

Orbcomm View Satellite Pass Times
 All Passes of All Satellites in Chronological Order
 Observer: Osaka, 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	13:49:09	14:00:02	00:10:53	11:55:37	311-	24-	75-	39437
T1 (28)	21/11/30	13:59:00	14:09:26	00:09:23	-----	191-	22-	73-	39234
S4 (29)	21/11/30	14:21:57	14:33:18	00:11:20	00:12:31	312-	29-	86-	39354
S1 (46)	21/11/30	14:23:51	14:35:15	00:01:57	-----	312-	30-	88-	39355
K6 (26)	21/11/30	14:29:41	14:40:13	00:04:57	-----	194-	24-	72-	39365
T2 (40)	21/11/30	14:31:10	14:42:52	00:02:39	-----	208-	39-	64-	39319
S2 (43)	21/11/30	14:57:28	15:09:23	00:11:55	00:14:35	311-	40-	101-	39443
T4 (44)	21/11/30	15:05:00	15:17:17	00:07:53	-----	224-	67-	58-	39322
S3 (42)	21/11/30	15:32:54	15:45:12	00:12:17	00:15:37	308-	62-	115-	39438
T1 (28)	21/11/30	15:41:26	15:53:46	00:08:33	-----	241-	71-	53-	39235
S4 (29)	21/11/30	16:05:37	16:18:00	00:12:22	00:11:51	305-	86-	128-	39355
S1 (46)	21/11/30	16:07:31	16:19:52	00:01:52	-----	304-	80-	130-	39356
K6 (26)	21/11/30	16:11:39	16:23:43	00:03:50	-----	244-	64-	52-	39366
T2 (40)	21/11/30	16:14:42	16:26:45	00:03:01	-----	255-	46-	50-	39320
S2 (43)	21/11/30	16:41:15	16:53:14	00:11:58	00:14:30	298-	47-	146-	39444
T4 (44)	21/11/30	16:49:21	17:00:58	00:07:43	-----	268-	33-	48-	39323
S3 (42)	21/11/30	17:17:05	17:28:00	00:10:53	00:16:07	288-	26-	164-	39439
T1 (28)	21/11/30	17:26:30	17:37:29	00:09:29	-----	282-	25-	49-	39236
S4 (29)	21/11/30	17:50:29	17:59:30	00:09:01	00:13:00	277-	15-	183-	39356
S1 (46)	21/11/30	17:52:32	18:01:10	00:01:39	-----	275-	14-	186-	39357
K6 (26)	21/11/30	17:56:08	18:06:42	00:05:31	-----	285-	23-	48-	39367
T2 (40)	21/11/30	18:00:08	18:10:40	00:03:58	-----	293-	21-	52-	39321
S2 (43)	21/11/30	18:28:24	18:31:52	00:03:27	00:17:43	252-	6-	217-	39445
T4 (44)	21/11/30	18:34:54	18:45:14	00:10:20	00:03:01	302-	20-	56-	39324
T1 (28)	21/11/30	19:11:50	19:22:16	00:10:26	00:26:36	308-	20-	65-	39237
K9 (39)	21/11/30	19:26:46	19:35:21	00:08:34	00:04:30	173-	14-	83-	38350
K6 (26)	21/11/30	19:40:43	19:50:47	00:10:03	00:05:22	310-	20-	65-	39368
T2 (40)	21/11/30	19:45:04	19:55:53	00:05:06	-----	312-	23-	75-	39322
K7 (37)	21/11/30	19:59:37	20:10:18	00:10:41	00:03:43	193-	24-	72-	38350
T4 (44)	21/11/30	20:19:23	20:30:42	00:11:19	00:09:05	312-	28-	86-	39325
K3 (33)	21/11/30	20:33:35	20:45:25	00:11:49	00:02:52	210-	42-	63-	38351
T1 (28)	21/11/30	20:55:52	21:07:47	00:11:55	00:10:26	311-	40-	101-	39238
K9 (39)	21/11/30	21:08:02	21:20:23	00:12:20	00:00:15	229-	79-	56-	38351
K6 (26)	21/11/30	21:24:00	21:35:32	00:11:32	00:03:36	312-	40-	102-	39369
T2 (40)	21/11/30	21:28:50	21:41:07	00:05:35	-----	309-	61-	115-	39323
K4 (24)	21/11/30	21:37:32	21:48:58	00:07:51	-----	204-	34-	66-	38501
K7 (37)	21/11/30	21:42:13	21:54:33	00:05:34	-----	243-	66-	52-	38351
T4 (44)	21/11/30	22:03:03	22:15:25	00:12:21	00:08:30	305-	86-	128-	39326
K3 (33)	21/11/30	22:17:16	22:29:15	00:12:00	00:01:50	257-	43-	49-	38352
T1 (28)	21/11/30	22:39:39	22:51:38	00:11:58	00:10:23	298-	47-	146-	39239
K9 (39)	21/11/30	22:52:38	23:04:03	00:11:24	00:01:00	273-	30-	48-	38352
K6 (26)	21/11/30	23:07:06	23:18:33	00:11:27	00:03:02	297-	43-	148-	39370
T2 (40)	21/11/30	23:12:58	23:23:57	00:05:23	-----	289-	27-	163-	39324
K4 (24)	21/11/30	23:20:57	23:33:00	00:09:03	-----	253-	49-	50-	38502
K7 (37)	21/11/30	23:27:22	23:38:16	00:05:16	-----	284-	24-	49-	38352
T3 (25)	21/11/30	23:45:44	23:53:50	00:08:06	00:07:27	168-	12-	89-	38308
T4 (44)	21/11/30	23:47:55	23:56:57	00:03:06	-----	277-	15-	183-	39327
K3 (33)	21/12/01	00:02:44	00:13:13	00:10:28	00:05:47	295-	21-	52-	38353

Satellite	Date	AOS Time	LOS Time	Duration	Interval Between	AOS Az	Max El	LOS Az	Orbit num.
R3 (45)	21/12/01	00:20:51	00:32:03	00:11:11	00:07:38	201-	31-	67-	39513
T1 (28)	21/12/01	00:26:43	00:30:17	00:01:04	-----	247-	6-	221-	39240
K9 (39)	21/12/01	00:38:09	00:48:28	00:10:18	00:07:51	304-	20-	59-	38353
K4 (24)	21/12/01	01:06:27	01:16:57	00:10:30	00:17:58	291-	21-	51-	38503
R2 (38)	21/12/01	01:07:56	01:14:48	00:02:09	-----	162-	10-	95-	40550
K7 (37)	21/12/01	01:12:39	01:23:07	00:08:19	-----	309-	21-	66-	38353
T3 (25)	21/12/01	01:27:19	01:40:04	00:12:44	00:04:12	225-	69-	58-	38309
K3 (33)	21/12/01	01:47:37	01:58:29	00:10:52	00:07:32	312-	24-	77-	38354
R1 (47)	21/12/01	01:58:38	02:09:44	00:11:06	00:00:08	197-	28-	69-	39479
R3 (45)	21/12/01	02:03:43	02:15:46	00:06:02	-----	250-	53-	51-	39514
K9 (39)	21/12/01	02:22:30	02:34:00	00:11:29	00:06:43	312-	31-	90-	38354
R2 (38)	21/12/01	02:48:16	03:00:30	00:12:14	00:14:16	222-	62-	59-	40551
K4 (24)	21/12/01	02:51:33	03:02:12	00:01:42	-----	311-	22-	73-	38504
K7 (37)	21/12/01	02:56:38	03:08:36	00:06:23	-----	311-	42-	103-	38354
T3 (25)	21/12/01	03:12:35	03:24:38	00:12:03	00:03:58	269-	33-	49-	38310
K3 (33)	21/12/01	03:31:21	03:43:39	00:12:17	00:06:42	308-	65-	117-	38355
R1 (47)	21/12/01	03:41:34	03:53:49	00:10:10	-----	247-	58-	51-	39480
R3 (45)	21/12/01	03:48:46	03:59:18	00:05:28	-----	290-	22-	50-	39515
K9 (39)	21/12/01	04:06:10	04:18:28	00:12:17	00:06:52	303-	73-	133-	38355
R2 (38)	21/12/01	04:32:32	04:44:12	00:11:39	00:14:03	267-	34-	48-	40552
K4 (24)	21/12/01	04:35:26	04:47:38	00:03:26	-----	309-	55-	112-	38505
K7 (37)	21/12/01	04:40:27	04:52:19	00:04:40	-----	297-	43-	148-	38355
T3 (25)	21/12/01	04:58:59	05:09:51	00:10:52	00:06:39	301-	21-	58-	38311
K3 (33)	21/12/01	05:15:34	05:26:19	00:10:44	00:05:43	288-	24-	166-	38356
R1 (47)	21/12/01	05:26:50	05:37:36	00:10:46	00:00:30	287-	23-	50-	39481
R3 (45)	21/12/01	05:33:35	05:44:04	00:06:27	-----	311-	22-	71-	39516
K9 (39)	21/12/01	05:51:26	05:59:24	00:07:58	00:07:21	271-	12-	192-	38356
R2 (38)	21/12/01	06:18:04	06:28:25	00:10:20	00:18:40	301-	20-	56-	40553
K4 (24)	21/12/01	06:19:34	06:30:48	00:02:23	-----	291-	30-	160-	38506
T3 (25)	21/12/01	06:44:19	06:56:13	00:11:53	00:13:30	312-	31-	89-	38312
S2 (43)	21/12/01	07:05:04	07:12:48	00:07:43	00:08:51	168-	11-	90-	39453
R1 (47)	21/12/01	07:12:01	07:22:34	00:09:46	-----	310-	21-	69-	39482
R3 (45)	21/12/01	07:17:08	07:29:09	00:06:34	-----	310-	50-	109-	39517
S3 (42)	21/12/01	07:38:51	07:49:20	00:10:28	00:09:42	188-	22-	73-	39448
R2 (38)	21/12/01	08:02:37	08:13:52	00:11:14	00:13:17	312-	28-	85-	40554
S4 (29)	21/12/01	08:10:49	08:22:28	00:08:35	-----	206-	37-	64-	39365
S1 (46)	21/12/01	08:12:36	08:24:22	00:01:54	-----	208-	40-	63-	39366
T3 (25)	21/12/01	08:28:53	08:41:42	00:12:49	00:04:30	304-	81-	131-	38313
S2 (43)	21/12/01	08:45:51	08:58:10	00:12:18	00:04:09	225-	70-	58-	39454
R1 (47)	21/12/01	08:55:54	09:08:00	00:09:49	-----	310-	47-	107-	39483
R3 (45)	21/12/01	09:00:49	09:12:08	00:04:08	-----	293-	33-	156-	39518
S3 (42)	21/12/01	09:21:18	09:33:40	00:12:21	00:09:10	241-	70-	53-	39449
R2 (38)	21/12/01	09:46:18	09:58:39	00:12:21	00:12:38	305-	89-	127-	40555
S4 (29)	21/12/01	09:54:16	10:06:22	00:07:42	-----	254-	47-	50-	39366
S1 (46)	21/12/01	09:56:11	10:08:14	00:01:51	-----	256-	45-	50-	39367
T3 (25)	21/12/01	10:14:43	10:23:50	00:09:06	00:06:29	276-	14-	185-	38314
S2 (43)	21/12/01	10:30:17	10:41:50	00:11:33	00:06:26	269-	32-	48-	39455
R1 (47)	21/12/01	10:39:49	10:51:25	00:09:34	-----	294-	37-	153-	39484
S3 (42)	21/12/01	11:06:23	11:17:23	00:10:59	00:14:57	283-	25-	49-	39450
R2 (38)	21/12/01	11:31:02	11:40:20	00:09:18	00:13:39	279-	16-	180-	40556

Satellite	Date	AOS Time	LOS Time	Duration	Interval Between	AOS Az	Max EI	LOS Az	Orbit num.
S4 (29)	21/12/01	11:39:41	11:50:16	00:09:55	-----	292-	21-	51-	39367
S1 (46)	21/12/01	11:41:38	11:52:10	00:01:53	-----	294-	21-	52-	39368
S2 (43)	21/12/01	12:15:48	12:26:09	00:10:20	00:23:38	302-	20-	57-	39456
S3 (42)	21/12/01	12:51:43	13:02:10	00:10:27	00:25:33	308-	21-	65-	39451
T1 (28)	21/12/01	13:03:29	13:11:12	00:07:43	00:01:18	168-	11-	90-	39248
S4 (29)	21/12/01	13:24:39	13:35:28	00:10:48	00:13:27	311-	23-	74-	39368
K6 (26)	21/12/01	13:25:03	13:32:10	00:03:01	-----	165-	10-	94-	39379
S1 (46)	21/12/01	13:26:33	13:37:24	00:05:14	-----	312-	24-	76-	39369
T2 (40)	21/12/01	13:34:51	13:45:12	00:07:48	-----	190-	21-	74-	39333
S2 (43)	21/12/01	14:00:16	14:11:39	00:11:22	00:15:03	312-	29-	87-	39457
T4 (44)	21/12/01	14:08:14	14:19:52	00:08:13	-----	206-	37-	64-	39336
S3 (42)	21/12/01	14:35:44	14:47:40	00:11:55	00:15:51	311-	41-	101-	39452
T1 (28)	21/12/01	14:44:16	14:56:34	00:08:53	-----	225-	70-	58-	39249
K6 (26)	21/12/01	15:04:56	15:16:58	00:12:02	00:08:22	224-	66-	58-	39380
S4 (29)	21/12/01	15:08:26	15:20:43	00:03:44	-----	309-	59-	114-	39369
S1 (46)	21/12/01	15:10:18	15:22:36	00:01:53	-----	308-	62-	115-	39370
T2 (40)	21/12/01	15:17:14	15:29:34	00:06:58	-----	240-	72-	53-	39334
S2 (43)	21/12/01	15:43:56	15:56:18	00:12:21	00:14:21	304-	82-	130-	39458
T4 (44)	21/12/01	15:51:40	16:03:46	00:07:28	-----	254-	47-	50-	39337
S3 (42)	21/12/01	16:19:32	16:31:29	00:11:57	00:15:45	297-	46-	146-	39453
T1 (28)	21/12/01	16:28:42	16:40:15	00:08:45	-----	270-	32-	48-	39250
K6 (26)	21/12/01	16:48:36	16:59:55	00:11:19	00:08:20	268-	32-	48-	39381
S4 (29)	21/12/01	16:52:33	17:03:37	00:03:42	-----	290-	28-	161-	39370
S1 (46)	21/12/01	16:54:29	17:05:23	00:01:45	-----	288-	26-	164-	39371
T2 (40)	21/12/01	17:02:17	17:13:17	00:07:53	-----	282-	25-	49-	39335
S2 (43)	21/12/01	17:28:53	17:37:39	00:08:46	00:15:36	276-	14-	185-	39459
T4 (44)	21/12/01	17:37:06	17:47:40	00:10:00	-----	292-	21-	51-	39338
T1 (28)	21/12/01	18:14:14	18:24:33	00:10:19	00:26:33	302-	20-	57-	39251
K6 (26)	21/12/01	18:33:27	18:43:24	00:09:57	00:08:53	302-	19-	55-	39382
T2 (40)	21/12/01	18:47:37	18:58:03	00:10:25	00:04:12	308-	20-	65-	39336
K7 (37)	21/12/01	19:03:56	19:12:12	00:08:15	00:05:52	172-	13-	87-	38364
T4 (44)	21/12/01	19:22:04	19:32:51	00:10:46	00:09:52	311-	23-	74-	39339
K3 (33)	21/12/01	19:37:14	19:47:51	00:10:36	00:04:22	190-	23-	72-	38365
T1 (28)	21/12/01	19:58:41	20:10:03	00:11:22	00:10:50	313-	29-	87-	39252
K9 (39)	21/12/01	20:11:09	20:23:04	00:11:54	00:01:05	212-	45-	62-	38365
K6 (26)	21/12/01	20:17:16	20:28:08	00:05:03	-----	313-	27-	84-	39383
T2 (40)	21/12/01	20:31:39	20:43:33	00:11:54	00:03:31	311-	40-	100-	39337
K4 (24)	21/12/01	20:42:42	20:52:39	00:09:06	-----	183-	19-	76-	38515
K7 (37)	21/12/01	20:45:01	20:57:21	00:04:41	-----	228-	76-	57-	38365
T4 (44)	21/12/01	21:05:51	21:18:06	00:12:15	00:08:30	309-	59-	113-	39340
K3 (33)	21/12/01	21:19:47	21:32:07	00:12:19	00:01:41	243-	67-	52-	38366
T1 (28)	21/12/01	21:42:21	21:54:43	00:12:21	00:10:14	304-	82-	130-	39253
K9 (39)	21/12/01	21:54:56	22:06:52	00:11:56	00:00:12	259-	41-	49-	38366
K6 (26)	21/12/01	22:00:13	22:12:10	00:05:17	-----	305-	90-	127-	39384
T2 (40)	21/12/01	22:15:26	22:27:26	00:12:00	00:03:15	298-	48-	145-	39338
K4 (24)	21/12/01	22:24:57	22:37:14	00:09:47	-----	238-	78-	54-	38516
K7 (37)	21/12/01	22:29:33	22:41:01	00:03:47	-----	271-	31-	48-	38366
T4 (44)	21/12/01	22:49:58	23:01:02	00:11:04	00:08:56	290-	28-	162-	39341
K3 (33)	21/12/01	23:04:55	23:15:50	00:10:55	00:03:52	284-	24-	49-	38367
R3 (45)	21/12/01	23:21:08	23:30:20	00:09:12	00:05:17	180-	16-	81-	39527

Satellite	Date	AOS Time	LOS Time	Duration	Interval Between	AOS Az	Max EI	LOS Az	Orbit num.
T1 (28)	21/12/01	23:27:18	23:36:06	00:05:45	-----	276-	14-	184-	39254
K9 (39)	21/12/01	23:40:25	23:50:52	00:10:27	00:04:19	296-	21-	53-	38367
K6 (26)	21/12/01	23:44:18	23:53:05	00:02:12	-----	278-	15-	182-	39385
T2 (40)	21/12/02	00:02:22	00:06:16	00:03:54	00:09:17	249-	6-	219-	39339
K4 (24)	21/12/02	00:10:01	00:21:00	00:10:58	00:03:45	280-	25-	48-	38517
K7 (37)	21/12/02	00:15:04	00:25:23	00:04:22	-----	303-	20-	58-	38367
T3 (25)	21/12/02	00:41:53	00:54:17	00:12:24	00:16:29	213-	47-	61-	38323
K3 (33)	21/12/02	00:50:13	01:00:40	00:06:23	-----	309-	21-	66-	38368
R3 (45)	21/12/02	01:02:33	01:14:47	00:12:13	00:01:52	233-	90-	55-	39528
R1 (47)	21/12/02	01:02:41	01:11:49	00:02:05	-----	178-	15-	82-	39493
K9 (39)	21/12/02	01:25:15	01:36:11	00:10:56	00:13:25	312-	24-	78-	38368
R2 (38)	21/12/02	01:51:33	02:03:04	00:11:31	00:15:22	204-	35-	65-	40565
K4 (24)	21/12/02	01:55:30	02:05:48	00:02:43	-----	308-	20-	63-	38518
K7 (37)	21/12/02	01:59:28	02:10:54	00:05:06	-----	312-	30-	89-	38368
T3 (25)	21/12/02	02:26:33	02:38:57	00:12:23	00:15:39	259-	42-	50-	38324
K3 (33)	21/12/02	02:34:12	02:46:09	00:07:12	-----	311-	42-	102-	38369
R1 (47)	21/12/02	02:44:15	02:56:38	00:10:28	-----	232-	87-	55-	39494
R3 (45)	21/12/02	02:47:02	02:58:09	00:01:31	-----	276-	27-	48-	39529
K9 (39)	21/12/02	03:08:58	03:21:17	00:12:19	00:10:48	308-	68-	118-	38369
R2 (38)	21/12/02	03:34:52	03:47:01	00:12:08	00:13:35	252-	49-	50-	40566
K4 (24)	21/12/02	03:39:40	03:51:27	00:04:25	-----	312-	37-	98-	38519
K7 (37)	21/12/02	03:43:08	03:55:27	00:04:00	-----	303-	77-	132-	38369
T3 (25)	21/12/02	04:12:55	04:23:53	00:10:58	00:17:28	295-	22-	54-	38325
K3 (33)	21/12/02	04:18:01	04:29:54	00:06:00	-----	297-	44-	147-	38370
R1 (47)	21/12/02	04:28:59	04:40:18	00:10:23	-----	275-	28-	48-	39495
R3 (45)	21/12/02	04:32:13	04:42:24	00:02:05	-----	306-	20-	60-	39530
K9 (39)	21/12/02	04:53:15	05:03:48	00:10:32	00:10:51	286-	23-	168-	38370
R2 (38)	21/12/02	05:20:16	05:30:53	00:10:36	00:16:27	291-	22-	51-	40567
K4 (24)	21/12/02	05:23:30	05:35:34	00:04:41	-----	299-	52-	143-	38520
K7 (37)	21/12/02	05:28:15	05:36:35	00:01:00	-----	273-	13-	189-	38370
T3 (25)	21/12/02	05:58:35	06:10:06	00:11:31	00:22:00	311-	26-	80-	38326
R1 (47)	21/12/02	06:14:28	06:24:48	00:10:19	00:04:21	305-	20-	60-	39496
R3 (45)	21/12/02	06:16:09	06:27:39	00:02:51	-----	312-	33-	93-	39531
S3 (42)	21/12/02	06:43:16	06:51:07	00:07:50	00:15:37	169-	12-	90-	39462
R2 (38)	21/12/02	07:05:18	07:16:01	00:10:42	00:14:11	311-	22-	73-	40568
K4 (24)	21/12/02	07:10:00	07:15:08	00:00:05	-----	255-	7-	212-	38521
S4 (29)	21/12/02	07:14:33	07:24:47	00:09:39	-----	188-	21-	74-	39379
S1 (46)	21/12/02	07:16:15	07:26:43	00:01:55	-----	188-	22-	73-	39380
T3 (25)	21/12/02	07:43:11	07:56:00	00:12:49	00:16:27	307-	74-	120-	38327
S2 (43)	21/12/02	07:49:03	08:00:46	00:04:46	-----	207-	39-	64-	39468
R1 (47)	21/12/02	07:58:44	08:10:19	00:09:32	-----	312-	33-	93-	39497
R3 (45)	21/12/02	07:59:34	08:11:40	00:01:20	-----	301-	64-	137-	39532
S3 (42)	21/12/02	08:24:07	08:36:26	00:12:19	00:12:26	226-	71-	57-	39463
R2 (38)	21/12/02	08:49:06	09:01:18	00:12:12	00:12:40	309-	55-	112-	40569
S4 (29)	21/12/02	08:56:50	09:09:12	00:07:53	-----	239-	75-	53-	39380
S1 (46)	21/12/02	08:58:41	09:11:02	00:01:50	-----	241-	70-	53-	39381
T3 (25)	21/12/02	09:28:25	09:39:13	00:10:48	00:17:22	286-	22-	170-	38328
S2 (43)	21/12/02	09:32:35	09:44:39	00:05:25	-----	255-	45-	50-	39469
R1 (47)	21/12/02	09:42:25	09:54:40	00:10:00	-----	302-	66-	136-	39498
R3 (45)	21/12/02	09:44:55	09:51:48	00:02:05	-----	266-	10-	199-	39533

Satellite	Date	AOS Time	LOS Time	Duration	Interval Between	AOS Az	Max EI	LOS Az	Orbit num.
S3 (42)	21/12/02	10:08:34	10:20:07	00:11:33	00:16:45	270-	32-	48-	39464
R2 (38)	21/12/02	10:33:09	10:44:23	00:11:14	00:13:02	291-	30-	160-	40570
S4 (29)	21/12/02	10:41:51	10:52:54	00:08:31	-----	281-	25-	49-	39381
S1 (46)	21/12/02	10:43:46	10:54:45	00:01:50	-----	283-	25-	49-	39382
S2 (43)	21/12/02	11:18:02	11:28:35	00:10:33	00:23:16	293-	21-	52-	39470
R1 (47)	21/12/02	11:27:57	11:35:13	00:06:38	-----	268-	10-	197-	39499
S3 (42)	21/12/02	11:54:05	12:04:26	00:10:20	00:18:52	302-	20-	57-	39465
S4 (29)	21/12/02	12:27:13	12:37:38	00:10:25	00:22:46	308-	20-	64-	39382
S1 (46)	21/12/02	12:29:05	12:39:33	00:01:54	-----	308-	21-	65-	39383
T2 (40)	21/12/02	12:39:21	12:46:55	00:07:22	-----	167-	11-	91-	39347
S2 (43)	21/12/02	13:02:58	13:13:48	00:10:50	00:16:02	311-	23-	75-	39471
T4 (44)	21/12/02	13:11:56	13:22:11	00:08:23	-----	188-	21-	74-	39350
S3 (42)	21/12/02	13:38:32	13:49:56	00:11:23	00:16:21	312-	29-	88-	39466
T1 (28)	21/12/02	13:47:30	13:59:12	00:09:16	-----	207-	39-	64-	39263
K6 (26)	21/12/02	13:58:51	14:09:57	00:10:45	-----	200-	31-	67-	39394
S4 (29)	21/12/02	14:11:17	14:23:09	00:11:52	00:01:19	312-	39-	99-	39383
S1 (46)	21/12/02	14:13:07	14:25:03	00:01:53	-----	311-	41-	101-	39384
T2 (40)	21/12/02	14:20:03	14:32:20	00:07:17	-----	225-	69-	58-	39348
S2 (43)	21/12/02	14:46:43	14:59:01	00:12:17	00:14:23	309-	61-	115-	39472
T4 (44)	21/12/02	14:54:13	15:06:35	00:07:34	-----	239-	75-	53-	39351
S3 (42)	21/12/02	15:22:12	15:34:34	00:12:21	00:15:36	304-	81-	130-	39467
T1 (28)	21/12/02	15:31:02	15:43:05	00:08:31	-----	256-	45-	50-	39264
K6 (26)	21/12/02	15:41:18	15:53:15	00:10:09	-----	250-	52-	50-	39395
S4 (29)	21/12/02	15:55:03	16:07:06	00:12:02	00:01:48	298-	50-	144-	39384
S1 (46)	21/12/02	15:56:54	16:08:52	00:01:46	-----	297-	46-	146-	39385
T2 (40)	21/12/02	16:04:27	16:16:01	00:07:09	-----	269-	32-	48-	39349
S2 (43)	21/12/02	16:30:52	16:41:50	00:10:57	00:14:51	289-	26-	163-	39473
T4 (44)	21/12/02	16:39:14	16:50:17	00:08:27	-----	281-	25-	49-	39352
S3 (42)	21/12/02	17:07:11	17:15:54	00:08:42	00:16:53	275-	14-	186-	39468
T1 (28)	21/12/02	17:16:29	17:27:01	00:10:31	00:00:34	293-	21-	52-	39265
K6 (26)	21/12/02	17:25:57	17:36:19	00:09:18	-----	290-	21-	49-	39396
S4 (29)	21/12/02	17:41:44	17:46:14	00:04:29	00:05:25	253-	7-	215-	39385
T2 (40)	21/12/02	17:50:00	18:00:19	00:10:19	00:03:45	302-	20-	57-	39350
T4 (44)	21/12/02	18:24:36	18:35:01	00:10:24	00:24:17	308-	20-	64-	39353
K3 (33)	21/12/02	18:41:35	18:49:43	00:08:07	00:06:34	171-	12-	88-	38379
T1 (28)	21/12/02	19:01:24	19:12:14	00:10:49	00:11:41	312-	23-	75-	39266
K6 (26)	21/12/02	19:10:22	19:20:36	00:08:22	-----	311-	21-	69-	39397
K9 (39)	21/12/02	19:14:43	19:25:31	00:04:55	-----	193-	25-	71-	38379
T2 (40)	21/12/02	19:34:27	19:45:48	00:11:21	00:08:55	313-	29-	87-	39351
K7 (37)	21/12/02	19:48:10	20:00:01	00:11:50	00:02:22	210-	42-	63-	38379
K4 (24)	21/12/02	19:48:41	19:55:41	00:04:01	-----	163-	10-	94-	38529
T4 (44)	21/12/02	20:08:40	20:20:32	00:11:51	00:13:00	312-	39-	99-	39354
K3 (33)	21/12/02	20:22:36	20:34:55	00:12:19	00:02:04	227-	74-	57-	38380
T1 (28)	21/12/02	20:45:10	20:57:27	00:12:17	00:10:14	309-	61-	115-	39267
K6 (26)	21/12/02	20:53:30	21:05:15	00:07:47	-----	311-	48-	108-	39398
K9 (39)	21/12/02	20:57:25	21:09:43	00:04:28	-----	244-	64-	52-	38380
T2 (40)	21/12/02	21:18:07	21:30:29	00:12:22	00:08:23	304-	84-	129-	39352
K4 (24)	21/12/02	21:29:14	21:41:24	00:10:54	-----	223-	64-	58-	38530
K7 (37)	21/12/02	21:31:51	21:43:51	00:02:26	-----	258-	43-	49-	38380
T4 (44)	21/12/02	21:52:26	22:04:28	00:12:01	00:08:35	298-	50-	144-	39355

Satellite	Date	AOS Time	LOS Time	Duration	Interval Between	AOS Az	Max El	LOS Az	Orbit num.
K3 (33)	21/12/02	22:07:07	22:18:36	00:11:29	00:02:38	271-	31-	48-	38381
T1 (28)	21/12/02	22:29:19	22:40:16	00:10:57	00:10:43	289-	26-	163-	39268
K6 (26)	21/12/02	22:36:45	22:47:50	00:07:34	-----	293-	33-	155-	39399
K9 (39)	21/12/02	22:42:36	22:53:28	00:05:37	-----	285-	24-	49-	38381
T2 (40)	21/12/02	23:03:01	23:11:56	00:08:54	00:09:33	276-	15-	184-	39353
K4 (24)	21/12/02	23:13:38	23:25:10	00:11:31	00:01:42	268-	33-	48-	38531
K7 (37)	21/12/02	23:17:20	23:27:49	00:02:38	-----	295-	21-	52-	38381
T4 (44)	21/12/02	23:39:06	23:43:37	00:04:30	00:11:17	252-	7-	216-	39356
K3 (33)	21/12/02	23:52:38	00:02:57	00:10:18	00:09:01	303-	20-	58-	38382
T3 (25)	21/12/02	23:56:38	00:08:24	00:05:27	-----	201-	32-	66-	38337
R3 (45)	21/12/03	00:01:47	00:13:40	00:05:15	-----	215-	49-	61-	39542
R1 (47)	21/12/03	00:08:09	00:12:38	00:01:02	-----	146-	7-	103-	39507
K9 (39)	21/12/03	00:27:51	00:38:21	00:10:29	00:15:13	309-	21-	67-	38382
R2 (38)	21/12/03	00:55:20	01:05:20	00:10:00	00:16:59	186-	19-	76-	40579
K4 (24)	21/12/03	00:59:17	01:09:31	00:04:10	-----	301-	20-	56-	38532
K7 (37)	21/12/03	01:02:12	01:13:05	00:03:34	-----	312-	24-	77-	38382
K3 (33)	21/12/03	01:37:02	01:48:28	00:11:25	00:23:57	312-	30-	89-	38383
T3 (25)	21/12/03	01:40:37	01:53:17	00:04:49	-----	250-	55-	51-	38338
R3 (45)	21/12/03	01:45:25	01:57:09	00:03:51	-----	261-	39-	49-	39543
R1 (47)	21/12/03	01:47:17	01:59:20	00:02:11	-----	216-	50-	61-	39508
K9 (39)	21/12/03	02:11:48	02:23:49	00:12:00	00:12:28	311-	44-	104-	38383
R2 (38)	21/12/03	02:37:27	02:49:50	00:12:22	00:13:38	237-	79-	54-	40580
K4 (24)	21/12/03	02:43:53	02:55:06	00:05:15	-----	313-	28-	85-	38533
K7 (37)	21/12/03	02:45:56	02:58:14	00:03:08	-----	308-	65-	117-	38383
K3 (33)	21/12/03	03:20:43	03:33:02	00:12:19	00:22:28	304-	78-	131-	38384
T3 (25)	21/12/03	03:26:49	03:38:01	00:04:58	-----	289-	23-	51-	38339
R3 (45)	21/12/03	03:30:39	03:40:54	00:02:53	-----	297-	20-	53-	39544
R1 (47)	21/12/03	03:31:13	03:43:06	00:02:11	-----	261-	39-	49-	39509
K9 (39)	21/12/03	03:55:39	04:07:27	00:11:47	00:12:33	296-	41-	149-	38384
R2 (38)	21/12/03	04:22:24	04:33:31	00:11:06	00:14:57	280-	26-	48-	40581
K4 (24)	21/12/03	04:27:37	04:39:58	00:06:26	-----	305-	88-	128-	38534
K7 (37)	21/12/03	04:30:10	04:40:53	00:00:55	-----	287-	24-	166-	38384
K3 (33)	21/12/03	05:05:47	05:14:14	00:08:26	00:24:54	274-	13-	188-	38385
T3 (25)	21/12/03	05:12:47	05:23:59	00:09:44	-----	310-	23-	73-	38340
R3 (45)	21/12/03	05:15:06	05:25:58	00:01:58	-----	312-	25-	79-	39545
R1 (47)	21/12/03	05:16:45	05:27:10	00:01:11	-----	297-	20-	53-	39510
R2 (38)	21/12/03	06:07:48	06:18:11	00:10:22	00:40:38	307-	20-	63-	40582
K4 (24)	21/12/03	06:12:30	06:21:42	00:03:31	-----	278-	16-	182-	38535
S4 (29)	21/12/03	06:19:08	06:26:27	00:04:44	-----	165-	10-	93-	39393
S1 (46)	21/12/03	06:20:38	06:28:29	00:02:01	-----	169-	12-	90-	39394
S2 (43)	21/12/03	06:52:43	07:03:07	00:10:23	00:24:14	190-	22-	73-	39482
T3 (25)	21/12/03	06:57:30	07:10:11	00:07:04	-----	309-	54-	111-	38341
R3 (45)	21/12/03	06:58:31	07:10:43	00:00:32	-----	307-	72-	120-	39546
R1 (47)	21/12/03	07:01:29	07:12:31	00:01:47	-----	312-	25-	80-	39511
S3 (42)	21/12/03	07:27:18	07:39:03	00:11:44	00:14:47	208-	40-	64-	39477
R2 (38)	21/12/03	07:51:55	08:03:42	00:11:47	00:12:52	312-	37-	98-	40583
S4 (29)	21/12/03	07:59:42	08:11:58	00:08:16	-----	224-	66-	58-	39394
S1 (46)	21/12/03	08:01:29	08:13:48	00:01:49	-----	226-	71-	57-	39395
S2 (43)	21/12/03	08:35:07	08:47:28	00:12:21	00:21:18	241-	72-	53-	39483
T3 (25)	21/12/03	08:42:23	08:54:12	00:06:43	-----	292-	32-	157-	38342

Satellite	Date	AOS Time	LOS Time	Duration	Interval Between	AOS Az	Max EI	LOS Az	Orbit num.
R3 (45)	21/12/03	08:42:36	08:52:48	00:01:02	-----	285-	21-	171-	39547
R1 (47)	21/12/03	08:45:11	08:57:32	00:04:43	-----	307-	75-	121-	39512
S3 (42)	21/12/03	09:10:52	09:22:55	00:12:03	00:13:20	256-	45-	50-	39478
R2 (38)	21/12/03	09:35:40	09:47:45	00:12:05	00:12:44	299-	53-	142-	40584
S4 (29)	21/12/03	09:44:03	09:55:40	00:07:54	-----	268-	33-	48-	39395
S1 (46)	21/12/03	09:45:56	09:57:29	00:01:48	-----	270-	32-	48-	39396
S2 (43)	21/12/03	10:20:10	10:31:11	00:11:00	00:22:41	282-	25-	49-	39484
R1 (47)	21/12/03	10:29:36	10:39:48	00:08:37	-----	284-	21-	172-	39513
S3 (42)	21/12/03	10:56:19	11:06:51	00:10:32	00:16:30	294-	21-	52-	39479
R2 (38)	21/12/03	11:21:58	11:27:20	00:05:21	00:15:06	257-	8-	210-	40585
S4 (29)	21/12/03	11:29:35	11:39:56	00:10:21	00:02:15	301-	20-	56-	39396
S1 (46)	21/12/03	11:31:27	11:41:48	00:01:51	-----	302-	20-	57-	39397
S2 (43)	21/12/03	12:05:30	12:15:57	00:10:26	00:23:42	308-	20-	65-	39485
T4 (44)	21/12/03	12:16:30	12:23:49	00:07:18	00:00:33	165-	10-	93-	39364
S3 (42)	21/12/03	12:41:14	12:52:05	00:10:51	00:17:25	312-	23-	75-	39480
T1 (28)	21/12/03	12:51:11	13:01:34	00:09:29	-----	190-	22-	73-	39277
K6 (26)	21/12/03	12:53:40	13:02:18	00:00:43	-----	176-	14-	84-	39408
S4 (29)	21/12/03	13:14:05	13:25:25	00:11:19	00:11:46	312-	28-	86-	39397
S1 (46)	21/12/03	13:15:54	13:27:18	00:01:52	-----	312-	29-	88-	39398
T2 (40)	21/12/03	13:23:17	13:34:57	00:07:38	-----	207-	38-	64-	39362
S2 (43)	21/12/03	13:49:33	14:01:27	00:11:54	00:14:36	311-	40-	100-	39486
T4 (44)	21/12/03	13:57:04	14:09:21	00:07:53	-----	224-	66-	58-	39365
S3 (42)	21/12/03	14:25:00	14:37:17	00:12:17	00:15:38	308-	62-	115-	39481
T1 (28)	21/12/03	14:33:35	14:45:56	00:08:38	-----	241-	71-	53-	39278
K6 (26)	21/12/03	14:34:24	14:46:32	00:00:36	-----	231-	83-	56-	39409
S4 (29)	21/12/03	14:57:45	15:10:08	00:12:22	00:11:13	305-	86-	128-	39398
S1 (46)	21/12/03	14:59:34	15:11:56	00:01:47	-----	304-	81-	130-	39399
T2 (40)	21/12/03	15:06:46	15:18:50	00:06:54	-----	255-	46-	50-	39363
S2 (43)	21/12/03	15:33:20	15:45:19	00:12:00	00:14:29	298-	47-	145-	39487
T4 (44)	21/12/03	15:41:25	15:53:02	00:07:42	-----	268-	33-	48-	39366
S3 (42)	21/12/03	16:09:10	16:20:06	00:10:56	00:16:07	289-	26-	164-	39482
K6 (26)	21/12/03	16:18:23	16:29:28	00:09:22	-----	274-	28-	48-	39410
T1 (28)	21/12/03	16:18:39	16:29:38	00:00:10	-----	282-	25-	49-	39279
S4 (29)	21/12/03	16:42:36	16:51:41	00:09:04	00:12:57	278-	15-	182-	39399
S1 (46)	21/12/03	16:44:33	16:53:16	00:01:35	-----	275-	14-	186-	39400
T2 (40)	21/12/03	16:52:12	17:02:45	00:09:28	-----	293-	21-	51-	39364
S2 (43)	21/12/03	17:20:18	17:24:07	00:03:49	00:17:32	248-	6-	220-	39488
T4 (44)	21/12/03	17:26:57	17:37:17	00:10:20	00:02:49	301-	20-	56-	39367
K6 (26)	21/12/03	18:03:12	18:13:09	00:09:57	00:25:54	305-	19-	58-	39411
T1 (28)	21/12/03	18:03:59	18:14:25	00:01:15	-----	308-	20-	65-	39280
K9 (39)	21/12/03	18:18:57	18:27:28	00:08:31	00:04:32	173-	13-	86-	38393
T2 (40)	21/12/03	18:37:09	18:47:57	00:10:48	00:09:40	311-	23-	75-	39365
K7 (37)	21/12/03	18:51:47	19:02:26	00:10:38	00:03:50	191-	24-	72-	38393
T4 (44)	21/12/03	19:11:27	19:22:46	00:11:18	00:09:01	312-	28-	86-	39368
K3 (33)	21/12/03	19:25:47	19:37:36	00:11:48	00:03:01	210-	42-	63-	38394
K6 (26)	21/12/03	19:46:48	19:57:57	00:11:08	00:09:12	313-	30-	90-	39412
T1 (28)	21/12/03	19:48:01	19:59:55	00:01:58	-----	311-	40-	101-	39281
K9 (39)	21/12/03	20:00:11	20:12:32	00:12:20	00:00:15	229-	79-	56-	38394
T2 (40)	21/12/03	20:20:55	20:33:11	00:12:16	00:08:23	309-	60-	114-	39366
K4 (24)	21/12/03	20:33:52	20:45:24	00:11:32	00:00:40	205-	36-	65-	38544

Satellite	Date	AOS Time	LOS Time	Duration	Interval Between	AOS Az	Max EI	LOS Az	Orbit num.
K7 (37)	21/12/03	20:34:22	20:46:41	00:01:17	-----	243-	67-	52-	38394
T4 (44)	21/12/03	20:55:07	21:07:29	00:12:21	00:08:25	305-	87-	128-	39369
K3 (33)	21/12/03	21:09:26	21:21:26	00:12:00	00:01:56	257-	43-	49-	38395
K6 (26)	21/12/03	21:29:46	21:41:41	00:11:54	00:08:20	303-	72-	134-	39413
T1 (28)	21/12/03	21:31:48	21:43:47	00:02:06	-----	298-	47-	145-	39282
K9 (39)	21/12/03	21:44:46	21:56:12	00:11:25	00:00:58	272-	30-	48-	38395
T2 (40)	21/12/03	22:05:02	22:16:03	00:11:00	00:08:50	289-	27-	162-	39367
K4 (24)	21/12/03	22:17:24	22:29:24	00:12:00	00:01:20	254-	47-	50-	38545
K7 (37)	21/12/03	22:19:30	22:30:25	00:01:00	-----	284-	24-	49-	38395
T4 (44)	21/12/03	22:39:57	22:49:03	00:09:05	00:09:32	278-	15-	183-	39370
K3 (33)	21/12/03	22:54:54	23:05:24	00:10:29	00:05:51	294-	21-	52-	38396
R3 (45)	21/12/03	23:01:34	23:12:16	00:06:52	-----	193-	25-	70-	39556
T3 (25)	21/12/03	23:11:37	23:22:22	00:10:05	-----	190-	22-	73-	38351
K6 (26)	21/12/03	23:14:23	23:21:50	00:00:03	-----	270-	11-	194-	39414
T1 (28)	21/12/03	23:18:48	23:22:33	00:00:42	-----	248-	6-	220-	39283
K9 (39)	21/12/03	23:30:17	23:40:36	00:10:19	00:07:44	304-	20-	58-	38396
R2 (38)	21/12/04	00:00:04	00:06:50	00:06:45	00:19:28	162-	9-	96-	40593
K4 (24)	21/12/04	00:02:55	00:13:23	00:06:33	-----	292-	21-	51-	38546
K7 (37)	21/12/04	00:04:47	00:15:15	00:01:52	-----	309-	21-	66-	38396
K3 (33)	21/12/04	00:39:47	00:50:39	00:10:51	00:24:31	312-	24-	76-	38397
R3 (45)	21/12/04	00:44:01	00:56:10	00:05:31	-----	245-	62-	52-	39557
R1 (47)	21/12/04	00:50:45	01:01:49	00:05:38	-----	196-	28-	69-	39522
T3 (25)	21/12/04	00:54:48	01:07:37	00:05:47	-----	240-	74-	53-	38352
K9 (39)	21/12/04	01:14:38	01:26:07	00:11:29	00:07:01	312-	31-	90-	38397
R2 (38)	21/12/04	01:40:21	01:52:34	00:12:13	00:14:13	222-	62-	59-	40594
K4 (24)	21/12/04	01:48:00	01:58:40	00:06:05	-----	311-	23-	74-	38547
K7 (37)	21/12/04	01:48:47	02:00:44	00:02:04	-----	311-	42-	102-	38397
K3 (33)	21/12/04	02:23:32	02:35:49	00:12:17	00:22:47	308-	64-	116-	38398
R3 (45)	21/12/04	02:28:56	02:39:38	00:03:48	-----	286-	23-	49-	39558
R1 (47)	21/12/04	02:33:39	02:45:56	00:06:17	-----	247-	59-	51-	39523
T3 (25)	21/12/04	02:40:41	02:52:13	00:06:16	-----	281-	26-	50-	38353
K9 (39)	21/12/04	02:58:19	03:10:37	00:12:18	00:06:05	303-	73-	133-	38398
R2 (38)	21/12/04	03:24:36	03:36:16	00:11:40	00:13:58	266-	34-	48-	40595
K4 (24)	21/12/04	03:31:51	03:44:03	00:07:46	-----	309-	58-	113-	38548
K7 (37)	21/12/04	03:32:36	03:44:28	00:00:25	-----	297-	44-	148-	38398
K3 (33)	21/12/04	04:07:44	04:18:31	00:10:46	00:23:16	288-	25-	165-	38399
R3 (45)	21/12/04	04:13:53	04:24:14	00:05:43	-----	310-	21-	67-	39559
R1 (47)	21/12/04	04:18:55	04:29:42	00:05:28	-----	287-	23-	50-	39524
T3 (25)	21/12/04	04:26:54	04:37:52	00:08:10	-----	307-	22-	66-	38354
K9 (39)	21/12/04	04:43:32	04:51:35	00:08:03	00:05:40	272-	12-	191-	38399
R2 (38)	21/12/04	05:10:08	05:20:29	00:10:20	00:18:32	300-	20-	55-	40596
K4 (24)	21/12/04	05:16:01	05:27:06	00:06:36	-----	290-	28-	161-	38549
S2 (43)	21/12/04	05:57:12	06:04:50	00:07:38	00:30:06	167-	11-	91-	39496
R3 (45)	21/12/04	05:57:32	06:09:25	00:04:34	-----	311-	44-	104-	39560
R1 (47)	21/12/04	06:04:06	06:14:40	00:05:15	-----	310-	21-	69-	39525
T3 (25)	21/12/04	06:11:51	06:24:14	00:09:34	-----	311-	42-	101-	38355
S3 (42)	21/12/04	06:30:58	06:41:24	00:10:26	00:06:43	188-	22-	73-	39491
R2 (38)	21/12/04	06:54:42	07:05:56	00:11:13	00:13:17	312-	27-	84-	40597
S4 (29)	21/12/04	07:02:58	07:14:35	00:08:39	-----	206-	37-	65-	39408
S1 (46)	21/12/04	07:04:40	07:16:25	00:01:49	-----	208-	40-	64-	39409

Satellite	Date	AOS Time	LOS Time	Duration	Interval Between	AOS Az	Max El	LOS Az	Orbit num.
S2 (43)	21/12/04	07:37:56	07:50:14	00:12:17	00:21:31	225-	69-	58-	39497
R3 (45)	21/12/04	07:41:06	07:52:45	00:02:31	-----	296-	40-	150-	39561
R1 (47)	21/12/04	07:48:01	08:00:05	00:07:19	-----	310-	47-	106-	39526
T3 (25)	21/12/04	07:56:30	08:08:56	00:08:51	-----	298-	48-	146-	38356
S3 (42)	21/12/04	08:13:23	08:25:45	00:12:21	00:04:26	241-	71-	53-	39492
R2 (38)	21/12/04	08:38:22	08:50:44	00:12:21	00:12:37	305-	88-	126-	40598
S4 (29)	21/12/04	08:46:23	08:58:30	00:07:46	-----	254-	47-	50-	39409
S1 (46)	21/12/04	08:48:13	09:00:17	00:01:46	-----	256-	45-	50-	39410
S2 (43)	21/12/04	09:22:20	09:33:55	00:11:34	00:22:03	269-	32-	48-	39498
R1 (47)	21/12/04	09:31:55	09:43:33	00:09:37	-----	295-	37-	152-	39527
T3 (25)	21/12/04	09:44:18	09:48:35	00:04:16	00:00:45	251-	6-	218-	38357
S3 (42)	21/12/04	09:58:27	10:09:27	00:11:00	00:09:52	282-	25-	49-	39493
R2 (38)	21/12/04	10:23:05	10:32:29	00:09:24	00:13:37	279-	16-	180-	40599
S4 (29)	21/12/04	10:31:49	10:42:24	00:09:54	-----	292-	21-	51-	39410
S1 (46)	21/12/04	10:33:40	10:44:13	00:01:48	-----	294-	21-	52-	39411
S2 (43)	21/12/04	11:07:52	11:18:13	00:10:20	00:23:39	302-	20-	57-	39499
S3 (42)	21/12/04	11:43:47	11:54:15	00:10:27	00:25:34	308-	21-	65-	39494
T1 (28)	21/12/04	11:55:41	12:03:19	00:07:38	00:01:26	167-	11-	91-	39291
S4 (29)	21/12/04	12:16:47	12:27:35	00:10:47	00:13:27	311-	23-	74-	39411
S1 (46)	21/12/04	12:18:35	12:29:26	00:01:51	-----	312-	23-	75-	39412
T2 (40)	21/12/04	12:26:58	12:37:16	00:07:50	-----	189-	21-	74-	39376
S2 (43)	21/12/04	12:52:20	13:03:42	00:11:22	00:15:03	312-	29-	87-	39500
T4 (44)	21/12/04	13:00:18	13:11:56	00:08:13	-----	206-	37-	65-	39379
S3 (42)	21/12/04	13:27:49	13:39:45	00:11:55	00:15:53	311-	40-	101-	39495
K6 (26)	21/12/04	13:28:05	13:39:38	00:00:06	-----	208-	40-	63-	39423
T1 (28)	21/12/04	13:36:26	13:48:43	00:09:04	-----	225-	69-	58-	39292
S4 (29)	21/12/04	14:00:34	14:12:50	00:12:16	00:11:51	309-	58-	113-	39412
S1 (46)	21/12/04	14:02:21	14:14:39	00:01:48	-----	308-	62-	115-	39413
T2 (40)	21/12/04	14:09:19	14:21:39	00:07:00	-----	240-	73-	53-	39377
S2 (43)	21/12/04	14:36:00	14:48:22	00:12:22	00:14:21	304-	83-	129-	39501
T4 (44)	21/12/04	14:43:44	14:55:51	00:07:28	-----	254-	47-	50-	39380
K6 (26)	21/12/04	15:10:59	15:22:46	00:11:47	00:15:08	256-	44-	49-	39424
S3 (42)	21/12/04	15:11:36	15:23:35	00:00:48	-----	298-	47-	146-	39496
T1 (28)	21/12/04	15:20:51	15:32:24	00:08:48	-----	269-	32-	48-	39293
S4 (29)	21/12/04	15:44:40	15:55:47	00:11:06	00:12:16	290-	28-	161-	39413
S1 (46)	21/12/04	15:46:31	15:57:27	00:01:40	-----	289-	26-	164-	39414
T2 (40)	21/12/04	15:54:21	16:05:21	00:07:54	-----	282-	25-	49-	39378
S2 (43)	21/12/04	16:20:56	16:29:46	00:08:50	00:15:34	276-	14-	184-	39502
T4 (44)	21/12/04	16:29:09	16:39:44	00:09:57	-----	292-	21-	51-	39381
K6 (26)	21/12/04	16:55:45	17:05:57	00:10:12	00:16:00	294-	20-	51-	39425
T1 (28)	21/12/04	17:06:23	17:16:42	00:10:19	00:00:25	302-	20-	57-	39294
T2 (40)	21/12/04	17:39:41	17:50:07	00:10:25	00:22:59	308-	20-	64-	39379
K7 (37)	21/12/04	17:56:07	18:04:19	00:08:11	00:06:00	171-	12-	88-	38407
T4 (44)	21/12/04	18:14:08	18:24:54	00:10:46	00:09:49	311-	23-	74-	39382
K3 (33)	21/12/04	18:29:26	18:40:01	00:10:34	00:04:31	190-	23-	72-	38408
K6 (26)	21/12/04	18:39:59	18:50:26	00:10:25	-----	312-	22-	74-	39426
T1 (28)	21/12/04	18:50:50	19:02:12	00:11:21	00:00:24	313-	29-	87-	39295
K9 (39)	21/12/04	19:03:18	19:15:12	00:11:53	00:01:06	212-	44-	62-	38408
T2 (40)	21/12/04	19:23:44	19:35:38	00:11:53	00:08:32	312-	39-	100-	39380
K7 (37)	21/12/04	19:37:09	19:49:29	00:12:20	00:01:31	227-	75-	57-	38408

Satellite	Date	AOS Time	LOS Time	Duration	Interval Between	AOS Az	Max EI	LOS Az	Orbit num.
K4 (24)	21/12/04	19:38:58	19:49:09	00:00:02	-----	186-	21-	74-	38558
T4 (44)	21/12/04	19:57:55	20:10:10	00:12:15	00:08:46	309-	58-	113-	39383
K3 (33)	21/12/04	20:11:57	20:24:17	00:12:19	00:01:47	242-	68-	52-	38409
K6 (26)	21/12/04	20:23:01	20:34:55	00:10:37	-----	309-	59-	114-	39427
T1 (28)	21/12/04	20:34:30	20:46:52	00:11:56	-----	304-	83-	129-	39296
K9 (39)	21/12/04	20:47:03	20:59:01	00:11:57	00:00:11	259-	42-	49-	38409
T2 (40)	21/12/04	21:07:30	21:19:31	00:12:00	00:08:29	298-	48-	145-	39381
K4 (24)	21/12/04	21:21:21	21:33:38	00:12:16	00:01:50	240-	74-	53-	38559
K7 (37)	21/12/04	21:21:41	21:33:10	00:00:02	-----	271-	31-	48-	38409
T4 (44)	21/12/04	21:42:01	21:53:08	00:11:06	00:08:51	290-	28-	161-	39384
K3 (33)	21/12/04	21:57:05	22:08:01	00:10:56	00:03:56	283-	24-	49-	38410
R3 (45)	21/12/04	22:02:10	22:10:17	00:02:16	-----	171-	12-	88-	39570
K6 (26)	21/12/04	22:06:28	22:17:03	00:06:46	-----	289-	26-	163-	39428
T1 (28)	21/12/04	22:19:26	22:28:17	00:08:50	00:02:22	276-	14-	184-	39297
T3 (25)	21/12/04	22:26:58	22:36:04	00:07:46	-----	175-	14-	83-	38365
K9 (39)	21/12/04	22:32:33	22:43:01	00:06:57	-----	295-	21-	52-	38410
T2 (40)	21/12/04	22:54:22	22:58:27	00:04:05	00:11:20	251-	6-	217-	39382
K4 (24)	21/12/04	23:06:29	23:17:25	00:10:55	00:08:02	282-	25-	48-	38560
K7 (37)	21/12/04	23:07:12	23:17:31	00:00:06	-----	303-	20-	58-	38410
K3 (33)	21/12/04	23:42:23	23:52:50	00:10:27	00:24:51	309-	21-	66-	38411
R3 (45)	21/12/04	23:42:58	23:55:09	00:02:19	-----	228-	76-	57-	39571
R1 (47)	21/12/04	23:54:49	00:03:53	00:08:44	-----	178-	15-	82-	39536
T3 (25)	21/12/05	00:09:07	00:21:55	00:12:48	00:05:13	229-	80-	56-	38366
K9 (39)	21/12/05	00:17:23	00:28:18	00:06:23	-----	312-	24-	78-	38411
R2 (38)	21/12/05	00:43:38	00:55:09	00:11:30	00:15:19	203-	34-	66-	40608
K7 (37)	21/12/05	00:51:36	01:03:02	00:07:53	-----	312-	30-	89-	38411
K4 (24)	21/12/05	00:51:57	01:02:15	00:00:04	-----	308-	20-	64-	38561
K3 (33)	21/12/05	01:26:23	01:38:20	00:11:56	00:24:07	311-	41-	102-	38412
R3 (45)	21/12/05	01:27:13	01:38:32	00:00:12	-----	272-	30-	48-	39572
R1 (47)	21/12/05	01:36:21	01:48:44	00:10:11	-----	232-	86-	55-	39537
T3 (25)	21/12/05	01:54:35	02:06:28	00:11:53	00:05:50	272-	31-	49-	38367
K9 (39)	21/12/05	02:01:06	02:13:25	00:06:57	-----	308-	68-	118-	38412
R2 (38)	21/12/05	02:26:56	02:39:06	00:12:09	00:13:31	252-	50-	50-	40609
K7 (37)	21/12/05	02:35:16	02:47:36	00:08:30	-----	303-	77-	132-	38412
K4 (24)	21/12/05	02:36:05	02:47:53	00:00:16	-----	312-	39-	99-	38562
K3 (33)	21/12/05	03:10:11	03:22:05	00:11:53	00:22:18	297-	44-	147-	38413
R3 (45)	21/12/05	03:12:27	03:22:37	00:00:31	-----	304-	19-	57-	39573
R1 (47)	21/12/05	03:21:04	03:32:24	00:09:47	-----	275-	29-	48-	39538
T3 (25)	21/12/05	03:40:57	03:51:49	00:10:51	00:08:32	303-	21-	60-	38368
K9 (39)	21/12/05	03:45:23	03:55:58	00:04:09	-----	287-	23-	168-	38413
R2 (38)	21/12/05	04:12:20	04:22:57	00:10:37	00:16:21	291-	22-	51-	40610
K4 (24)	21/12/05	04:19:56	04:31:55	00:08:58	-----	298-	49-	144-	38563
K7 (37)	21/12/05	04:20:22	04:28:46	00:03:09	-----	274-	13-	189-	38413
R3 (45)	21/12/05	04:56:33	05:07:50	00:11:17	00:27:46	313-	30-	89-	39574
R1 (47)	21/12/05	05:06:33	05:16:53	00:09:02	-----	305-	20-	60-	39539
T3 (25)	21/12/05	05:26:10	05:38:13	00:12:03	00:09:16	312-	33-	92-	38369
S3 (42)	21/12/05	05:35:24	05:43:10	00:04:56	-----	168-	11-	90-	39505
R2 (38)	21/12/05	05:57:22	06:08:04	00:10:42	00:14:12	311-	22-	73-	40611
S4 (29)	21/12/05	06:06:42	06:16:54	00:08:49	-----	188-	20-	75-	39422
K4 (24)	21/12/05	06:06:46	06:11:03	00:05:05	-----	250-	7-	213-	38564

Satellite	Date	AOS Time	LOS Time	Duration	Interval Between	AOS Az	Max EI	LOS Az	Orbit num.
S1 (46)	21/12/05	06:08:19	06:18:45	00:07:42	-----	188-	22-	73-	39423
R3 (45)	21/12/05	06:39:56	06:52:07	00:12:11	00:21:10	303-	77-	132-	39575
S2 (43)	21/12/05	06:41:09	06:52:50	00:00:43	-----	207-	38-	64-	39511
R1 (47)	21/12/05	06:50:50	07:02:25	00:09:34	-----	312-	33-	92-	39540
T3 (25)	21/12/05	07:10:43	07:23:29	00:12:45	00:08:18	302-	70-	135-	38370
S3 (42)	21/12/05	07:16:12	07:28:31	00:05:01	-----	225-	70-	58-	39506
R2 (38)	21/12/05	07:41:10	07:53:23	00:12:12	00:12:39	309-	55-	111-	40612
S4 (29)	21/12/05	07:48:58	08:01:20	00:07:57	-----	239-	75-	53-	39423
S1 (46)	21/12/05	07:50:44	08:03:05	00:01:45	-----	241-	71-	53-	39424
S2 (43)	21/12/05	08:24:39	08:36:44	00:12:04	00:21:33	255-	46-	50-	39512
R3 (45)	21/12/05	08:24:45	08:33:00	00:03:04	-----	273-	13-	189-	39576
R1 (47)	21/12/05	08:34:31	08:46:46	00:12:15	00:01:31	302-	67-	136-	39541
T3 (25)	21/12/05	08:56:56	09:05:06	00:08:09	00:10:09	271-	12-	193-	38371
S3 (42)	21/12/05	09:00:38	09:12:12	00:07:05	-----	270-	32-	48-	39507
R2 (38)	21/12/05	09:25:13	09:36:29	00:11:15	00:13:01	291-	30-	159-	40613
S4 (29)	21/12/05	09:33:58	09:45:02	00:08:33	-----	281-	25-	49-	39424
S1 (46)	21/12/05	09:35:48	09:46:48	00:01:45	-----	282-	25-	49-	39425
S2 (43)	21/12/05	10:10:05	10:20:39	00:10:33	00:23:17	293-	21-	51-	39513
R1 (47)	21/12/05	10:20:01	10:27:23	00:06:43	-----	268-	11-	196-	39542
S3 (42)	21/12/05	10:46:10	10:56:30	00:10:20	00:18:47	302-	20-	57-	39508
S4 (29)	21/12/05	11:19:20	11:29:46	00:10:25	00:22:49	308-	20-	64-	39425
S1 (46)	21/12/05	11:21:08	11:31:35	00:01:49	-----	308-	21-	65-	39426
T2 (40)	21/12/05	11:31:29	11:38:58	00:07:22	-----	166-	11-	92-	39390
S2 (43)	21/12/05	11:55:02	12:05:51	00:10:49	00:16:04	311-	23-	75-	39514
T4 (44)	21/12/05	12:04:02	12:14:14	00:08:22	-----	188-	20-	75-	39393
K6 (26)	21/12/05	12:22:32	12:32:17	00:09:44	00:08:18	185-	19-	76-	39437
S3 (42)	21/12/05	12:30:37	12:42:00	00:09:43	-----	312-	29-	87-	39509
T1 (28)	21/12/05	12:39:40	12:51:21	00:09:21	-----	207-	39-	64-	39306
S4 (29)	21/12/05	13:03:25	13:15:17	00:11:52	00:12:03	312-	39-	99-	39426
S1 (46)	21/12/05	13:05:10	13:17:05	00:01:48	-----	311-	40-	101-	39427
T2 (40)	21/12/05	13:12:09	13:24:25	00:07:19	-----	224-	68-	58-	39391
S2 (43)	21/12/05	13:38:48	13:51:05	00:12:17	00:14:23	309-	60-	114-	39515
T4 (44)	21/12/05	13:46:17	13:58:40	00:07:34	-----	239-	75-	53-	39394
K6 (26)	21/12/05	14:03:56	14:16:05	00:12:08	00:05:16	237-	79-	54-	39438
S3 (42)	21/12/05	14:14:17	14:26:39	00:10:33	-----	304-	82-	130-	39510
T1 (28)	21/12/05	14:23:11	14:35:14	00:08:35	-----	255-	46-	50-	39307
S4 (29)	21/12/05	14:47:11	14:59:14	00:12:03	00:11:56	299-	50-	144-	39427
S1 (46)	21/12/05	14:48:57	15:00:56	00:01:41	-----	298-	47-	146-	39428
T2 (40)	21/12/05	14:56:32	15:08:06	00:07:10	-----	269-	32-	48-	39392
S2 (43)	21/12/05	15:22:56	15:33:57	00:11:01	00:14:50	289-	27-	163-	39516
T4 (44)	21/12/05	15:31:17	15:42:21	00:08:23	-----	281-	25-	49-	39395
K6 (26)	21/12/05	15:48:11	15:59:02	00:10:51	00:05:49	280-	25-	48-	39439
S3 (42)	21/12/05	15:59:15	16:08:01	00:08:46	00:00:12	276-	14-	185-	39511
T1 (28)	21/12/05	16:08:37	16:19:09	00:10:32	00:00:35	293-	21-	51-	39308
S4 (29)	21/12/05	16:33:47	16:38:27	00:04:39	00:14:37	254-	7-	214-	39428
S1 (46)	21/12/05	16:36:07	16:39:31	00:01:04	-----	252-	6-	217-	39429
T2 (40)	21/12/05	16:42:03	16:52:23	00:10:19	00:02:32	302-	20-	57-	39393
T4 (44)	21/12/05	17:16:39	17:27:04	00:10:24	00:24:16	308-	20-	64-	39396
K6 (26)	21/12/05	17:32:54	17:42:56	00:10:01	00:05:49	308-	19-	61-	39440
K3 (33)	21/12/05	17:33:48	17:41:52	00:01:03	-----	170-	12-	89-	38422

Satellite	Date	AOS Time	LOS Time	Duration	Interval Between	AOS Az	Max El	LOS Az	Orbit num.
T1 (28)	21/12/05	17:53:34	18:04:22	00:10:48	00:11:41	312-	23-	75-	39309
K9 (39)	21/12/05	18:06:53	18:17:39	00:10:46	00:02:30	192-	25-	71-	38422
T2 (40)	21/12/05	18:26:32	18:37:52	00:11:20	00:08:52	313-	29-	87-	39394
K7 (37)	21/12/05	18:40:20	18:52:09	00:11:49	00:02:27	210-	42-	63-	38422
K4 (24)	21/12/05	18:44:49	18:52:17	00:00:07	-----	166-	11-	92-	38572
T4 (44)	21/12/05	19:00:44	19:12:35	00:11:50	00:08:27	312-	38-	99-	39397
K3 (33)	21/12/05	19:14:47	19:27:06	00:12:19	00:02:11	227-	73-	57-	38423
K6 (26)	21/12/05	19:16:20	19:27:44	00:00:37	-----	312-	35-	96-	39441
T1 (28)	21/12/05	19:37:19	19:49:36	00:12:16	00:09:35	309-	61-	114-	39310
K9 (39)	21/12/05	19:49:33	20:01:52	00:12:15	-----	244-	64-	52-	38423
T2 (40)	21/12/05	20:10:12	20:22:34	00:12:22	00:08:20	304-	85-	129-	39395
K7 (37)	21/12/05	20:24:00	20:36:00	00:12:00	00:01:25	257-	43-	49-	38423
K4 (24)	21/12/05	20:25:36	20:37:49	00:01:49	-----	225-	68-	58-	38573
T4 (44)	21/12/05	20:44:30	20:56:33	00:12:02	00:06:40	299-	50-	144-	39398
K3 (33)	21/12/05	20:59:16	21:10:46	00:11:29	00:02:43	271-	31-	48-	38424
K6 (26)	21/12/05	20:59:21	21:11:07	00:00:21	-----	300-	56-	141-	39442
T1 (28)	21/12/05	21:21:28	21:32:27	00:10:58	00:10:20	289-	27-	163-	39311
K9 (39)	21/12/05	21:34:43	21:45:36	00:10:52	00:02:16	285-	24-	49-	38424
T3 (25)	21/12/05	21:42:58	21:49:12	00:03:36	-----	157-	8-	100-	38379
T2 (40)	21/12/05	21:55:05	22:04:03	00:08:57	00:05:52	277-	15-	183-	39396
K7 (37)	21/12/05	22:09:28	22:19:57	00:10:29	00:05:24	295-	21-	52-	38424
K4 (24)	21/12/05	22:10:06	22:21:35	00:01:37	-----	269-	32-	48-	38574
T4 (44)	21/12/05	22:31:06	22:35:47	00:04:41	00:09:30	254-	7-	214-	39399
R3 (45)	21/12/05	22:42:22	22:53:58	00:11:36	00:06:35	208-	40-	64-	39585
K3 (33)	21/12/05	22:44:48	22:55:07	00:01:08	-----	303-	20-	57-	38425
K6 (26)	21/12/05	22:44:48	22:50:12	00:04:05	-----	259-	8-	208-	39443
R1 (47)	21/12/05	23:00:23	23:04:37	00:04:14	00:10:11	144-	7-	103-	39550
K9 (39)	21/12/05	23:19:59	23:30:29	00:10:29	00:15:21	309-	21-	67-	38425
T3 (25)	21/12/05	23:23:35	23:36:10	00:05:41	-----	219-	56-	60-	38380
R2 (38)	21/12/05	23:47:26	23:57:23	00:09:57	00:11:16	185-	19-	76-	40622
K7 (37)	21/12/05	23:54:20	00:05:13	00:07:49	-----	312-	24-	77-	38425
K4 (24)	21/12/05	23:55:44	00:05:57	00:00:44	-----	302-	20-	56-	38575
R3 (45)	21/12/06	00:25:39	00:37:33	00:11:53	00:19:42	256-	44-	50-	39586
K3 (33)	21/12/06	00:29:13	00:40:38	00:03:04	-----	312-	30-	88-	38426
R1 (47)	21/12/06	00:39:23	00:51:26	00:10:48	-----	215-	49-	61-	39551
K9 (39)	21/12/06	01:03:57	01:15:57	00:12:00	00:12:30	311-	43-	103-	38426
T3 (25)	21/12/06	01:08:31	01:20:47	00:04:49	-----	263-	38-	49-	38381
R2 (38)	21/12/06	01:29:32	01:41:55	00:12:22	00:08:45	237-	80-	54-	40623
K7 (37)	21/12/06	01:38:05	01:50:23	00:08:28	-----	308-	65-	116-	38426
K4 (24)	21/12/06	01:40:18	01:51:33	00:01:10	-----	313-	29-	87-	38576
R3 (45)	21/12/06	02:10:49	02:21:11	00:10:21	00:19:16	294-	21-	51-	39587
K3 (33)	21/12/06	02:12:53	02:25:13	00:04:01	-----	304-	79-	131-	38427
R1 (47)	21/12/06	02:23:19	02:35:12	00:09:58	-----	261-	39-	49-	39552
K9 (39)	21/12/06	02:47:47	02:59:36	00:11:48	00:12:35	296-	42-	149-	38427
T3 (25)	21/12/06	02:54:55	03:05:49	00:06:13	-----	298-	21-	56-	38382
R2 (38)	21/12/06	03:14:28	03:25:35	00:11:07	00:08:38	279-	26-	48-	40624
K7 (37)	21/12/06	03:22:18	03:33:03	00:07:27	-----	288-	24-	166-	38427
K4 (24)	21/12/06	03:24:02	03:36:21	00:03:17	-----	304-	84-	129-	38577
R3 (45)	21/12/06	03:55:27	04:06:08	00:10:40	00:19:06	312-	23-	75-	39588
K3 (33)	21/12/06	03:57:57	04:06:27	00:00:19	-----	274-	13-	188-	38428

Satellite	Date	AOS Time	LOS Time	Duration	Interval Between	AOS Az	Max EI	LOS Az	Orbit num.
R1 (47)	21/12/06	04:08:50	04:19:16	00:10:25	00:02:22	297-	20-	53-	39553
T3 (25)	21/12/06	04:40:26	04:52:07	00:11:40	00:21:10	311-	28-	84-	38383
R2 (38)	21/12/06	04:59:52	05:10:15	00:10:22	00:07:45	307-	20-	63-	40625
K4 (24)	21/12/06	05:09:02	05:17:55	00:07:39	-----	276-	15-	184-	38578
S4 (29)	21/12/06	05:11:19	05:18:33	00:00:37	-----	165-	10-	93-	39436
S1 (46)	21/12/06	05:12:44	05:20:29	00:01:56	-----	168-	11-	90-	39437
R3 (45)	21/12/06	05:38:55	05:51:03	00:12:08	00:18:25	309-	61-	115-	39589
S2 (43)	21/12/06	05:44:49	05:55:10	00:04:07	-----	190-	21-	74-	39525
R1 (47)	21/12/06	05:53:35	06:04:37	00:09:26	-----	312-	25-	80-	39554
S3 (42)	21/12/06	06:19:24	06:31:08	00:11:43	00:14:47	208-	39-	64-	39520
T3 (25)	21/12/06	06:25:00	06:37:51	00:06:43	-----	306-	84-	125-	38384
R2 (38)	21/12/06	06:44:00	06:55:46	00:11:46	00:06:08	312-	37-	97-	40626
S4 (29)	21/12/06	06:51:50	07:04:06	00:08:19	-----	223-	65-	58-	39437
S1 (46)	21/12/06	06:53:32	07:05:51	00:01:44	-----	225-	70-	58-	39438
R3 (45)	21/12/06	07:22:47	07:33:36	00:10:48	00:16:56	289-	26-	164-	39590
S2 (43)	21/12/06	07:27:11	07:39:33	00:05:56	-----	240-	73-	53-	39526
R1 (47)	21/12/06	07:37:17	07:49:38	00:10:05	-----	307-	74-	121-	39555
S3 (42)	21/12/06	08:02:56	08:15:00	00:12:03	00:13:18	256-	45-	50-	39521
T3 (25)	21/12/06	08:10:28	08:20:39	00:05:38	-----	282-	18-	176-	38385
R2 (38)	21/12/06	08:27:44	08:39:50	00:12:06	00:07:05	299-	54-	142-	40627
S4 (29)	21/12/06	08:36:10	08:47:48	00:07:57	-----	268-	33-	48-	39438
S1 (46)	21/12/06	08:37:58	08:49:32	00:01:43	-----	270-	32-	48-	39439
S2 (43)	21/12/06	09:12:14	09:23:15	00:11:01	00:22:42	282-	25-	49-	39527
R1 (47)	21/12/06	09:21:41	09:31:56	00:08:40	-----	284-	21-	171-	39556
S3 (42)	21/12/06	09:48:23	09:58:56	00:10:33	00:16:27	293-	21-	52-	39522
R2 (38)	21/12/06	10:13:59	10:19:29	00:05:30	00:15:02	258-	8-	209-	40628
S4 (29)	21/12/06	10:21:42	10:32:04	00:10:21	00:02:13	301-	20-	56-	39439
S1 (46)	21/12/06	10:23:30	10:33:50	00:01:46	-----	302-	20-	57-	39440
S2 (43)	21/12/06	10:57:34	11:08:01	00:10:26	00:23:44	308-	20-	65-	39528
T4 (44)	21/12/06	11:08:38	11:15:51	00:07:12	00:00:36	164-	10-	93-	39407
K6 (26)	21/12/06	11:18:43	11:23:28	00:04:44	00:02:52	149-	7-	102-	39451
S3 (42)	21/12/06	11:33:19	11:44:09	00:10:50	00:09:50	311-	23-	75-	39523
T1 (28)	21/12/06	11:43:22	11:53:43	00:09:33	-----	190-	21-	74-	39320
S4 (29)	21/12/06	12:06:13	12:17:32	00:11:19	00:12:30	312-	28-	86-	39440
S1 (46)	21/12/06	12:07:57	12:19:20	00:01:47	-----	312-	29-	87-	39441
T2 (40)	21/12/06	12:15:22	12:27:01	00:07:41	-----	206-	38-	64-	39405
S2 (43)	21/12/06	12:41:37	12:53:31	00:11:54	00:14:36	311-	40-	100-	39529
T4 (44)	21/12/06	12:49:08	13:01:24	00:07:53	-----	223-	65-	58-	39408
K6 (26)	21/12/06	12:57:24	13:09:16	00:07:51	-----	217-	52-	61-	39452
S3 (42)	21/12/06	13:17:05	13:29:22	00:12:17	00:07:48	309-	61-	115-	39524
T1 (28)	21/12/06	13:25:45	13:38:05	00:08:42	-----	240-	72-	53-	39321
S4 (29)	21/12/06	13:49:53	14:02:16	00:12:23	00:11:48	305-	87-	128-	39441
S1 (46)	21/12/06	13:51:37	14:03:59	00:01:42	-----	304-	82-	130-	39442
T2 (40)	21/12/06	13:58:51	14:10:55	00:06:55	-----	255-	46-	50-	39406
S2 (43)	21/12/06	14:25:24	14:37:25	00:12:00	00:14:29	298-	48-	145-	39530
T4 (44)	21/12/06	14:33:28	14:45:06	00:07:41	-----	268-	33-	48-	39409
K6 (26)	21/12/06	14:40:42	14:52:18	00:07:11	-----	263-	37-	48-	39453
S3 (42)	21/12/06	15:01:14	15:12:12	00:10:58	00:08:56	289-	26-	163-	39525
T1 (28)	21/12/06	15:10:48	15:21:47	00:09:35	-----	282-	25-	49-	39322
S4 (29)	21/12/06	15:34:43	15:43:51	00:09:08	00:12:55	278-	15-	182-	39442

Satellite	Date	AOS Time	LOS Time	Duration	Interval Between	AOS Az	Max EI	LOS Az	Orbit num.
S1 (46)	21/12/06	15:36:34	15:45:22	00:01:30	-----	276-	14-	185-	39443
T2 (40)	21/12/06	15:44:16	15:54:49	00:09:27	-----	293-	21-	51-	39407
S2 (43)	21/12/06	16:12:17	16:16:18	00:04:01	00:17:27	250-	6-	219-	39531
T4 (44)	21/12/06	16:19:00	16:29:21	00:10:20	00:02:41	301-	20-	56-	39410
K6 (26)	21/12/06	16:25:33	16:35:38	00:06:16	-----	298-	19-	53-	39454
T1 (28)	21/12/06	16:56:08	17:06:33	00:10:25	00:20:29	308-	20-	65-	39323
K9 (39)	21/12/06	17:11:08	17:19:35	00:08:27	00:04:34	173-	13-	86-	38436
T2 (40)	21/12/06	17:29:13	17:40:01	00:10:47	00:09:38	311-	23-	75-	39408
K7 (37)	21/12/06	17:43:57	17:54:34	00:10:36	00:03:56	190-	23-	72-	38436
T4 (44)	21/12/06	18:03:31	18:14:49	00:11:18	00:08:57	312-	28-	86-	39411
K6 (26)	21/12/06	18:09:33	18:20:16	00:05:26	-----	313-	24-	79-	39455
K3 (33)	21/12/06	18:17:58	18:29:46	00:09:30	-----	209-	41-	63-	38437
T1 (28)	21/12/06	18:40:10	18:52:04	00:11:53	00:10:24	311-	40-	100-	39324
K9 (39)	21/12/06	18:52:19	19:04:40	00:12:20	00:00:14	229-	78-	56-	38437
T2 (40)	21/12/06	19:13:00	19:25:16	00:12:16	00:08:19	309-	59-	114-	39409
K7 (37)	21/12/06	19:26:30	19:38:50	00:12:20	00:01:14	242-	67-	52-	38437
K4 (24)	21/12/06	19:30:12	19:41:51	00:03:00	-----	207-	39-	64-	38587
T4 (44)	21/12/06	19:47:11	19:59:33	00:12:22	00:05:20	305-	88-	128-	39412
K6 (26)	21/12/06	19:52:33	20:04:33	00:04:59	-----	307-	73-	121-	39456
K3 (33)	21/12/06	20:01:36	20:13:37	00:09:03	-----	257-	44-	50-	38438
T1 (28)	21/12/06	20:23:57	20:35:57	00:12:00	00:10:20	298-	48-	145-	39325
K9 (39)	21/12/06	20:36:54	20:48:20	00:11:26	00:00:56	272-	30-	48-	38438
T2 (40)	21/12/06	20:57:07	21:08:09	00:11:02	00:08:46	290-	27-	162-	39410
K7 (37)	21/12/06	21:11:38	21:22:34	00:10:56	00:03:28	284-	24-	49-	38438
K4 (24)	21/12/06	21:13:50	21:25:49	00:03:14	-----	255-	45-	50-	38588
T4 (44)	21/12/06	21:32:00	21:41:09	00:09:09	00:06:11	278-	15-	182-	39413
K6 (26)	21/12/06	21:36:16	21:46:06	00:04:56	-----	284-	20-	172-	39457
R3 (45)	21/12/06	21:42:20	21:52:27	00:06:20	-----	188-	21-	74-	39599
K3 (33)	21/12/06	21:47:04	21:57:34	00:05:07	-----	294-	21-	52-	38439
T1 (28)	21/12/06	22:10:53	22:14:48	00:03:55	00:13:18	250-	6-	219-	39326
K9 (39)	21/12/06	22:22:25	22:32:44	00:10:19	00:07:36	304-	20-	58-	38439
T3 (25)	21/12/06	22:38:15	22:50:20	00:12:04	00:05:31	206-	38-	64-	38394
R2 (38)	21/12/06	22:52:12	22:58:52	00:06:39	00:01:52	161-	9-	97-	40636
K7 (37)	21/12/06	22:56:56	23:07:23	00:08:31	-----	309-	21-	66-	38439
K4 (24)	21/12/06	22:59:23	23:09:49	00:02:25	-----	293-	21-	51-	38589
R3 (45)	21/12/06	23:24:22	23:36:34	00:12:12	00:14:32	240-	74-	53-	39600
K3 (33)	21/12/06	23:31:57	23:42:49	00:06:14	-----	312-	24-	76-	38440
R1 (47)	21/12/06	23:42:52	23:53:55	00:11:02	00:00:03	196-	27-	69-	39565
K9 (39)	21/12/07	00:06:46	00:18:15	00:11:28	00:12:51	312-	31-	90-	38440
T3 (25)	21/12/07	00:22:33	00:35:06	00:12:33	00:04:17	254-	48-	50-	38395
R2 (38)	21/12/07	00:32:25	00:44:39	00:09:32	-----	221-	61-	59-	40637
K7 (37)	21/12/07	00:40:55	00:52:53	00:08:13	-----	311-	42-	102-	38440
K4 (24)	21/12/07	00:44:25	00:55:08	00:02:15	-----	312-	23-	75-	38590
R3 (45)	21/12/07	01:09:06	01:19:59	00:10:52	00:13:58	282-	25-	48-	39601
K3 (33)	21/12/07	01:15:42	01:28:00	00:08:01	-----	308-	64-	116-	38441
R1 (47)	21/12/07	01:25:45	01:38:02	00:10:02	-----	247-	59-	51-	39566
K9 (39)	21/12/07	01:50:27	02:02:46	00:12:18	00:12:24	303-	74-	133-	38441
T3 (25)	21/12/07	02:08:50	02:19:55	00:11:05	00:06:03	292-	22-	52-	38396
R2 (38)	21/12/07	02:16:39	02:28:21	00:08:26	-----	266-	34-	48-	40638
K7 (37)	21/12/07	02:24:44	02:36:38	00:08:16	-----	297-	44-	147-	38441

Satellite	Date	AOS Time	LOS Time	Duration	Interval Between	AOS Az	Max El	LOS Az	Orbit num.
K4 (24)	21/12/07	02:28:15	02:40:28	00:03:50	-----	309-	61-	115-	38591
R3 (45)	21/12/07	02:54:10	03:04:25	00:10:15	00:13:42	308-	20-	64-	39602
K3 (33)	21/12/07	02:59:54	03:10:42	00:06:17	-----	288-	25-	165-	38442
R1 (47)	21/12/07	03:11:00	03:21:48	00:10:48	00:00:17	287-	23-	50-	39567
K9 (39)	21/12/07	03:35:39	03:43:47	00:08:07	00:13:50	272-	12-	191-	38442
T3 (25)	21/12/07	03:54:40	04:06:00	00:11:19	00:10:53	310-	24-	76-	38397
R2 (38)	21/12/07	04:02:12	04:12:33	00:06:33	-----	300-	20-	55-	40639
K4 (24)	21/12/07	04:12:29	04:23:23	00:10:49	-----	289-	26-	163-	38592
R3 (45)	21/12/07	04:37:56	04:49:39	00:11:42	00:14:33	312-	38-	99-	39603
S2 (43)	21/12/07	04:49:19	04:56:52	00:07:13	-----	167-	11-	91-	39539
R1 (47)	21/12/07	04:56:12	05:06:46	00:09:53	-----	310-	21-	69-	39568
S3 (42)	21/12/07	05:23:05	05:33:29	00:10:23	00:16:19	187-	22-	73-	39534
T3 (25)	21/12/07	05:39:20	05:52:05	00:12:45	00:05:51	308-	62-	115-	38398
R2 (38)	21/12/07	05:46:46	05:58:00	00:05:54	-----	312-	27-	84-	40640
S4 (29)	21/12/07	05:55:07	06:06:43	00:08:43	-----	205-	36-	65-	39451
S1 (46)	21/12/07	05:56:44	06:08:27	00:01:44	-----	208-	39-	64-	39452
R3 (45)	21/12/07	06:21:25	06:33:19	00:11:54	00:12:57	298-	50-	144-	39604
S2 (43)	21/12/07	06:30:01	06:42:18	00:08:59	-----	225-	68-	58-	39540
R1 (47)	21/12/07	06:40:07	06:52:11	00:09:52	-----	310-	47-	106-	39569
S3 (42)	21/12/07	07:05:28	07:17:50	00:12:21	00:13:17	241-	71-	53-	39535
T3 (25)	21/12/07	07:24:20	07:35:46	00:11:26	00:06:30	290-	27-	162-	38399
R2 (38)	21/12/07	07:30:27	07:42:48	00:07:02	-----	305-	88-	126-	40641
S4 (29)	21/12/07	07:38:31	07:50:38	00:07:49	-----	254-	48-	50-	39452
S1 (46)	21/12/07	07:40:16	07:52:20	00:01:41	-----	255-	45-	50-	39453
R3 (45)	21/12/07	08:07:48	08:12:12	00:04:23	00:15:28	252-	7-	216-	39605
S2 (43)	21/12/07	08:14:24	08:26:00	00:11:35	00:02:12	269-	32-	48-	39541
R1 (47)	21/12/07	08:24:00	08:35:40	00:09:40	-----	295-	37-	152-	39570
S3 (42)	21/12/07	08:50:32	09:01:32	00:11:00	00:14:51	282-	25-	49-	39536
R2 (38)	21/12/07	09:15:08	09:24:36	00:09:27	00:13:35	280-	17-	179-	40642
S4 (29)	21/12/07	09:23:56	09:34:32	00:09:55	-----	292-	21-	51-	39453
S1 (46)	21/12/07	09:25:42	09:36:15	00:01:43	-----	293-	21-	52-	39454
S2 (43)	21/12/07	09:59:56	10:10:17	00:10:20	00:23:40	302-	20-	57-	39542
S3 (42)	21/12/07	10:35:52	10:46:19	00:10:27	00:25:34	308-	20-	65-	39537
T1 (28)	21/12/07	10:47:53	10:55:27	00:07:33	00:01:34	167-	11-	91-	39334
S4 (29)	21/12/07	11:08:55	11:19:42	00:10:46	00:13:28	311-	23-	74-	39454
S1 (46)	21/12/07	11:10:38	11:21:29	00:01:46	-----	311-	23-	75-	39455
T2 (40)	21/12/07	11:19:04	11:29:20	00:07:51	-----	189-	21-	74-	39419
S2 (43)	21/12/07	11:44:25	11:55:46	00:11:21	00:15:04	312-	29-	87-	39543
K6 (26)	21/12/07	11:51:34	12:02:06	00:06:20	-----	192-	24-	71-	39466
T4 (44)	21/12/07	11:52:23	12:04:00	00:01:53	-----	205-	36-	65-	39422
S3 (42)	21/12/07	12:19:54	12:31:49	00:11:55	00:15:54	311-	40-	101-	39538
T1 (28)	21/12/07	12:28:36	12:40:52	00:09:02	-----	225-	68-	58-	39335
S4 (29)	21/12/07	12:52:42	13:04:58	00:12:15	00:11:50	309-	58-	113-	39455
S1 (46)	21/12/07	12:54:24	13:06:41	00:01:43	-----	309-	61-	115-	39456
T2 (40)	21/12/07	13:01:23	13:13:44	00:07:02	-----	240-	74-	53-	39420
S2 (43)	21/12/07	13:28:05	13:40:27	00:12:22	00:14:20	304-	84-	129-	39544
K6 (26)	21/12/07	13:33:32	13:45:37	00:05:09	-----	244-	64-	52-	39467
T4 (44)	21/12/07	13:35:47	13:47:55	00:02:17	-----	254-	48-	50-	39423
S3 (42)	21/12/07	14:03:41	14:15:41	00:12:00	00:15:46	298-	47-	145-	39539
T1 (28)	21/12/07	14:13:00	14:24:33	00:08:52	-----	269-	32-	48-	39336

Satellite	Date	AOS Time	LOS Time	Duration	Interval Between	AOS Az	Max El	LOS Az	Orbit num.
S4 (29)	21/12/07	14:36:48	14:47:56	00:11:07	00:12:14	290-	28-	161-	39456
S1 (46)	21/12/07	14:38:33	14:49:31	00:01:35	-----	289-	26-	163-	39457
T2 (40)	21/12/07	14:46:25	14:57:26	00:07:54	-----	281-	25-	49-	39421
S2 (43)	21/12/07	15:12:59	15:21:53	00:08:54	00:15:32	277-	15-	183-	39545
K6 (26)	21/12/07	15:18:00	15:28:37	00:06:43	-----	285-	23-	48-	39468
T4 (44)	21/12/07	15:21:12	15:31:48	00:03:10	-----	292-	21-	51-	39424
S3 (42)	21/12/07	15:50:41	15:54:26	00:03:44	00:18:53	248-	6-	221-	39540
T1 (28)	21/12/07	15:58:32	16:08:51	00:10:19	00:04:05	302-	20-	57-	39337
T2 (40)	21/12/07	16:31:46	16:42:11	00:10:24	00:22:55	308-	20-	64-	39422
K7 (37)	21/12/07	16:48:18	16:56:26	00:08:07	00:06:07	171-	12-	88-	38450
K6 (26)	21/12/07	17:02:35	17:12:44	00:10:09	00:06:09	310-	20-	65-	39469
T4 (44)	21/12/07	17:06:12	17:16:58	00:04:14	-----	311-	23-	74-	39425
K3 (33)	21/12/07	17:21:38	17:32:11	00:10:32	00:04:39	189-	23-	72-	38451
T1 (28)	21/12/07	17:43:00	17:54:20	00:11:20	00:10:49	313-	29-	87-	39338
K9 (39)	21/12/07	17:55:27	18:07:20	00:11:53	00:01:06	211-	44-	62-	38451
T2 (40)	21/12/07	18:15:49	18:27:42	00:11:52	00:08:28	312-	39-	100-	39423
K7 (37)	21/12/07	18:29:18	18:41:38	00:12:19	00:01:36	227-	74-	57-	38451
K4 (24)	21/12/07	18:35:14	18:45:38	00:04:00	-----	188-	22-	73-	38601
K6 (26)	21/12/07	18:45:51	18:57:29	00:11:38	00:00:12	312-	41-	102-	39470
T4 (44)	21/12/07	18:50:00	19:02:14	00:04:44	-----	309-	57-	113-	39426
K3 (33)	21/12/07	19:04:08	19:16:28	00:12:20	00:01:53	242-	69-	53-	38452
T1 (28)	21/12/07	19:26:40	19:39:01	00:12:21	00:10:11	304-	84-	129-	39339
K9 (39)	21/12/07	19:39:11	19:51:09	00:11:58	00:00:09	258-	42-	49-	38452
T2 (40)	21/12/07	19:59:35	20:11:37	00:12:01	00:08:25	298-	49-	144-	39424
K7 (37)	21/12/07	20:13:49	20:25:18	00:11:29	00:02:11	271-	31-	48-	38452
K4 (24)	21/12/07	20:17:46	20:30:03	00:04:44	-----	241-	70-	53-	38602
K6 (26)	21/12/07	20:28:58	20:40:30	00:10:26	-----	297-	43-	148-	39471
T4 (44)	21/12/07	20:34:04	20:45:13	00:04:43	-----	290-	28-	161-	39427
R3 (45)	21/12/07	20:43:24	20:50:05	00:04:52	-----	162-	9-	96-	39613
K3 (33)	21/12/07	20:49:14	21:00:11	00:10:06	-----	283-	24-	49-	38453
T1 (28)	21/12/07	21:11:34	21:20:28	00:08:54	00:11:22	277-	15-	184-	39340
K9 (39)	21/12/07	21:24:41	21:35:09	00:10:28	00:04:12	295-	21-	52-	38453
T2 (40)	21/12/07	21:46:22	21:50:38	00:04:16	00:11:12	252-	7-	216-	39425
T3 (25)	21/12/07	21:53:08	22:04:22	00:11:13	00:02:30	193-	26-	70-	38408
K7 (37)	21/12/07	21:59:20	22:09:40	00:05:17	-----	303-	20-	58-	38453
K4 (24)	21/12/07	22:02:57	22:13:50	00:04:10	-----	283-	24-	49-	38603
R3 (45)	21/12/07	22:23:26	22:35:31	00:12:05	00:09:35	222-	62-	59-	39614
K3 (33)	21/12/07	22:34:33	22:45:00	00:09:29	-----	308-	21-	66-	38454
R1 (47)	21/12/07	22:46:57	22:55:57	00:09:00	00:01:56	177-	15-	82-	39579
K9 (39)	21/12/07	23:09:31	23:20:26	00:10:55	00:13:33	312-	24-	77-	38454
R2 (38)	21/12/07	23:35:44	23:47:13	00:11:28	00:15:17	203-	34-	66-	40651
T3 (25)	21/12/07	23:36:40	23:49:26	00:02:13	-----	244-	65-	52-	38409
K7 (37)	21/12/07	23:43:45	23:55:10	00:05:44	-----	312-	30-	89-	38454
K4 (24)	21/12/07	23:48:23	23:58:43	00:03:32	-----	308-	20-	65-	38604
R3 (45)	21/12/08	00:07:25	00:18:56	00:11:30	00:08:42	267-	34-	48-	39615
K3 (33)	21/12/08	00:18:34	00:30:30	00:11:34	-----	311-	41-	102-	38455
R1 (47)	21/12/08	00:28:27	00:40:50	00:10:20	-----	231-	85-	56-	39580
K9 (39)	21/12/08	00:53:15	01:05:34	00:12:19	00:12:24	308-	67-	118-	38455
R2 (38)	21/12/08	01:19:00	01:31:10	00:12:09	00:13:26	252-	50-	50-	40652
T3 (25)	21/12/08	01:22:42	01:34:05	00:02:54	-----	284-	25-	50-	38410

Satellite	Date	AOS Time	LOS Time	Duration	Interval Between	AOS Az	Max EI	LOS Az	Orbit num.
K7 (37)	21/12/08	01:27:25	01:39:45	00:05:40	-----	304-	78-	131-	38455
K4 (24)	21/12/08	01:32:30	01:44:20	00:04:34	-----	311-	40-	101-	38605
R3 (45)	21/12/08	01:52:40	02:02:51	00:10:10	00:08:20	301-	20-	55-	39616
K3 (33)	21/12/08	02:02:22	02:14:17	00:11:25	-----	297-	45-	147-	38456
R1 (47)	21/12/08	02:13:09	02:24:30	00:10:13	-----	274-	29-	48-	39581
K9 (39)	21/12/08	02:37:31	02:48:08	00:10:36	00:13:00	287-	23-	167-	38456
R2 (38)	21/12/08	03:04:23	03:15:02	00:10:38	00:16:15	291-	22-	51-	40653
T3 (25)	21/12/08	03:08:50	03:19:53	00:04:51	-----	308-	22-	69-	38411
K7 (37)	21/12/08	03:12:30	03:20:57	00:01:04	-----	274-	13-	188-	38456
K4 (24)	21/12/08	03:16:22	03:28:16	00:07:18	-----	298-	46-	146-	38606
R3 (45)	21/12/08	03:36:56	03:48:01	00:11:05	00:08:39	313-	27-	84-	39617
R1 (47)	21/12/08	03:58:39	04:09:00	00:10:20	00:10:37	305-	20-	60-	39582
S3 (42)	21/12/08	04:27:32	04:35:12	00:07:40	00:18:33	167-	11-	91-	39548
R2 (38)	21/12/08	04:49:26	05:00:08	00:10:42	00:14:13	311-	22-	72-	40654
T3 (25)	21/12/08	04:53:40	05:06:11	00:06:03	-----	310-	46-	105-	38412
S4 (29)	21/12/08	04:58:52	05:09:01	00:02:49	-----	188-	20-	75-	39465
S1 (46)	21/12/08	05:00:24	05:10:47	00:01:45	-----	187-	22-	73-	39466
R3 (45)	21/12/08	05:20:18	05:32:32	00:12:14	00:09:31	305-	88-	126-	39618
S2 (43)	21/12/08	05:33:14	05:44:55	00:11:40	00:00:41	207-	38-	64-	39554
R1 (47)	21/12/08	05:42:56	05:54:31	00:09:36	-----	312-	33-	92-	39583
S3 (42)	21/12/08	06:08:18	06:20:36	00:12:18	00:13:46	225-	69-	58-	39549
R2 (38)	21/12/08	06:33:15	06:45:27	00:12:12	00:12:39	309-	54-	111-	40655
T3 (25)	21/12/08	06:38:24	06:50:37	00:05:09	-----	296-	40-	150-	38413
S4 (29)	21/12/08	06:41:06	06:53:28	00:02:51	-----	239-	76-	53-	39466
S1 (46)	21/12/08	06:42:47	06:55:08	00:01:40	-----	241-	72-	53-	39467
R3 (45)	21/12/08	07:04:44	07:14:00	00:09:15	00:09:36	279-	16-	180-	39619
S2 (43)	21/12/08	07:16:43	07:28:48	00:12:04	00:02:43	255-	46-	50-	39555
R1 (47)	21/12/08	07:26:37	07:38:53	00:10:05	-----	302-	67-	136-	39584
S3 (42)	21/12/08	07:52:42	08:04:17	00:11:34	00:13:49	269-	32-	48-	39550
R2 (38)	21/12/08	08:17:17	08:28:34	00:11:17	00:13:00	292-	30-	159-	40656
S4 (29)	21/12/08	08:26:06	08:37:10	00:08:35	-----	281-	26-	49-	39467
S1 (46)	21/12/08	08:27:50	08:38:51	00:01:40	-----	282-	25-	49-	39468
S2 (43)	21/12/08	09:02:09	09:12:43	00:10:34	00:23:17	293-	21-	51-	39556
R1 (47)	21/12/08	09:12:05	09:19:32	00:06:49	-----	269-	11-	196-	39585
S3 (42)	21/12/08	09:38:14	09:48:35	00:10:20	00:18:42	302-	20-	57-	39551
S4 (29)	21/12/08	10:11:28	10:21:53	00:10:25	00:22:52	307-	20-	64-	39468
S1 (46)	21/12/08	10:13:10	10:23:37	00:01:44	-----	308-	20-	65-	39469
T2 (40)	21/12/08	10:23:37	10:31:00	00:07:22	-----	166-	11-	92-	39433
K6 (26)	21/12/08	10:46:54	10:54:04	00:07:09	00:15:54	165-	10-	93-	39480
S2 (43)	21/12/08	10:47:06	10:57:55	00:03:51	-----	311-	23-	75-	39557
T4 (44)	21/12/08	10:56:08	11:06:17	00:08:21	-----	187-	20-	75-	39436
S3 (42)	21/12/08	11:22:42	11:34:05	00:11:22	00:16:24	312-	29-	87-	39552
T1 (28)	21/12/08	11:31:50	11:43:30	00:09:25	-----	207-	38-	64-	39349
S4 (29)	21/12/08	11:55:33	12:07:24	00:11:51	00:12:02	312-	38-	99-	39469
S1 (46)	21/12/08	11:57:13	12:09:08	00:01:43	-----	311-	40-	100-	39470
T2 (40)	21/12/08	12:04:14	12:16:29	00:07:21	-----	224-	67-	58-	39434
K6 (26)	21/12/08	12:26:49	12:38:52	00:12:03	00:10:19	224-	67-	58-	39481
S2 (43)	21/12/08	12:30:52	12:43:09	00:04:17	-----	309-	60-	114-	39558
T4 (44)	21/12/08	12:38:21	12:50:44	00:07:34	-----	239-	76-	53-	39437
S3 (42)	21/12/08	13:06:22	13:18:44	00:12:22	00:15:38	304-	83-	129-	39553

Satellite	Date	AOS Time	LOS Time	Duration	Interval Between	AOS Az	Max EI	LOS Az	Orbit num.
T1 (28)	21/12/08	13:15:20	13:27:23	00:08:39	-----	255-	46-	50-	39350
S4 (29)	21/12/08	13:39:18	13:51:23	00:12:04	00:11:54	299-	51-	143-	39470
S1 (46)	21/12/08	13:41:00	13:53:00	00:01:36	-----	298-	47-	145-	39471
T2 (40)	21/12/08	13:48:36	14:00:11	00:07:11	-----	268-	33-	48-	39435
K6 (26)	21/12/08	14:10:28	14:21:50	00:11:21	00:10:17	269-	32-	48-	39482
S2 (43)	21/12/08	14:15:00	14:26:03	00:04:13	-----	290-	27-	162-	39559
T4 (44)	21/12/08	14:23:20	14:34:25	00:08:22	-----	281-	26-	49-	39438
S3 (42)	21/12/08	14:51:18	15:00:09	00:08:50	00:16:52	276-	14-	185-	39554
T1 (28)	21/12/08	15:00:46	15:11:18	00:10:32	00:00:37	293-	21-	51-	39351
S4 (29)	21/12/08	15:25:51	15:30:41	00:04:49	00:14:32	255-	7-	213-	39471
S1 (46)	21/12/08	15:27:59	15:31:46	00:01:05	-----	248-	6-	221-	39472
T2 (40)	21/12/08	15:34:08	15:44:27	00:10:19	00:02:21	302-	20-	56-	39436
K6 (26)	21/12/08	15:55:19	16:05:21	00:10:01	00:10:51	302-	19-	55-	39483
T4 (44)	21/12/08	16:08:43	16:19:08	00:10:24	00:03:22	307-	20-	64-	39439
K3 (33)	21/12/08	16:26:01	16:34:01	00:08:00	00:06:53	170-	12-	89-	38465
T1 (28)	21/12/08	16:45:43	16:56:31	00:10:48	00:11:41	311-	23-	75-	39352
K9 (39)	21/12/08	16:59:02	17:09:47	00:10:44	00:02:31	192-	24-	71-	38465
T2 (40)	21/12/08	17:18:37	17:29:56	00:11:19	00:08:50	313-	29-	86-	39437
K7 (37)	21/12/08	17:32:29	17:44:18	00:11:48	00:02:32	209-	41-	63-	38465
K6 (26)	21/12/08	17:39:07	17:50:05	00:05:47	-----	313-	27-	85-	39484
K4 (24)	21/12/08	17:40:58	17:48:52	00:01:01	-----	169-	12-	90-	38615
T4 (44)	21/12/08	17:52:48	18:04:39	00:11:50	00:03:56	312-	38-	99-	39440
K3 (33)	21/12/08	18:06:57	18:19:17	00:12:19	00:02:18	226-	73-	57-	38466
T1 (28)	21/12/08	18:29:29	18:41:45	00:12:16	00:10:12	309-	60-	114-	39353
K9 (39)	21/12/08	18:41:41	18:54:00	00:12:15	-----	244-	65-	52-	38466
T2 (40)	21/12/08	19:02:17	19:14:39	00:12:22	00:08:16	304-	85-	129-	39438
K7 (37)	21/12/08	19:16:07	19:28:08	00:12:01	00:01:28	257-	44-	49-	38466
K4 (24)	21/12/08	19:21:58	19:34:14	00:06:06	-----	226-	72-	57-	38616
K6 (26)	21/12/08	19:22:05	19:34:07	00:00:07	-----	305-	89-	127-	39485
T4 (44)	21/12/08	19:36:33	19:48:37	00:12:04	00:02:26	299-	51-	143-	39441
K3 (33)	21/12/08	19:51:26	20:02:57	00:11:30	00:02:48	270-	31-	48-	38467
T1 (28)	21/12/08	20:13:37	20:24:37	00:11:00	00:10:39	289-	27-	162-	39354
K9 (39)	21/12/08	20:26:51	20:37:44	00:10:53	00:02:13	285-	24-	49-	38467
T2 (40)	21/12/08	20:47:08	20:56:10	00:09:01	00:09:23	277-	15-	183-	39439
K7 (37)	21/12/08	21:01:35	21:12:06	00:10:30	00:05:25	294-	21-	52-	38467
K6 (26)	21/12/08	21:06:10	21:15:03	00:02:57	-----	278-	15-	182-	39486
K4 (24)	21/12/08	21:06:33	21:18:00	00:02:56	-----	270-	31-	48-	38617
T3 (25)	21/12/08	21:08:18	21:18:12	00:00:12	-----	182-	17-	78-	38422
R3 (45)	21/12/08	21:23:00	21:34:15	00:11:15	00:04:48	202-	32-	67-	39628
T4 (44)	21/12/08	21:23:05	21:27:57	00:06:01	-----	255-	7-	213-	39442
K3 (33)	21/12/08	21:36:58	21:47:17	00:10:19	00:09:01	303-	20-	57-	38468
R1 (47)	21/12/08	21:52:46	21:56:41	00:03:54	00:05:28	140-	6-	107-	39593
K9 (39)	21/12/08	22:12:07	22:22:36	00:10:29	00:15:25	309-	21-	67-	38468
R2 (38)	21/12/08	22:39:33	22:49:27	00:09:54	00:16:56	185-	19-	77-	40665
K7 (37)	21/12/08	22:46:29	22:57:21	00:07:54	-----	312-	24-	76-	38468
T3 (25)	21/12/08	22:50:55	23:03:45	00:06:24	-----	234-	89-	55-	38423
K4 (24)	21/12/08	22:52:11	23:02:24	00:01:02	-----	303-	20-	57-	38618
R3 (45)	21/12/08	23:05:56	23:17:57	00:12:01	00:03:31	251-	51-	50-	39629
K3 (33)	21/12/08	23:21:23	23:32:48	00:11:24	00:03:26	312-	30-	88-	38469
R1 (47)	21/12/08	23:31:30	23:43:32	00:10:44	-----	215-	49-	61-	39594

Satellite	Date	AOS Time	LOS Time	Duration	Interval Between	AOS Az	Max EI	LOS Az	Orbit num.
K9 (39)	21/12/08	23:56:05	00:08:05	00:11:59	00:12:33	311-	43-	103-	38469
R2 (38)	21/12/09	00:21:36	00:34:00	00:12:23	00:13:31	237-	81-	54-	40666
K7 (37)	21/12/09	00:30:13	00:42:31	00:08:32	-----	308-	64-	116-	38469
T3 (25)	21/12/09	00:36:35	00:48:19	00:05:47	-----	276-	29-	49-	38424
K4 (24)	21/12/09	00:36:42	00:48:01	00:00:01	-----	313-	29-	88-	38619
R3 (45)	21/12/09	00:51:00	01:01:30	00:10:30	00:02:59	290-	22-	50-	39630
K3 (33)	21/12/09	01:05:04	01:17:24	00:12:20	00:03:33	304-	80-	131-	38470
R1 (47)	21/12/09	01:15:24	01:27:18	00:09:54	-----	261-	39-	49-	39595
K9 (39)	21/12/09	01:39:55	01:51:45	00:11:49	00:12:36	296-	42-	149-	38470
R2 (38)	21/12/09	02:06:31	02:17:40	00:11:08	00:14:46	279-	26-	48-	40667
K7 (37)	21/12/09	02:14:26	02:25:13	00:07:32	-----	288-	25-	165-	38470
K4 (24)	21/12/09	02:20:28	02:32:44	00:07:31	-----	304-	80-	131-	38620
T3 (25)	21/12/09	02:22:54	02:33:48	00:01:03	-----	305-	21-	62-	38425
R3 (45)	21/12/09	02:35:47	02:46:18	00:10:30	00:01:59	311-	22-	71-	39631
K3 (33)	21/12/09	02:50:06	02:58:40	00:08:34	00:03:48	275-	14-	187-	38471
R1 (47)	21/12/09	03:00:55	03:11:21	00:10:26	00:02:15	297-	20-	53-	39596
R2 (38)	21/12/09	03:51:56	04:02:19	00:10:22	00:40:34	307-	20-	62-	40668
S4 (29)	21/12/09	04:03:30	04:10:38	00:07:07	00:01:11	164-	10-	94-	39479
S1 (46)	21/12/09	04:04:51	04:12:30	00:01:51	-----	167-	11-	91-	39480
K4 (24)	21/12/09	04:05:34	04:14:07	00:01:36	-----	275-	14-	187-	38621
T3 (25)	21/12/09	04:08:00	04:20:12	00:06:04	-----	311-	36-	96-	38426
R3 (45)	21/12/09	04:19:19	04:31:21	00:11:09	-----	310-	52-	110-	39632
S2 (43)	21/12/09	04:36:56	04:47:14	00:10:18	00:05:34	189-	21-	74-	39568
R1 (47)	21/12/09	04:45:41	04:56:42	00:09:28	-----	312-	25-	79-	39597
S3 (42)	21/12/09	05:11:30	05:23:12	00:11:42	00:14:48	207-	39-	64-	39563
R2 (38)	21/12/09	05:36:04	05:47:51	00:11:46	00:12:51	312-	36-	97-	40669
S4 (29)	21/12/09	05:43:59	05:56:14	00:08:23	-----	223-	65-	58-	39480
S1 (46)	21/12/09	05:45:36	05:57:54	00:01:39	-----	225-	69-	58-	39481
T3 (25)	21/12/09	05:52:35	06:05:14	00:07:20	-----	301-	59-	139-	38427
R3 (45)	21/12/09	06:03:01	06:14:16	00:09:02	-----	292-	32-	157-	39633
S2 (43)	21/12/09	06:19:15	06:31:37	00:12:21	00:04:59	240-	73-	53-	39569
R1 (47)	21/12/09	06:29:23	06:41:44	00:10:06	-----	307-	73-	120-	39598
S3 (42)	21/12/09	06:55:01	07:07:05	00:12:04	00:13:17	255-	46-	50-	39564
R2 (38)	21/12/09	07:19:48	07:31:56	00:12:07	00:12:42	300-	55-	141-	40670
S4 (29)	21/12/09	07:28:18	07:39:56	00:08:00	-----	268-	33-	48-	39481
S1 (46)	21/12/09	07:30:00	07:41:35	00:01:38	-----	269-	32-	48-	39482
T3 (25)	21/12/09	07:39:18	07:46:11	00:04:36	-----	265-	9-	201-	38428
S2 (43)	21/12/09	08:04:17	08:15:19	00:11:02	00:18:06	282-	25-	49-	39570
R1 (47)	21/12/09	08:13:46	08:24:04	00:08:44	-----	285-	21-	171-	39599
S3 (42)	21/12/09	08:40:27	08:51:01	00:10:33	00:16:23	293-	21-	51-	39565
R2 (38)	21/12/09	09:06:00	09:11:39	00:05:39	00:14:58	259-	8-	208-	40671
S4 (29)	21/12/09	09:13:50	09:24:11	00:10:21	00:02:11	301-	20-	56-	39482
S1 (46)	21/12/09	09:15:32	09:25:53	00:01:41	-----	302-	20-	57-	39483
S2 (43)	21/12/09	09:49:38	10:00:05	00:10:26	00:23:45	308-	20-	64-	39571
T4 (44)	21/12/09	10:00:45	10:07:52	00:07:06	00:00:40	164-	10-	94-	39450
S3 (42)	21/12/09	10:25:24	10:36:14	00:10:50	00:17:31	311-	23-	75-	39566
T1 (28)	21/12/09	10:35:33	10:45:51	00:09:37	-----	189-	21-	74-	39363
S4 (29)	21/12/09	10:58:21	11:09:40	00:11:18	00:12:29	312-	28-	86-	39483
S1 (46)	21/12/09	11:00:00	11:11:22	00:01:42	-----	312-	29-	87-	39484
T2 (40)	21/12/09	11:07:28	11:19:06	00:07:43	-----	206-	37-	64-	39448

Satellite	Date	AOS Time	LOS Time	Duration	Interval Between	AOS Az	Max El	LOS Az	Orbit num.
K6 (26)	21/12/09	11:20:43	11:31:51	00:11:07	00:01:37	200-	31-	67-	39495
S2 (43)	21/12/09	11:33:42	11:45:35	00:11:53	00:01:51	311-	39-	100-	39572
T4 (44)	21/12/09	11:41:13	11:53:28	00:07:53	-----	223-	64-	58-	39451
S3 (42)	21/12/09	12:09:10	12:21:27	00:12:17	00:15:41	309-	61-	114-	39567
T1 (28)	21/12/09	12:17:54	12:30:14	00:08:47	-----	240-	73-	53-	39364
S4 (29)	21/12/09	12:42:01	12:54:24	00:12:23	00:11:47	305-	88-	128-	39484
S1 (46)	21/12/09	12:43:40	12:56:02	00:01:37	-----	304-	83-	129-	39485
T2 (40)	21/12/09	12:50:55	13:03:00	00:06:57	-----	254-	47-	50-	39449
K6 (26)	21/12/09	13:03:10	13:15:08	00:11:58	00:00:10	250-	52-	50-	39496
S2 (43)	21/12/09	13:17:28	13:29:30	00:12:01	00:02:19	298-	49-	145-	39573
T4 (44)	21/12/09	13:25:31	13:37:10	00:07:40	-----	267-	33-	48-	39452
S3 (42)	21/12/09	13:53:18	14:04:18	00:11:00	00:16:08	289-	27-	163-	39568
T1 (28)	21/12/09	14:02:56	14:13:56	00:09:38	-----	282-	25-	49-	39365
S4 (29)	21/12/09	14:26:49	14:36:01	00:09:11	00:12:52	278-	16-	181-	39485
S1 (46)	21/12/09	14:28:35	14:37:27	00:01:26	-----	276-	14-	185-	39486
T2 (40)	21/12/09	14:36:21	14:46:54	00:09:26	-----	293-	21-	51-	39450
K6 (26)	21/12/09	14:47:49	14:58:14	00:10:25	00:00:55	290-	22-	49-	39497
S2 (43)	21/12/09	15:04:16	15:08:29	00:04:12	00:06:02	251-	6-	217-	39574
T4 (44)	21/12/09	15:11:03	15:21:25	00:10:21	00:02:34	301-	20-	56-	39453
T1 (28)	21/12/09	15:48:17	15:58:42	00:10:24	00:26:52	308-	20-	64-	39366
K9 (39)	21/12/09	16:03:18	16:11:42	00:08:23	00:04:36	173-	13-	87-	38479
T2 (40)	21/12/09	16:21:18	16:32:05	00:10:46	00:09:36	311-	23-	74-	39451
K6 (26)	21/12/09	16:32:13	16:42:33	00:10:19	00:00:08	311-	21-	70-	39498
K7 (37)	21/12/09	16:36:07	16:46:42	00:04:09	-----	190-	23-	72-	38479
T4 (44)	21/12/09	16:55:35	17:06:53	00:11:17	00:08:53	312-	28-	85-	39454
K3 (33)	21/12/09	17:10:09	17:21:56	00:11:46	00:03:16	209-	41-	63-	38480
T1 (28)	21/12/09	17:32:20	17:44:13	00:11:52	00:10:23	312-	39-	100-	39367
K9 (39)	21/12/09	17:44:28	17:56:48	00:12:20	00:00:14	228-	77-	57-	38480
T2 (40)	21/12/09	18:05:05	18:17:20	00:12:15	00:08:16	309-	59-	114-	39452
K6 (26)	21/12/09	18:15:22	18:27:12	00:09:51	-----	310-	49-	108-	39499
K7 (37)	21/12/09	18:18:38	18:31:00	00:03:47	-----	242-	68-	52-	38480
K4 (24)	21/12/09	18:26:31	18:38:18	00:07:18	-----	209-	41-	63-	38630
T4 (44)	21/12/09	18:39:15	18:51:38	00:12:22	00:00:57	305-	89-	127-	39455
K3 (33)	21/12/09	18:53:46	19:05:48	00:12:01	00:02:08	256-	44-	50-	38481
T1 (28)	21/12/09	19:16:06	19:28:07	00:12:00	00:10:18	298-	48-	145-	39368
K9 (39)	21/12/09	19:29:01	19:40:29	00:11:27	00:00:54	272-	30-	48-	38481
T2 (40)	21/12/09	19:49:11	20:00:15	00:11:03	00:08:42	290-	28-	161-	39453
K6 (26)	21/12/09	19:58:37	20:09:47	00:09:32	-----	293-	33-	155-	39500
K7 (37)	21/12/09	20:03:45	20:14:42	00:04:55	-----	283-	24-	49-	38481
K4 (24)	21/12/09	20:10:16	20:22:13	00:07:30	-----	257-	44-	49-	38631
R3 (45)	21/12/09	20:23:13	20:32:35	00:09:21	00:01:00	181-	16-	80-	39642
T3 (25)	21/12/09	20:23:58	20:31:38	00:00:05	-----	165-	11-	92-	38436
T4 (44)	21/12/09	20:24:03	20:33:16	00:01:38	-----	278-	16-	182-	39456
K3 (33)	21/12/09	20:39:14	20:49:44	00:10:30	00:05:57	294-	21-	52-	38482
T1 (28)	21/12/09	21:02:57	21:07:03	00:04:05	00:13:12	251-	6-	217-	39369
K9 (39)	21/12/09	21:14:32	21:24:52	00:10:19	00:07:29	303-	20-	58-	38482
R2 (38)	21/12/09	21:44:21	21:50:54	00:06:32	00:19:28	160-	9-	97-	40679
K7 (37)	21/12/09	21:49:04	21:59:32	00:08:37	-----	309-	21-	66-	38482
K4 (24)	21/12/09	21:55:51	22:06:15	00:06:43	-----	294-	21-	52-	38632
R3 (45)	21/12/09	22:04:44	22:16:58	00:10:42	-----	234-	87-	55-	39643

Satellite	Date	AOS Time	LOS Time	Duration	Interval Between	AOS Az	Max EI	LOS Az	Orbit num.
T3 (25)	21/12/09	22:05:20	22:18:02	00:01:03	-----	223-	65-	58-	38437
K3 (33)	21/12/09	22:24:08	22:35:00	00:10:51	00:06:06	312-	24-	76-	38483
R1 (47)	21/12/09	22:35:00	22:46:00	00:11:01	-----	195-	27-	69-	39608
K9 (39)	21/12/09	22:58:55	23:10:23	00:11:28	00:12:54	312-	31-	90-	38483
R2 (38)	21/12/09	23:24:30	23:36:43	00:12:13	00:14:07	221-	60-	59-	40680
K7 (37)	21/12/09	23:33:04	23:45:01	00:08:17	-----	311-	41-	102-	38483
K4 (24)	21/12/09	23:40:50	23:51:36	00:06:34	-----	312-	23-	76-	38633
R3 (45)	21/12/09	23:49:16	00:00:21	00:08:44	-----	277-	27-	48-	39644
T3 (25)	21/12/09	23:50:30	00:02:36	00:02:15	-----	267-	34-	49-	38438
K3 (33)	21/12/10	00:07:53	00:20:10	00:12:17	00:05:16	308-	63-	116-	38484
R1 (47)	21/12/10	00:17:51	00:30:08	00:09:57	-----	246-	60-	52-	39609
K9 (39)	21/12/10	00:42:35	00:54:54	00:12:19	00:12:26	303-	75-	133-	38484
R2 (38)	21/12/10	01:08:43	01:20:26	00:11:42	00:13:48	266-	35-	48-	40681
K7 (37)	21/12/10	01:16:52	01:28:47	00:08:21	-----	297-	45-	147-	38484
K4 (24)	21/12/10	01:24:40	01:36:53	00:08:05	-----	308-	64-	116-	38634
R3 (45)	21/12/10	01:34:26	01:44:37	00:07:44	-----	306-	20-	61-	39645
T3 (25)	21/12/10	01:36:54	01:47:46	00:03:09	-----	300-	21-	57-	38439
K3 (33)	21/12/10	01:52:04	02:02:54	00:10:49	00:04:18	288-	25-	165-	38485
R1 (47)	21/12/10	02:03:05	02:13:54	00:10:49	00:00:10	286-	23-	49-	39610
K9 (39)	21/12/10	02:27:46	02:35:58	00:08:11	00:13:51	273-	12-	190-	38485
R2 (38)	21/12/10	02:54:16	03:04:37	00:10:21	00:18:17	300-	20-	55-	40682
K4 (24)	21/12/10	03:08:57	03:19:40	00:10:42	00:04:20	288-	25-	165-	38635
R3 (45)	21/12/10	03:18:20	03:29:52	00:10:12	-----	312-	34-	94-	39646
T3 (25)	21/12/10	03:22:17	03:34:08	00:04:15	-----	312-	30-	87-	38440
S2 (43)	21/12/10	03:41:27	03:48:54	00:07:27	00:07:19	166-	11-	92-	39582
R1 (47)	21/12/10	03:48:17	03:58:51	00:09:56	-----	310-	21-	68-	39611
S3 (42)	21/12/10	04:15:12	04:25:33	00:10:21	00:16:20	187-	21-	74-	39577
R2 (38)	21/12/10	04:38:51	04:50:04	00:11:13	00:13:17	312-	27-	84-	40683
S4 (29)	21/12/10	04:47:16	04:58:50	00:08:46	-----	205-	36-	65-	39494
S1 (46)	21/12/10	04:48:48	05:00:30	00:01:39	-----	207-	39-	64-	39495
R3 (45)	21/12/10	05:01:45	05:13:50	00:12:04	00:01:15	301-	61-	138-	39647
T3 (25)	21/12/10	05:06:51	05:19:41	00:05:50	-----	304-	84-	129-	38441
S2 (43)	21/12/10	05:22:06	05:34:23	00:12:16	00:02:25	224-	67-	58-	39583
R1 (47)	21/12/10	05:32:13	05:44:17	00:09:54	-----	311-	46-	106-	39612
S3 (42)	21/12/10	05:57:33	06:09:55	00:12:21	00:13:16	240-	72-	53-	39578
R2 (38)	21/12/10	06:22:31	06:34:53	00:12:22	00:12:36	305-	87-	126-	40684
S4 (29)	21/12/10	06:30:39	06:42:46	00:07:52	-----	253-	48-	50-	39495
S1 (46)	21/12/10	06:32:18	06:44:23	00:01:36	-----	255-	46-	50-	39496
R3 (45)	21/12/10	06:47:14	06:53:49	00:06:35	00:02:51	264-	9-	201-	39648
T3 (25)	21/12/10	06:52:34	07:02:00	00:08:10	-----	278-	15-	182-	38442
S2 (43)	21/12/10	07:06:28	07:18:04	00:11:35	00:04:28	269-	33-	48-	39584
R1 (47)	21/12/10	07:16:06	07:27:47	00:09:43	-----	295-	38-	152-	39613
S3 (42)	21/12/10	07:42:36	07:53:37	00:11:01	00:14:49	282-	25-	49-	39579
R2 (38)	21/12/10	08:07:12	08:16:43	00:09:31	00:13:34	280-	17-	179-	40685
S4 (29)	21/12/10	08:16:03	08:26:39	00:09:56	-----	292-	22-	51-	39496
S1 (46)	21/12/10	08:17:44	08:28:18	00:01:38	-----	293-	21-	51-	39497
S2 (43)	21/12/10	08:52:00	09:02:21	00:10:20	00:23:41	302-	20-	56-	39585
S3 (42)	21/12/10	09:27:56	09:38:23	00:10:26	00:25:35	308-	20-	65-	39580
T1 (28)	21/12/10	09:40:05	09:47:34	00:07:28	00:01:42	166-	11-	92-	39377
S4 (29)	21/12/10	10:01:03	10:11:49	00:10:46	00:13:28	311-	23-	74-	39497

Satellite	Date	AOS Time	LOS Time	Duration	Interval Between	AOS Az	Max EI	LOS Az	Orbit num.
S1 (46)	21/12/10	10:02:41	10:13:31	00:01:41	-----	311-	23-	75-	39498
T2 (40)	21/12/10	10:11:11	10:21:24	00:07:53	-----	188-	21-	74-	39462
K6 (26)	21/12/10	10:15:33	10:24:11	00:02:46	-----	176-	14-	83-	39509
S2 (43)	21/12/10	10:36:29	10:47:50	00:11:20	00:12:18	312-	29-	86-	39586
T4 (44)	21/12/10	10:44:28	10:56:03	00:08:13	-----	205-	36-	65-	39465
S3 (42)	21/12/10	11:12:00	11:23:54	00:11:54	00:15:55	311-	40-	100-	39581
T1 (28)	21/12/10	11:20:45	11:33:01	00:09:07	-----	224-	68-	58-	39378
S4 (29)	21/12/10	11:44:50	11:57:06	00:12:15	00:11:49	309-	57-	113-	39498
S1 (46)	21/12/10	11:46:27	11:58:44	00:01:38	-----	309-	61-	114-	39499
T2 (40)	21/12/10	11:53:28	12:05:49	00:07:04	-----	239-	74-	53-	39463
K6 (26)	21/12/10	11:56:17	12:08:26	00:02:36	-----	231-	84-	56-	39510
S2 (43)	21/12/10	12:20:09	12:32:32	00:12:22	00:11:43	304-	85-	129-	39587
T4 (44)	21/12/10	12:27:51	12:39:59	00:07:27	-----	253-	48-	50-	39466
S3 (42)	21/12/10	12:55:46	13:07:46	00:12:00	00:15:47	298-	48-	145-	39582
T1 (28)	21/12/10	13:05:08	13:16:42	00:08:55	-----	269-	32-	48-	39379
S4 (29)	21/12/10	13:28:55	13:40:05	00:11:09	00:12:12	291-	29-	160-	39499
S1 (46)	21/12/10	13:30:35	13:41:36	00:01:30	-----	289-	27-	163-	39500
T2 (40)	21/12/10	13:38:29	13:49:31	00:07:54	-----	281-	25-	49-	39464
K6 (26)	21/12/10	13:40:15	13:51:22	00:01:51	-----	274-	28-	48-	39511
S2 (43)	21/12/10	14:05:02	14:14:00	00:08:58	00:13:39	277-	15-	183-	39588
T4 (44)	21/12/10	14:13:15	14:23:52	00:09:51	-----	292-	22-	51-	39467
S3 (42)	21/12/10	14:42:41	14:46:38	00:03:56	00:18:49	249-	6-	219-	39583
T1 (28)	21/12/10	14:50:40	15:01:00	00:10:19	00:04:02	302-	20-	56-	39380
T2 (40)	21/12/10	15:23:51	15:34:15	00:10:24	00:22:50	308-	20-	64-	39465
K6 (26)	21/12/10	15:25:03	15:35:05	00:00:50	-----	305-	19-	58-	39512
K7 (37)	21/12/10	15:40:29	15:48:33	00:08:03	00:05:23	170-	12-	89-	38493
T4 (44)	21/12/10	15:58:15	16:09:01	00:10:45	00:09:42	311-	23-	73-	39468
K3 (33)	21/12/10	16:13:50	16:24:20	00:10:30	00:04:48	189-	23-	73-	38494
T1 (28)	21/12/10	16:35:09	16:46:29	00:11:20	00:10:48	312-	29-	87-	39381
K9 (39)	21/12/10	16:47:36	16:59:29	00:11:52	00:01:07	211-	43-	63-	38494
T2 (40)	21/12/10	17:07:54	17:19:46	00:11:51	00:08:25	312-	39-	99-	39466
K6 (26)	21/12/10	17:08:39	17:19:53	00:00:07	-----	313-	31-	90-	39513
K7 (37)	21/12/10	17:21:27	17:33:47	00:12:19	00:01:33	227-	73-	57-	38494
K4 (24)	21/12/10	17:31:30	17:42:07	00:08:19	-----	190-	23-	72-	38644
T4 (44)	21/12/10	17:42:03	17:54:18	00:12:11	-----	309-	57-	112-	39469
K3 (33)	21/12/10	17:56:18	18:08:39	00:12:20	00:02:00	242-	69-	53-	38495
T1 (28)	21/12/10	18:18:49	18:31:11	00:12:21	00:10:09	304-	85-	129-	39382
K9 (39)	21/12/10	18:31:19	18:43:18	00:11:58	00:00:08	258-	42-	49-	38495
K6 (26)	21/12/10	18:51:38	19:03:37	00:12:00	00:08:19	303-	72-	134-	39514
T2 (40)	21/12/10	18:51:40	19:03:42	00:00:04	-----	298-	50-	144-	39467
K7 (37)	21/12/10	19:05:57	19:17:27	00:11:30	00:02:14	271-	31-	48-	38495
K4 (24)	21/12/10	19:14:10	19:26:28	00:09:00	-----	243-	67-	52-	38645
R3 (45)	21/12/10	19:25:01	19:29:29	00:03:01	-----	146-	7-	102-	39656
T4 (44)	21/12/10	19:26:08	19:37:18	00:07:48	-----	291-	29-	161-	39470
K3 (33)	21/12/10	19:41:24	19:52:22	00:10:57	00:04:06	283-	24-	49-	38496
T1 (28)	21/12/10	20:03:42	20:12:39	00:08:57	00:11:20	277-	15-	183-	39383
K9 (39)	21/12/10	20:16:48	20:27:17	00:10:28	00:04:08	295-	21-	52-	38496
K6 (26)	21/12/10	20:36:15	20:43:46	00:07:30	00:08:58	270-	11-	194-	39515
T2 (40)	21/12/10	20:38:22	20:42:49	00:00:05	-----	253-	7-	215-	39468
K7 (37)	21/12/10	20:51:28	21:01:48	00:10:19	00:08:39	303-	20-	57-	38496

Satellite	Date	AOS Time	LOS Time	Duration	Interval Between	AOS Az	Max El	LOS Az	Orbit num.
K4 (24)	21/12/10	20:59:25	21:10:16	00:08:28	-----	284-	24-	49-	38646
R3 (45)	21/12/10	21:03:57	21:15:52	00:05:35	-----	216-	51-	61-	39657
T3 (25)	21/12/10	21:19:55	21:32:14	00:12:18	00:04:03	211-	45-	62-	38451
K3 (33)	21/12/10	21:26:43	21:37:10	00:04:56	-----	308-	21-	65-	38497
R1 (47)	21/12/10	21:39:05	21:48:01	00:08:56	00:01:55	177-	15-	83-	39622
K9 (39)	21/12/10	22:01:39	22:12:34	00:10:54	00:13:37	312-	24-	77-	38497
R2 (38)	21/12/10	22:27:49	22:39:17	00:11:27	00:15:15	203-	33-	66-	40694
K7 (37)	21/12/10	22:35:53	22:47:18	00:08:01	-----	312-	30-	88-	38497
K4 (24)	21/12/10	22:44:49	22:55:11	00:07:52	-----	309-	20-	66-	38647
R3 (45)	21/12/10	22:47:38	22:59:20	00:04:08	-----	262-	38-	49-	39658
T3 (25)	21/12/10	23:04:29	23:16:55	00:12:25	00:05:09	258-	43-	50-	38452
K3 (33)	21/12/10	23:10:44	23:22:40	00:05:44	-----	311-	41-	101-	38498
R1 (47)	21/12/10	23:20:33	23:32:56	00:10:16	-----	231-	84-	56-	39623
K9 (39)	21/12/10	23:45:23	23:57:42	00:12:19	00:12:26	308-	67-	117-	38498
R2 (38)	21/12/11	00:11:05	00:23:15	00:12:10	00:13:22	251-	51-	50-	40695
K7 (37)	21/12/11	00:19:34	00:31:54	00:08:39	-----	304-	79-	131-	38498
K4 (24)	21/12/11	00:28:54	00:40:46	00:08:52	-----	311-	42-	102-	38648
R3 (45)	21/12/11	00:32:52	00:43:07	00:02:20	-----	298-	20-	53-	39659
T3 (25)	21/12/11	00:50:50	01:01:49	00:10:59	00:07:43	294-	22-	54-	38453
K3 (33)	21/12/11	00:54:32	01:06:28	00:04:38	-----	297-	45-	147-	38499
R1 (47)	21/12/11	01:05:14	01:16:37	00:10:08	-----	274-	29-	48-	39624
K9 (39)	21/12/11	01:29:39	01:40:17	00:10:38	00:13:02	287-	24-	167-	38499
R2 (38)	21/12/11	01:56:27	02:07:06	00:10:39	00:16:09	290-	22-	50-	40696
K7 (37)	21/12/11	02:04:37	02:13:08	00:06:02	-----	274-	13-	188-	38499
K4 (24)	21/12/11	02:12:48	02:24:38	00:11:29	-----	297-	43-	148-	38649
R3 (45)	21/12/11	02:17:18	02:28:11	00:03:33	-----	312-	25-	80-	39660
T3 (25)	21/12/11	02:36:33	02:48:01	00:11:28	00:08:21	311-	26-	79-	38454
R1 (47)	21/12/11	02:50:44	03:01:05	00:10:20	00:02:43	304-	20-	59-	39625
S3 (42)	21/12/11	03:19:40	03:27:15	00:07:35	00:18:35	167-	11-	91-	39591
R2 (38)	21/12/11	03:41:30	03:52:12	00:10:42	00:14:14	311-	22-	72-	40697
S4 (29)	21/12/11	03:51:02	04:01:09	00:08:56	-----	187-	20-	75-	39508
S1 (46)	21/12/11	03:52:29	04:02:49	00:01:40	-----	187-	21-	74-	39509
R3 (45)	21/12/11	04:00:42	04:12:55	00:10:05	-----	307-	75-	121-	39661
T3 (25)	21/12/11	04:21:09	04:33:58	00:12:48	00:08:14	307-	71-	119-	38455
S2 (43)	21/12/11	04:25:20	04:36:59	00:03:00	-----	206-	37-	64-	39597
R1 (47)	21/12/11	04:35:02	04:46:36	00:09:37	-----	312-	32-	92-	39626
S3 (42)	21/12/11	05:00:23	05:12:41	00:12:17	00:13:46	225-	68-	58-	39592
R2 (38)	21/12/11	05:25:19	05:37:32	00:12:12	00:12:38	310-	54-	111-	40698
S4 (29)	21/12/11	05:33:14	05:45:36	00:08:04	-----	238-	77-	53-	39509
S1 (46)	21/12/11	05:34:50	05:47:11	00:01:35	-----	240-	72-	53-	39510
R3 (45)	21/12/11	05:44:50	05:54:54	00:07:43	-----	284-	20-	172-	39662
T3 (25)	21/12/11	06:06:19	06:17:19	00:10:59	00:11:24	287-	23-	168-	38456
S2 (43)	21/12/11	06:08:47	06:20:53	00:03:33	-----	254-	47-	50-	39598
R1 (47)	21/12/11	06:18:43	06:31:00	00:10:07	-----	302-	68-	135-	39627
S3 (42)	21/12/11	06:44:47	06:56:22	00:11:34	00:13:46	269-	32-	48-	39593
R2 (38)	21/12/11	07:09:21	07:20:40	00:11:19	00:12:59	292-	31-	158-	40699
S4 (29)	21/12/11	07:18:13	07:29:18	00:08:37	-----	280-	26-	49-	39510
S1 (46)	21/12/11	07:19:53	07:30:54	00:01:35	-----	282-	25-	49-	39511
S2 (43)	21/12/11	07:54:13	08:04:47	00:10:34	00:23:18	293-	21-	51-	39599
R1 (47)	21/12/11	08:04:09	08:11:42	00:06:54	-----	269-	11-	195-	39628

Satellite	Date	AOS Time	LOS Time	Duration	Interval Between	AOS Az	Max El	LOS Az	Orbit num.
S3 (42)	21/12/11	08:30:19	08:40:39	00:10:20	00:18:37	302-	20-	57-	39594
S4 (29)	21/12/11	09:03:36	09:14:00	00:10:24	00:22:56	307-	20-	63-	39511
S1 (46)	21/12/11	09:05:13	09:15:40	00:01:39	-----	308-	20-	65-	39512
T2 (40)	21/12/11	09:15:45	09:23:03	00:07:18	00:00:05	165-	10-	93-	39476
S2 (43)	21/12/11	09:39:10	09:49:59	00:10:48	00:16:07	311-	23-	74-	39600
T4 (44)	21/12/11	09:48:13	09:58:20	00:08:21	-----	187-	20-	75-	39479
S3 (42)	21/12/11	10:14:47	10:26:09	00:11:22	00:16:26	312-	29-	87-	39595
T1 (28)	21/12/11	10:24:01	10:35:39	00:09:30	-----	206-	38-	64-	39392
S4 (29)	21/12/11	10:47:41	10:59:32	00:11:50	00:12:01	312-	38-	98-	39512
S1 (46)	21/12/11	10:49:16	11:01:10	00:01:38	-----	311-	40-	100-	39513
K6 (26)	21/12/11	10:49:58	11:01:31	00:00:20	-----	209-	40-	63-	39524
T2 (40)	21/12/11	10:56:19	11:08:34	00:07:03	-----	224-	66-	58-	39477
S2 (43)	21/12/11	11:22:57	11:35:14	00:12:16	00:14:22	309-	59-	114-	39601
T4 (44)	21/12/11	11:30:25	11:42:48	00:07:34	-----	238-	77-	53-	39480
S3 (42)	21/12/11	11:58:27	12:10:49	00:12:22	00:15:39	304-	84-	129-	39596
T1 (28)	21/12/11	12:07:29	12:19:33	00:08:43	-----	255-	46-	50-	39393
S4 (29)	21/12/11	12:31:26	12:43:31	00:12:05	00:11:53	299-	52-	143-	39513
K6 (26)	21/12/11	12:32:52	12:44:40	00:01:08	-----	257-	43-	49-	39525
S1 (46)	21/12/11	12:33:02	12:45:03	00:00:23	-----	298-	48-	145-	39514
T2 (40)	21/12/11	12:40:40	12:52:15	00:07:12	-----	268-	33-	48-	39478
S2 (43)	21/12/11	13:07:04	13:18:09	00:11:04	00:14:48	290-	27-	162-	39602
T4 (44)	21/12/11	13:15:23	13:26:29	00:08:20	-----	280-	26-	49-	39481
S3 (42)	21/12/11	13:43:22	13:52:17	00:08:54	00:16:52	277-	15-	184-	39597
T1 (28)	21/12/11	13:52:55	14:03:27	00:10:32	00:00:38	293-	21-	51-	39394
K6 (26)	21/12/11	14:17:37	14:27:52	00:10:14	00:14:09	294-	20-	51-	39526
S4 (29)	21/12/11	14:17:55	14:22:54	00:04:05	-----	256-	7-	212-	39514
S1 (46)	21/12/11	14:19:56	14:23:56	00:01:02	-----	250-	6-	219-	39515
T2 (40)	21/12/11	14:26:12	14:36:31	00:10:19	00:02:16	301-	20-	56-	39479
T4 (44)	21/12/11	15:00:46	15:11:11	00:10:24	00:24:15	307-	20-	63-	39482
K3 (33)	21/12/11	15:18:14	15:26:10	00:07:55	00:07:03	169-	12-	89-	38508
T1 (28)	21/12/11	15:37:52	15:48:39	00:10:47	00:11:42	311-	23-	74-	39395
K9 (39)	21/12/11	15:51:12	16:01:54	00:10:42	00:02:32	191-	24-	71-	38508
K6 (26)	21/12/11	16:01:50	16:12:22	00:10:27	-----	312-	23-	74-	39527
T2 (40)	21/12/11	16:10:42	16:22:00	00:09:38	-----	312-	28-	86-	39480
K7 (37)	21/12/11	16:24:38	16:36:26	00:11:47	00:02:37	209-	41-	63-	38508
K4 (24)	21/12/11	16:37:08	16:45:26	00:08:17	00:00:42	172-	13-	87-	38658
T4 (44)	21/12/11	16:44:52	16:56:42	00:11:16	-----	312-	38-	98-	39483
K3 (33)	21/12/11	16:59:08	17:11:27	00:12:19	00:02:25	226-	72-	57-	38509
T1 (28)	21/12/11	17:21:38	17:33:54	00:12:15	00:10:11	309-	59-	114-	39396
K9 (39)	21/12/11	17:33:49	17:46:09	00:12:14	-----	243-	66-	52-	38509
K6 (26)	21/12/11	17:44:53	17:56:52	00:10:43	-----	309-	60-	114-	39528
T2 (40)	21/12/11	17:54:22	18:06:43	00:09:51	-----	305-	86-	128-	39481
K7 (37)	21/12/11	18:08:15	18:20:17	00:12:01	00:01:31	257-	44-	50-	38509
K4 (24)	21/12/11	18:18:21	18:30:40	00:10:22	-----	228-	76-	57-	38659
T4 (44)	21/12/11	18:28:37	18:40:42	00:10:02	-----	299-	52-	143-	39484
K3 (33)	21/12/11	18:43:36	18:55:08	00:11:31	00:02:53	270-	31-	48-	38510
T1 (28)	21/12/11	19:05:45	19:16:47	00:11:01	00:10:37	290-	27-	162-	39397
K9 (39)	21/12/11	19:18:58	19:29:53	00:10:54	00:02:11	284-	24-	49-	38510
K6 (26)	21/12/11	19:28:20	19:38:59	00:09:06	-----	289-	26-	164-	39529
T2 (40)	21/12/11	19:39:12	19:48:17	00:09:04	00:00:13	278-	15-	182-	39482

Satellite	Date	AOS Time	LOS Time	Duration	Interval Between	AOS Az	Max El	LOS Az	Orbit num.
K7 (37)	21/12/11	19:53:43	20:04:14	00:10:30	00:05:26	294-	21-	52-	38510
K4 (24)	21/12/11	20:03:00	20:14:25	00:10:10	-----	271-	30-	48-	38660
R3 (45)	21/12/11	20:03:42	20:14:29	00:00:04	-----	194-	26-	70-	39671
T4 (44)	21/12/11	20:15:05	20:20:06	00:05:01	00:00:35	256-	7-	212-	39485
K3 (33)	21/12/11	20:29:08	20:39:28	00:10:19	00:09:01	302-	20-	57-	38511
T3 (25)	21/12/11	20:34:42	20:46:20	00:06:52	-----	199-	30-	67-	38465
K9 (39)	21/12/11	21:04:15	21:14:44	00:10:29	00:17:54	309-	21-	66-	38511
R2 (38)	21/12/11	21:31:39	21:41:30	00:09:51	00:16:54	185-	18-	77-	40708
K7 (37)	21/12/11	21:38:37	21:49:29	00:07:58	-----	312-	24-	76-	38511
R3 (45)	21/12/11	21:46:14	21:58:21	00:08:52	-----	246-	60-	52-	39672
K4 (24)	21/12/11	21:48:38	21:58:52	00:00:30	-----	303-	20-	58-	38661
K3 (33)	21/12/11	22:13:34	22:24:58	00:11:23	00:14:42	312-	30-	88-	38512
T3 (25)	21/12/11	22:18:34	22:31:15	00:06:17	-----	248-	57-	51-	38466
R1 (47)	21/12/11	22:23:37	22:35:38	00:04:22	-----	214-	48-	61-	39637
K9 (39)	21/12/11	22:48:14	23:00:13	00:11:59	00:12:36	311-	43-	103-	38512
R2 (38)	21/12/11	23:13:40	23:26:04	00:12:23	00:13:27	236-	82-	54-	40709
K7 (37)	21/12/11	23:22:22	23:34:40	00:08:36	-----	308-	63-	116-	38512
R3 (45)	21/12/11	23:31:10	23:41:49	00:07:09	-----	286-	23-	49-	39673
K4 (24)	21/12/11	23:33:07	23:44:28	00:02:38	-----	312-	30-	89-	38662
K3 (33)	21/12/11	23:57:14	00:09:35	00:12:20	00:12:45	304-	80-	130-	38513
T3 (25)	21/12/12	00:04:44	00:15:58	00:06:22	-----	287-	24-	51-	38467
R1 (47)	21/12/12	00:07:30	00:19:24	00:03:26	-----	260-	40-	49-	39638
K9 (39)	21/12/12	00:32:03	00:43:54	00:11:51	00:12:38	297-	43-	148-	38513
R2 (38)	21/12/12	00:58:35	01:09:45	00:11:09	00:14:40	279-	26-	48-	40710
K7 (37)	21/12/12	01:06:34	01:17:23	00:07:38	-----	288-	25-	165-	38513
R3 (45)	21/12/12	01:16:05	01:26:28	00:09:04	-----	310-	21-	68-	39674
K4 (24)	21/12/12	01:16:53	01:29:07	00:02:39	-----	303-	76-	132-	38663
K3 (33)	21/12/12	01:42:15	01:50:53	00:08:37	00:13:07	275-	14-	187-	38514
T3 (25)	21/12/12	01:50:44	02:01:53	00:11:00	-----	309-	23-	71-	38468
R1 (47)	21/12/12	01:53:00	02:03:27	00:01:34	-----	297-	20-	53-	39639
R2 (38)	21/12/12	02:44:00	02:54:23	00:10:22	00:40:32	307-	20-	62-	40711
S4 (29)	21/12/12	02:55:42	03:02:44	00:07:02	00:01:18	163-	10-	95-	39522
S1 (46)	21/12/12	02:56:57	03:04:31	00:01:46	-----	167-	11-	91-	39523
R3 (45)	21/12/12	02:59:43	03:11:38	00:07:06	-----	311-	45-	105-	39675
K4 (24)	21/12/12	03:02:07	03:10:19	00:01:01	-----	273-	13-	190-	38664
S2 (43)	21/12/12	03:29:02	03:39:17	00:10:15	00:18:43	189-	21-	74-	39611
T3 (25)	21/12/12	03:35:29	03:48:07	00:08:49	-----	310-	52-	109-	38469
R1 (47)	21/12/12	03:37:46	03:48:48	00:00:40	-----	312-	25-	79-	39640
S3 (42)	21/12/12	04:03:36	04:15:17	00:11:40	00:14:48	207-	38-	64-	39606
R2 (38)	21/12/12	04:28:09	04:39:55	00:11:45	00:12:51	312-	36-	97-	40712
S4 (29)	21/12/12	04:36:07	04:48:22	00:08:27	-----	223-	64-	58-	39523
S1 (46)	21/12/12	04:37:39	04:49:56	00:01:34	-----	225-	68-	58-	39524
R3 (45)	21/12/12	04:43:18	04:54:54	00:04:57	-----	295-	39-	151-	39676
S2 (43)	21/12/12	05:11:20	05:23:42	00:12:21	00:16:25	240-	74-	53-	39612
T3 (25)	21/12/12	05:20:19	05:32:15	00:08:33	-----	293-	34-	155-	38470
R1 (47)	21/12/12	05:21:29	05:33:50	00:01:35	-----	307-	72-	120-	39641
S3 (42)	21/12/12	05:47:06	05:59:10	00:12:04	00:13:15	255-	46-	50-	39607
R2 (38)	21/12/12	06:11:52	06:24:01	00:12:08	00:12:41	300-	56-	141-	40713
S4 (29)	21/12/12	06:20:25	06:32:04	00:08:03	-----	267-	34-	48-	39524
S1 (46)	21/12/12	06:22:03	06:33:37	00:01:33	-----	269-	32-	48-	39525

Satellite	Date	AOS Time	LOS Time	Duration	Interval Between	AOS Az	Max El	LOS Az	Orbit num.
S2 (43)	21/12/12	06:56:21	07:07:24	00:11:02	00:22:43	281-	25-	49-	39613
R1 (47)	21/12/12	07:05:51	07:16:11	00:08:47	-----	285-	21-	170-	39642
S3 (42)	21/12/12	07:32:32	07:43:06	00:10:33	00:16:20	293-	21-	51-	39608
R2 (38)	21/12/12	07:58:01	08:03:48	00:05:47	00:14:54	260-	8-	207-	40714
S4 (29)	21/12/12	08:05:57	08:16:19	00:10:21	00:02:09	301-	20-	56-	39525
S1 (46)	21/12/12	08:07:34	08:17:55	00:01:36	-----	302-	20-	57-	39526
S2 (43)	21/12/12	08:41:42	08:52:08	00:10:25	00:23:47	308-	20-	64-	39614
T4 (44)	21/12/12	08:52:53	08:59:53	00:07:00	00:00:44	163-	10-	95-	39493
S3 (42)	21/12/12	09:17:28	09:28:18	00:10:49	00:17:34	311-	23-	75-	39609
T1 (28)	21/12/12	09:27:44	09:38:00	00:09:41	-----	189-	21-	74-	39406
K6 (26)	21/12/12	09:44:25	09:54:10	00:09:44	00:06:25	185-	19-	76-	39538
S4 (29)	21/12/12	09:50:29	10:01:47	00:07:37	-----	312-	28-	85-	39526
S1 (46)	21/12/12	09:52:03	10:03:24	00:01:37	-----	312-	29-	87-	39527
T2 (40)	21/12/12	09:59:34	10:11:10	00:07:45	-----	206-	37-	65-	39491
S2 (43)	21/12/12	10:25:46	10:37:39	00:11:52	00:14:36	312-	39-	99-	39615
T4 (44)	21/12/12	10:33:17	10:45:32	00:07:53	-----	223-	63-	59-	39494
S3 (42)	21/12/12	11:01:15	11:13:32	00:12:17	00:15:42	309-	60-	114-	39610
T1 (28)	21/12/12	11:10:03	11:22:24	00:08:51	-----	240-	74-	53-	39407
K6 (26)	21/12/12	11:25:50	11:37:58	00:12:08	00:03:26	238-	79-	54-	39539
S4 (29)	21/12/12	11:34:09	11:46:33	00:08:34	-----	305-	89-	127-	39527
S1 (46)	21/12/12	11:35:43	11:48:05	00:01:32	-----	304-	84-	129-	39528
T2 (40)	21/12/12	11:43:00	11:55:04	00:06:59	-----	254-	47-	50-	39492
S2 (43)	21/12/12	12:09:32	12:21:35	00:12:02	00:14:27	298-	49-	144-	39616
T4 (44)	21/12/12	12:17:34	12:29:14	00:07:39	-----	267-	34-	48-	39495
S3 (42)	21/12/12	12:45:23	12:56:25	00:11:01	00:16:08	289-	27-	163-	39611
T1 (28)	21/12/12	12:55:05	13:06:06	00:09:41	-----	281-	25-	49-	39408
K6 (26)	21/12/12	13:10:04	13:20:56	00:10:52	00:03:58	280-	25-	48-	39540
S4 (29)	21/12/12	13:18:56	13:28:11	00:07:15	-----	279-	16-	181-	39528
S1 (46)	21/12/12	13:20:37	13:29:33	00:01:21	-----	277-	15-	184-	39529
T2 (40)	21/12/12	13:28:25	13:38:58	00:09:25	-----	292-	21-	51-	39493
S2 (43)	21/12/12	13:56:16	14:00:40	00:04:23	00:17:17	252-	7-	216-	39617
T4 (44)	21/12/12	14:03:07	14:13:28	00:10:21	00:02:26	301-	20-	56-	39496
T1 (28)	21/12/12	14:40:26	14:50:50	00:10:24	00:26:57	308-	20-	64-	39409
K6 (26)	21/12/12	14:54:46	15:04:51	00:10:05	00:03:55	308-	19-	62-	39541
K9 (39)	21/12/12	14:55:29	15:03:49	00:01:02	-----	172-	13-	87-	38522
T2 (40)	21/12/12	15:13:23	15:24:09	00:10:45	00:09:34	311-	23-	74-	39494
K7 (37)	21/12/12	15:28:17	15:38:50	00:10:32	00:04:08	189-	23-	72-	38522
T4 (44)	21/12/12	15:47:39	15:58:56	00:11:17	00:08:48	312-	28-	85-	39497
K3 (33)	21/12/12	16:02:21	16:14:07	00:11:46	00:03:24	209-	40-	63-	38523
T1 (28)	21/12/12	16:24:29	16:36:22	00:11:52	00:10:22	312-	39-	100-	39410
K9 (39)	21/12/12	16:36:36	16:48:57	00:12:20	00:00:14	228-	76-	57-	38523
K6 (26)	21/12/12	16:38:11	16:49:40	00:00:43	-----	312-	35-	96-	39542
T2 (40)	21/12/12	16:57:10	17:09:25	00:12:15	00:07:29	309-	58-	113-	39495
K7 (37)	21/12/12	17:10:47	17:23:08	00:12:20	00:01:22	242-	69-	53-	38523
K4 (24)	21/12/12	17:22:51	17:34:44	00:11:36	-----	211-	44-	63-	38673
T4 (44)	21/12/12	17:31:19	17:43:42	00:08:57	-----	305-	89-	127-	39498
K3 (33)	21/12/12	17:45:56	17:57:58	00:12:02	00:02:13	256-	44-	50-	38524
T1 (28)	21/12/12	18:08:15	18:20:17	00:12:01	00:10:17	298-	49-	144-	39411
K9 (39)	21/12/12	18:21:09	18:32:37	00:11:28	00:00:52	272-	30-	48-	38524
K6 (26)	21/12/12	18:21:12	18:33:04	00:00:26	-----	300-	56-	141-	39543

Satellite	Date	AOS Time	LOS Time	Duration	Interval Between	AOS Az	Max EI	LOS Az	Orbit num.
T2 (40)	21/12/12	18:41:15	18:52:21	00:11:05	00:08:11	290-	28-	161-	39496
K7 (37)	21/12/12	18:55:53	19:06:51	00:10:57	00:03:32	283-	24-	49-	38524
R3 (45)	21/12/12	19:04:14	19:12:33	00:05:42	-----	173-	13-	87-	39685
K4 (24)	21/12/12	19:06:42	19:18:38	00:06:05	-----	258-	42-	49-	38674
T4 (44)	21/12/12	19:16:05	19:25:22	00:06:44	-----	279-	16-	181-	39499
K3 (33)	21/12/12	19:31:24	19:41:55	00:10:31	00:06:01	294-	21-	52-	38525
T3 (25)	21/12/12	19:49:44	20:00:16	00:10:32	00:07:48	188-	21-	75-	38479
T1 (28)	21/12/12	19:55:02	19:59:18	00:00:05	-----	252-	7-	216-	39412
K6 (26)	21/12/12	20:06:40	20:12:08	00:05:28	00:07:22	259-	8-	208-	39544
K9 (39)	21/12/12	20:06:40	20:17:00	00:04:51	-----	303-	20-	58-	38525
R2 (38)	21/12/12	20:36:29	20:42:55	00:06:26	00:19:29	160-	9-	98-	40722
K7 (37)	21/12/12	20:41:12	20:51:40	00:08:44	-----	308-	21-	65-	38525
R3 (45)	21/12/12	20:45:09	20:57:21	00:05:40	-----	229-	78-	56-	39686
K4 (24)	21/12/12	20:52:18	21:02:42	00:05:21	-----	295-	21-	52-	38675
K3 (33)	21/12/12	21:16:18	21:27:09	00:10:50	00:13:36	312-	23-	76-	38526
R1 (47)	21/12/12	21:27:07	21:38:06	00:10:56	-----	195-	27-	70-	39651
T3 (25)	21/12/12	21:32:46	21:45:35	00:07:29	-----	238-	78-	54-	38480
K9 (39)	21/12/12	21:51:03	22:02:31	00:11:27	00:05:28	312-	30-	89-	38526
R2 (38)	21/12/12	22:16:35	22:28:48	00:12:12	00:14:04	221-	59-	59-	40723
K7 (37)	21/12/12	22:25:13	22:37:09	00:08:21	-----	311-	41-	102-	38526
R3 (45)	21/12/12	22:29:27	22:40:43	00:03:34	-----	273-	30-	48-	39687
K4 (24)	21/12/12	22:37:15	22:48:04	00:07:20	-----	312-	24-	77-	38676
K3 (33)	21/12/12	23:00:03	23:12:21	00:12:17	00:11:59	308-	62-	115-	38527
R1 (47)	21/12/12	23:09:56	23:22:14	00:09:53	-----	246-	60-	52-	39652
T3 (25)	21/12/12	23:18:36	23:30:10	00:07:55	-----	280-	27-	49-	38481
K9 (39)	21/12/12	23:34:44	23:47:03	00:12:19	00:04:33	303-	76-	132-	38527
R2 (38)	21/12/13	00:00:47	00:12:30	00:11:43	00:13:43	265-	35-	48-	40724
K7 (37)	21/12/13	00:09:01	00:20:56	00:08:26	-----	297-	45-	147-	38527
R3 (45)	21/12/13	00:14:40	00:24:50	00:03:53	-----	304-	19-	58-	39688
K4 (24)	21/12/13	00:21:04	00:33:18	00:08:28	-----	308-	67-	117-	38677
K3 (33)	21/12/13	00:44:14	00:55:06	00:10:51	00:10:56	289-	26-	164-	38528
R1 (47)	21/12/13	00:55:10	01:06:00	00:10:50	00:00:04	286-	23-	49-	39653
T3 (25)	21/12/13	01:04:51	01:15:47	00:09:46	-----	306-	21-	65-	38482
K9 (39)	21/12/13	01:19:53	01:28:09	00:08:16	00:04:05	273-	13-	190-	38528
R2 (38)	21/12/13	01:46:19	01:56:41	00:10:22	00:18:10	300-	20-	55-	40725
R3 (45)	21/12/13	01:58:44	02:10:04	00:11:19	00:02:02	313-	30-	90-	39689
K4 (24)	21/12/13	02:05:26	02:15:57	00:05:52	-----	287-	23-	167-	38678
S2 (43)	21/12/13	02:33:35	02:40:57	00:07:21	00:17:38	165-	11-	93-	39625
R1 (47)	21/12/13	02:40:23	02:50:57	00:10:00	-----	309-	21-	68-	39654
T3 (25)	21/12/13	02:49:49	03:02:10	00:11:13	-----	311-	40-	100-	38483
S3 (42)	21/12/13	03:07:18	03:17:37	00:10:18	00:05:08	186-	21-	74-	39620
R2 (38)	21/12/13	03:30:55	03:42:08	00:11:12	00:13:18	312-	27-	84-	40726
S4 (29)	21/12/13	03:39:25	03:50:58	00:08:50	-----	205-	35-	65-	39537
S1 (46)	21/12/13	03:40:52	03:52:32	00:01:34	-----	207-	38-	64-	39538
R3 (45)	21/12/13	03:42:07	03:54:18	00:01:45	-----	303-	75-	133-	39690
S2 (43)	21/12/13	04:14:11	04:26:27	00:12:16	00:19:52	224-	66-	58-	39626
R1 (47)	21/12/13	04:24:19	04:36:23	00:09:55	-----	311-	46-	105-	39655
T3 (25)	21/12/13	04:34:27	04:46:57	00:10:34	-----	299-	50-	144-	38484
S3 (42)	21/12/13	04:49:38	05:02:00	00:12:21	00:02:40	240-	73-	53-	39621
R2 (38)	21/12/13	05:14:36	05:26:58	00:12:22	00:12:35	306-	86-	125-	40727

Satellite	Date	AOS Time	LOS Time	Duration	Interval Between	AOS Az	Max EI	LOS Az	Orbit num.
S4 (29)	21/12/13	05:22:47	05:34:54	00:07:55	-----	253-	49-	50-	39538
S1 (46)	21/12/13	05:24:21	05:36:26	00:01:31	-----	255-	46-	50-	39539
R3 (45)	21/12/13	05:27:01	05:35:04	00:01:02	-----	272-	12-	190-	39691
S2 (43)	21/12/13	05:58:32	06:10:08	00:11:36	00:23:28	268-	33-	48-	39627
R1 (47)	21/12/13	06:08:11	06:19:54	00:09:45	-----	295-	38-	151-	39656
T3 (25)	21/12/13	06:21:54	06:27:01	00:05:06	00:02:00	256-	7-	213-	38485
S3 (42)	21/12/13	06:34:40	06:45:42	00:11:01	00:07:39	282-	25-	49-	39622
R2 (38)	21/12/13	06:59:15	07:08:49	00:09:34	00:13:32	280-	17-	179-	40728
S4 (29)	21/12/13	07:08:11	07:18:47	00:09:57	-----	292-	22-	51-	39539
S1 (46)	21/12/13	07:09:47	07:20:21	00:01:33	-----	293-	21-	51-	39540
S2 (43)	21/12/13	07:44:04	07:54:25	00:10:20	00:23:43	301-	20-	56-	39628
S3 (42)	21/12/13	08:20:01	08:30:28	00:10:26	00:25:36	308-	20-	64-	39623
T1 (28)	21/12/13	08:32:18	08:39:42	00:07:24	00:01:49	166-	11-	92-	39420
K6 (26)	21/12/13	08:40:36	08:45:21	00:04:44	00:00:54	149-	7-	102-	39552
S4 (29)	21/12/13	08:53:11	09:03:57	00:10:45	00:07:49	311-	23-	73-	39540
S1 (46)	21/12/13	08:54:44	09:05:33	00:01:36	-----	311-	23-	75-	39541
T2 (40)	21/12/13	09:03:17	09:13:28	00:07:55	-----	188-	20-	75-	39505
S2 (43)	21/12/13	09:28:33	09:39:54	00:11:20	00:15:05	312-	29-	86-	39629
T4 (44)	21/12/13	09:36:33	09:48:07	00:08:13	-----	204-	35-	65-	39508
S3 (42)	21/12/13	10:04:04	10:15:58	00:11:54	00:15:57	311-	39-	100-	39624
T1 (28)	21/12/13	10:12:55	10:25:11	00:09:12	-----	224-	67-	58-	39421
K6 (26)	21/12/13	10:19:18	10:31:09	00:05:58	-----	217-	52-	61-	39553
S4 (29)	21/12/13	10:36:59	10:49:14	00:12:15	00:05:49	309-	57-	112-	39541
S1 (46)	21/12/13	10:38:30	10:50:47	00:01:33	-----	309-	60-	114-	39542
T2 (40)	21/12/13	10:45:33	10:57:54	00:07:06	-----	239-	75-	53-	39506
S2 (43)	21/12/13	11:12:14	11:24:36	00:12:22	00:14:19	305-	86-	128-	39630
T4 (44)	21/12/13	11:19:55	11:32:03	00:07:26	-----	253-	49-	50-	39509
S3 (42)	21/12/13	11:47:51	11:59:52	00:12:01	00:15:47	298-	48-	145-	39625
T1 (28)	21/12/13	11:57:17	12:08:52	00:09:00	-----	268-	33-	48-	39422
K6 (26)	21/12/13	12:02:36	12:14:11	00:05:19	-----	263-	37-	48-	39554
S4 (29)	21/12/13	12:21:03	12:32:16	00:11:12	00:06:51	291-	29-	160-	39542
S1 (46)	21/12/13	12:22:38	12:33:40	00:01:24	-----	290-	27-	163-	39543
T2 (40)	21/12/13	12:30:33	12:41:35	00:07:55	-----	281-	25-	49-	39507
S2 (43)	21/12/13	12:57:05	13:06:07	00:09:02	00:15:29	277-	15-	182-	39631
T4 (44)	21/12/13	13:05:18	13:15:56	00:09:48	-----	291-	22-	51-	39510
S3 (42)	21/12/13	13:34:41	13:38:49	00:04:07	00:18:45	251-	6-	218-	39626
T1 (28)	21/12/13	13:42:49	13:53:08	00:10:19	00:04:00	302-	20-	56-	39423
K6 (26)	21/12/13	13:47:25	13:57:33	00:04:24	-----	298-	20-	53-	39555
T2 (40)	21/12/13	14:15:55	14:26:19	00:10:23	00:18:22	308-	20-	64-	39508
K7 (37)	21/12/13	14:32:40	14:40:39	00:07:59	00:06:21	170-	12-	89-	38536
T4 (44)	21/12/13	14:50:19	15:01:04	00:10:45	00:09:39	311-	23-	73-	39511
K3 (33)	21/12/13	15:06:01	15:16:30	00:10:29	00:04:56	189-	22-	73-	38537
T1 (28)	21/12/13	15:27:18	15:38:38	00:11:19	00:10:47	312-	29-	86-	39424
K6 (26)	21/12/13	15:31:25	15:42:12	00:03:34	-----	313-	25-	80-	39556
K9 (39)	21/12/13	15:39:45	15:51:37	00:09:25	-----	211-	43-	63-	38537
T2 (40)	21/12/13	16:00:00	16:11:50	00:11:50	00:08:22	312-	38-	99-	39509
K7 (37)	21/12/13	16:13:36	16:25:55	00:12:19	00:01:45	226-	72-	57-	38537
K4 (24)	21/12/13	16:27:47	16:38:35	00:10:48	00:01:51	193-	25-	71-	38687
T4 (44)	21/12/13	16:34:07	16:46:22	00:07:46	-----	309-	56-	112-	39512
K3 (33)	21/12/13	16:48:29	17:00:50	00:12:21	00:02:06	241-	70-	53-	38538

Satellite	Date	AOS Time	LOS Time	Duration	Interval Between	AOS Az	Max El	LOS Az	Orbit num.
T1 (28)	21/12/13	17:10:58	17:23:20	00:12:21	00:10:08	304-	85-	129-	39425
K6 (26)	21/12/13	17:14:24	17:26:29	00:03:09	-----	307-	74-	121-	39557
K9 (39)	21/12/13	17:23:27	17:35:26	00:08:57	-----	258-	43-	49-	38538
T2 (40)	21/12/13	17:43:45	17:55:47	00:12:02	00:08:18	299-	50-	144-	39510
K7 (37)	21/12/13	17:58:04	18:09:36	00:11:31	00:02:17	270-	31-	48-	38538
K4 (24)	21/12/13	18:10:34	18:22:53	00:12:18	00:00:58	244-	64-	52-	38688
T4 (44)	21/12/13	18:18:11	18:29:23	00:06:30	-----	291-	29-	160-	39513
K3 (33)	21/12/13	18:33:34	18:44:32	00:10:58	00:04:10	283-	25-	49-	38539
T1 (28)	21/12/13	18:55:50	19:04:51	00:09:00	00:11:17	277-	15-	183-	39426
K6 (26)	21/12/13	18:58:07	19:08:02	00:03:11	-----	284-	20-	172-	39558
T3 (25)	21/12/13	19:05:09	19:13:54	00:05:52	-----	173-	13-	86-	38493
K9 (39)	21/12/13	19:08:56	19:19:25	00:05:31	-----	295-	21-	52-	38539
T2 (40)	21/12/13	19:30:22	19:35:00	00:04:37	00:10:57	254-	7-	214-	39511
K7 (37)	21/12/13	19:43:36	19:53:56	00:10:19	00:08:36	302-	20-	57-	38539
R3 (45)	21/12/13	19:44:31	19:56:10	00:02:14	-----	209-	41-	63-	39700
K4 (24)	21/12/13	19:55:52	20:06:42	00:10:31	-----	285-	24-	49-	38689
K3 (33)	21/12/13	20:18:53	20:29:20	00:10:26	00:12:11	308-	21-	65-	38540
R1 (47)	21/12/13	20:31:14	20:40:05	00:08:51	00:01:53	176-	14-	83-	39665
T3 (25)	21/12/13	20:47:06	20:59:53	00:12:46	00:07:00	228-	76-	57-	38494
K9 (39)	21/12/13	20:53:47	21:04:42	00:04:49	-----	312-	24-	77-	38540
R2 (38)	21/12/13	21:19:55	21:31:21	00:11:26	00:15:12	202-	33-	66-	40737
R3 (45)	21/12/13	21:27:52	21:39:44	00:08:22	-----	257-	43-	49-	39701
K7 (37)	21/12/13	21:28:02	21:39:26	00:00:01	-----	312-	30-	88-	38540
K4 (24)	21/12/13	21:41:15	21:51:39	00:10:24	00:01:48	309-	21-	67-	38690
K3 (33)	21/12/13	22:02:55	22:14:50	00:11:55	00:11:15	311-	41-	101-	38541
R1 (47)	21/12/13	22:12:39	22:25:02	00:10:12	-----	231-	83-	56-	39666
T3 (25)	21/12/13	22:32:30	22:44:26	00:11:55	00:07:27	271-	32-	49-	38495
K9 (39)	21/12/13	22:37:31	22:49:50	00:05:24	-----	308-	66-	117-	38541
R2 (38)	21/12/13	23:03:09	23:15:20	00:12:11	00:13:18	251-	51-	50-	40738
K7 (37)	21/12/13	23:11:42	23:24:03	00:08:43	-----	304-	80-	131-	38541
R3 (45)	21/12/13	23:13:03	23:23:23	00:00:03	-----	295-	21-	51-	39702
K4 (24)	21/12/13	23:25:18	23:37:13	00:11:54	00:01:54	311-	43-	104-	38691
K3 (33)	21/12/13	23:46:42	23:58:39	00:11:56	00:09:29	298-	46-	146-	38542
R1 (47)	21/12/13	23:57:20	00:08:43	00:10:03	-----	274-	29-	48-	39667
T3 (25)	21/12/14	00:18:53	00:29:44	00:10:51	00:10:10	302-	21-	59-	38496
K9 (39)	21/12/14	00:21:46	00:32:27	00:02:43	-----	287-	24-	167-	38542
R2 (38)	21/12/14	00:48:30	00:59:10	00:10:39	00:16:03	290-	22-	50-	40739
K7 (37)	21/12/14	00:56:44	01:05:19	00:06:09	-----	275-	14-	187-	38542
R3 (45)	21/12/14	00:57:39	01:08:21	00:03:01	-----	312-	23-	76-	39703
K4 (24)	21/12/14	01:09:14	01:20:58	00:11:43	00:00:52	296-	41-	150-	38692
R1 (47)	21/12/14	01:42:49	01:53:10	00:10:21	00:21:51	304-	20-	59-	39668
T3 (25)	21/12/14	02:04:08	02:16:07	00:11:59	00:10:57	312-	32-	91-	38497
S3 (42)	21/12/14	02:11:49	02:19:18	00:03:10	-----	166-	11-	92-	39634
R2 (38)	21/12/14	02:33:34	02:44:16	00:10:41	00:14:16	311-	22-	72-	40740
R3 (45)	21/12/14	02:41:06	02:53:15	00:08:59	-----	308-	63-	116-	39704
S4 (29)	21/12/14	02:43:12	02:53:16	00:00:00	-----	187-	20-	75-	39551
S1 (46)	21/12/14	02:44:33	02:54:51	00:01:35	-----	186-	21-	74-	39552
S2 (43)	21/12/14	03:17:25	03:29:03	00:11:37	00:22:33	206-	37-	65-	39640
R1 (47)	21/12/14	03:27:08	03:38:42	00:09:39	-----	312-	32-	92-	39669
T3 (25)	21/12/14	03:48:41	04:01:28	00:12:46	00:09:59	303-	73-	133-	38498

Satellite	Date	AOS Time	LOS Time	Duration	Interval Between	AOS Az	Max EI	LOS Az	Orbit num.
S3 (42)	21/12/14	03:52:29	04:04:45	00:03:17	-----	224-	68-	58-	39635
R2 (38)	21/12/14	04:17:24	04:29:36	00:12:11	00:12:38	310-	53-	110-	40741
R3 (45)	21/12/14	04:25:00	04:35:43	00:06:06	-----	288-	25-	165-	39705
S4 (29)	21/12/14	04:25:22	04:37:44	00:02:01	-----	238-	77-	54-	39552
S1 (46)	21/12/14	04:26:53	04:39:14	00:01:30	-----	240-	73-	53-	39553
S2 (43)	21/12/14	05:00:51	05:12:57	00:12:05	00:21:37	254-	47-	50-	39641
R1 (47)	21/12/14	05:10:49	05:23:06	00:10:09	-----	302-	69-	135-	39670
T3 (25)	21/12/14	05:34:46	05:43:17	00:08:31	00:11:39	273-	13-	190-	38499
S3 (42)	21/12/14	05:36:51	05:48:27	00:05:09	-----	269-	32-	48-	39636
R2 (38)	21/12/14	06:01:25	06:12:45	00:11:20	00:12:57	292-	31-	158-	40742
S4 (29)	21/12/14	06:10:20	06:21:26	00:08:40	-----	280-	26-	49-	39553
S1 (46)	21/12/14	06:11:55	06:22:57	00:01:30	-----	282-	25-	49-	39554
S2 (43)	21/12/14	06:46:17	06:56:51	00:10:34	00:23:19	292-	21-	51-	39642
R1 (47)	21/12/14	06:56:13	07:03:51	00:07:00	-----	270-	11-	194-	39671
S3 (42)	21/12/14	07:22:23	07:32:44	00:10:20	00:18:32	302-	20-	56-	39637
S4 (29)	21/12/14	07:55:43	08:06:08	00:10:24	00:22:59	307-	20-	63-	39554
S1 (46)	21/12/14	07:57:16	08:07:42	00:01:34	-----	308-	20-	64-	39555
T2 (40)	21/12/14	08:07:53	08:15:06	00:07:12	00:00:11	165-	10-	94-	39519
S2 (43)	21/12/14	08:31:15	08:42:02	00:10:47	00:16:09	311-	23-	74-	39643
T4 (44)	21/12/14	08:40:19	08:50:23	00:08:20	-----	187-	20-	76-	39522
S3 (42)	21/12/14	09:06:52	09:18:13	00:11:21	00:16:29	312-	29-	87-	39638
K6 (26)	21/12/14	09:13:28	09:23:59	00:05:45	-----	192-	24-	71-	39567
T1 (28)	21/12/14	09:16:11	09:27:48	00:03:49	-----	206-	37-	64-	39435
S4 (29)	21/12/14	09:39:49	09:51:39	00:11:50	00:12:00	312-	38-	98-	39555
S1 (46)	21/12/14	09:41:19	09:53:13	00:01:33	-----	311-	39-	100-	39556
T2 (40)	21/12/14	09:48:24	10:00:39	00:07:26	-----	223-	65-	58-	39520
S2 (43)	21/12/14	10:15:01	10:27:18	00:12:16	00:14:22	309-	59-	113-	39644
T4 (44)	21/12/14	10:22:29	10:34:52	00:07:33	-----	238-	78-	54-	39523
S3 (42)	21/12/14	10:50:32	11:02:55	00:12:22	00:15:40	304-	85-	129-	39639
K6 (26)	21/12/14	10:55:26	11:07:30	00:04:34	-----	244-	64-	52-	39568
T1 (28)	21/12/14	10:59:38	11:11:42	00:04:12	-----	254-	47-	50-	39436
S4 (29)	21/12/14	11:23:34	11:35:40	00:12:06	00:11:51	299-	52-	143-	39556
S1 (46)	21/12/14	11:25:05	11:37:07	00:01:26	-----	298-	49-	145-	39557
T2 (40)	21/12/14	11:32:44	11:44:20	00:07:13	-----	268-	33-	48-	39521
S2 (43)	21/12/14	11:59:08	12:10:14	00:11:06	00:14:47	290-	28-	162-	39645
T4 (44)	21/12/14	12:07:27	12:18:33	00:08:18	-----	280-	26-	49-	39524
S3 (42)	21/12/14	12:35:25	12:44:24	00:08:58	00:16:52	277-	15-	184-	39640
K6 (26)	21/12/14	12:39:53	12:50:31	00:06:06	-----	285-	23-	48-	39569
T1 (28)	21/12/14	12:45:04	12:55:36	00:05:05	-----	293-	21-	51-	39437
S4 (29)	21/12/14	13:10:00	13:15:07	00:05:06	00:14:23	256-	7-	211-	39557
S1 (46)	21/12/14	13:11:54	13:16:05	00:00:58	-----	251-	6-	217-	39558
T2 (40)	21/12/14	13:18:16	13:28:36	00:10:19	00:02:11	301-	20-	56-	39522
T4 (44)	21/12/14	13:52:50	14:03:14	00:10:24	00:24:14	307-	20-	63-	39525
K3 (33)	21/12/14	14:10:27	14:18:19	00:07:51	00:07:12	169-	12-	90-	38551
K6 (26)	21/12/14	14:24:27	14:34:39	00:10:12	00:06:07	310-	20-	66-	39570
T1 (28)	21/12/14	14:30:01	14:40:48	00:06:08	-----	311-	23-	74-	39438
K9 (39)	21/12/14	14:43:22	14:54:02	00:10:40	00:02:33	191-	24-	72-	38551
T2 (40)	21/12/14	15:02:47	15:14:04	00:11:17	00:08:44	312-	28-	86-	39523
K7 (37)	21/12/14	15:16:47	15:28:34	00:11:46	00:02:43	209-	40-	63-	38551
K4 (24)	21/12/14	15:33:19	15:41:59	00:08:39	00:04:44	174-	14-	85-	38701

Satellite	Date	AOS Time	LOS Time	Duration	Interval Between	AOS Az	Max El	LOS Az	Orbit num.
T4 (44)	21/12/14	15:36:56	15:48:46	00:06:47	-----	312-	37-	98-	39526
K3 (33)	21/12/14	15:51:19	16:03:38	00:12:18	00:02:33	226-	71-	57-	38552
K6 (26)	21/12/14	16:07:42	16:19:25	00:11:42	00:04:04	311-	41-	102-	39571
T1 (28)	21/12/14	16:13:48	16:26:03	00:06:38	-----	309-	59-	114-	39439
K9 (39)	21/12/14	16:25:57	16:38:17	00:12:14	-----	243-	66-	52-	38552
T2 (40)	21/12/14	16:46:26	16:58:48	00:12:21	00:08:09	305-	87-	128-	39524
K7 (37)	21/12/14	17:00:23	17:12:26	00:12:02	00:01:35	256-	44-	50-	38552
K4 (24)	21/12/14	17:14:43	17:27:05	00:12:22	00:02:17	229-	80-	56-	38702
T4 (44)	21/12/14	17:20:41	17:32:47	00:05:41	-----	299-	53-	143-	39527
K3 (33)	21/12/14	17:35:46	17:47:18	00:11:32	00:02:59	270-	32-	48-	38553
K6 (26)	21/12/14	17:50:49	18:02:26	00:11:36	00:03:30	297-	43-	148-	39572
T1 (28)	21/12/14	17:57:54	18:08:58	00:06:31	-----	290-	28-	161-	39440
K9 (39)	21/12/14	18:11:06	18:22:01	00:10:55	00:02:08	284-	24-	49-	38553
T3 (25)	21/12/14	18:21:20	18:26:53	00:04:51	-----	155-	8-	99-	38507
T2 (40)	21/12/14	18:31:15	18:40:23	00:09:07	00:04:22	278-	15-	182-	39525
R3 (45)	21/12/14	18:44:28	18:54:41	00:10:12	00:04:04	187-	21-	74-	39714
K7 (37)	21/12/14	18:45:51	18:56:23	00:01:42	-----	294-	21-	52-	38553
K4 (24)	21/12/14	18:59:27	19:10:50	00:11:22	00:03:04	273-	30-	48-	38703
T4 (44)	21/12/14	19:07:04	19:12:16	00:01:26	-----	257-	7-	211-	39528
K3 (33)	21/12/14	19:21:18	19:31:38	00:10:19	00:09:02	302-	20-	57-	38554
K9 (39)	21/12/14	19:56:23	20:06:52	00:10:29	00:24:45	309-	21-	66-	38554
T3 (25)	21/12/14	20:01:36	20:14:07	00:07:15	-----	217-	53-	61-	38508
R2 (38)	21/12/14	20:23:45	20:33:34	00:09:48	00:09:38	184-	18-	77-	40751
R3 (45)	21/12/14	20:26:34	20:38:45	00:05:11	-----	241-	71-	53-	39715
K7 (37)	21/12/14	20:30:45	20:41:37	00:02:51	-----	312-	24-	76-	38554
K4 (24)	21/12/14	20:45:05	20:55:19	00:10:14	00:03:27	304-	20-	58-	38704
K3 (33)	21/12/14	21:05:44	21:17:08	00:11:23	00:10:25	312-	29-	88-	38555
R1 (47)	21/12/14	21:15:44	21:27:43	00:10:35	-----	214-	47-	61-	39680
K9 (39)	21/12/14	21:40:22	21:52:21	00:11:58	00:12:38	311-	42-	103-	38555
T3 (25)	21/12/14	21:46:27	21:58:45	00:06:23	-----	262-	39-	49-	38509
R2 (38)	21/12/14	22:05:45	22:18:08	00:12:23	00:07:00	236-	82-	54-	40752
R3 (45)	21/12/14	22:11:20	22:22:10	00:04:01	-----	282-	25-	48-	39716
K7 (37)	21/12/14	22:14:30	22:26:49	00:04:38	-----	308-	63-	116-	38555
K4 (24)	21/12/14	22:29:31	22:40:56	00:11:25	00:02:42	312-	31-	90-	38705
K3 (33)	21/12/14	22:49:25	23:01:46	00:12:20	00:08:28	304-	81-	130-	38556
R1 (47)	21/12/14	22:59:35	23:11:31	00:09:44	-----	260-	40-	49-	39681
K9 (39)	21/12/14	23:24:11	23:36:04	00:11:52	00:12:40	297-	43-	148-	38556
T3 (25)	21/12/14	23:32:50	23:43:45	00:07:41	-----	297-	21-	55-	38510
R2 (38)	21/12/14	23:50:39	00:01:49	00:11:10	00:06:53	278-	27-	48-	40753
R3 (45)	21/12/14	23:56:23	00:06:38	00:04:49	-----	308-	20-	64-	39717
K7 (37)	21/12/14	23:58:42	00:09:33	00:02:54	-----	288-	25-	165-	38556
K4 (24)	21/12/15	00:13:17	00:25:30	00:12:12	00:03:44	303-	72-	134-	38706
K3 (33)	21/12/15	00:34:24	00:43:06	00:08:41	00:08:53	275-	14-	186-	38557
R1 (47)	21/12/15	00:45:06	00:55:33	00:10:27	00:02:00	296-	20-	53-	39682
T3 (25)	21/12/15	01:18:25	01:30:01	00:11:36	00:22:51	311-	27-	82-	38511
R2 (38)	21/12/15	01:36:04	01:46:27	00:10:22	00:06:02	306-	20-	62-	40754
R3 (45)	21/12/15	01:40:08	01:51:52	00:05:25	-----	312-	39-	100-	39718
S4 (29)	21/12/15	01:47:53	01:54:50	00:02:57	-----	163-	10-	95-	39565
S1 (46)	21/12/15	01:49:04	01:56:31	00:01:41	-----	166-	11-	92-	39566
K4 (24)	21/12/15	01:58:41	02:06:30	00:07:48	00:02:09	271-	12-	193-	38707

Satellite	Date	AOS Time	LOS Time	Duration	Interval Between	AOS Az	Max El	LOS Az	Orbit num.
S2 (43)	21/12/15	02:21:08	02:31:21	00:10:12	00:14:38	188-	21-	75-	39654
R1 (47)	21/12/15	02:29:52	02:40:53	00:09:32	-----	312-	25-	79-	39683
S3 (42)	21/12/15	02:55:42	03:07:22	00:11:39	00:14:49	206-	38-	64-	39649
T3 (25)	21/12/15	03:02:59	03:15:49	00:08:27	-----	306-	81-	123-	38512
R2 (38)	21/12/15	03:20:13	03:31:59	00:11:45	00:04:23	312-	36-	96-	40755
R3 (45)	21/12/15	03:23:37	03:35:29	00:03:30	-----	298-	48-	145-	39719
S4 (29)	21/12/15	03:28:16	03:40:30	00:05:01	-----	222-	63-	59-	39566
S1 (46)	21/12/15	03:29:43	03:42:00	00:01:29	-----	224-	67-	58-	39567
S2 (43)	21/12/15	04:03:24	04:15:46	00:12:21	00:21:25	239-	75-	53-	39655
R1 (47)	21/12/15	04:13:35	04:25:56	00:10:10	-----	307-	72-	120-	39684
S3 (42)	21/12/15	04:39:10	04:51:16	00:12:05	00:13:14	255-	47-	50-	39650
T3 (25)	21/12/15	04:48:21	04:58:45	00:07:29	-----	283-	20-	174-	38513
R2 (38)	21/12/15	05:03:57	05:16:06	00:12:09	00:05:11	300-	56-	141-	40756
R3 (45)	21/12/15	05:10:15	05:14:05	00:02:00	-----	249-	6-	219-	39720
S4 (29)	21/12/15	05:12:33	05:24:12	00:10:06	-----	267-	34-	48-	39567
S1 (46)	21/12/15	05:14:05	05:25:40	00:01:28	-----	269-	33-	48-	39568
S2 (43)	21/12/15	05:48:25	05:59:28	00:11:03	00:22:44	281-	25-	49-	39656
R1 (47)	21/12/15	05:57:56	06:08:19	00:08:51	-----	285-	22-	170-	39685
S3 (42)	21/12/15	06:24:36	06:35:10	00:10:34	00:16:16	293-	21-	51-	39651
R2 (38)	21/12/15	06:50:02	06:55:57	00:05:55	00:14:51	261-	8-	206-	40757
S4 (29)	21/12/15	06:58:05	07:08:26	00:10:20	00:02:07	301-	20-	56-	39568
S1 (46)	21/12/15	06:59:37	07:09:57	00:01:31	-----	302-	20-	56-	39569
S2 (43)	21/12/15	07:33:47	07:44:12	00:10:25	00:23:49	308-	20-	64-	39657
T4 (44)	21/12/15	07:45:01	07:51:55	00:06:54	00:00:48	163-	10-	95-	39536
K6 (26)	21/12/15	08:08:48	08:15:56	00:07:07	00:16:53	165-	10-	94-	39581
S3 (42)	21/12/15	08:09:33	08:20:22	00:04:26	-----	311-	23-	74-	39652
T1 (28)	21/12/15	08:19:55	08:30:09	00:09:46	-----	189-	21-	74-	39449
S4 (29)	21/12/15	08:42:37	08:53:54	00:11:16	00:12:28	312-	28-	85-	39569
S1 (46)	21/12/15	08:44:06	08:55:27	00:01:32	-----	312-	29-	86-	39570
T2 (40)	21/12/15	08:51:40	09:03:15	00:07:47	-----	205-	36-	65-	39534
S2 (43)	21/12/15	09:17:51	09:29:43	00:11:52	00:14:36	312-	39-	99-	39658
T4 (44)	21/12/15	09:25:21	09:37:36	00:07:52	-----	222-	63-	59-	39537
K6 (26)	21/12/15	09:48:43	10:00:44	00:12:01	00:11:06	224-	67-	58-	39582
S3 (42)	21/12/15	09:53:20	10:05:37	00:04:52	-----	309-	59-	114-	39653
T1 (28)	21/12/15	10:02:12	10:14:33	00:08:56	-----	239-	74-	53-	39450
S4 (29)	21/12/15	10:26:17	10:38:41	00:12:23	00:11:44	305-	90-	127-	39570
S1 (46)	21/12/15	10:27:46	10:40:08	00:01:27	-----	304-	85-	129-	39571
T2 (40)	21/12/15	10:35:04	10:47:09	00:07:00	-----	254-	48-	50-	39535
S2 (43)	21/12/15	11:01:36	11:13:40	00:12:03	00:14:27	299-	50-	144-	39659
T4 (44)	21/12/15	11:09:38	11:21:18	00:07:38	-----	267-	34-	48-	39538
K6 (26)	21/12/15	11:32:22	11:43:43	00:11:20	00:11:03	269-	32-	48-	39583
S3 (42)	21/12/15	11:37:27	11:48:31	00:04:48	-----	290-	27-	162-	39654
T1 (28)	21/12/15	11:47:14	11:58:15	00:09:44	-----	281-	25-	49-	39451
S4 (29)	21/12/15	12:11:03	12:20:21	00:09:18	00:12:47	279-	16-	180-	39571
S1 (46)	21/12/15	12:12:38	12:21:38	00:01:17	-----	277-	15-	184-	39572
T2 (40)	21/12/15	12:20:29	12:31:03	00:09:24	-----	292-	21-	51-	39536
S2 (43)	21/12/15	12:48:16	12:52:50	00:04:34	00:17:12	253-	7-	215-	39660
T4 (44)	21/12/15	12:55:10	13:05:32	00:10:21	00:02:19	300-	20-	56-	39539
K6 (26)	21/12/15	13:17:12	13:27:15	00:10:03	00:11:39	302-	19-	55-	39584
T1 (28)	21/12/15	13:32:35	13:43:00	00:10:24	00:05:20	308-	20-	64-	39452

Satellite	Date	AOS Time	LOS Time	Duration	Interval Between	AOS Az	Max EI	LOS Az	Orbit num.
K9 (39)	21/12/15	13:47:40	13:55:56	00:08:15	00:04:40	172-	13-	88-	38565
T2 (40)	21/12/15	14:05:28	14:16:13	00:10:45	00:09:32	311-	23-	74-	39537
K7 (37)	21/12/15	14:20:27	14:30:58	00:10:30	00:04:14	189-	23-	73-	38565
T4 (44)	21/12/15	14:39:43	14:51:00	00:11:16	00:08:44	312-	28-	85-	39540
K3 (33)	21/12/15	14:54:32	15:06:17	00:11:45	00:03:32	208-	40-	64-	38566
K6 (26)	21/12/15	15:00:59	15:12:01	00:05:43	-----	313-	27-	85-	39585
T1 (28)	21/12/15	15:16:39	15:28:30	00:11:51	00:04:38	312-	39-	99-	39453
K9 (39)	21/12/15	15:28:45	15:41:05	00:12:20	00:00:14	228-	75-	57-	38566
T2 (40)	21/12/15	15:49:15	16:01:29	00:12:14	00:08:09	309-	58-	113-	39538
K7 (37)	21/12/15	16:02:55	16:15:16	00:12:21	00:01:26	242-	69-	53-	38566
K4 (24)	21/12/15	16:19:11	16:31:10	00:11:59	00:03:54	213-	46-	62-	38716
T4 (44)	21/12/15	16:23:23	16:35:46	00:04:35	-----	305-	90-	127-	39541
K3 (33)	21/12/15	16:38:06	16:50:09	00:12:02	00:02:19	256-	45-	50-	38567
K6 (26)	21/12/15	16:43:56	16:56:03	00:05:53	-----	305-	89-	127-	39586
T1 (28)	21/12/15	17:00:25	17:12:26	00:12:01	00:04:21	298-	50-	144-	39454
K9 (39)	21/12/15	17:13:17	17:24:45	00:11:28	00:00:50	271-	31-	48-	38567
T2 (40)	21/12/15	17:33:20	17:44:27	00:11:06	00:08:34	290-	28-	161-	39539
R3 (45)	21/12/15	17:45:25	17:52:23	00:06:58	00:00:58	164-	10-	95-	39728
K7 (37)	21/12/15	17:48:01	17:59:00	00:06:36	-----	283-	25-	49-	38567
K4 (24)	21/12/15	18:03:07	18:15:03	00:11:55	00:04:07	259-	41-	49-	38717
T4 (44)	21/12/15	18:08:08	18:17:29	00:02:25	-----	279-	16-	181-	39542
K3 (33)	21/12/15	18:23:33	18:34:05	00:10:31	00:06:04	294-	21-	52-	38568
K6 (26)	21/12/15	18:28:02	18:36:58	00:02:53	-----	278-	15-	182-	39587
T1 (28)	21/12/15	18:47:07	18:51:32	00:04:25	00:10:08	253-	7-	215-	39455
K9 (39)	21/12/15	18:58:48	19:09:08	00:10:19	00:07:15	303-	20-	58-	38568
T3 (25)	21/12/15	19:16:18	19:28:16	00:11:57	00:07:10	204-	36-	65-	38522
R3 (45)	21/12/15	19:25:37	19:37:42	00:09:26	-----	223-	65-	58-	39729
R2 (38)	21/12/15	19:28:38	19:34:57	00:02:04	-----	159-	9-	99-	40765
K7 (37)	21/12/15	19:33:20	19:43:48	00:08:50	-----	308-	21-	65-	38568
K4 (24)	21/12/15	19:48:45	19:59:09	00:10:23	00:04:57	296-	20-	52-	38718
K3 (33)	21/12/15	20:08:29	20:19:19	00:10:50	00:09:19	311-	23-	75-	38569
R1 (47)	21/12/15	20:19:14	20:30:11	00:10:52	-----	195-	26-	70-	39694
K9 (39)	21/12/15	20:43:11	20:54:39	00:11:27	00:13:00	312-	30-	89-	38569
T3 (25)	21/12/15	21:00:30	21:13:04	00:12:34	00:05:50	252-	50-	51-	38523
R2 (38)	21/12/15	21:08:40	21:20:52	00:07:47	-----	220-	58-	59-	40766
R3 (45)	21/12/15	21:09:39	21:21:07	00:00:14	-----	268-	33-	48-	39730
K7 (37)	21/12/15	21:17:21	21:29:18	00:08:10	-----	311-	41-	101-	38569
K4 (24)	21/12/15	21:33:40	21:44:33	00:10:53	00:04:22	312-	24-	78-	38719
K3 (33)	21/12/15	21:52:14	22:04:31	00:12:17	00:07:41	308-	62-	115-	38570
R1 (47)	21/12/15	22:02:02	22:14:21	00:09:49	-----	246-	61-	52-	39695
K9 (39)	21/12/15	22:26:52	22:39:12	00:12:20	00:12:31	303-	77-	132-	38570
T3 (25)	21/12/15	22:46:45	22:57:51	00:11:06	00:07:32	290-	23-	52-	38524
R2 (38)	21/12/15	22:52:51	23:04:35	00:06:43	-----	265-	35-	49-	40767
R3 (45)	21/12/15	22:54:54	23:05:04	00:00:28	-----	301-	19-	55-	39731
K7 (37)	21/12/15	23:01:09	23:13:06	00:08:02	-----	297-	46-	146-	38570
K4 (24)	21/12/15	23:17:28	23:29:43	00:12:14	00:04:22	307-	70-	119-	38720
K3 (33)	21/12/15	23:36:24	23:47:18	00:10:53	00:06:41	289-	26-	164-	38571
R1 (47)	21/12/15	23:47:15	23:58:06	00:10:48	-----	286-	23-	49-	39696
K9 (39)	21/12/16	00:12:00	00:20:20	00:08:20	00:13:52	273-	13-	189-	38571
T3 (25)	21/12/16	00:32:38	00:43:54	00:11:16	00:12:17	310-	24-	75-	38525

Satellite	Date	AOS Time	LOS Time	Duration	Interval Between	AOS Az	Max El	LOS Az	Orbit num.
R2 (38)	21/12/16	00:38:23	00:48:45	00:04:51	-----	300-	20-	55-	40768
R3 (45)	21/12/16	00:39:07	00:50:15	00:01:29	-----	313-	28-	85-	39732
K4 (24)	21/12/16	01:01:54	01:12:15	00:10:21	00:11:39	286-	22-	170-	38721
S2 (43)	21/12/16	01:25:43	01:32:59	00:07:15	00:13:27	165-	10-	93-	39668
R1 (47)	21/12/16	01:32:29	01:43:02	00:10:03	-----	309-	21-	68-	39697
S3 (42)	21/12/16	01:59:25	02:09:41	00:10:15	00:16:22	186-	21-	74-	39663
T3 (25)	21/12/16	02:17:18	02:30:02	00:12:43	00:07:37	309-	59-	113-	38526
R3 (45)	21/12/16	02:22:30	02:34:43	00:04:41	-----	305-	89-	127-	39733
R2 (38)	21/12/16	02:23:00	02:34:11	00:00:03	-----	312-	27-	83-	40769
S4 (29)	21/12/16	02:31:34	02:43:06	00:08:54	-----	204-	35-	65-	39580
S1 (46)	21/12/16	02:32:56	02:44:35	00:01:29	-----	206-	38-	64-	39581
S2 (43)	21/12/16	03:06:16	03:18:31	00:12:15	00:21:40	224-	66-	58-	39669
R1 (47)	21/12/16	03:16:25	03:28:29	00:09:57	-----	311-	45-	105-	39698
S3 (42)	21/12/16	03:41:43	03:54:05	00:12:21	00:13:14	240-	74-	53-	39664
T3 (25)	21/12/16	04:02:16	04:13:51	00:11:35	00:08:10	291-	29-	161-	38527
R2 (38)	21/12/16	04:06:40	04:19:03	00:05:11	-----	306-	85-	125-	40770
R3 (45)	21/12/16	04:07:00	04:16:04	00:02:05	-----	278-	16-	181-	39734
S4 (29)	21/12/16	04:14:55	04:27:02	00:10:57	-----	253-	49-	50-	39581
S1 (46)	21/12/16	04:16:24	04:28:29	00:01:26	-----	254-	47-	50-	39582
S2 (43)	21/12/16	04:50:36	05:02:13	00:11:36	00:22:07	268-	33-	48-	39670
R1 (47)	21/12/16	05:00:17	05:12:03	00:09:49	-----	295-	39-	151-	39699
S3 (42)	21/12/16	05:26:45	05:37:47	00:11:02	00:14:42	281-	25-	49-	39665
R2 (38)	21/12/16	05:51:18	06:00:56	00:09:38	00:13:30	281-	17-	178-	40771
S4 (29)	21/12/16	06:00:18	06:10:55	00:09:58	-----	291-	22-	51-	39582
S1 (46)	21/12/16	06:01:49	06:12:23	00:01:28	-----	293-	21-	51-	39583
S2 (43)	21/12/16	06:36:08	06:46:28	00:10:20	00:23:44	301-	20-	56-	39671
S3 (42)	21/12/16	07:12:06	07:22:32	00:10:26	00:25:37	308-	20-	64-	39666
T1 (28)	21/12/16	07:24:30	07:31:49	00:07:19	00:01:57	165-	11-	93-	39463
S4 (29)	21/12/16	07:45:19	07:56:04	00:10:44	00:13:29	311-	23-	73-	39583
S1 (46)	21/12/16	07:46:46	07:57:35	00:01:31	-----	311-	23-	74-	39584
T2 (40)	21/12/16	07:55:24	08:05:32	00:07:57	-----	188-	20-	75-	39548
S2 (43)	21/12/16	08:20:38	08:31:57	00:11:19	00:15:05	312-	28-	86-	39672
T4 (44)	21/12/16	08:28:38	08:40:10	00:08:13	-----	204-	35-	65-	39551
K6 (26)	21/12/16	08:42:38	08:53:43	00:11:04	00:02:27	201-	31-	67-	39596
S3 (42)	21/12/16	08:56:09	09:08:03	00:11:53	00:02:26	311-	39-	100-	39667
T1 (28)	21/12/16	09:05:05	09:17:20	00:09:16	-----	224-	66-	58-	39464
S4 (29)	21/12/16	09:29:07	09:41:21	00:12:14	00:11:46	309-	56-	112-	39584
S1 (46)	21/12/16	09:30:33	09:42:50	00:01:28	-----	309-	59-	114-	39585
T2 (40)	21/12/16	09:37:38	09:49:59	00:07:08	-----	239-	76-	53-	39549
S2 (43)	21/12/16	10:04:18	10:16:41	00:12:22	00:14:19	305-	87-	128-	39673
T4 (44)	21/12/16	10:11:58	10:24:07	00:07:25	-----	253-	49-	50-	39552
K6 (26)	21/12/16	10:25:05	10:37:01	00:11:56	00:00:57	251-	52-	50-	39597
S3 (42)	21/12/16	10:39:56	10:51:58	00:12:02	00:02:54	298-	49-	144-	39668
T1 (28)	21/12/16	10:49:26	11:01:01	00:09:03	-----	268-	33-	48-	39465
S4 (29)	21/12/16	11:13:10	11:24:24	00:11:14	00:12:09	291-	29-	160-	39585
S1 (46)	21/12/16	11:14:40	11:25:44	00:01:19	-----	290-	27-	162-	39586
T2 (40)	21/12/16	11:22:37	11:33:40	00:07:56	-----	281-	25-	49-	39550
S2 (43)	21/12/16	11:49:08	11:58:14	00:09:05	00:15:27	278-	15-	182-	39674
T4 (44)	21/12/16	11:57:22	12:08:00	00:09:45	-----	291-	22-	51-	39553
K6 (26)	21/12/16	12:09:42	12:20:07	00:10:24	00:01:43	290-	21-	49-	39598

Satellite	Date	AOS Time	LOS Time	Duration	Interval Between	AOS Az	Max EI	LOS Az	Orbit num.
S3 (42)	21/12/16	12:26:41	12:31:01	00:04:19	00:06:34	252-	7-	217-	39669
T1 (28)	21/12/16	12:34:58	12:45:17	00:10:19	00:03:57	301-	20-	56-	39466
T2 (40)	21/12/16	13:08:00	13:18:23	00:10:23	00:22:42	307-	20-	64-	39551
K7 (37)	21/12/16	13:24:52	13:32:46	00:07:54	00:06:28	169-	12-	90-	38579
T4 (44)	21/12/16	13:42:23	13:53:08	00:10:44	00:09:36	311-	23-	73-	39554
K6 (26)	21/12/16	13:54:05	14:04:28	00:10:22	00:00:57	311-	21-	70-	39599