37-	47-	39524
S1 (46)	21/12/12	06:20:42	06:32:26	00:01:33	-----	263-	35-	46-	39525
R3 (45)	21/12/12	06:27:57	06:34:21	00:01:55	-----	264-	9-	202-	39677
S2 (43)	21/12/12	06:55:01	07:06:08	00:11:06	00:20:40	276-	26-	45-	39613
R1 (47)	21/12/12	07:04:41	07:16:10	00:10:02	-----	294-	33-	156-	39642
T3 (25)	21/12/12	07:06:42	07:12:05	00:04:04	-----	257-	7-	211-	38471
S3 (42)	21/12/12	07:31:16	07:41:44	00:10:27	00:19:11	290-	21-	46-	39608
R2 (38)	21/12/12	07:55:58	08:04:49	00:08:51	00:14:13	277-	14-	185-	40714
S4 (29)	21/12/12	08:04:49	08:14:51	00:10:02	-----	299-	18-	49-	39525
S1 (46)	21/12/12	08:06:27	08:16:27	00:01:35	-----	300-	18-	50-	39526
S2 (43)	21/12/12	08:40:43	08:50:36	00:09:53	00:24:16	308-	17-	56-	39614
S3 (42)	21/12/12	09:16:37	09:26:46	00:10:08	00:26:00	313-	19-	65-	39609
T1 (28)	21/12/12	09:27:14	09:36:23	00:09:09	00:00:27	178-	16-	81-	39406
K6 (26)	21/12/12	09:44:01	09:52:30	00:08:29	00:07:37	174-	14-	85-	39538
S4 (29)	21/12/12	09:49:43	10:00:19	00:07:49	-----	315-	22-	75-	39526
S1 (46)	21/12/12	09:51:17	10:01:58	00:01:38	-----	315-	22-	76-	39527
T2 (40)	21/12/12	09:58:45	10:09:49	00:07:51	-----	196-	28-	68-	39491
S2 (43)	21/12/12	10:25:02	10:36:21	00:11:18	00:15:12	315-	28-	89-	39615
T4 (44)	21/12/12	10:32:17	10:44:18	00:07:56	-----	214-	49-	60-	39494
S3 (42)	21/12/12	11:00:30	11:12:27	00:11:56	00:16:12	313-	41-	103-	39610
T1 (28)	21/12/12	11:08:52	11:21:14	00:08:46	-----	233-	89-	54-	39407
K6 (26)	21/12/12	11:24:40	11:36:48	00:12:07	00:03:26	230-	85-	54-	39539
S4 (29)	21/12/12	11:33:22	11:45:40	00:08:51	-----	310-	61-	116-	39527
S1 (46)	21/12/12	11:34:55	11:47:15	00:01:34	-----	310-	65-	118-	39528
T2 (40)	21/12/12	11:41:43	11:53:55	00:06:40	-----	247-	55-	49-	39492
S2 (43)	21/12/12	12:08:39	12:21:00	00:12:21	00:14:44	305-	78-	132-	39616
T4 (44)	21/12/12	12:16:14	12:28:03	00:07:02	-----	261-	37-	47-	39495
S3 (42)	21/12/12	12:44:19	12:56:10	00:11:51	00:16:16	297-	42-	149-	39611
T1 (28)	21/12/12	12:53:45	13:04:50	00:08:39	-----	277-	26-	45-	39408
K6 (26)	21/12/12	13:08:44	13:19:41	00:10:57	00:03:54	275-	26-	45-	39540
S4 (29)	21/12/12	13:17:35	13:28:25	00:08:43	-----	289-	25-	166-	39528
S1 (46)	21/12/12	13:19:12	13:29:50	00:01:24	-----	287-	23-	168-	39529
T2 (40)	21/12/12	13:27:09	13:37:37	00:07:47	-----	289-	21-	46-	39493
S2 (43)	21/12/12	13:53:51	14:02:04	00:08:13	00:16:14	273-	12-	190-	39617
T4 (44)	21/12/12	14:01:58	14:12:01	00:09:56	-----	299-	18-	49-	39496
T1 (28)	21/12/12	14:39:27	14:49:19	00:09:51	00:27:26	308-	17-	56-	39409
K6 (26)	21/12/12	14:53:46	15:03:20	00:09:34	00:04:27	307-	17-	53-	39541
K9 (39)	21/12/12	14:55:31	15:01:45	00:01:03	-----	159-	9-	99-	38522
T2 (40)	21/12/12	15:12:32	15:22:37	00:10:05	00:10:46	313-	19-	64-	39494
K7 (37)	21/12/12	15:27:43	15:37:19	00:09:35	00:05:05	182-	17-	79-	38522
T4 (44)	21/12/12	15:46:52	15:57:28	00:10:36	00:09:33	315-	22-	75-	39497
K3 (33)	21/12/12	16:01:30	16:12:48	00:11:17	00:04:01	199-	31-	67-	38523
T1 (28)	21/12/12	16:23:46	16:35:04	00:11:18	00:10:57	315-	28-	89-	39410
K9 (39)	21/12/12	16:35:32	16:47:45	00:12:12	00:00:28	220-	60-	58-	38523

Satellite	Date	AOS Time	LOS Time	Duration	Interval Between	AOS Az	Max EI	LOS Az	Orbit num.
K6 (26)	21/12/12	16:37:28	16:48:20	00:00:35	-----	316-	26-	85-	39542
T2 (40)	21/12/12	16:56:25	17:08:19	00:11:53	00:08:05	313-	40-	102-	39495
K7 (37)	21/12/12	17:09:35	17:21:58	00:12:23	00:01:16	235-	83-	53-	38523
K4 (24)	21/12/12	17:21:58	17:33:26	00:11:28	-----	202-	33-	65-	38673
T4 (44)	21/12/12	17:30:32	17:42:49	00:09:22	-----	310-	60-	116-	39498
K3 (33)	21/12/12	17:44:38	17:56:48	00:12:10	00:01:49	250-	51-	49-	38524
T1 (28)	21/12/12	18:07:22	18:19:42	00:12:20	00:10:33	304-	77-	133-	39411
K9 (39)	21/12/12	18:19:49	18:31:25	00:11:36	00:00:06	266-	33-	46-	38524
K6 (26)	21/12/12	18:20:21	18:32:26	00:01:01	-----	306-	88-	129-	39543
T2 (40)	21/12/12	18:40:12	18:52:06	00:11:53	00:07:46	298-	44-	148-	39496
K7 (37)	21/12/12	18:54:34	19:05:34	00:11:00	00:02:27	278-	25-	45-	38524
R3 (45)	21/12/12	19:04:14	19:10:32	00:04:57	-----	160-	9-	99-	39685
K4 (24)	21/12/12	19:05:23	19:17:28	00:06:56	-----	252-	48-	48-	38674
T4 (44)	21/12/12	19:14:44	19:25:34	00:08:05	-----	289-	25-	165-	39499
K3 (33)	21/12/12	19:30:09	19:40:32	00:10:23	00:04:34	291-	20-	46-	38525
T3 (25)	21/12/12	19:49:16	19:58:38	00:09:22	00:08:43	177-	15-	81-	38479
T1 (28)	21/12/12	19:52:35	20:00:43	00:02:05	-----	273-	12-	190-	39412
K6 (26)	21/12/12	20:04:36	20:13:11	00:08:35	00:03:52	276-	14-	185-	39544
K9 (39)	21/12/12	20:05:34	20:15:31	00:02:20	-----	302-	18-	51-	38525
K7 (37)	21/12/12	20:40:14	20:50:08	00:09:53	00:24:43	309-	17-	57-	38525
R3 (45)	21/12/12	20:44:04	20:56:09	00:06:01	-----	221-	62-	58-	39686
K4 (24)	21/12/12	20:51:04	21:01:19	00:05:09	-----	292-	20-	46-	38675
K3 (33)	21/12/12	21:15:28	21:25:37	00:10:09	00:14:08	313-	19-	66-	38526
R1 (47)	21/12/12	21:26:27	21:36:38	00:10:11	00:00:49	187-	20-	74-	39651
T3 (25)	21/12/12	21:31:35	21:44:24	00:07:45	-----	231-	87-	54-	38480
K9 (39)	21/12/12	21:50:18	22:01:06	00:10:48	00:05:53	315-	23-	79-	38526
R2 (38)	21/12/12	22:15:36	22:27:33	00:11:56	00:14:30	212-	46-	61-	40723
K7 (37)	21/12/12	22:24:29	22:35:53	00:08:19	-----	315-	30-	91-	38526
R3 (45)	21/12/12	22:28:07	22:39:31	00:03:37	-----	267-	32-	46-	39687
K4 (24)	21/12/12	22:36:25	22:46:33	00:07:02	-----	314-	19-	67-	38676
K3 (33)	21/12/12	22:59:19	23:11:17	00:11:57	00:12:45	313-	42-	104-	38527
R1 (47)	21/12/12	23:08:43	23:21:05	00:09:48	-----	239-	72-	52-	39652
T3 (25)	21/12/12	23:17:16	23:28:54	00:07:48	-----	275-	28-	46-	38481
K9 (39)	21/12/12	23:33:55	23:46:16	00:12:20	00:05:01	309-	71-	121-	38527
R2 (38)	21/12/12	23:59:27	00:11:19	00:11:52	00:13:11	259-	39-	47-	40724
K7 (37)	21/12/13	00:08:06	00:20:25	00:09:05	-----	304-	72-	135-	38527
R3 (45)	21/12/13	00:13:35	00:23:21	00:02:55	-----	303-	17-	50-	39688
K4 (24)	21/12/13	00:20:19	00:32:16	00:08:55	-----	313-	45-	106-	38677
K3 (33)	21/12/13	00:43:09	00:54:56	00:11:47	00:10:53	296-	40-	151-	38528
R1 (47)	21/12/13	00:53:52	01:04:42	00:09:46	-----	282-	23-	45-	39653
T3 (25)	21/12/13	01:03:50	01:14:15	00:09:32	-----	306-	18-	57-	38482
K9 (39)	21/12/13	01:18:21	01:28:33	00:10:11	00:04:05	285-	21-	172-	38528
R2 (38)	21/12/13	01:45:10	01:55:15	00:10:05	00:16:36	298-	18-	48-	40725
K7 (37)	21/12/13	01:53:33	02:01:10	00:05:54	-----	270-	11-	195-	38528
R3 (45)	21/12/13	01:58:00	02:08:39	00:07:29	-----	316-	23-	79-	39689
K4 (24)	21/12/13	02:04:18	02:15:51	00:07:12	-----	295-	36-	154-	38678
S2 (43)	21/12/13	02:34:04	02:38:26	00:04:22	00:18:12	145-	7-	102-	39625
R1 (47)	21/12/13	02:39:27	02:49:24	00:09:57	00:01:01	310-	18-	59-	39654
T3 (25)	21/12/13	02:49:04	03:00:52	00:11:27	-----	314-	29-	89-	38483
S3 (42)	21/12/13	03:06:47	03:16:01	00:09:13	00:05:55	179-	16-	81-	39620

Satellite	Date	AOS Time	LOS Time	Duration	Interval Between	AOS Az	Max EI	LOS Az	Orbit num.
R2 (38)	21/12/13	03:30:08	03:40:39	00:10:31	00:14:06	315-	21-	73-	40726
S4 (29)	21/12/13	03:38:37	03:49:37	00:08:57	-----	195-	27-	69-	39537
S1 (46)	21/12/13	03:40:02	03:51:12	00:01:35	-----	197-	29-	68-	39538
R3 (45)	21/12/13	03:41:19	03:53:31	00:02:18	-----	309-	72-	121-	39690
S2 (43)	21/12/13	04:13:09	04:25:14	00:12:04	00:19:37	216-	52-	60-	39626
R1 (47)	21/12/13	04:23:35	04:35:10	00:09:56	-----	315-	32-	94-	39655
T3 (25)	21/12/13	04:33:34	04:46:22	00:11:12	-----	305-	78-	133-	38484
S3 (42)	21/12/13	04:48:27	05:00:50	00:12:22	00:02:04	233-	88-	54-	39621
R2 (38)	21/12/13	05:13:49	05:26:03	00:12:14	00:12:59	311-	57-	114-	40727
S4 (29)	21/12/13	05:21:30	05:33:44	00:07:40	-----	246-	57-	50-	39538
S1 (46)	21/12/13	05:23:04	05:35:16	00:01:31	-----	248-	54-	49-	39539
R3 (45)	21/12/13	05:25:28	05:35:30	00:00:14	-----	284-	20-	173-	39691
S2 (43)	21/12/13	05:57:12	06:08:57	00:11:44	00:21:41	262-	36-	46-	39627
R1 (47)	21/12/13	06:07:15	06:19:28	00:10:30	-----	302-	61-	139-	39656
T3 (25)	21/12/13	06:19:36	06:28:18	00:08:42	00:00:08	274-	13-	189-	38485
S3 (42)	21/12/13	06:33:21	06:44:26	00:11:05	00:05:02	277-	26-	45-	39622
R2 (38)	21/12/13	06:57:57	07:08:57	00:11:00	00:13:30	290-	27-	163-	40728
S4 (29)	21/12/13	07:06:55	07:17:26	00:08:28	-----	288-	21-	46-	39539
S1 (46)	21/12/13	07:08:31	07:18:59	00:01:32	-----	289-	21-	46-	39540
S2 (43)	21/12/13	07:42:56	07:52:57	00:10:00	00:23:57	300-	18-	49-	39628
R1 (47)	21/12/13	07:53:11	07:59:33	00:06:21	00:00:14	263-	9-	204-	39657
S3 (42)	21/12/13	08:19:02	08:28:56	00:09:53	00:19:29	308-	17-	56-	39623
T1 (28)	21/12/13	08:32:44	08:37:13	00:04:28	00:03:48	145-	7-	101-	39420
S4 (29)	21/12/13	08:52:19	09:02:24	00:10:05	00:15:06	313-	18-	64-	39540
S1 (46)	21/12/13	08:53:52	09:04:01	00:01:36	-----	313-	19-	65-	39541
T2 (40)	21/12/13	09:02:49	09:11:50	00:07:48	-----	177-	15-	82-	39505
S2 (43)	21/12/13	09:27:47	09:38:26	00:10:39	00:15:57	315-	22-	76-	39629
T4 (44)	21/12/13	09:35:46	09:46:45	00:08:18	-----	195-	27-	69-	39508
S3 (42)	21/12/13	10:03:20	10:14:41	00:11:20	00:16:34	315-	29-	89-	39624
T1 (28)	21/12/13	10:11:53	10:23:57	00:09:16	-----	216-	52-	60-	39421
K6 (26)	21/12/13	10:18:22	10:29:53	00:05:55	-----	208-	40-	63-	39553
S4 (29)	21/12/13	10:36:14	10:48:07	00:11:52	00:06:21	314-	39-	101-	39541
S1 (46)	21/12/13	10:37:45	10:49:42	00:01:34	-----	313-	41-	103-	39542
T2 (40)	21/12/13	10:44:22	10:56:44	00:07:02	-----	232-	89-	54-	39506
S2 (43)	21/12/13	11:11:26	11:23:45	00:12:18	00:14:42	310-	63-	117-	39630
T4 (44)	21/12/13	11:18:38	11:30:53	00:07:08	-----	246-	57-	50-	39509
S3 (42)	21/12/13	11:46:57	11:59:18	00:12:20	00:16:04	304-	77-	133-	39625
T1 (28)	21/12/13	11:55:57	12:07:40	00:08:21	-----	263-	36-	46-	39422
K6 (26)	21/12/13	12:01:17	12:13:01	00:05:20	-----	257-	41-	47-	39554
S4 (29)	21/12/13	12:20:00	12:31:58	00:11:57	00:07:00	298-	46-	147-	39542
S1 (46)	21/12/13	12:21:34	12:33:25	00:01:27	-----	297-	42-	149-	39543
T2 (40)	21/12/13	12:29:13	12:40:20	00:06:54	-----	276-	26-	45-	39507
S2 (43)	21/12/13	12:55:41	13:06:24	00:10:42	00:15:21	288-	24-	167-	39631
T4 (44)	21/12/13	13:04:02	13:14:34	00:08:10	-----	288-	21-	46-	39510
S3 (42)	21/12/13	13:32:12	13:40:19	00:08:06	00:17:37	272-	12-	191-	39626
T1 (28)	21/12/13	13:41:41	13:51:41	00:09:59	00:01:22	300-	18-	49-	39423
K6 (26)	21/12/13	13:46:14	13:56:08	00:04:27	-----	296-	18-	47-	39555
T2 (40)	21/12/13	14:14:56	14:24:47	00:09:51	00:18:47	308-	17-	55-	39508
K7 (37)	21/12/13	14:32:51	14:38:28	00:05:37	00:08:03	156-	8-	99-	38536
T4 (44)	21/12/13	14:49:27	14:59:32	00:10:05	00:10:58	313-	18-	63-	39511

Satellite	Date	AOS Time	LOS Time	Duration	Interval Between	AOS Az	Max El	LOS Az	Orbit num.
K3 (33)	21/12/13	15:05:28	15:14:58	00:09:30	00:05:55	181-	17-	79-	38537
T1 (28)	21/12/13	15:26:32	15:37:11	00:10:38	00:11:33	315-	22-	76-	39424
K6 (26)	21/12/13	15:30:37	15:40:42	00:03:31	-----	315-	19-	69-	39556
K9 (39)	21/12/13	15:38:53	15:50:19	00:09:37	-----	202-	33-	66-	38537
T2 (40)	21/12/13	15:59:15	16:10:32	00:11:16	00:08:56	315-	28-	88-	39509
K7 (37)	21/12/13	16:12:33	16:24:43	00:12:10	00:02:00	219-	57-	59-	38537
K4 (24)	21/12/13	16:27:09	16:37:06	00:09:56	00:02:26	185-	19-	76-	38687
T4 (44)	21/12/13	16:33:23	16:45:15	00:08:08	-----	314-	39-	101-	39512
K3 (33)	21/12/13	16:47:17	16:59:40	00:12:22	00:02:02	234-	84-	53-	38538
T1 (28)	21/12/13	17:10:11	17:22:29	00:12:17	00:10:31	310-	63-	117-	39425
K6 (26)	21/12/13	17:13:39	17:25:31	00:03:01	-----	312-	49-	109-	39557
K9 (39)	21/12/13	17:22:09	17:34:17	00:08:46	-----	251-	49-	48-	38538
T2 (40)	21/12/13	17:42:52	17:55:12	00:12:20	00:08:35	305-	79-	132-	39510
K7 (37)	21/12/13	17:56:44	18:08:24	00:11:39	00:01:31	265-	34-	46-	38538
K4 (24)	21/12/13	18:09:21	18:21:43	00:12:22	00:00:57	237-	77-	52-	38688
T4 (44)	21/12/13	18:17:09	18:29:06	00:07:22	-----	298-	46-	147-	39513
K3 (33)	21/12/13	18:32:14	18:43:16	00:11:01	00:03:08	278-	25-	45-	38539
T1 (28)	21/12/13	18:54:26	19:05:08	00:10:41	00:11:10	288-	24-	167-	39426
K6 (26)	21/12/13	18:56:56	19:08:03	00:02:55	-----	293-	32-	158-	39558
T3 (25)	21/12/13	19:05:09	19:11:52	00:03:48	-----	160-	9-	97-	38493
K9 (39)	21/12/13	19:07:42	19:18:02	00:06:10	-----	292-	20-	47-	38539
T2 (40)	21/12/13	19:28:01	19:36:18	00:08:16	00:09:59	274-	13-	189-	39511
K7 (37)	21/12/13	19:42:30	19:52:28	00:09:58	00:06:11	301-	18-	50-	38539
R3 (45)	21/12/13	19:43:40	19:54:52	00:02:24	-----	200-	31-	66-	39700
K4 (24)	21/12/13	19:54:33	20:05:25	00:10:32	-----	280-	24-	45-	38689
K3 (33)	21/12/13	20:17:55	20:27:48	00:09:52	00:12:30	309-	17-	56-	38540
R1 (47)	21/12/13	20:31:05	20:38:12	00:07:07	00:03:17	164-	10-	94-	39665
T3 (25)	21/12/13	20:46:02	20:58:40	00:12:38	00:07:49	220-	61-	58-	38494
K9 (39)	21/12/13	20:52:57	21:03:11	00:04:30	-----	314-	19-	67-	38540
R2 (38)	21/12/13	21:19:09	21:29:58	00:10:49	00:15:58	192-	25-	70-	40737
R3 (45)	21/12/13	21:26:35	21:38:34	00:08:35	-----	251-	50-	49-	39701
K7 (37)	21/12/13	21:27:16	21:38:01	00:00:03	-----	315-	23-	77-	38540
K4 (24)	21/12/13	21:40:18	21:50:07	00:09:48	00:02:17	310-	17-	58-	38690
K3 (33)	21/12/13	22:02:11	22:13:34	00:11:22	00:12:03	315-	29-	90-	38541
R1 (47)	21/12/13	22:11:33	22:23:51	00:10:17	-----	223-	67-	57-	39666
T3 (25)	21/12/13	22:31:09	22:43:13	00:12:03	00:07:18	265-	34-	47-	38495
K9 (39)	21/12/13	22:36:47	22:48:48	00:05:35	-----	313-	44-	106-	38541
R2 (38)	21/12/13	23:01:53	23:14:10	00:12:17	00:13:04	244-	61-	50-	40738
K7 (37)	21/12/13	23:10:54	23:23:14	00:09:03	-----	309-	68-	119-	38541
R3 (45)	21/12/13	23:11:49	23:22:01	00:01:01	-----	291-	20-	46-	39702
K4 (24)	21/12/13	23:24:35	23:35:58	00:11:23	00:02:33	315-	31-	93-	38691
K3 (33)	21/12/13	23:45:48	23:58:07	00:12:18	00:09:50	304-	73-	134-	38542
R1 (47)	21/12/13	23:56:00	00:07:29	00:09:22	-----	268-	31-	46-	39667
T3 (25)	21/12/14	00:17:46	00:28:14	00:10:28	00:10:16	301-	19-	52-	38496
K9 (39)	21/12/14	00:20:39	00:32:20	00:04:05	-----	295-	37-	153-	38542
R2 (38)	21/12/14	00:47:14	00:57:50	00:10:36	00:14:53	286-	22-	46-	40739
K7 (37)	21/12/14	00:55:15	01:05:39	00:07:49	-----	286-	22-	170-	38542
R3 (45)	21/12/14	00:56:49	01:06:50	00:01:10	-----	314-	19-	66-	39703
K4 (24)	21/12/14	01:08:19	01:20:29	00:12:10	00:01:28	303-	65-	137-	38692
K3 (33)	21/12/14	01:31:11	01:38:56	00:07:44	00:10:42	270-	11-	194-	38543

Satellite	Date	AOS Time	LOS Time	Duration	Interval Between	AOS Az	Max El	LOS Az	Orbit num.
R1 (47)	21/12/14	01:41:45	01:51:41	00:09:55	00:02:48	303-	18-	52-	39668
T3 (25)	21/12/14	02:03:22	02:14:43	00:11:21	00:11:41	315-	25-	80-	38497
S3 (42)	21/12/14	02:12:11	02:16:54	00:02:10	-----	148-	7-	102-	39634
R2 (38)	21/12/14	02:32:41	02:42:44	00:10:02	00:15:47	312-	18-	62-	40740
R3 (45)	21/12/14	02:40:21	02:52:12	00:09:27	-----	313-	42-	105-	39704
S4 (29)	21/12/14	02:42:45	02:51:37	00:00:03	-----	176-	14-	84-	39551
S1 (46)	21/12/14	02:44:03	02:53:15	00:01:37	-----	179-	16-	81-	39552
K4 (24)	21/12/14	02:54:07	03:00:57	00:06:49	00:00:52	266-	10-	200-	38693
S2 (43)	21/12/14	03:16:36	03:27:42	00:11:05	00:15:39	196-	28-	68-	39640
R1 (47)	21/12/14	03:26:23	03:37:18	00:09:36	-----	315-	24-	81-	39669
T3 (25)	21/12/14	03:47:52	04:00:42	00:12:49	00:10:33	308-	75-	122-	38498
S3 (42)	21/12/14	03:51:27	04:03:32	00:02:50	-----	217-	53-	60-	39635
R2 (38)	21/12/14	04:16:40	04:28:27	00:11:47	00:13:07	314-	37-	99-	40741
R3 (45)	21/12/14	04:23:55	04:35:31	00:07:04	-----	296-	39-	151-	39705
S4 (29)	21/12/14	04:24:12	04:36:34	00:01:02	-----	231-	87-	54-	39552
S1 (46)	21/12/14	04:25:42	04:38:04	00:01:30	-----	233-	88-	54-	39553
S2 (43)	21/12/14	04:59:34	05:11:47	00:12:12	00:21:30	248-	55-	49-	39641
R1 (47)	21/12/14	05:10:00	05:22:22	00:10:34	-----	308-	78-	123-	39670
T3 (25)	21/12/14	05:33:12	05:43:45	00:10:32	00:10:50	285-	20-	173-	38499
S3 (42)	21/12/14	05:35:31	05:47:15	00:03:30	-----	263-	35-	46-	39636
R2 (38)	21/12/14	06:00:24	06:12:26	00:12:01	00:13:09	299-	49-	145-	40742
S4 (29)	21/12/14	06:09:00	06:20:10	00:07:44	-----	275-	27-	45-	39553
S1 (46)	21/12/14	06:10:35	06:21:41	00:01:30	-----	277-	26-	45-	39554
S2 (43)	21/12/14	06:45:01	06:55:30	00:10:28	00:23:20	289-	21-	46-	39642
R1 (47)	21/12/14	06:54:34	07:04:23	00:08:53	-----	282-	18-	176-	39671
S3 (42)	21/12/14	07:21:15	07:31:16	00:10:00	00:16:52	300-	18-	50-	39637
R2 (38)	21/12/14	07:47:24	07:51:12	00:03:48	00:16:07	248-	6-	216-	40743
S4 (29)	21/12/14	07:54:43	08:04:36	00:09:52	00:03:31	307-	17-	55-	39554
S1 (46)	21/12/14	07:56:17	08:06:10	00:01:33	-----	308-	17-	56-	39555
S2 (43)	21/12/14	08:30:23	08:40:30	00:10:07	00:24:13	313-	19-	64-	39643
T4 (44)	21/12/14	08:39:53	08:48:44	00:08:14	-----	176-	14-	84-	39522
S3 (42)	21/12/14	09:06:06	09:16:46	00:10:40	00:17:21	315-	22-	76-	39638
K6 (26)	21/12/14	09:12:52	09:22:29	00:05:42	-----	184-	18-	77-	39567
T1 (28)	21/12/14	09:15:22	09:26:28	00:03:59	-----	197-	29-	68-	39435
S4 (29)	21/12/14	09:39:05	09:50:20	00:11:15	00:12:37	315-	28-	87-	39555
S1 (46)	21/12/14	09:40:35	09:51:55	00:01:34	-----	315-	29-	89-	39556
T2 (40)	21/12/14	09:47:24	09:59:25	00:07:30	-----	215-	51-	60-	39520
S2 (43)	21/12/14	10:14:17	10:26:12	00:11:54	00:14:51	313-	40-	102-	39644
T4 (44)	21/12/14	10:21:19	10:33:41	00:07:29	-----	231-	86-	54-	39523
S3 (42)	21/12/14	10:49:45	11:02:04	00:12:19	00:16:03	310-	64-	118-	39639
K6 (26)	21/12/14	10:54:13	11:06:20	00:04:16	-----	237-	77-	52-	39568
T1 (28)	21/12/14	10:58:21	11:10:33	00:04:12	-----	248-	54-	49-	39436
S4 (29)	21/12/14	11:22:42	11:35:04	00:12:22	00:12:09	305-	82-	131-	39556
S1 (46)	21/12/14	11:24:12	11:36:33	00:01:28	-----	304-	77-	133-	39557
T2 (40)	21/12/14	11:31:24	11:43:09	00:06:36	-----	262-	36-	46-	39521
S2 (43)	21/12/14	11:58:04	12:09:58	00:11:54	00:14:55	298-	44-	148-	39645
T4 (44)	21/12/14	12:06:07	12:17:18	00:07:19	-----	275-	27-	45-	39524
S3 (42)	21/12/14	12:34:01	12:44:40	00:10:39	00:16:43	287-	24-	168-	39640
K6 (26)	21/12/14	12:38:34	12:49:14	00:04:33	-----	281-	23-	45-	39569
T1 (28)	21/12/14	12:43:48	12:54:15	00:05:00	-----	289-	21-	46-	39437

Satellite	Date	AOS Time	LOS Time	Duration	Interval Between	AOS Az	Max El	LOS Az	Orbit num.
S4 (29)	21/12/14	13:07:46	13:16:19	00:08:32	00:13:31	275-	13-	188-	39557
S1 (46)	21/12/14	13:09:26	13:17:34	00:01:14	-----	273-	12-	191-	39558
T2 (40)	21/12/14	13:17:08	13:27:08	00:09:34	-----	299-	18-	49-	39522
T4 (44)	21/12/14	13:51:50	14:01:43	00:09:53	00:24:41	307-	17-	55-	39525
K3 (33)	21/12/14	14:10:41	14:16:05	00:05:23	00:08:58	155-	8-	99-	38551
K6 (26)	21/12/14	14:23:30	14:33:07	00:09:36	00:07:25	310-	17-	57-	39570
T1 (28)	21/12/14	14:29:10	14:39:16	00:06:09	-----	313-	19-	64-	39438
K9 (39)	21/12/14	14:42:46	14:52:31	00:09:45	00:03:29	183-	18-	77-	38551
T2 (40)	21/12/14	15:02:00	15:12:37	00:10:36	00:09:29	315-	22-	75-	39523
K7 (37)	21/12/14	15:15:56	15:27:15	00:11:19	00:03:19	200-	31-	67-	38551
K4 (24)	21/12/14	15:33:15	15:40:00	00:06:45	00:06:00	161-	9-	96-	38701
T4 (44)	21/12/14	15:36:12	15:47:27	00:07:26	-----	315-	27-	87-	39526
K3 (33)	21/12/14	15:50:16	16:02:25	00:12:09	00:02:49	218-	56-	59-	38552
K6 (26)	21/12/14	16:07:00	16:18:10	00:11:10	00:04:34	316-	29-	91-	39571
T1 (28)	21/12/14	16:13:03	16:24:57	00:06:47	-----	313-	40-	103-	39439
K9 (39)	21/12/14	16:24:45	16:37:08	00:12:10	-----	236-	80-	53-	38552
T2 (40)	21/12/14	16:45:40	16:57:56	00:12:16	00:08:31	310-	62-	117-	39524
K7 (37)	21/12/14	16:59:06	17:11:16	00:12:10	00:01:09	250-	51-	49-	38552
K4 (24)	21/12/14	17:13:37	17:25:54	00:12:16	00:02:21	222-	63-	58-	38702
T4 (44)	21/12/14	17:19:49	17:32:10	00:06:16	-----	305-	82-	131-	39527
K3 (33)	21/12/14	17:34:26	17:46:06	00:11:40	00:02:15	264-	34-	46-	38553
K6 (26)	21/12/14	17:49:54	18:01:55	00:12:01	00:03:47	303-	69-	136-	39572
T1 (28)	21/12/14	17:56:51	18:08:43	00:06:47	-----	297-	43-	149-	39440
K9 (39)	21/12/14	18:09:47	18:20:44	00:10:57	00:01:03	279-	24-	45-	38553
T2 (40)	21/12/14	18:29:53	18:40:39	00:10:45	00:09:08	288-	24-	166-	39525
R3 (45)	21/12/14	18:43:57	18:53:06	00:09:09	00:03:17	179-	16-	81-	39714
K7 (37)	21/12/14	18:44:36	18:55:00	00:01:54	-----	291-	20-	46-	38553
K4 (24)	21/12/14	18:58:06	19:09:37	00:11:31	00:03:05	267-	32-	46-	38703
T4 (44)	21/12/14	19:04:52	19:13:26	00:03:49	-----	275-	13-	188-	39528
K3 (33)	21/12/14	19:20:11	19:30:09	00:09:58	00:06:44	301-	18-	50-	38554
K6 (26)	21/12/14	19:34:46	19:41:49	00:07:03	00:04:36	268-	10-	197-	39573
K9 (39)	21/12/14	19:55:26	20:05:20	00:09:54	00:13:36	309-	18-	57-	38554
T3 (25)	21/12/14	20:00:40	20:12:51	00:07:30	-----	208-	41-	63-	38508
R2 (38)	21/12/14	20:23:23	20:31:52	00:08:29	00:10:31	173-	13-	86-	40751
R3 (45)	21/12/14	20:25:22	20:37:36	00:05:43	-----	233-	87-	53-	39715
K7 (37)	21/12/14	20:29:55	20:40:06	00:02:30	-----	313-	19-	66-	38554
K4 (24)	21/12/14	20:44:00	20:53:50	00:09:50	00:03:53	303-	17-	51-	38704
K3 (33)	21/12/14	21:04:59	21:15:42	00:10:42	00:11:08	315-	22-	77-	38555
R1 (47)	21/12/14	21:14:49	21:26:27	00:10:45	-----	205-	37-	64-	39680
K9 (39)	21/12/14	21:39:38	21:51:05	00:11:27	00:13:11	315-	30-	92-	38555
T3 (25)	21/12/14	21:45:08	21:57:33	00:06:27	-----	256-	44-	48-	38509
R2 (38)	21/12/14	22:04:36	22:16:58	00:12:22	00:07:02	229-	81-	55-	40752
R3 (45)	21/12/14	22:10:00	22:20:54	00:03:56	-----	278-	25-	45-	39716
K7 (37)	21/12/14	22:13:46	22:25:45	00:04:50	-----	313-	42-	104-	38555
K4 (24)	21/12/14	22:28:46	22:39:32	00:10:45	00:03:01	316-	23-	80-	38705
K3 (33)	21/12/14	22:48:37	23:00:56	00:12:19	00:09:05	309-	67-	119-	38556
R1 (47)	21/12/14	22:58:16	23:10:20	00:09:24	-----	254-	45-	48-	39681
K9 (39)	21/12/14	23:23:16	23:35:33	00:12:16	00:12:56	303-	69-	136-	38556
T3 (25)	21/12/14	23:31:38	23:42:19	00:06:45	-----	294-	20-	49-	38510
R2 (38)	21/12/14	23:49:18	00:00:34	00:11:15	00:06:59	273-	28-	45-	40753

Satellite	Date	AOS Time	LOS Time	Duration	Interval Between	AOS Az	Max EI	LOS Az	Orbit num.
R3 (45)	21/12/14	23:55:24	00:05:06	00:04:32	-----	309-	17-	55-	39717
K7 (37)	21/12/14	23:57:36	00:09:23	00:04:16	-----	296-	40-	151-	38556
K4 (24)	21/12/15	00:12:29	00:24:44	00:12:15	00:03:05	308-	75-	122-	38706
K3 (33)	21/12/15	00:32:57	00:43:24	00:10:27	00:08:12	286-	22-	170-	38557
R1 (47)	21/12/15	00:43:53	00:54:09	00:10:16	00:00:28	294-	19-	47-	39682
K9 (39)	21/12/15	01:08:50	01:16:08	00:07:17	00:14:41	268-	10-	197-	38557
T3 (25)	21/12/15	01:17:35	01:28:32	00:10:56	00:01:27	314-	22-	72-	38511
R2 (38)	21/12/15	01:35:03	01:44:56	00:09:52	00:06:30	306-	17-	54-	40754
R3 (45)	21/12/15	01:39:24	01:50:35	00:05:38	-----	315-	28-	89-	39718
S1 (46)	21/12/15	01:49:27	01:54:06	00:03:31	-----	147-	7-	102-	39566
K4 (24)	21/12/15	01:57:05	02:07:00	00:09:55	00:02:58	283-	19-	175-	38707
S2 (43)	21/12/15	02:20:39	02:29:43	00:09:03	00:13:39	178-	15-	82-	39654
R1 (47)	21/12/15	02:29:03	02:39:23	00:09:39	-----	314-	20-	69-	39683
S3 (42)	21/12/15	02:54:53	03:06:02	00:11:08	00:15:30	197-	29-	68-	39649
T3 (25)	21/12/15	03:02:12	03:14:52	00:08:50	-----	311-	54-	112-	38512
R2 (38)	21/12/15	03:19:29	03:30:38	00:11:09	00:04:36	315-	27-	86-	40755
R3 (45)	21/12/15	03:22:43	03:34:55	00:04:16	-----	304-	76-	133-	39719
S4 (29)	21/12/15	03:27:16	03:39:16	00:04:20	-----	214-	49-	60-	39566
S1 (46)	21/12/15	03:28:41	03:40:46	00:01:30	-----	217-	53-	60-	39567
S2 (43)	21/12/15	04:02:14	04:14:36	00:12:22	00:21:27	232-	90-	54-	39655
R1 (47)	21/12/15	04:12:50	04:24:56	00:10:20	-----	312-	48-	108-	39684
S3 (42)	21/12/15	04:37:53	04:50:06	00:12:12	00:12:57	248-	54-	49-	39650
T3 (25)	21/12/15	04:47:07	04:58:49	00:08:43	-----	292-	30-	160-	38513
R2 (38)	21/12/15	05:03:05	05:15:27	00:12:22	00:04:16	306-	87-	129-	40756
R3 (45)	21/12/15	05:07:42	05:15:38	00:00:10	-----	272-	12-	191-	39720
S4 (29)	21/12/15	05:11:13	05:23:00	00:07:22	-----	261-	37-	47-	39567
S1 (46)	21/12/15	05:12:45	05:24:29	00:01:28	-----	263-	35-	46-	39568
S2 (43)	21/12/15	05:47:05	05:58:12	00:11:07	00:22:36	276-	26-	45-	39656
R1 (47)	21/12/15	05:56:46	06:08:17	00:10:04	-----	294-	34-	156-	39685
S3 (42)	21/12/15	06:23:21	06:33:49	00:10:27	00:15:03	289-	21-	46-	39651
R2 (38)	21/12/15	06:48:01	06:56:56	00:08:55	00:14:11	277-	15-	185-	40757
S4 (29)	21/12/15	06:56:56	07:06:59	00:10:02	-----	299-	18-	49-	39568
S1 (46)	21/12/15	06:58:29	07:08:30	00:01:30	-----	300-	18-	49-	39569
S2 (43)	21/12/15	07:32:47	07:42:40	00:09:52	00:24:17	308-	17-	55-	39657
S3 (42)	21/12/15	08:08:42	08:18:50	00:10:08	00:26:01	313-	19-	65-	39652
T1 (28)	21/12/15	08:19:25	08:28:31	00:09:05	00:00:34	178-	15-	82-	39449
S4 (29)	21/12/15	08:41:51	08:52:26	00:10:35	00:13:19	315-	22-	75-	39569
S1 (46)	21/12/15	08:43:19	08:54:00	00:01:33	-----	315-	22-	76-	39570
T2 (40)	21/12/15	08:50:51	09:01:54	00:07:54	-----	196-	28-	68-	39534
S2 (43)	21/12/15	09:17:07	09:28:25	00:11:18	00:15:13	315-	28-	88-	39658
T4 (44)	21/12/15	09:24:22	09:36:22	00:07:57	-----	214-	49-	60-	39537
K6 (26)	21/12/15	09:47:42	09:59:31	00:11:48	00:11:20	216-	52-	60-	39582
S3 (42)	21/12/15	09:52:35	10:04:31	00:05:00	-----	313-	40-	103-	39653
T1 (28)	21/12/15	10:01:02	10:13:23	00:08:51	-----	232-	90-	54-	39450
S4 (29)	21/12/15	10:25:31	10:37:48	00:12:17	00:12:07	310-	60-	116-	39570
S1 (46)	21/12/15	10:26:58	10:39:17	00:01:29	-----	310-	64-	117-	39571
T2 (40)	21/12/15	10:33:47	10:46:00	00:06:42	-----	247-	56-	49-	39535
S2 (43)	21/12/15	11:00:44	11:13:05	00:12:21	00:14:43	305-	79-	132-	39659
T4 (44)	21/12/15	11:08:18	11:20:07	00:07:01	-----	261-	37-	47-	39538
K6 (26)	21/12/15	11:31:02	11:42:31	00:11:29	00:10:55	263-	35-	46-	39583

Satellite	Date	AOS Time	LOS Time	Duration	Interval Between	AOS Az	Max El	LOS Az	Orbit num.
S3 (42)	21/12/15	11:36:23	11:48:16	00:05:44	-----	297-	43-	149-	39654
T1 (28)	21/12/15	11:45:54	11:57:00	00:08:42	-----	276-	26-	45-	39451
S4 (29)	21/12/15	12:09:42	12:20:34	00:10:52	00:12:42	289-	25-	165-	39571
S1 (46)	21/12/15	12:11:14	12:21:54	00:01:19	-----	288-	24-	167-	39572
T2 (40)	21/12/15	12:19:13	12:29:41	00:07:47	-----	289-	21-	46-	39536
S2 (43)	21/12/15	12:45:54	12:54:12	00:08:17	00:16:12	273-	13-	190-	39660
T4 (44)	21/12/15	12:54:01	13:04:05	00:09:53	-----	299-	18-	49-	39539
K6 (26)	21/12/15	13:16:04	13:25:47	00:09:43	00:11:59	300-	17-	48-	39584
T1 (28)	21/12/15	13:31:36	13:41:27	00:09:51	00:05:48	308-	17-	55-	39452
K9 (39)	21/12/15	13:47:44	13:53:51	00:06:06	00:06:16	158-	9-	100-	38565
T2 (40)	21/12/15	14:04:36	14:14:41	00:10:04	00:10:45	313-	18-	64-	39537
K7 (37)	21/12/15	14:19:54	14:29:26	00:09:32	00:05:12	181-	17-	79-	38565
T4 (44)	21/12/15	14:38:56	14:49:31	00:10:35	00:09:30	315-	21-	74-	39540
K3 (33)	21/12/15	14:53:41	15:04:58	00:11:16	00:04:09	199-	30-	67-	38566
K6 (26)	21/12/15	15:00:13	15:10:33	00:05:35	-----	316-	21-	74-	39585
T1 (28)	21/12/15	15:15:55	15:27:12	00:11:17	00:05:21	315-	28-	88-	39453
K9 (39)	21/12/15	15:27:41	15:39:53	00:12:12	00:00:28	220-	59-	58-	38566
T2 (40)	21/12/15	15:48:30	16:00:23	00:11:52	00:08:37	313-	39-	102-	39538
K7 (37)	21/12/15	16:01:44	16:14:07	00:12:23	00:01:20	234-	84-	53-	38566
K4 (24)	21/12/15	16:18:17	16:29:54	00:11:36	00:04:09	204-	36-	65-	38716
T4 (44)	21/12/15	16:22:36	16:34:53	00:04:59	-----	310-	60-	115-	39541
K3 (33)	21/12/15	16:36:48	16:49:00	00:12:10	00:01:55	249-	52-	49-	38567
K6 (26)	21/12/15	16:43:09	16:55:11	00:06:11	-----	310-	60-	116-	39586
T1 (28)	21/12/15	16:59:32	17:11:52	00:12:20	00:04:20	305-	78-	132-	39454
K9 (39)	21/12/15	17:11:56	17:23:33	00:11:36	00:00:04	266-	33-	46-	38567
T2 (40)	21/12/15	17:32:17	17:44:11	00:11:54	00:08:43	298-	44-	148-	39539
K7 (37)	21/12/15	17:46:42	17:57:43	00:11:01	00:02:30	278-	25-	45-	38567
K4 (24)	21/12/15	18:01:48	18:13:53	00:12:04	00:04:05	253-	46-	48-	38717
T4 (44)	21/12/15	18:06:47	18:17:40	00:03:46	-----	289-	26-	165-	39542
K3 (33)	21/12/15	18:22:18	18:32:43	00:10:24	00:04:38	290-	20-	46-	38568
K6 (26)	21/12/15	18:26:40	18:37:11	00:04:28	-----	288-	24-	166-	39587
T1 (28)	21/12/15	18:44:43	18:52:55	00:08:11	00:07:31	273-	13-	189-	39455
K9 (39)	21/12/15	18:57:42	19:07:39	00:09:56	00:04:47	302-	18-	50-	38568
T3 (25)	21/12/15	19:15:31	19:26:54	00:11:23	00:07:51	195-	28-	69-	38522
R3 (45)	21/12/15	19:24:36	19:36:29	00:09:34	-----	215-	50-	60-	39729
K7 (37)	21/12/15	19:32:22	19:42:16	00:05:46	-----	309-	17-	57-	38568
K4 (24)	21/12/15	19:47:32	19:57:45	00:10:13	00:05:16	293-	19-	47-	38718
K3 (33)	21/12/15	20:07:38	20:17:47	00:10:09	00:09:52	313-	19-	66-	38569
R1 (47)	21/12/15	20:18:34	20:28:43	00:10:09	00:00:46	187-	20-	75-	39694
K9 (39)	21/12/15	20:42:26	20:53:13	00:10:47	00:13:42	315-	23-	78-	38569
T3 (25)	21/12/15	20:59:13	21:11:54	00:12:41	00:05:59	246-	59-	50-	38523
R2 (38)	21/12/15	21:07:42	21:19:37	00:07:43	-----	211-	45-	61-	40766
R3 (45)	21/12/15	21:08:19	21:19:55	00:00:17	-----	262-	36-	46-	39730
K7 (37)	21/12/15	21:16:37	21:28:01	00:08:05	-----	315-	29-	90-	38569
K4 (24)	21/12/15	21:32:50	21:43:02	00:10:11	00:04:49	314-	19-	68-	38719
K3 (33)	21/12/15	21:51:30	22:03:27	00:11:57	00:08:27	313-	42-	104-	38570
R1 (47)	21/12/15	22:00:49	22:13:11	00:09:44	-----	239-	73-	52-	39695
K9 (39)	21/12/15	22:26:04	22:38:24	00:12:20	00:12:52	309-	71-	120-	38570
T3 (25)	21/12/15	22:45:28	22:56:29	00:11:01	00:07:03	287-	22-	47-	38524
R2 (38)	21/12/15	22:51:31	23:03:24	00:06:54	-----	259-	39-	47-	40767

Satellite	Date	AOS Time	LOS Time	Duration	Interval Between	AOS Az	Max EI	LOS Az	Orbit num.
R3 (45)	21/12/15	22:53:45	23:03:36	00:00:12	-----	300-	18-	49-	39731
K7 (37)	21/12/15	23:00:15	23:12:34	00:08:57	-----	304-	72-	135-	38570
K4 (24)	21/12/15	23:16:43	23:28:42	00:11:59	00:04:09	312-	47-	108-	38720
K3 (33)	21/12/15	23:35:19	23:47:07	00:11:48	00:06:36	297-	41-	151-	38571
R1 (47)	21/12/15	23:45:57	23:56:48	00:09:40	-----	282-	23-	45-	39696
K9 (39)	21/12/16	00:10:28	00:20:43	00:10:14	00:13:39	285-	21-	172-	38571
T3 (25)	21/12/16	00:31:45	00:42:22	00:10:37	00:11:02	311-	20-	65-	38525
R2 (38)	21/12/16	00:37:13	00:47:19	00:04:57	-----	297-	18-	48-	40768
R3 (45)	21/12/16	00:38:21	00:48:47	00:01:28	-----	316-	21-	74-	39732
K7 (37)	21/12/16	00:45:39	00:53:21	00:04:34	-----	270-	11-	194-	38571
K4 (24)	21/12/16	01:00:45	01:12:11	00:11:26	00:07:23	294-	34-	156-	38721
R1 (47)	21/12/16	01:31:33	01:41:30	00:09:57	00:19:22	310-	18-	59-	39697
S3 (42)	21/12/16	01:58:55	02:08:04	00:09:09	00:17:24	178-	16-	81-	39663
T3 (25)	21/12/16	02:16:34	02:28:55	00:12:21	00:08:29	313-	41-	102-	38526
R3 (45)	21/12/16	02:21:43	02:33:51	00:04:55	-----	310-	60-	116-	39733
R2 (38)	21/12/16	02:22:12	02:32:43	00:01:08	-----	315-	21-	73-	40769
S4 (29)	21/12/16	02:30:46	02:41:44	00:09:01	-----	195-	27-	69-	39580
S1 (46)	21/12/16	02:32:07	02:43:15	00:01:30	-----	197-	29-	68-	39581
S2 (43)	21/12/16	03:05:15	03:17:17	00:12:02	00:22:00	215-	51-	60-	39669
R1 (47)	21/12/16	03:15:41	03:27:15	00:09:57	-----	315-	32-	94-	39698
S3 (42)	21/12/16	03:40:32	03:52:55	00:12:22	00:13:17	232-	89-	54-	39664
T3 (25)	21/12/16	04:01:13	04:13:35	00:12:22	00:08:17	298-	45-	148-	38527
R3 (45)	21/12/16	04:05:38	04:16:19	00:02:44	-----	288-	25-	166-	39734
R2 (38)	21/12/16	04:05:54	04:18:08	00:01:48	-----	311-	56-	114-	40770
S4 (29)	21/12/16	04:13:38	04:25:52	00:07:44	-----	246-	57-	50-	39581
S1 (46)	21/12/16	04:15:07	04:27:19	00:01:26	-----	248-	54-	49-	39582
S2 (43)	21/12/16	04:49:16	05:01:01	00:11:45	00:21:56	262-	36-	46-	39670
R1 (47)	21/12/16	04:59:20	05:11:34	00:10:33	-----	302-	62-	139-	39699
S3 (42)	21/12/16	05:25:25	05:36:31	00:11:06	00:13:50	277-	26-	45-	39665
R2 (38)	21/12/16	05:50:01	06:01:03	00:11:02	00:13:29	290-	27-	163-	40771
S4 (29)	21/12/16	05:59:02	06:09:34	00:08:30	-----	288-	21-	46-	39582
S1 (46)	21/12/16	06:00:34	06:11:01	00:01:27	-----	289-	21-	46-	39583
S2 (43)	21/12/16	06:35:00	06:45:01	00:10:01	00:23:58	299-	18-	49-	39671
R1 (47)	21/12/16	06:45:14	06:51:43	00:06:28	00:00:13	264-	9-	203-	39700
S3 (42)	21/12/16	07:11:07	07:21:00	00:09:53	00:19:23	308-	17-	56-	39666
T1 (28)	21/12/16	07:25:04	07:29:21	00:04:17	00:04:03	142-	7-	106-	39463
S4 (29)	21/12/16	07:44:27	07:54:32	00:10:04	00:15:06	313-	18-	63-	39583
S1 (46)	21/12/16	07:45:55	07:56:03	00:01:31	-----	313-	19-	65-	39584
T2 (40)	21/12/16	07:54:56	08:03:55	00:07:52	-----	177-	15-	83-	39548
S2 (43)	21/12/16	08:19:52	08:30:30	00:10:38	00:15:56	315-	22-	75-	39672
T4 (44)	21/12/16	08:27:51	08:38:49	00:08:18	-----	194-	27-	69-	39551
K6 (26)	21/12/16	08:41:54	08:52:19	00:10:25	00:03:04	191-	24-	71-	39596
S3 (42)	21/12/16	08:55:26	09:06:45	00:11:19	00:03:06	315-	28-	89-	39667
T1 (28)	21/12/16	09:04:03	09:16:07	00:09:21	-----	216-	52-	60-	39464
S4 (29)	21/12/16	09:28:23	09:40:14	00:11:51	00:12:15	314-	38-	101-	39584
S1 (46)	21/12/16	09:29:49	09:41:44	00:01:29	-----	313-	40-	103-	39585
T2 (40)	21/12/16	09:36:27	09:48:49	00:07:04	-----	232-	88-	54-	39549
S2 (43)	21/12/16	10:03:31	10:15:49	00:12:18	00:14:42	310-	62-	117-	39673
T4 (44)	21/12/16	10:10:42	10:22:57	00:07:08	-----	246-	58-	50-	39552
K6 (26)	21/12/16	10:23:50	10:35:52	00:12:01	00:00:52	244-	62-	50-	39597

Satellite	Date	AOS Time	LOS Time	Duration	Interval Between	AOS Az	Max EI	LOS Az	Orbit num.
S3 (42)	21/12/16	10:39:02	10:51:23	00:12:21	00:03:10	304-	77-	133-	39668
T1 (28)	21/12/16	10:48:06	10:59:49	00:08:26	-----	262-	36-	46-	39465
S4 (29)	21/12/16	11:12:08	11:24:07	00:11:58	00:12:18	298-	46-	147-	39585
S1 (46)	21/12/16	11:13:36	11:25:29	00:01:22	-----	297-	43-	149-	39586
T2 (40)	21/12/16	11:21:18	11:32:25	00:06:55	-----	276-	26-	45-	39550
S2 (43)	21/12/16	11:47:45	11:58:30	00:10:44	00:15:20	288-	24-	167-	39674
T4 (44)	21/12/16	11:56:05	12:06:38	00:08:08	-----	288-	21-	46-	39553
K6 (26)	21/12/16	12:08:26	12:18:48	00:10:22	00:01:47	286-	21-	45-	39598
S3 (42)	21/12/16	12:24:15	12:32:26	00:08:11	00:05:27	273-	12-	190-	39669
T1 (28)	21/12/16	12:33:50	12:43:49	00:09:59	00:01:23	300-	18-	49-	39466
T2 (40)	21/12/16	13:07:00	13:16:51	00:09:51	00:23:10	308-	17-	55-	39551
K7 (37)	21/12/16	13:25:04	13:30:33	00:05:28	00:08:13	155-	8-	99-	38579
T4 (44)	21/12/16	13:41:31	13:51:36	00:10:04	00:10:57	312-	18-	63-	39554
K6 (26)	21/12/16	13:53:13	14:02:55	00:09:42	00:01:37	312-	17-	60-	39599
K3 (33)	21/12/16	13:57:40	14:07:07	00:04:11	-----	180-	17-	80-	38580