

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

Satellite	Date	AOS Time	LOS Time	Duration	Interval Between	AOS Az	Max El	LOS Az	Orbit num.
S3 (42)	21/11/30	13:48:54	14:01:28	00:12:34	11:55:23	290-	74-	104-	39437
T1 (28)	21/11/30	14:02:13	14:11:35	00:09:22	00:00:44	185-	16-	83-	39234
S4 (29)	21/11/30	14:21:47	14:34:12	00:12:24	00:10:11	291-	89-	114-	39354
S1 (46)	21/11/30	14:23:41	14:36:05	00:01:52	-----	291-	85-	116-	39355
K6 (26)	21/11/30	14:32:51	14:42:21	00:06:16	-----	188-	18-	82-	39365
T2 (40)	21/11/30	14:34:07	14:45:05	00:02:43	-----	203-	27-	76-	39319
S2 (43)	21/11/30	14:57:21	15:09:36	00:12:14	00:12:16	291-	61-	128-	39443
T4 (44)	21/11/30	15:07:43	15:19:31	00:09:55	-----	217-	40-	72-	39322
S3 (42)	21/11/30	15:32:56	15:44:42	00:11:46	00:13:24	288-	40-	143-	39438
T1 (28)	21/11/30	15:43:50	15:56:05	00:11:23	-----	233-	64-	69-	39235
S4 (29)	21/11/30	16:05:51	16:16:51	00:11:00	00:09:45	283-	27-	157-	39355
S1 (46)	21/11/30	16:07:47	16:18:37	00:01:46	-----	282-	25-	159-	39356
K6 (26)	21/11/30	16:14:00	16:26:02	00:07:25	-----	235-	68-	69-	39366
T2 (40)	21/11/30	16:16:45	16:29:09	00:03:06	-----	245-	88-	69-	39320
S2 (43)	21/11/30	16:41:55	16:51:08	00:09:12	00:12:46	274-	16-	177-	39444
T4 (44)	21/11/30	16:51:02	17:03:25	00:12:17	-----	256-	73-	70-	39323
S3 (42)	21/11/30	17:18:43	17:24:24	00:05:40	00:15:18	257-	8-	205-	39439
T1 (28)	21/11/30	17:27:40	17:39:58	00:12:17	00:03:16	268-	60-	73-	39236
K6 (26)	21/11/30	17:57:12	18:09:11	00:11:58	00:17:14	269-	57-	73-	39367
T2 (40)	21/11/30	18:00:52	18:13:07	00:03:55	-----	276-	55-	78-	39321
T4 (44)	21/11/30	18:35:15	18:47:30	00:12:14	00:22:08	282-	55-	84-	39324
T1 (28)	21/11/30	19:11:52	19:24:11	00:12:18	00:24:22	288-	60-	94-	39237
K9 (39)	21/11/30	19:30:10	19:37:27	00:07:17	00:05:59	166-	10-	93-	38350
K6 (26)	21/11/30	19:40:42	19:52:39	00:11:57	00:03:14	288-	60-	95-	39368
T2 (40)	21/11/30	19:44:57	19:57:20	00:04:40	-----	290-	73-	104-	39322
K7 (37)	21/11/30	20:02:46	20:12:28	00:09:42	00:05:25	187-	18-	82-	38350
T4 (44)	21/11/30	20:19:13	20:31:37	00:12:23	00:06:45	291-	89-	114-	39325
K3 (33)	21/11/30	20:36:31	20:47:38	00:11:06	00:04:54	204-	28-	75-	38351
T1 (28)	21/11/30	20:55:45	21:07:59	00:12:14	00:08:06	291-	61-	128-	39238
K9 (39)	21/11/30	21:10:40	21:22:39	00:11:58	00:02:41	222-	47-	71-	38351
K6 (26)	21/11/30	21:23:52	21:35:40	00:11:47	00:01:13	290-	58-	130-	39369
T2 (40)	21/11/30	21:28:50	21:40:39	00:04:58	-----	288-	41-	142-	39323
K4 (24)	21/11/30	21:40:32	21:51:09	00:10:29	-----	198-	24-	77-	38501
K7 (37)	21/11/30	21:44:35	21:56:52	00:05:43	-----	235-	67-	69-	38351
T4 (44)	21/11/30	22:03:17	22:14:16	00:10:58	00:06:24	283-	27-	157-	39326
K3 (33)	21/11/30	22:19:16	22:31:39	00:12:23	00:05:00	247-	89-	69-	38352
T1 (28)	21/11/30	22:40:18	22:49:32	00:09:13	00:08:38	274-	16-	177-	39239
K9 (39)	21/11/30	22:54:10	23:06:31	00:12:21	00:04:37	260-	68-	71-	38352
K6 (26)	21/11/30	23:07:51	23:16:17	00:08:26	00:01:19	272-	14-	181-	39370
T2 (40)	21/11/30	23:14:30	23:20:31	00:04:13	-----	259-	8-	202-	39324
K4 (24)	21/11/30	23:23:05	23:35:23	00:12:17	00:02:34	243-	83-	69-	38502
K7 (37)	21/11/30	23:28:28	23:40:46	00:05:23	-----	269-	59-	74-	38352
T3 (25)	21/11/30	23:49:13	23:55:57	00:06:44	00:08:27	162-	9-	98-	38308
K3 (33)	21/12/01	00:03:24	00:15:38	00:12:14	00:07:27	277-	54-	79-	38353
R3 (45)	21/12/01	00:23:53	00:34:13	00:10:19	00:08:15	194-	22-	78-	39513
K9 (39)	21/12/01	00:38:24	00:50:39	00:12:15	00:04:10	284-	56-	87-	38353
K4 (24)	21/12/01	01:07:15	01:19:25	00:12:10	00:16:36	274-	55-	77-	38503
R2 (38)	21/12/01	01:11:34	01:16:47	00:02:03	-----	156-	7-	106-	40550

Satellite	Date	AOS Time	LOS Time	Duration	Interval Between	AOS Az	Max El	LOS Az	Orbit num.
K7 (37)	21/12/01	01:12:39	01:24:58	00:08:10	-----	288-	62-	95-	38353
T3 (25)	21/12/01	01:30:03	01:42:21	00:12:17	00:05:05	218-	43-	71-	38309
K3 (33)	21/12/01	01:47:29	01:59:51	00:12:22	00:05:07	291-	75-	105-	38354
R1 (47)	21/12/01	02:01:43	02:11:54	00:10:11	00:01:51	190-	20-	79-	39479
R3 (45)	21/12/01	02:05:54	02:18:08	00:06:13	-----	241-	79-	69-	39514
K9 (39)	21/12/01	02:22:20	02:34:41	00:12:21	00:04:11	291-	81-	118-	38354
R2 (38)	21/12/01	02:51:01	03:02:44	00:11:42	00:16:19	216-	38-	72-	40551
K4 (24)	21/12/01	02:51:27	03:03:45	00:01:00	-----	290-	69-	101-	38504
K7 (37)	21/12/01	02:56:32	03:08:43	00:04:57	-----	290-	58-	130-	38354
T3 (25)	21/12/01	03:14:15	03:27:06	00:12:50	00:05:32	257-	73-	70-	38310
K3 (33)	21/12/01	03:31:23	03:43:05	00:11:41	00:04:17	287-	38-	144-	38355
R1 (47)	21/12/01	03:43:50	03:56:10	00:12:20	00:00:44	238-	74-	69-	39480
R3 (45)	21/12/01	03:49:39	04:01:46	00:05:35	-----	273-	56-	76-	39515
K9 (39)	21/12/01	04:06:30	04:17:04	00:10:34	00:04:43	281-	23-	163-	38355
R2 (38)	21/12/01	04:34:15	04:46:39	00:12:23	00:17:11	255-	75-	70-	40552
K4 (24)	21/12/01	04:35:25	04:47:18	00:00:39	-----	289-	44-	139-	38505
K7 (37)	21/12/01	04:41:12	04:50:01	00:02:43	-----	272-	14-	180-	38355
T3 (25)	21/12/01	04:59:21	05:12:04	00:12:43	00:09:19	282-	56-	85-	38311
K3 (33)	21/12/01	05:17:21	05:22:35	00:05:13	00:05:16	255-	7-	208-	38356
R1 (47)	21/12/01	05:27:48	05:40:05	00:12:16	00:05:13	271-	57-	75-	39481
R3 (45)	21/12/01	05:33:30	05:45:43	00:05:37	-----	290-	67-	99-	39516
R2 (38)	21/12/01	06:18:28	06:30:42	00:12:14	00:32:45	282-	54-	83-	40553
K4 (24)	21/12/01	06:20:51	06:27:42	00:03:00	-----	263-	10-	197-	38506
T3 (25)	21/12/01	06:44:10	06:57:02	00:12:51	00:16:28	291-	86-	116-	38312
S2 (43)	21/12/01	07:08:34	07:14:51	00:06:16	00:11:32	162-	9-	101-	39453
R1 (47)	21/12/01	07:11:58	07:24:18	00:09:26	-----	289-	65-	98-	39482
R3 (45)	21/12/01	07:17:05	07:28:57	00:04:39	-----	289-	48-	136-	39517
S3 (42)	21/12/01	07:42:01	07:51:30	00:09:28	00:13:03	185-	17-	83-	39448
R2 (38)	21/12/01	08:02:27	08:14:51	00:12:23	00:10:57	291-	89-	113-	40554
S4 (29)	21/12/01	08:13:48	08:24:40	00:09:49	-----	199-	26-	76-	39365
S1 (46)	21/12/01	08:15:33	08:26:34	00:01:54	-----	201-	27-	75-	39366
T3 (25)	21/12/01	08:29:07	08:40:27	00:11:19	00:02:32	283-	26-	158-	38313
S2 (43)	21/12/01	08:48:34	09:00:25	00:11:51	00:08:06	219-	42-	71-	39454
R1 (47)	21/12/01	08:55:50	09:07:55	00:07:29	-----	290-	52-	134-	39483
R3 (45)	21/12/01	09:01:55	09:09:19	00:01:24	-----	266-	11-	192-	39518
S3 (42)	21/12/01	09:23:42	09:35:59	00:12:16	00:14:23	233-	64-	69-	39449
R2 (38)	21/12/01	09:46:29	09:57:35	00:11:06	00:10:30	284-	28-	155-	40555
S4 (29)	21/12/01	09:56:21	10:08:45	00:11:09	-----	245-	86-	69-	39366
S1 (46)	21/12/01	09:58:13	10:10:37	00:01:52	-----	246-	89-	69-	39367
S2 (43)	21/12/01	10:31:55	10:44:18	00:12:23	00:21:17	257-	72-	70-	39455
R1 (47)	21/12/01	10:40:45	10:48:50	00:04:32	-----	269-	12-	187-	39484
S3 (42)	21/12/01	11:07:33	11:19:52	00:12:18	00:18:42	268-	60-	73-	39450
S4 (29)	21/12/01	11:40:27	11:52:43	00:12:15	00:20:35	275-	55-	78-	39367
S1 (46)	21/12/01	11:42:20	11:54:36	00:01:52	-----	276-	55-	78-	39368
S2 (43)	21/12/01	12:16:08	12:28:24	00:12:15	00:21:32	283-	55-	85-	39456
S3 (42)	21/12/01	12:51:45	13:04:04	00:12:19	00:23:20	288-	61-	94-	39451
T1 (28)	21/12/01	13:07:00	13:13:16	00:06:16	00:02:55	162-	9-	101-	39248
S4 (29)	21/12/01	13:24:33	13:36:56	00:12:23	00:11:17	290-	71-	103-	39368
S1 (46)	21/12/01	13:26:25	13:38:49	00:01:52	-----	290-	74-	104-	39369
K6 (26)	21/12/01	13:28:38	13:34:10	00:04:03	-----	159-	8-	105-	39379

Satellite	Date	AOS Time	LOS Time	Duration	Interval Between	AOS Az	Max EI	LOS Az	Orbit num.
T2 (40)	21/12/01	13:38:03	13:47:22	00:09:19	00:03:52	184-	16-	84-	39333
S2 (43)	21/12/01	14:00:06	14:12:30	00:12:23	00:12:43	291-	87-	115-	39457
T4 (44)	21/12/01	14:11:12	14:22:04	00:09:34	-----	199-	26-	76-	39336
S3 (42)	21/12/01	14:35:37	14:47:51	00:12:13	00:13:32	291-	61-	129-	39452
T1 (28)	21/12/01	14:46:59	14:58:49	00:10:57	-----	219-	42-	71-	39249
K6 (26)	21/12/01	15:07:39	15:19:12	00:11:32	00:08:50	217-	40-	72-	39380
S4 (29)	21/12/01	15:08:26	15:20:18	00:01:05	-----	288-	42-	141-	39369
S1 (46)	21/12/01	15:10:19	15:22:05	00:01:47	-----	288-	40-	143-	39370
T2 (40)	21/12/01	15:19:39	15:31:53	00:09:47	-----	232-	63-	69-	39334
S2 (43)	21/12/01	15:44:11	15:55:05	00:10:53	00:12:17	283-	26-	158-	39458
T4 (44)	21/12/01	15:53:46	16:06:10	00:11:04	-----	245-	86-	69-	39337
S3 (42)	21/12/01	16:20:12	16:29:20	00:09:08	00:14:02	274-	15-	178-	39453
T1 (28)	21/12/01	16:30:20	16:42:42	00:12:22	00:01:00	257-	71-	70-	39250
K6 (26)	21/12/01	16:50:16	17:02:22	00:12:06	00:07:33	256-	72-	69-	39381
S4 (29)	21/12/01	16:54:00	17:00:19	00:02:02	-----	260-	9-	200-	39370
S1 (46)	21/12/01	16:56:06	17:01:48	00:01:28	-----	257-	8-	205-	39371
T2 (40)	21/12/01	17:03:28	17:15:46	00:12:18	00:01:40	267-	60-	73-	39335
T4 (44)	21/12/01	17:37:52	17:50:07	00:12:15	00:22:05	275-	55-	78-	39338
T1 (28)	21/12/01	18:14:33	18:26:48	00:12:14	00:24:26	283-	55-	85-	39251
K6 (26)	21/12/01	18:33:48	18:45:42	00:11:54	00:06:59	282-	53-	83-	39382
T2 (40)	21/12/01	18:47:40	18:59:58	00:12:18	00:01:57	287-	60-	93-	39336
K7 (37)	21/12/01	19:07:22	19:14:17	00:06:54	00:07:23	165-	10-	97-	38364
T4 (44)	21/12/01	19:21:58	19:34:20	00:12:22	00:07:41	290-	71-	103-	39339
K3 (33)	21/12/01	19:40:23	19:50:00	00:09:37	00:06:02	187-	17-	82-	38365
T1 (28)	21/12/01	19:58:31	20:10:54	00:12:23	00:08:30	291-	87-	115-	39252
K9 (39)	21/12/01	20:14:04	20:25:17	00:11:13	00:03:09	205-	30-	74-	38365
K6 (26)	21/12/01	20:17:04	20:29:06	00:03:49	-----	292-	89-	113-	39383
T2 (40)	21/12/01	20:31:32	20:43:47	00:12:14	00:02:26	291-	62-	128-	39337
K4 (24)	21/12/01	20:45:56	20:54:48	00:08:52	00:02:08	181-	15-	86-	38515
K7 (37)	21/12/01	20:47:41	20:59:36	00:04:48	-----	221-	45-	71-	38365
T4 (44)	21/12/01	21:05:51	21:17:42	00:11:50	00:06:14	288-	42-	141-	39340
K3 (33)	21/12/01	21:22:09	21:34:26	00:12:16	00:04:27	234-	66-	69-	38366
T1 (28)	21/12/01	21:42:36	21:53:29	00:10:53	00:08:09	283-	26-	158-	39253
K9 (39)	21/12/01	21:56:53	22:09:17	00:12:23	00:03:23	249-	86-	69-	38366
K6 (26)	21/12/01	22:00:25	22:11:05	00:01:48	-----	283-	27-	156-	39384
T2 (40)	21/12/01	22:16:04	22:25:23	00:09:18	00:04:59	275-	16-	176-	39338
K4 (24)	21/12/01	22:27:25	22:39:32	00:12:06	00:02:02	230-	59-	69-	38516
K7 (37)	21/12/01	22:31:07	22:43:29	00:03:57	-----	259-	69-	70-	38366
T4 (44)	21/12/01	22:51:24	22:57:43	00:06:19	00:07:54	260-	9-	201-	39341
K3 (33)	21/12/01	23:06:02	23:18:19	00:12:17	00:08:19	269-	59-	74-	38367
R3 (45)	21/12/01	23:24:27	23:32:26	00:07:58	00:06:07	174-	12-	91-	39527
K9 (39)	21/12/01	23:41:03	23:53:17	00:12:14	00:08:37	278-	54-	80-	38367
K4 (24)	21/12/02	00:11:17	00:23:30	00:12:13	00:18:00	266-	61-	72-	38517
K7 (37)	21/12/02	00:15:21	00:27:36	00:04:05	-----	284-	55-	86-	38367
T3 (25)	21/12/02	00:44:47	00:56:32	00:11:44	00:17:11	206-	32-	73-	38323
K3 (33)	21/12/02	00:50:14	01:02:32	00:06:00	-----	288-	61-	95-	38368
R3 (45)	21/12/02	01:05:06	01:17:03	00:11:57	00:02:34	226-	52-	70-	39528
R1 (47)	21/12/02	01:06:01	01:13:55	00:03:08	-----	172-	12-	91-	39493
K9 (39)	21/12/02	01:25:06	01:37:29	00:12:22	00:11:10	291-	77-	106-	38368
R2 (38)	21/12/02	01:54:34	02:05:16	00:10:42	00:17:04	197-	24-	77-	40565

Satellite	Date	AOS Time	LOS Time	Duration	Interval Between	AOS Az	Max EI	LOS Az	Orbit num.
K4 (24)	21/12/02	01:55:34	02:07:47	00:02:31	-----	287-	59-	92-	38518
K7 (37)	21/12/02	01:59:18	02:11:40	00:03:52	-----	291-	83-	117-	38368
T3 (25)	21/12/02	02:28:31	02:41:23	00:12:52	00:16:50	249-	85-	69-	38324
K3 (33)	21/12/02	02:34:06	02:46:17	00:04:54	-----	290-	59-	130-	38369
R1 (47)	21/12/02	02:46:50	02:58:55	00:12:04	00:00:32	225-	50-	70-	39494
R3 (45)	21/12/02	02:48:26	03:00:38	00:01:43	-----	263-	64-	71-	39529
K9 (39)	21/12/02	03:09:01	03:20:38	00:11:37	00:08:23	287-	36-	146-	38369
R2 (38)	21/12/02	03:37:00	03:49:24	00:12:23	00:16:22	243-	83-	69-	40566
K4 (24)	21/12/02	03:39:32	03:51:46	00:02:22	-----	291-	66-	126-	38519
K7 (37)	21/12/02	03:43:25	03:54:08	00:02:21	-----	282-	24-	161-	38369
T3 (25)	21/12/02	04:13:33	04:26:16	00:12:43	00:19:24	278-	55-	81-	38325
K3 (33)	21/12/02	04:18:45	04:27:41	00:01:25	-----	273-	15-	180-	38370
R1 (47)	21/12/02	04:30:26	04:42:47	00:12:21	00:02:44	262-	66-	71-	39495
R3 (45)	21/12/02	04:32:23	04:44:30	00:01:43	-----	285-	56-	89-	39530
K9 (39)	21/12/02	04:55:17	04:59:46	00:04:29	00:10:46	251-	7-	213-	38370
R2 (38)	21/12/02	05:21:05	05:33:20	00:12:14	00:21:18	274-	55-	77-	40567
K4 (24)	21/12/02	05:24:04	05:33:38	00:00:18	-----	276-	17-	174-	38520
T3 (25)	21/12/02	05:58:28	06:11:20	00:12:52	00:24:49	291-	80-	108-	38326
R1 (47)	21/12/02	06:14:39	06:26:55	00:12:15	00:03:19	285-	56-	88-	39496
R3 (45)	21/12/02	06:16:00	06:28:12	00:01:16	-----	291-	74-	121-	39531
S3 (42)	21/12/02	06:46:45	06:53:10	00:06:25	00:18:33	163-	9-	100-	39462
R2 (38)	21/12/02	07:05:12	07:17:33	00:12:21	00:12:01	290-	69-	101-	40568
S4 (29)	21/12/02	07:17:45	07:26:57	00:09:11	00:00:11	183-	16-	84-	39379
S1 (46)	21/12/02	07:19:24	07:28:53	00:01:56	-----	185-	17-	83-	39380
T3 (25)	21/12/02	07:43:15	07:55:16	00:12:00	00:14:22	287-	36-	147-	38327
S2 (43)	21/12/02	07:52:01	08:02:59	00:07:42	-----	200-	27-	75-	39468
R1 (47)	21/12/02	07:58:34	08:10:55	00:07:56	-----	291-	76-	121-	39497
R3 (45)	21/12/02	08:00:00	08:10:04	00:00:05	-----	279-	20-	167-	39532
S3 (42)	21/12/02	08:26:49	08:38:41	00:11:52	00:16:44	219-	42-	71-	39463
R2 (38)	21/12/02	08:49:05	09:00:59	00:11:54	00:10:23	289-	44-	139-	40569
S4 (29)	21/12/02	08:59:16	09:11:31	00:10:32	-----	232-	61-	69-	39380
S1 (46)	21/12/02	09:01:05	09:13:22	00:01:50	-----	233-	64-	69-	39381
T3 (25)	21/12/02	09:30:34	09:34:57	00:04:22	00:17:12	250-	7-	215-	38328
S2 (43)	21/12/02	09:34:38	09:47:03	00:12:06	-----	246-	88-	69-	39469
R1 (47)	21/12/02	09:42:49	09:53:07	00:06:03	-----	280-	21-	166-	39498
S3 (42)	21/12/02	10:10:11	10:22:34	00:12:23	00:17:04	258-	71-	70-	39464
R2 (38)	21/12/02	10:34:26	10:41:16	00:06:49	00:11:51	263-	10-	197-	40570
S4 (29)	21/12/02	10:43:04	10:55:24	00:12:19	00:01:48	267-	61-	73-	39381
S1 (46)	21/12/02	10:44:56	10:57:15	00:01:50	-----	268-	60-	73-	39382
S2 (43)	21/12/02	11:18:45	11:31:01	00:12:15	00:21:30	276-	55-	78-	39470
S3 (42)	21/12/02	11:54:24	12:06:40	00:12:15	00:23:23	283-	55-	85-	39465
S4 (29)	21/12/02	12:27:16	12:39:35	00:12:18	00:20:36	287-	60-	93-	39382
S1 (46)	21/12/02	12:29:07	12:41:27	00:01:51	-----	288-	61-	94-	39383
T2 (40)	21/12/02	12:42:52	12:48:58	00:06:05	00:01:25	161-	9-	102-	39347
S2 (43)	21/12/02	13:02:50	13:15:14	00:12:23	00:13:52	290-	73-	104-	39471
T4 (44)	21/12/02	13:15:09	13:24:20	00:09:06	-----	183-	16-	84-	39350
S3 (42)	21/12/02	13:38:22	13:50:46	00:12:23	00:14:01	291-	86-	116-	39466
T1 (28)	21/12/02	13:50:28	14:01:24	00:10:38	-----	200-	27-	75-	39263
K6 (26)	21/12/02	14:01:52	14:12:07	00:10:15	00:00:27	196-	22-	78-	39394
S4 (29)	21/12/02	14:11:09	14:23:26	00:11:18	-----	291-	64-	127-	39383

Satellite	Date	AOS Time	LOS Time	Duration	Interval Between	AOS Az	Max EI	LOS Az	Orbit num.
S1 (46)	21/12/02	14:13:00	14:25:14	00:01:48	-----	291-	61-	129-	39384
T2 (40)	21/12/02	14:22:46	14:34:35	00:09:21	-----	218-	41-	72-	39348
S2 (43)	21/12/02	14:46:44	14:58:33	00:11:48	00:12:09	288-	41-	142-	39472
T4 (44)	21/12/02	14:56:40	15:08:54	00:10:21	-----	231-	61-	69-	39351
S3 (42)	21/12/02	15:22:28	15:33:19	00:10:51	00:13:33	283-	25-	158-	39467
T1 (28)	21/12/02	15:33:05	15:45:28	00:12:09	-----	246-	88-	69-	39264
K6 (26)	21/12/02	15:43:29	15:55:36	00:10:07	-----	241-	79-	68-	39395
S4 (29)	21/12/02	15:55:39	16:05:06	00:09:26	00:00:03	275-	17-	175-	39384
S1 (46)	21/12/02	15:57:35	16:06:43	00:01:37	-----	274-	15-	178-	39385
T2 (40)	21/12/02	16:06:06	16:18:29	00:11:45	-----	257-	72-	70-	39349
S2 (43)	21/12/02	16:32:25	16:38:23	00:05:57	00:13:56	259-	8-	203-	39473
T4 (44)	21/12/02	16:40:28	16:52:47	00:12:19	00:02:04	267-	61-	73-	39352
T1 (28)	21/12/02	17:17:12	17:29:27	00:12:14	00:24:25	276-	55-	78-	39265
K6 (26)	21/12/02	17:26:49	17:38:47	00:09:20	-----	273-	55-	75-	39396
T2 (40)	21/12/02	17:50:19	18:02:34	00:12:14	00:11:32	283-	55-	85-	39350
T4 (44)	21/12/02	18:24:40	18:36:58	00:12:18	00:22:05	287-	60-	93-	39353
K3 (33)	21/12/02	18:45:02	18:51:48	00:06:45	00:08:04	164-	10-	98-	38379
T1 (28)	21/12/02	19:01:17	19:13:40	00:12:22	00:09:29	290-	73-	104-	39266
K6 (26)	21/12/02	19:10:16	19:22:16	00:08:36	-----	290-	65-	99-	39397
K9 (39)	21/12/02	19:17:51	19:27:41	00:05:24	-----	186-	18-	81-	38379
T2 (40)	21/12/02	19:34:17	19:46:41	00:12:23	00:06:35	291-	87-	115-	39351
K7 (37)	21/12/02	19:51:06	20:02:13	00:11:07	00:04:25	203-	29-	75-	38379
K4 (24)	21/12/02	19:52:20	19:57:40	00:04:03	-----	158-	8-	106-	38529
T4 (44)	21/12/02	20:08:33	20:20:48	00:12:15	00:10:52	291-	64-	127-	39354
K3 (33)	21/12/02	20:25:17	20:37:11	00:11:54	00:04:28	220-	44-	71-	38380
T1 (28)	21/12/02	20:45:11	20:56:59	00:11:48	00:08:00	288-	41-	142-	39267
K6 (26)	21/12/02	20:53:27	21:05:06	00:08:06	-----	289-	48-	136-	39398
K9 (39)	21/12/02	20:59:45	21:12:03	00:06:57	-----	236-	69-	69-	38380
T2 (40)	21/12/02	21:18:21	21:29:17	00:10:56	00:06:17	283-	26-	157-	39352
K4 (24)	21/12/02	21:31:59	21:43:38	00:11:39	00:02:41	216-	39-	72-	38530
K7 (37)	21/12/02	21:33:51	21:46:15	00:02:36	-----	247-	88-	69-	38380
T4 (44)	21/12/02	21:53:02	22:02:27	00:09:24	00:06:47	275-	17-	175-	39355
K3 (33)	21/12/02	22:08:42	22:21:04	00:12:21	00:06:14	258-	70-	70-	38381
T1 (28)	21/12/02	22:30:53	22:36:49	00:05:56	00:09:48	259-	8-	203-	39268
K6 (26)	21/12/02	22:37:51	22:45:04	00:07:13	00:01:02	266-	11-	192-	39399
K9 (39)	21/12/02	22:43:40	22:55:57	00:10:52	-----	270-	58-	74-	38381
K4 (24)	21/12/02	23:15:20	23:27:38	00:12:17	00:19:23	256-	74-	70-	38531
K7 (37)	21/12/02	23:18:00	23:30:14	00:02:36	-----	277-	54-	79-	38381
K3 (33)	21/12/02	23:52:56	00:05:10	00:12:14	00:22:41	283-	55-	86-	38382
T3 (25)	21/12/02	23:59:41	00:10:38	00:05:27	-----	194-	23-	77-	38337
R3 (45)	21/12/03	00:04:39	00:15:52	00:05:14	-----	207-	32-	73-	39542
K9 (39)	21/12/03	00:27:50	00:40:10	00:12:19	00:11:58	288-	63-	96-	38382
R2 (38)	21/12/03	00:58:35	01:07:29	00:08:54	00:18:25	180-	15-	86-	40579
K4 (24)	21/12/03	00:59:39	01:11:48	00:04:19	-----	282-	54-	84-	38532
K7 (37)	21/12/03	01:02:04	01:14:26	00:02:38	-----	291-	75-	105-	38382
K3 (33)	21/12/03	01:36:52	01:49:15	00:12:22	00:22:25	291-	84-	117-	38383
T3 (25)	21/12/03	01:42:50	01:55:40	00:06:25	-----	241-	80-	69-	38338
R3 (45)	21/12/03	01:47:18	01:59:34	00:03:53	-----	250-	83-	69-	39543
R1 (47)	21/12/03	01:50:09	02:01:33	00:01:59	-----	208-	32-	73-	39508
K9 (39)	21/12/03	02:11:43	02:23:52	00:12:09	00:10:09	290-	56-	131-	38383

Satellite	Date	AOS Time	LOS Time	Duration	Interval Between	AOS Az	Max EI	LOS Az	Orbit num.
R2 (38)	21/12/03	02:39:56	02:52:08	00:12:12	00:16:04	230-	58-	69-	40580
K4 (24)	21/12/03	02:43:42	02:56:02	00:03:54	-----	291-	90-	114-	38533
K7 (37)	21/12/03	02:45:58	02:57:40	00:01:37	-----	287-	38-	144-	38383
K3 (33)	21/12/03	03:21:00	03:31:45	00:10:45	00:23:19	282-	24-	160-	38384
T3 (25)	21/12/03	03:27:44	03:40:28	00:08:43	-----	273-	57-	76-	38339
R3 (45)	21/12/03	03:31:12	03:43:17	00:02:49	-----	279-	54-	80-	39544
R1 (47)	21/12/03	03:33:07	03:45:31	00:02:13	-----	251-	82-	69-	39509
K9 (39)	21/12/03	03:56:27	04:05:06	00:08:38	00:10:55	272-	14-	183-	38384
R2 (38)	21/12/03	04:23:41	04:36:00	00:12:19	00:18:35	265-	62-	72-	40581
K4 (24)	21/12/03	04:27:50	04:38:52	00:02:51	-----	284-	27-	156-	38534
K7 (37)	21/12/03	04:31:59	04:37:06	00:01:04	-----	254-	7-	209-	38384
T3 (25)	21/12/03	05:12:44	05:25:34	00:12:50	00:35:37	289-	69-	100-	38340
R3 (45)	21/12/03	05:14:57	05:27:12	00:01:37	-----	291-	79-	108-	39545
R1 (47)	21/12/03	05:17:18	05:29:32	00:02:20	-----	279-	54-	81-	39510
R2 (38)	21/12/03	06:07:54	06:20:11	00:12:17	00:38:21	287-	59-	92-	40582
S4 (29)	21/12/03	06:22:42	06:28:29	00:05:47	00:02:31	159-	8-	104-	39393
S1 (46)	21/12/03	06:24:08	06:30:33	00:02:03	-----	162-	9-	100-	39394
S2 (43)	21/12/03	06:55:54	07:05:17	00:09:22	00:25:21	184-	16-	83-	39482
T3 (25)	21/12/03	06:57:28	07:09:55	00:04:38	-----	289-	48-	137-	38341
R3 (45)	21/12/03	06:58:36	07:10:00	00:00:03	-----	286-	34-	148-	39546
R1 (47)	21/12/03	07:01:20	07:13:43	00:03:43	-----	291-	80-	108-	39511
S3 (42)	21/12/03	07:30:16	07:41:15	00:11:00	00:16:32	201-	27-	75-	39477
R2 (38)	21/12/03	07:51:47	08:04:04	00:12:16	00:10:31	291-	67-	125-	40583
S4 (29)	21/12/03	08:02:26	08:14:13	00:10:09	-----	217-	40-	72-	39394
S1 (46)	21/12/03	08:04:11	08:16:03	00:01:49	-----	219-	42-	71-	39395
S2 (43)	21/12/03	08:37:31	08:49:47	00:12:15	00:21:28	233-	63-	69-	39483
T3 (25)	21/12/03	08:43:29	08:51:18	00:01:30	-----	267-	11-	192-	38342
R1 (47)	21/12/03	08:45:17	08:56:45	00:05:26	-----	286-	34-	149-	39512
S3 (42)	21/12/03	09:12:54	09:25:19	00:12:24	00:16:09	246-	89-	69-	39478
R2 (38)	21/12/03	09:36:12	09:45:51	00:09:39	00:10:53	277-	18-	173-	40584
S4 (29)	21/12/03	09:45:44	09:58:07	00:12:16	-----	256-	73-	70-	39395
S1 (46)	21/12/03	09:47:33	09:59:56	00:01:48	-----	258-	71-	70-	39396
S2 (43)	21/12/03	10:21:21	10:33:40	00:12:18	00:21:24	267-	60-	73-	39484
S3 (42)	21/12/03	10:57:02	11:09:17	00:12:15	00:23:21	276-	55-	78-	39479
S4 (29)	21/12/03	11:29:57	11:42:13	00:12:15	00:20:39	282-	55-	84-	39396
S1 (46)	21/12/03	11:31:46	11:44:02	00:01:49	-----	283-	55-	85-	39397
S2 (43)	21/12/03	12:05:33	12:17:52	00:12:19	00:21:30	287-	60-	93-	39485
T4 (44)	21/12/03	12:20:05	12:25:51	00:05:46	00:02:12	159-	8-	104-	39364
S3 (42)	21/12/03	12:41:07	12:53:30	00:12:23	00:15:15	290-	73-	104-	39480
T1 (28)	21/12/03	12:54:22	13:03:44	00:09:21	00:00:52	184-	16-	83-	39277
K6 (26)	21/12/03	12:57:02	13:04:25	00:00:40	-----	170-	11-	94-	39408
S4 (29)	21/12/03	13:13:55	13:26:20	00:12:24	00:09:30	291-	89-	114-	39397
S1 (46)	21/12/03	13:15:44	13:28:08	00:01:48	-----	291-	86-	116-	39398
T2 (40)	21/12/03	13:26:15	13:37:09	00:09:00	-----	200-	26-	76-	39362
S2 (43)	21/12/03	13:49:26	14:01:41	00:12:15	00:12:16	291-	62-	128-	39486
T4 (44)	21/12/03	13:59:48	14:11:35	00:09:54	-----	217-	40-	72-	39365
S3 (42)	21/12/03	14:25:01	14:36:48	00:11:47	00:13:25	288-	40-	143-	39481
T1 (28)	21/12/03	14:36:00	14:48:15	00:11:26	-----	233-	63-	69-	39278
K6 (26)	21/12/03	14:37:00	14:48:48	00:00:33	-----	223-	48-	70-	39409
S4 (29)	21/12/03	14:57:59	15:09:00	00:11:01	00:09:10	283-	27-	156-	39398

Satellite	Date	AOS Time	LOS Time	Duration	Interval Between	AOS Az	Max EI	LOS Az	Orbit num.
S1 (46)	21/12/03	14:59:49	15:10:41	00:01:41	-----	283-	25-	158-	39399
T2 (40)	21/12/03	15:08:50	15:21:13	00:10:32	-----	245-	88-	69-	39363
S2 (43)	21/12/03	15:33:58	15:43:14	00:09:15	00:12:45	274-	16-	177-	39487
T4 (44)	21/12/03	15:43:06	15:55:29	00:12:14	-----	256-	73-	70-	39366
S3 (42)	21/12/03	16:10:46	16:16:34	00:05:47	00:15:16	258-	8-	204-	39482
T1 (28)	21/12/03	16:19:50	16:32:08	00:12:17	00:03:16	267-	60-	73-	39279
K6 (26)	21/12/03	16:19:51	16:31:56	00:00:01	-----	261-	66-	70-	39410
T2 (40)	21/12/03	16:52:56	17:05:11	00:12:14	00:21:00	276-	55-	78-	39364
T4 (44)	21/12/03	17:27:19	17:39:34	00:12:15	00:22:07	282-	55-	84-	39367
K6 (26)	21/12/03	18:03:23	18:15:20	00:11:56	00:23:49	285-	54-	87-	39411
T1 (28)	21/12/03	18:04:01	18:16:20	00:01:00	-----	288-	60-	93-	39280
K9 (39)	21/12/03	18:22:21	18:29:34	00:07:12	00:06:01	167-	10-	96-	38393
T2 (40)	21/12/03	18:37:02	18:49:24	00:12:22	00:07:27	290-	72-	103-	39365
K7 (37)	21/12/03	18:54:56	19:04:36	00:09:40	00:05:31	187-	18-	82-	38393
T4 (44)	21/12/03	19:11:17	19:23:41	00:12:23	00:06:41	291-	89-	114-	39368
K3 (33)	21/12/03	19:28:43	19:39:48	00:11:04	00:05:02	203-	28-	75-	38394
K6 (26)	21/12/03	19:46:37	19:58:38	00:12:01	00:06:49	292-	80-	119-	39412
T1 (28)	21/12/03	19:47:54	20:00:08	00:01:30	-----	291-	62-	128-	39281
K9 (39)	21/12/03	20:02:49	20:14:47	00:11:58	00:02:40	222-	46-	71-	38394
T2 (40)	21/12/03	20:20:55	20:32:45	00:11:49	00:06:07	288-	41-	142-	39366
K7 (37)	21/12/03	20:36:44	20:49:01	00:12:17	00:03:59	235-	67-	69-	38394
K4 (24)	21/12/03	20:36:52	20:47:36	00:01:02	-----	198-	25-	76-	38544
T4 (44)	21/12/03	20:55:20	21:06:21	00:11:00	00:07:44	283-	27-	156-	39369
K3 (33)	21/12/03	21:11:26	21:23:50	00:12:23	00:05:05	247-	89-	69-	38395
K6 (26)	21/12/03	21:30:07	21:40:16	00:10:09	00:06:16	280-	22-	164-	39413
T1 (28)	21/12/03	21:32:27	21:41:43	00:01:26	-----	274-	16-	177-	39282
K9 (39)	21/12/03	21:46:18	21:58:40	00:12:21	00:04:35	260-	68-	70-	38395
T2 (40)	21/12/03	22:06:33	22:12:39	00:06:06	00:07:52	260-	9-	202-	39367
K4 (24)	21/12/03	22:19:29	22:31:47	00:12:17	00:06:49	244-	86-	69-	38545
K7 (37)	21/12/03	22:20:37	22:32:54	00:01:07	-----	269-	59-	74-	38395
K3 (33)	21/12/03	22:55:35	23:07:49	00:12:14	00:22:40	277-	54-	79-	38396
R3 (45)	21/12/03	23:04:40	23:14:26	00:06:37	-----	189-	19-	81-	39556
T3 (25)	21/12/03	23:14:50	23:24:34	00:09:44	00:00:23	184-	17-	83-	38351
K9 (39)	21/12/03	23:30:32	23:42:47	00:12:15	00:05:57	284-	55-	87-	38396
K4 (24)	21/12/04	00:03:41	00:15:50	00:12:09	00:20:53	275-	55-	77-	38546
R2 (38)	21/12/04	00:03:42	00:08:48	00:07:02	-----	153-	7-	103-	40593
K7 (37)	21/12/04	00:04:48	00:17:07	00:08:19	-----	288-	62-	95-	38396
K3 (33)	21/12/04	00:39:39	00:52:02	00:12:22	00:22:32	291-	74-	105-	38397
R3 (45)	21/12/04	00:46:20	00:58:30	00:06:28	-----	236-	70-	69-	39557
R1 (47)	21/12/04	00:53:50	01:04:00	00:05:29	-----	192-	20-	79-	39522
T3 (25)	21/12/04	00:57:15	01:09:57	00:05:56	-----	232-	63-	69-	38352
K9 (39)	21/12/04	01:14:28	01:26:50	00:12:21	00:04:31	291-	81-	118-	38397
R2 (38)	21/12/04	01:43:07	01:54:49	00:11:42	00:16:16	215-	38-	72-	40594
K4 (24)	21/12/04	01:47:52	02:00:10	00:05:20	-----	290-	71-	102-	38547
K7 (37)	21/12/04	01:48:40	02:00:52	00:00:41	-----	290-	58-	130-	38397
K3 (33)	21/12/04	02:23:34	02:35:16	00:11:42	00:22:41	287-	39-	144-	38398
R3 (45)	21/12/04	02:29:59	02:42:07	00:06:50	-----	270-	57-	74-	39558
R1 (47)	21/12/04	02:35:56	02:48:17	00:06:09	-----	238-	74-	69-	39523
T3 (25)	21/12/04	02:41:55	02:54:42	00:06:25	-----	267-	61-	73-	38353
K9 (39)	21/12/04	02:58:38	03:09:14	00:10:36	00:03:55	281-	23-	162-	38398

Satellite	Date	AOS Time	LOS Time	Duration	Interval Between	AOS Az	Max El	LOS Az	Orbit num.
R2 (38)	21/12/04	03:26:20	03:38:43	00:12:23	00:17:05	255-	75-	69-	40595
K4 (24)	21/12/04	03:31:50	03:43:39	00:04:55	-----	288-	42-	141-	38548
K7 (37)	21/12/04	03:33:20	03:42:12	00:01:02	-----	273-	15-	180-	38398
K3 (33)	21/12/04	04:09:29	04:14:49	00:05:20	00:27:16	255-	8-	208-	38399
R3 (45)	21/12/04	04:13:52	04:26:03	00:11:13	-----	289-	62-	96-	39559
R1 (47)	21/12/04	04:19:54	04:32:11	00:06:08	-----	271-	57-	75-	39524
T3 (25)	21/12/04	04:27:00	04:39:46	00:07:35	-----	287-	61-	94-	38354
R2 (38)	21/12/04	05:10:33	05:22:47	00:12:14	00:30:46	281-	54-	83-	40596
K4 (24)	21/12/04	05:17:27	05:23:49	00:01:02	-----	260-	9-	200-	38549
R3 (45)	21/12/04	05:57:27	06:09:28	00:12:01	00:33:37	290-	55-	131-	39560
S2 (43)	21/12/04	06:00:43	06:06:53	00:02:03	-----	161-	9-	102-	39496
R1 (47)	21/12/04	06:04:04	06:16:24	00:09:30	-----	289-	65-	98-	39525
T3 (25)	21/12/04	06:11:44	06:24:26	00:08:02	-----	291-	63-	128-	38355
S3 (42)	21/12/04	06:34:08	06:43:34	00:09:26	00:09:41	185-	17-	83-	39491
R2 (38)	21/12/04	06:54:32	07:06:55	00:12:23	00:10:57	291-	88-	113-	40597
S4 (29)	21/12/04	07:05:57	07:16:47	00:09:52	-----	199-	25-	76-	39408
S1 (46)	21/12/04	07:07:37	07:18:37	00:01:49	-----	201-	27-	75-	39409
S2 (43)	21/12/04	07:40:39	07:52:29	00:11:50	00:22:01	218-	41-	71-	39497
R3 (45)	21/12/04	07:41:55	07:50:22	00:02:07	-----	271-	13-	183-	39561
R1 (47)	21/12/04	07:47:56	08:00:01	00:09:39	-----	290-	52-	134-	39526
T3 (25)	21/12/04	07:57:07	08:06:51	00:06:49	-----	275-	16-	176-	38356
S3 (42)	21/12/04	08:15:47	08:28:04	00:12:16	00:08:56	233-	64-	69-	39492
R2 (38)	21/12/04	08:38:33	08:49:41	00:11:07	00:10:29	284-	29-	154-	40598
S4 (29)	21/12/04	08:48:29	09:00:53	00:11:11	-----	244-	86-	69-	39409
S1 (46)	21/12/04	08:50:16	09:02:40	00:01:47	-----	246-	89-	69-	39410
S2 (43)	21/12/04	09:24:00	09:36:23	00:12:23	00:21:18	257-	72-	70-	39498
R1 (47)	21/12/04	09:32:50	09:41:00	00:04:36	-----	269-	12-	187-	39527
S3 (42)	21/12/04	09:59:38	10:11:57	00:12:18	00:18:38	268-	60-	73-	39493
S4 (29)	21/12/04	10:32:35	10:44:51	00:12:15	00:20:37	275-	55-	77-	39410
S1 (46)	21/12/04	10:34:23	10:46:39	00:01:47	-----	276-	55-	78-	39411
S2 (43)	21/12/04	11:08:12	11:20:28	00:12:15	00:21:33	283-	55-	85-	39499
S3 (42)	21/12/04	11:43:49	11:56:09	00:12:19	00:23:21	288-	61-	94-	39494
T1 (28)	21/12/04	11:59:12	12:05:23	00:06:10	00:03:03	161-	9-	102-	39291
S4 (29)	21/12/04	12:16:41	12:29:04	00:12:23	00:11:18	290-	71-	103-	39411
S1 (46)	21/12/04	12:18:28	12:30:52	00:01:47	-----	290-	73-	104-	39412
T2 (40)	21/12/04	12:30:09	12:39:26	00:08:34	-----	184-	16-	84-	39376
S2 (43)	21/12/04	12:52:10	13:04:34	00:12:24	00:12:44	291-	87-	115-	39500
T4 (44)	21/12/04	13:03:18	13:14:08	00:09:33	-----	199-	25-	76-	39379
S3 (42)	21/12/04	13:27:42	13:39:57	00:12:14	00:13:34	291-	61-	128-	39495
K6 (26)	21/12/04	13:31:01	13:41:49	00:01:52	-----	201-	27-	75-	39423
T1 (28)	21/12/04	13:39:09	13:50:58	00:09:08	-----	218-	42-	71-	39292
S4 (29)	21/12/04	14:00:34	14:12:27	00:11:52	00:09:36	288-	42-	141-	39412
S1 (46)	21/12/04	14:02:22	14:14:09	00:01:42	-----	288-	40-	142-	39413
T2 (40)	21/12/04	14:11:44	14:23:58	00:09:48	-----	232-	62-	69-	39377
S2 (43)	21/12/04	14:36:15	14:47:10	00:10:55	00:12:16	283-	26-	158-	39501
T4 (44)	21/12/04	14:45:50	14:58:14	00:11:03	-----	244-	86-	69-	39380
S3 (42)	21/12/04	15:12:16	15:21:27	00:09:11	00:14:02	274-	16-	177-	39496
K6 (26)	21/12/04	15:13:00	15:25:10	00:03:42	-----	246-	90-	68-	39424
T1 (28)	21/12/04	15:22:29	15:34:52	00:09:41	-----	257-	72-	70-	39293
S4 (29)	21/12/04	15:46:05	15:52:31	00:06:25	00:11:13	261-	9-	200-	39413

Satellite	Date	AOS Time	LOS Time	Duration	Interval Between	AOS Az	Max EI	LOS Az	Orbit num.
S1 (46)	21/12/04	15:48:06	15:53:55	00:01:24	-----	258-	8-	204-	39414
T2 (40)	21/12/04	15:55:33	16:07:51	00:12:17	00:01:37	267-	60-	73-	39378
T4 (44)	21/12/04	16:29:55	16:42:11	00:12:15	00:22:04	275-	55-	77-	39381
K6 (26)	21/12/04	16:56:26	17:08:24	00:11:57	00:14:15	276-	53-	78-	39425
T1 (28)	21/12/04	17:06:43	17:18:57	00:10:33	-----	283-	55-	85-	39294
T2 (40)	21/12/04	17:39:44	17:52:03	00:12:18	00:20:47	287-	60-	93-	39379
K7 (37)	21/12/04	17:59:33	18:06:24	00:06:50	00:07:30	165-	10-	98-	38407
T4 (44)	21/12/04	18:14:02	18:26:24	00:12:22	00:07:37	290-	71-	102-	39382
K3 (33)	21/12/04	18:32:35	18:42:10	00:09:35	00:06:10	186-	17-	82-	38408
K6 (26)	21/12/04	18:39:50	18:51:53	00:09:42	-----	291-	72-	103-	39426
T1 (28)	21/12/04	18:50:40	19:03:04	00:11:10	-----	291-	87-	115-	39295
K9 (39)	21/12/04	19:06:13	19:17:25	00:11:12	00:03:09	205-	30-	74-	38408
T2 (40)	21/12/04	19:23:37	19:35:52	00:12:15	00:06:11	291-	63-	127-	39380
K7 (37)	21/12/04	19:39:50	19:51:45	00:11:55	00:03:57	221-	44-	71-	38408
K4 (24)	21/12/04	19:42:10	19:51:17	00:00:02	-----	183-	15-	84-	38558
T4 (44)	21/12/04	19:57:55	20:09:46	00:11:51	00:06:37	288-	43-	141-	39383
K3 (33)	21/12/04	20:14:20	20:26:37	00:12:16	00:04:33	234-	66-	69-	38409
K6 (26)	21/12/04	20:23:02	20:34:28	00:07:51	-----	288-	40-	142-	39427
T1 (28)	21/12/04	20:34:45	20:45:40	00:10:54	00:00:16	283-	26-	158-	39296
K9 (39)	21/12/04	20:49:01	21:01:25	00:12:24	00:03:21	248-	87-	69-	38409
T2 (40)	21/12/04	21:08:08	21:17:29	00:09:21	00:06:42	275-	16-	176-	39381
K7 (37)	21/12/04	21:23:16	21:35:38	00:12:22	00:05:46	259-	70-	70-	38409
K4 (24)	21/12/04	21:23:48	21:35:57	00:00:19	-----	232-	61-	69-	38559
T4 (44)	21/12/04	21:43:25	21:49:51	00:06:25	00:07:28	261-	9-	200-	39384
K3 (33)	21/12/04	21:58:13	22:10:30	00:12:17	00:08:21	268-	59-	73-	38410
R3 (45)	21/12/04	22:05:36	22:12:21	00:01:50	-----	165-	10-	98-	39570
K6 (26)	21/12/04	22:08:06	22:13:32	00:01:11	-----	257-	8-	205-	39428
T3 (25)	21/12/04	22:30:21	22:38:13	00:07:52	00:16:48	169-	11-	93-	38365
K9 (39)	21/12/04	22:33:11	22:45:25	00:07:11	-----	278-	54-	79-	38410
K7 (37)	21/12/04	23:07:29	23:19:44	00:12:15	00:22:04	283-	55-	86-	38410
K4 (24)	21/12/04	23:07:42	23:19:55	00:00:10	-----	267-	60-	73-	38560
K3 (33)	21/12/04	23:42:24	23:54:42	00:12:18	00:22:29	288-	61-	94-	38411
R3 (45)	21/12/04	23:45:38	23:57:25	00:02:42	-----	221-	44-	71-	39571
R1 (47)	21/12/04	23:58:10	00:06:00	00:07:49	00:00:44	172-	12-	92-	39536
T3 (25)	21/12/05	00:11:46	00:24:13	00:12:26	00:05:46	223-	48-	70-	38366
K9 (39)	21/12/05	00:17:14	00:29:37	00:05:24	-----	291-	77-	106-	38411
R2 (38)	21/12/05	00:46:39	00:57:20	00:10:41	00:17:01	196-	24-	77-	40608
K7 (37)	21/12/05	00:51:26	01:03:49	00:06:28	-----	291-	84-	117-	38411
K4 (24)	21/12/05	00:52:00	01:04:12	00:00:23	-----	287-	59-	93-	38561
K3 (33)	21/12/05	01:26:16	01:38:28	00:12:11	00:22:04	290-	59-	129-	38412
R3 (45)	21/12/05	01:28:47	01:41:00	00:02:31	-----	259-	69-	70-	39572
R1 (47)	21/12/05	01:38:57	01:51:01	00:10:00	-----	225-	50-	70-	39537
T3 (25)	21/12/05	01:56:07	02:08:57	00:12:49	00:05:06	260-	68-	71-	38367
K9 (39)	21/12/05	02:01:10	02:12:48	00:03:50	-----	287-	37-	145-	38412
R2 (38)	21/12/05	02:29:05	02:41:28	00:12:23	00:16:17	243-	83-	69-	40609
K7 (37)	21/12/05	02:35:34	02:46:18	00:04:49	-----	282-	24-	161-	38412
K4 (24)	21/12/05	02:35:58	02:48:09	00:01:50	-----	291-	63-	127-	38562
K3 (33)	21/12/05	03:10:54	03:19:53	00:08:59	00:22:45	273-	15-	180-	38413
R3 (45)	21/12/05	03:12:43	03:24:50	00:04:56	-----	284-	55-	86-	39573
R1 (47)	21/12/05	03:22:31	03:34:53	00:10:02	-----	262-	66-	71-	39538

Satellite	Date	AOS Time	LOS Time	Duration	Interval Between	AOS Az	Max EI	LOS Az	Orbit num.
T3 (25)	21/12/05	03:41:13	03:53:57	00:12:44	00:06:20	284-	57-	88-	38368
K9 (39)	21/12/05	03:47:22	03:52:00	00:01:05	-----	252-	7-	212-	38413
R2 (38)	21/12/05	04:13:09	04:25:24	00:12:15	00:21:09	274-	55-	77-	40610
K4 (24)	21/12/05	04:20:33	04:29:53	00:04:28	-----	275-	16-	176-	38563
R3 (45)	21/12/05	04:56:23	05:08:37	00:12:14	00:26:29	291-	83-	117-	39574
R1 (47)	21/12/05	05:06:45	05:19:01	00:10:24	-----	285-	56-	88-	39539
T3 (25)	21/12/05	05:26:01	05:38:51	00:12:50	00:07:00	291-	79-	119-	38369
S3 (42)	21/12/05	05:38:54	05:45:13	00:06:19	00:00:02	162-	9-	101-	39505
R2 (38)	21/12/05	05:57:16	06:09:38	00:12:21	00:12:02	290-	69-	101-	40611
S4 (29)	21/12/05	06:09:55	06:19:04	00:09:08	00:00:17	182-	15-	84-	39422
S1 (46)	21/12/05	06:11:29	06:20:55	00:01:51	-----	185-	16-	83-	39423
R3 (45)	21/12/05	06:40:13	06:50:48	00:10:34	00:19:18	282-	24-	160-	39575
S2 (43)	21/12/05	06:44:07	06:55:03	00:04:14	-----	200-	26-	76-	39511
R1 (47)	21/12/05	06:50:40	07:03:01	00:07:58	-----	291-	77-	120-	39540
T3 (25)	21/12/05	07:11:03	07:22:00	00:10:56	00:08:02	281-	23-	163-	38370
S3 (42)	21/12/05	07:18:54	07:30:46	00:08:46	-----	219-	42-	71-	39506
R2 (38)	21/12/05	07:41:09	07:53:04	00:11:55	00:10:22	289-	45-	139-	40612
S4 (29)	21/12/05	07:51:25	08:03:39	00:10:34	-----	231-	61-	69-	39423
S1 (46)	21/12/05	07:53:08	08:05:25	00:01:45	-----	233-	64-	69-	39424
S2 (43)	21/12/05	08:26:43	08:39:07	00:12:24	00:21:18	245-	88-	69-	39512
R1 (47)	21/12/05	08:34:54	08:45:14	00:06:07	-----	280-	21-	165-	39541
S3 (42)	21/12/05	09:02:16	09:14:39	00:12:23	00:17:01	257-	72-	70-	39507
R2 (38)	21/12/05	09:26:28	09:33:24	00:06:55	00:11:49	263-	10-	196-	40613
S4 (29)	21/12/05	09:35:12	09:47:32	00:12:19	00:01:48	266-	61-	73-	39424
S1 (46)	21/12/05	09:36:58	09:49:17	00:01:45	-----	268-	60-	73-	39425
S2 (43)	21/12/05	10:10:49	10:23:05	00:12:15	00:21:31	276-	55-	78-	39513
S3 (42)	21/12/05	10:46:29	10:58:45	00:12:15	00:23:24	283-	55-	85-	39508
S4 (29)	21/12/05	11:19:24	11:31:43	00:12:18	00:20:39	287-	59-	93-	39425
S1 (46)	21/12/05	11:21:10	11:33:29	00:01:46	-----	288-	61-	94-	39426
T2 (40)	21/12/05	11:35:01	11:41:00	00:05:59	00:01:31	161-	8-	103-	39390
S2 (43)	21/12/05	11:54:55	12:07:18	00:12:23	00:13:54	290-	72-	103-	39514
T4 (44)	21/12/05	12:07:15	12:16:23	00:09:04	-----	182-	15-	85-	39393
K6 (26)	21/12/05	12:25:46	12:34:25	00:08:38	00:09:22	179-	14-	86-	39437
S3 (42)	21/12/05	12:30:27	12:42:51	00:08:26	-----	291-	86-	115-	39509
T1 (28)	21/12/05	12:42:38	12:53:33	00:10:42	-----	200-	26-	75-	39306
S4 (29)	21/12/05	13:03:17	13:15:34	00:12:16	00:09:43	291-	64-	127-	39426
S1 (46)	21/12/05	13:05:03	13:17:17	00:01:43	-----	291-	61-	128-	39427
T2 (40)	21/12/05	13:14:52	13:26:40	00:09:22	-----	218-	41-	72-	39391
S2 (43)	21/12/05	13:38:48	13:50:38	00:11:49	00:12:08	288-	41-	142-	39515
T4 (44)	21/12/05	13:48:44	14:00:58	00:10:20	-----	231-	61-	69-	39394
K6 (26)	21/12/05	14:06:25	14:18:23	00:11:57	00:05:26	230-	58-	69-	39438
S3 (42)	21/12/05	14:14:32	14:25:25	00:07:02	-----	283-	26-	158-	39510
T1 (28)	21/12/05	14:25:15	14:37:38	00:12:12	-----	245-	88-	69-	39307
S4 (29)	21/12/05	14:47:46	14:57:15	00:09:29	00:10:08	276-	17-	175-	39427
S1 (46)	21/12/05	14:49:37	14:58:48	00:01:32	-----	274-	16-	177-	39428
T2 (40)	21/12/05	14:58:11	15:10:33	00:11:45	-----	257-	72-	70-	39392
S2 (43)	21/12/05	15:24:27	15:30:31	00:06:04	00:13:53	259-	8-	202-	39516
T4 (44)	21/12/05	15:32:31	15:44:51	00:12:19	00:02:00	266-	61-	73-	39395
K6 (26)	21/12/05	15:49:27	16:01:31	00:12:03	00:04:36	265-	61-	72-	39439
T1 (28)	21/12/05	16:09:21	16:21:36	00:12:14	00:07:49	276-	55-	78-	39308

Satellite	Date	AOS Time	LOS Time	Duration	Interval Between	AOS Az	Max El	LOS Az	Orbit num.
T2 (40)	21/12/05	16:42:24	16:54:39	00:12:14	00:20:48	282-	55-	85-	39393
T4 (44)	21/12/05	17:16:44	17:29:02	00:12:18	00:22:04	287-	59-	92-	39396
K6 (26)	21/12/05	17:32:59	17:44:58	00:11:59	00:03:56	287-	57-	91-	39440
K3 (33)	21/12/05	17:37:16	17:43:57	00:01:01	-----	164-	9-	99-	38422
T1 (28)	21/12/05	17:53:26	18:05:49	00:12:22	00:09:29	290-	72-	103-	39309
K9 (39)	21/12/05	18:10:01	18:19:49	00:09:48	00:04:11	186-	18-	81-	38422
T2 (40)	21/12/05	18:26:22	18:38:45	00:12:23	00:06:32	291-	88-	115-	39394
K7 (37)	21/12/05	18:43:16	18:54:22	00:11:06	00:04:30	203-	28-	75-	38422
K4 (24)	21/12/05	18:48:23	18:54:18	00:00:03	-----	160-	8-	103-	38572
T4 (44)	21/12/05	19:00:37	19:12:53	00:12:16	00:06:18	291-	65-	126-	39397
K6 (26)	21/12/05	19:16:10	19:28:09	00:11:58	00:03:17	291-	69-	124-	39441
K3 (33)	21/12/05	19:17:28	19:29:21	00:01:12	-----	220-	44-	71-	38423
T1 (28)	21/12/05	19:37:20	19:49:09	00:11:48	00:07:58	288-	41-	142-	39310
K9 (39)	21/12/05	19:51:53	20:04:12	00:12:18	00:02:44	236-	69-	69-	38423
T2 (40)	21/12/05	20:10:26	20:21:23	00:10:57	00:06:13	283-	26-	157-	39395
K7 (37)	21/12/05	20:26:00	20:38:24	00:12:24	00:04:36	247-	89-	69-	38423
K4 (24)	21/12/05	20:28:19	20:40:03	00:01:39	-----	218-	41-	72-	38573
T4 (44)	21/12/05	20:45:05	20:54:33	00:09:27	00:05:01	276-	17-	175-	39398
K6 (26)	21/12/05	20:59:52	21:09:19	00:09:26	00:05:18	277-	18-	172-	39442
K3 (33)	21/12/05	21:00:52	21:13:14	00:03:55	-----	258-	70-	70-	38424
T1 (28)	21/12/05	21:23:00	21:29:01	00:06:01	00:09:45	259-	8-	202-	39311
K9 (39)	21/12/05	21:35:48	21:48:05	00:12:17	00:06:46	269-	58-	74-	38424
K7 (37)	21/12/05	22:10:08	22:22:22	00:12:14	00:22:02	277-	54-	79-	38424
K4 (24)	21/12/05	22:11:45	22:24:02	00:01:39	-----	257-	72-	70-	38574
K3 (33)	21/12/05	22:45:06	22:57:21	00:12:14	00:21:03	283-	55-	86-	38425
R3 (45)	21/12/05	22:45:19	22:56:10	00:01:01	-----	201-	27-	75-	39585
K9 (39)	21/12/05	23:19:59	23:32:18	00:12:19	00:23:48	288-	62-	96-	38425
T3 (25)	21/12/05	23:26:26	23:38:25	00:06:07	-----	211-	36-	72-	38380
R2 (38)	21/12/05	23:50:41	23:59:32	00:08:51	00:12:15	180-	14-	86-	40622
K7 (37)	21/12/05	23:54:12	00:06:35	00:07:02	-----	291-	75-	105-	38425
K4 (24)	21/12/05	23:56:04	00:08:13	00:01:38	-----	283-	54-	85-	38575
R3 (45)	21/12/06	00:27:41	00:39:56	00:12:15	00:19:27	246-	89-	69-	39586
K3 (33)	21/12/06	00:29:03	00:41:26	00:01:29	-----	291-	84-	116-	38426
R1 (47)	21/12/06	00:42:16	00:53:39	00:11:23	00:00:50	208-	32-	73-	39551
K9 (39)	21/12/06	01:03:51	01:16:01	00:12:09	00:10:12	290-	57-	131-	38426
T3 (25)	21/12/06	01:10:22	01:23:13	00:07:12	-----	253-	79-	69-	38381
R2 (38)	21/12/06	01:32:01	01:44:13	00:12:11	00:08:47	230-	58-	69-	40623
K7 (37)	21/12/06	01:38:07	01:49:49	00:05:36	-----	287-	38-	144-	38426
K4 (24)	21/12/06	01:40:07	01:52:26	00:02:36	-----	291-	88-	115-	38576
R3 (45)	21/12/06	02:11:31	02:23:38	00:12:06	00:19:05	276-	54-	78-	39587
K3 (33)	21/12/06	02:13:10	02:23:57	00:00:19	-----	282-	25-	160-	38427
R1 (47)	21/12/06	02:25:13	02:37:37	00:12:24	00:01:15	250-	83-	69-	39552
K9 (39)	21/12/06	02:48:34	02:57:16	00:08:42	00:10:56	272-	14-	182-	38427
T3 (25)	21/12/06	02:55:26	03:08:09	00:10:52	-----	280-	55-	82-	38382
R2 (38)	21/12/06	03:15:45	03:28:05	00:12:19	00:07:36	265-	62-	72-	40624
K7 (37)	21/12/06	03:24:04	03:29:19	00:01:14	-----	255-	7-	208-	38427
K4 (24)	21/12/06	03:24:17	03:35:10	00:05:50	-----	283-	26-	158-	38577
R3 (45)	21/12/06	03:55:19	04:07:33	00:12:14	00:20:09	290-	73-	104-	39588
R1 (47)	21/12/06	04:09:23	04:21:38	00:12:14	00:01:49	279-	54-	81-	39553
T3 (25)	21/12/06	04:40:18	04:53:10	00:12:52	00:18:39	291-	85-	111-	38383

Satellite	Date	AOS Time	LOS Time	Duration	Interval Between	AOS Az	Max El	LOS Az	Orbit num.
R2 (38)	21/12/06	04:59:58	05:12:15	00:12:17	00:06:47	287-	58-	91-	40625
S4 (29)	21/12/06	05:14:54	05:20:35	00:05:40	00:02:38	159-	8-	105-	39436
S1 (46)	21/12/06	05:16:14	05:22:33	00:01:58	-----	162-	9-	101-	39437
R3 (45)	21/12/06	05:38:56	05:50:34	00:11:38	00:16:22	288-	40-	142-	39589
S2 (43)	21/12/06	05:48:01	05:57:20	00:06:45	-----	184-	16-	84-	39525
R1 (47)	21/12/06	05:53:26	06:05:49	00:08:29	-----	291-	80-	108-	39554
S3 (42)	21/12/06	06:22:22	06:33:20	00:10:58	00:16:32	201-	27-	75-	39520
T3 (25)	21/12/06	06:25:09	06:36:54	00:03:34	-----	285-	31-	152-	38384
R2 (38)	21/12/06	06:43:51	06:56:09	00:12:17	00:06:57	291-	68-	125-	40626
S4 (29)	21/12/06	06:54:35	07:06:21	00:10:12	-----	217-	40-	72-	39437
S1 (46)	21/12/06	06:56:15	07:08:06	00:01:44	-----	219-	42-	71-	39438
R3 (45)	21/12/06	07:24:24	07:30:03	00:05:38	00:16:18	257-	8-	204-	39590
S2 (43)	21/12/06	07:29:36	07:41:52	00:11:48	-----	232-	63-	69-	39526
R1 (47)	21/12/06	07:37:23	07:48:52	00:07:00	-----	286-	34-	148-	39555
S3 (42)	21/12/06	08:05:00	08:17:24	00:12:24	00:16:07	246-	88-	69-	39521
R2 (38)	21/12/06	08:28:16	08:37:58	00:09:41	00:10:51	277-	18-	172-	40627
S4 (29)	21/12/06	08:37:52	08:50:15	00:12:17	-----	256-	74-	70-	39438
S1 (46)	21/12/06	08:39:36	08:52:00	00:01:43	-----	257-	72-	70-	39439
S2 (43)	21/12/06	09:13:25	09:25:44	00:12:19	00:21:26	267-	60-	73-	39527
S3 (42)	21/12/06	09:49:06	10:01:22	00:12:15	00:23:21	276-	55-	78-	39522
S4 (29)	21/12/06	10:22:05	10:34:20	00:12:15	00:20:42	282-	55-	84-	39439
S1 (46)	21/12/06	10:23:49	10:36:05	00:01:44	-----	283-	55-	85-	39440
S2 (43)	21/12/06	10:57:37	11:09:56	00:12:19	00:21:32	287-	60-	93-	39528
T4 (44)	21/12/06	11:12:13	11:17:52	00:05:39	00:02:16	159-	8-	105-	39407
S3 (42)	21/12/06	11:33:12	11:45:35	00:12:23	00:15:19	290-	73-	104-	39523
T1 (28)	21/12/06	11:46:34	11:55:52	00:09:18	00:00:58	184-	16-	84-	39320
S4 (29)	21/12/06	12:06:03	12:18:28	00:12:24	00:10:10	291-	89-	114-	39440
S1 (46)	21/12/06	12:07:47	12:20:11	00:01:43	-----	291-	86-	115-	39441
T2 (40)	21/12/06	12:18:21	12:29:13	00:09:02	-----	199-	26-	76-	39405
S2 (43)	21/12/06	12:41:30	12:53:45	00:12:15	00:12:16	291-	63-	128-	39529
T4 (44)	21/12/06	12:51:53	13:03:39	00:09:53	-----	217-	40-	72-	39408
K6 (26)	21/12/06	13:00:15	13:11:29	00:07:49	-----	209-	33-	73-	39452
S3 (42)	21/12/06	13:17:05	13:28:54	00:11:48	00:05:36	288-	40-	142-	39524
T1 (28)	21/12/06	13:28:10	13:40:24	00:11:30	-----	232-	63-	69-	39321
S4 (29)	21/12/06	13:50:06	14:01:09	00:11:02	00:09:42	284-	27-	156-	39441
S1 (46)	21/12/06	13:51:52	14:02:46	00:01:36	-----	283-	26-	158-	39442
T2 (40)	21/12/06	14:00:55	14:13:18	00:10:32	-----	245-	87-	69-	39406
S2 (43)	21/12/06	14:26:02	14:35:21	00:09:18	00:12:43	275-	16-	176-	39530
T4 (44)	21/12/06	14:35:09	14:47:33	00:12:12	-----	256-	74-	70-	39409
K6 (26)	21/12/06	14:42:33	14:54:43	00:07:09	-----	251-	80-	69-	39453
S3 (42)	21/12/06	15:02:48	15:08:43	00:05:54	00:08:04	259-	8-	203-	39525
T1 (28)	21/12/06	15:11:59	15:24:17	00:12:17	00:03:16	267-	60-	73-	39322
T2 (40)	21/12/06	15:45:01	15:57:16	00:12:14	00:20:44	276-	55-	78-	39407
T4 (44)	21/12/06	16:19:23	16:31:38	00:12:15	00:22:06	282-	54-	84-	39410
K6 (26)	21/12/06	16:26:03	16:38:01	00:06:23	-----	280-	53-	81-	39454
T1 (28)	21/12/06	16:56:11	17:08:29	00:12:18	00:18:09	287-	60-	93-	39323
K9 (39)	21/12/06	17:14:32	17:21:41	00:07:08	00:06:03	167-	10-	96-	38436
T2 (40)	21/12/06	17:29:07	17:41:29	00:12:22	00:07:25	290-	72-	103-	39408
K7 (37)	21/12/06	17:47:06	17:56:44	00:09:37	00:05:36	187-	17-	82-	38436
T4 (44)	21/12/06	18:03:21	18:15:45	00:12:23	00:06:37	291-	90-	114-	39411

Satellite	Date	AOS Time	LOS Time	Duration	Interval Between	AOS Az	Max EI	LOS Az	Orbit num.
K6 (26)	21/12/06	18:09:23	18:21:28	00:05:43	-----	291-	80-	108-	39455
K3 (33)	21/12/06	18:20:55	18:31:58	00:10:29	-----	202-	28-	75-	38437
T1 (28)	21/12/06	18:40:03	18:52:18	00:12:14	00:08:04	291-	62-	128-	39324
K9 (39)	21/12/06	18:54:58	19:06:56	00:11:57	00:02:40	222-	46-	71-	38437
T2 (40)	21/12/06	19:13:00	19:24:50	00:11:50	00:06:03	288-	42-	141-	39409
K7 (37)	21/12/06	19:28:52	19:41:10	00:12:17	00:04:02	234-	66-	69-	38437
K4 (24)	21/12/06	19:33:10	19:44:03	00:02:52	-----	200-	26-	76-	38587
T4 (44)	21/12/06	19:47:24	19:58:26	00:11:02	00:03:21	284-	27-	156-	39412
K6 (26)	21/12/06	19:52:38	20:03:47	00:05:20	-----	286-	33-	149-	39456
K3 (33)	21/12/06	20:03:37	20:16:01	00:12:13	-----	247-	90-	69-	38438
T1 (28)	21/12/06	20:24:35	20:33:54	00:09:18	00:08:34	275-	16-	176-	39325
K9 (39)	21/12/06	20:38:26	20:50:48	00:12:21	00:04:32	259-	68-	70-	38438
T2 (40)	21/12/06	20:58:35	21:04:48	00:06:12	00:07:46	260-	9-	201-	39410
K7 (37)	21/12/06	21:12:45	21:25:03	00:12:17	00:07:57	269-	59-	74-	38438
K4 (24)	21/12/06	21:15:53	21:28:12	00:03:09	-----	246-	88-	69-	38588
R3 (45)	21/12/06	21:45:32	21:54:36	00:09:03	00:17:20	183-	15-	85-	39599
K3 (33)	21/12/06	21:47:45	22:00:00	00:05:23	-----	277-	54-	79-	38439
K9 (39)	21/12/06	22:22:40	22:34:56	00:12:15	00:22:40	284-	55-	87-	38439
T3 (25)	21/12/06	22:41:15	22:52:34	00:11:18	00:06:19	199-	27-	75-	38394
R2 (38)	21/12/06	22:55:51	23:00:49	00:04:57	00:03:17	152-	7-	104-	40636
K7 (37)	21/12/06	22:56:56	23:09:15	00:08:26	-----	288-	61-	95-	38439
K4 (24)	21/12/06	23:00:06	23:12:15	00:03:00	-----	276-	54-	78-	38589
R3 (45)	21/12/06	23:26:47	23:38:53	00:12:05	00:14:32	232-	61-	69-	39600
K3 (33)	21/12/06	23:31:50	23:44:12	00:05:19	-----	291-	74-	105-	38440
R1 (47)	21/12/06	23:45:57	23:56:06	00:10:08	00:01:44	192-	20-	80-	39565
K9 (39)	21/12/07	00:06:37	00:18:59	00:12:22	00:10:30	291-	82-	118-	38440
T3 (25)	21/12/07	00:24:39	00:37:30	00:12:51	00:05:40	245-	86-	69-	38395
R2 (38)	21/12/07	00:35:12	00:46:53	00:09:22	-----	215-	38-	72-	40637
K7 (37)	21/12/07	00:40:49	00:53:01	00:06:07	-----	290-	59-	130-	38440
K4 (24)	21/12/07	00:44:17	00:56:34	00:03:33	-----	290-	72-	104-	38590
R3 (45)	21/12/07	01:10:18	01:22:28	00:12:10	00:13:43	267-	60-	73-	39601
K3 (33)	21/12/07	01:15:44	01:27:28	00:05:00	-----	288-	39-	143-	38441
R1 (47)	21/12/07	01:28:02	01:40:23	00:12:21	00:00:33	238-	73-	69-	39566
K9 (39)	21/12/07	01:50:46	02:01:24	00:10:37	00:10:22	281-	23-	162-	38441
T3 (25)	21/12/07	02:09:37	02:22:20	00:12:43	00:08:13	275-	56-	78-	38396
R2 (38)	21/12/07	02:18:24	02:30:48	00:08:27	-----	255-	76-	69-	40638
K7 (37)	21/12/07	02:25:27	02:34:22	00:03:34	-----	273-	15-	180-	38441
K4 (24)	21/12/07	02:28:16	02:40:00	00:05:37	-----	288-	40-	142-	38591
R3 (45)	21/12/07	02:54:13	03:06:23	00:12:09	00:14:13	287-	59-	93-	39602
K3 (33)	21/12/07	03:01:37	03:07:04	00:00:41	-----	256-	8-	207-	38442
R1 (47)	21/12/07	03:12:00	03:24:17	00:12:17	00:04:56	271-	57-	75-	39567
T3 (25)	21/12/07	03:54:35	04:07:26	00:12:51	00:30:17	290-	73-	103-	38397
R2 (38)	21/12/07	04:02:37	04:14:51	00:07:25	-----	281-	54-	83-	40639
K4 (24)	21/12/07	04:14:04	04:19:55	00:05:03	-----	258-	8-	204-	38592
R3 (45)	21/12/07	04:37:49	04:49:56	00:12:07	00:17:53	291-	64-	127-	39603
S2 (43)	21/12/07	04:52:51	04:58:55	00:06:04	00:02:55	161-	8-	102-	39539
R1 (47)	21/12/07	04:56:10	05:08:30	00:09:34	-----	289-	64-	97-	39568
S3 (42)	21/12/07	05:26:15	05:35:38	00:09:23	00:17:44	184-	16-	83-	39534
T3 (25)	21/12/07	05:39:20	05:51:37	00:12:17	00:03:41	288-	42-	141-	38398
R2 (38)	21/12/07	05:46:36	05:59:00	00:07:22	-----	291-	88-	112-	40640

Satellite	Date	AOS Time	LOS Time	Duration	Interval Between	AOS Az	Max EI	LOS Az	Orbit num.
S4 (29)	21/12/07	05:58:06	06:08:55	00:09:54	-----	198-	25-	76-	39451
S1 (46)	21/12/07	05:59:41	06:10:39	00:01:44	-----	201-	27-	75-	39452
R3 (45)	21/12/07	06:22:01	06:31:19	00:09:17	00:11:22	275-	16-	175-	39604
S2 (43)	21/12/07	06:32:44	06:44:33	00:11:49	00:01:24	218-	41-	72-	39540
R1 (47)	21/12/07	06:40:02	06:52:08	00:07:34	-----	290-	53-	133-	39569
S3 (42)	21/12/07	07:07:53	07:20:09	00:12:16	00:15:44	233-	63-	69-	39535
T3 (25)	21/12/07	07:25:45	07:32:26	00:06:40	00:05:36	262-	9-	200-	38399
R2 (38)	21/12/07	07:30:37	07:41:47	00:09:21	-----	284-	29-	154-	40641
S4 (29)	21/12/07	07:40:37	07:53:01	00:11:14	-----	244-	85-	69-	39452
S1 (46)	21/12/07	07:42:19	07:54:43	00:01:42	-----	246-	88-	69-	39453
S2 (43)	21/12/07	08:16:04	08:28:27	00:12:23	00:21:20	257-	72-	70-	39541
R1 (47)	21/12/07	08:24:55	08:33:08	00:04:40	-----	270-	13-	186-	39570
S3 (42)	21/12/07	08:51:43	09:04:02	00:12:19	00:18:34	267-	60-	73-	39536
S4 (29)	21/12/07	09:24:43	09:36:58	00:12:15	00:20:40	275-	55-	77-	39453
S1 (46)	21/12/07	09:26:26	09:38:41	00:01:42	-----	276-	55-	78-	39454
S2 (43)	21/12/07	10:00:17	10:12:32	00:12:15	00:21:35	282-	55-	85-	39542
S3 (42)	21/12/07	10:35:54	10:48:14	00:12:19	00:23:21	287-	60-	94-	39537
T1 (28)	21/12/07	10:51:25	10:57:30	00:06:04	00:03:11	161-	9-	102-	39334
S4 (29)	21/12/07	11:08:49	11:21:12	00:12:23	00:11:18	290-	71-	102-	39454
S1 (46)	21/12/07	11:10:31	11:22:55	00:01:42	-----	290-	73-	104-	39455
T2 (40)	21/12/07	11:22:16	11:31:30	00:08:35	-----	183-	16-	84-	39419
S2 (43)	21/12/07	11:44:15	11:56:39	00:12:24	00:12:44	291-	88-	115-	39543
K6 (26)	21/12/07	11:54:41	12:04:16	00:07:36	-----	188-	18-	82-	39466
T4 (44)	21/12/07	11:55:23	12:06:12	00:01:55	-----	198-	25-	76-	39422
S3 (42)	21/12/07	12:19:47	12:32:02	00:12:15	00:13:35	291-	62-	128-	39538
T1 (28)	21/12/07	12:31:19	12:43:07	00:11:05	-----	218-	41-	72-	39335
S4 (29)	21/12/07	12:52:42	13:04:35	00:11:53	00:09:34	288-	43-	140-	39455
S1 (46)	21/12/07	12:54:25	13:06:13	00:01:37	-----	288-	41-	142-	39456
T2 (40)	21/12/07	13:03:49	13:16:03	00:09:49	-----	232-	62-	69-	39420
S2 (43)	21/12/07	13:28:19	13:39:16	00:10:57	00:12:16	283-	26-	157-	39544
K6 (26)	21/12/07	13:35:52	13:47:57	00:08:40	-----	235-	68-	69-	39467
T4 (44)	21/12/07	13:37:54	13:50:18	00:02:21	-----	244-	85-	69-	39423
S3 (42)	21/12/07	14:04:20	14:13:35	00:09:14	00:14:02	274-	16-	177-	39539
T1 (28)	21/12/07	14:14:39	14:27:01	00:12:22	00:01:04	257-	72-	70-	39336
S4 (29)	21/12/07	14:38:11	14:44:42	00:06:31	00:11:10	261-	9-	199-	39456
S1 (46)	21/12/07	14:40:06	14:46:03	00:01:20	-----	259-	8-	203-	39457
T2 (40)	21/12/07	14:47:37	14:59:55	00:12:17	00:01:34	267-	60-	73-	39421
K6 (26)	21/12/07	15:19:04	15:31:07	00:12:02	00:19:08	269-	57-	73-	39468
T4 (44)	21/12/07	15:22:00	15:34:15	00:03:08	-----	275-	55-	77-	39424
T1 (28)	21/12/07	15:58:52	16:11:06	00:12:14	00:24:37	283-	55-	85-	39337
T2 (40)	21/12/07	16:31:49	16:44:07	00:12:17	00:20:42	287-	60-	93-	39422
K7 (37)	21/12/07	16:51:45	16:58:30	00:06:45	00:07:37	164-	10-	98-	38450
K6 (26)	21/12/07	17:02:33	17:14:36	00:12:02	00:04:02	288-	61-	95-	39469
T4 (44)	21/12/07	17:06:05	17:18:28	00:03:52	-----	290-	71-	102-	39425
K3 (33)	21/12/07	17:24:47	17:34:20	00:09:33	00:06:18	186-	17-	82-	38451
T1 (28)	21/12/07	17:42:50	17:55:13	00:12:23	00:08:29	291-	87-	115-	39338
K9 (39)	21/12/07	17:58:22	18:09:33	00:11:10	00:03:09	204-	29-	74-	38451
T2 (40)	21/12/07	18:15:42	18:27:57	00:12:15	00:06:08	291-	63-	127-	39423
K7 (37)	21/12/07	18:31:59	18:43:54	00:11:54	00:04:01	220-	44-	71-	38451
K4 (24)	21/12/07	18:38:25	18:47:47	00:03:53	-----	185-	16-	83-	38601

Satellite	Date	AOS Time	LOS Time	Duration	Interval Between	AOS Az	Max EI	LOS Az	Orbit num.
K6 (26)	21/12/07	18:45:44	18:57:37	00:09:50	-----	290-	58-	130-	39470
T4 (44)	21/12/07	18:49:59	19:01:51	00:04:14	-----	288-	43-	140-	39426
K3 (33)	21/12/07	19:06:31	19:18:48	00:12:16	00:04:39	234-	65-	69-	38452
T1 (28)	21/12/07	19:26:54	19:37:50	00:10:56	00:08:06	283-	26-	157-	39339
K9 (39)	21/12/07	19:41:10	19:53:34	00:12:24	00:03:19	248-	87-	69-	38452
T2 (40)	21/12/07	20:00:12	20:09:36	00:09:23	00:06:38	275-	16-	175-	39424
K7 (37)	21/12/07	20:15:24	20:27:47	00:12:22	00:05:48	258-	70-	70-	38452
K4 (24)	21/12/07	20:20:10	20:32:22	00:04:35	-----	233-	64-	69-	38602
K6 (26)	21/12/07	20:29:43	20:38:13	00:05:51	-----	272-	14-	181-	39471
T4 (44)	21/12/07	20:35:27	20:41:59	00:03:45	-----	262-	9-	199-	39427
R3 (45)	21/12/07	20:47:01	20:52:01	00:05:00	00:05:02	152-	7-	103-	39613
K3 (33)	21/12/07	20:50:23	21:02:41	00:10:39	-----	268-	59-	73-	38453
K9 (39)	21/12/07	21:25:19	21:37:33	00:12:14	00:22:38	277-	54-	79-	38453
T3 (25)	21/12/07	21:56:16	22:06:35	00:10:18	00:18:42	190-	19-	80-	38408
K7 (37)	21/12/07	21:59:38	22:11:53	00:05:18	-----	283-	55-	86-	38453
K4 (24)	21/12/07	22:04:07	22:16:20	00:04:26	-----	268-	59-	73-	38603
R3 (45)	21/12/07	22:26:11	22:37:45	00:11:34	00:09:51	216-	38-	72-	39614
K3 (33)	21/12/07	22:34:34	22:46:53	00:09:07	-----	288-	61-	94-	38454
R1 (47)	21/12/07	22:50:18	22:58:03	00:07:45	00:03:25	171-	11-	92-	39579
K9 (39)	21/12/07	23:09:23	23:21:46	00:12:23	00:11:19	291-	76-	106-	38454
R2 (38)	21/12/07	23:38:45	23:49:24	00:10:39	00:16:59	196-	24-	77-	40651
T3 (25)	21/12/07	23:39:02	23:51:48	00:02:23	-----	236-	70-	69-	38409
K7 (37)	21/12/07	23:43:35	23:55:58	00:04:10	-----	291-	84-	117-	38454
K4 (24)	21/12/07	23:48:25	00:00:38	00:04:39	-----	288-	60-	94-	38604
R3 (45)	21/12/08	00:09:08	00:21:23	00:12:14	00:08:30	255-	75-	69-	39615
K3 (33)	21/12/08	00:18:27	00:30:39	00:09:16	-----	290-	60-	129-	38455
R1 (47)	21/12/08	00:31:03	00:43:07	00:12:03	00:00:23	224-	49-	70-	39580
K9 (39)	21/12/08	00:53:18	01:04:57	00:11:39	00:10:10	287-	37-	145-	38455
R2 (38)	21/12/08	01:21:09	01:33:33	00:12:23	00:16:12	243-	82-	69-	40652
T3 (25)	21/12/08	01:23:48	01:36:34	00:03:00	-----	269-	59-	74-	38410
K7 (37)	21/12/08	01:27:42	01:38:28	00:01:54	-----	282-	25-	160-	38455
K4 (24)	21/12/08	01:32:23	01:44:31	00:06:03	-----	291-	61-	128-	38605
R3 (45)	21/12/08	01:53:03	02:05:09	00:12:06	00:08:32	282-	54-	83-	39616
K3 (33)	21/12/08	02:03:04	02:12:06	00:06:56	-----	273-	15-	179-	38456
R1 (47)	21/12/08	02:14:37	02:27:00	00:12:21	00:02:31	261-	66-	71-	39581
K9 (39)	21/12/08	02:39:27	02:44:13	00:04:46	00:12:27	253-	7-	211-	38456
R2 (38)	21/12/08	03:05:13	03:17:29	00:12:15	00:21:00	274-	55-	77-	40653
T3 (25)	21/12/08	03:08:51	03:21:39	00:04:09	-----	288-	64-	96-	38411
K4 (24)	21/12/08	03:17:03	03:26:08	00:04:28	-----	274-	15-	179-	38606
R3 (45)	21/12/08	03:36:45	03:49:01	00:12:15	00:10:37	291-	88-	113-	39617
R1 (47)	21/12/08	03:58:51	04:11:07	00:12:16	00:09:50	285-	56-	88-	39582
S3 (42)	21/12/08	04:31:03	04:37:16	00:06:13	00:19:55	161-	9-	101-	39548
R2 (38)	21/12/08	04:49:21	05:01:42	00:12:21	00:12:04	290-	69-	101-	40654
T3 (25)	21/12/08	04:53:35	05:06:12	00:04:29	-----	290-	56-	132-	38412
S4 (29)	21/12/08	05:02:05	05:11:11	00:04:59	-----	182-	15-	85-	39465
S1 (46)	21/12/08	05:03:34	05:12:57	00:01:46	-----	184-	16-	83-	39466
R3 (45)	21/12/08	05:20:30	05:31:30	00:11:00	00:07:32	284-	28-	154-	39618
S2 (43)	21/12/08	05:36:12	05:47:07	00:10:54	00:04:42	200-	26-	76-	39554
R1 (47)	21/12/08	05:42:46	05:55:08	00:08:00	-----	291-	77-	120-	39583
S3 (42)	21/12/08	06:11:00	06:22:51	00:11:50	00:15:52	218-	42-	71-	39549

Satellite	Date	AOS Time	LOS Time	Duration	Interval Between	AOS Az	Max EI	LOS Az	Orbit num.
R2 (38)	21/12/08	06:33:13	06:45:09	00:11:56	00:10:22	289-	45-	138-	40655
T3 (25)	21/12/08	06:39:11	06:48:12	00:03:02	-----	272-	14-	182-	38413
S4 (29)	21/12/08	06:43:33	06:55:47	00:07:35	-----	231-	60-	69-	39466
S1 (46)	21/12/08	06:45:12	06:57:28	00:01:40	-----	233-	63-	69-	39467
S2 (43)	21/12/08	07:18:47	07:31:12	00:12:24	00:21:19	245-	87-	69-	39555
R1 (47)	21/12/08	07:27:00	07:37:22	00:06:10	-----	280-	22-	165-	39584
S3 (42)	21/12/08	07:54:21	08:06:44	00:12:23	00:16:58	257-	72-	70-	39550
R2 (38)	21/12/08	08:18:31	08:25:32	00:07:00	00:11:46	264-	10-	196-	40656
S4 (29)	21/12/08	08:27:20	08:39:39	00:12:19	00:01:48	266-	61-	73-	39467
S1 (46)	21/12/08	08:29:01	08:41:20	00:01:40	-----	267-	60-	73-	39468
S2 (43)	21/12/08	09:02:54	09:15:09	00:12:15	00:21:33	276-	55-	78-	39556
S3 (42)	21/12/08	09:38:34	09:50:50	00:12:15	00:23:24	283-	55-	85-	39551
S4 (29)	21/12/08	10:11:32	10:23:51	00:12:18	00:20:42	287-	59-	92-	39468
S1 (46)	21/12/08	10:13:13	10:25:32	00:01:41	-----	287-	60-	93-	39469
T2 (40)	21/12/08	10:27:10	10:33:03	00:05:52	00:01:38	160-	8-	104-	39433
S2 (43)	21/12/08	10:47:00	10:59:23	00:12:23	00:13:56	290-	72-	103-	39557
K6 (26)	21/12/08	10:50:28	10:56:05	00:03:01	-----	159-	8-	105-	39480
T4 (44)	21/12/08	10:59:21	11:08:26	00:09:05	00:03:16	182-	15-	85-	39436
S3 (42)	21/12/08	11:22:32	11:34:56	00:12:24	00:14:05	291-	87-	115-	39552
T1 (28)	21/12/08	11:34:49	11:45:42	00:10:46	-----	200-	26-	76-	39349
S4 (29)	21/12/08	11:55:25	12:07:42	00:12:17	00:09:42	291-	65-	126-	39469
S1 (46)	21/12/08	11:57:06	12:09:21	00:01:38	-----	291-	62-	128-	39470
T2 (40)	21/12/08	12:06:57	12:18:44	00:09:23	-----	218-	40-	72-	39434
K6 (26)	21/12/08	12:29:31	12:41:06	00:11:34	00:10:47	217-	40-	72-	39481
S2 (43)	21/12/08	12:30:53	12:42:43	00:01:36	-----	288-	41-	141-	39558
T4 (44)	21/12/08	12:40:48	12:53:02	00:10:19	-----	231-	60-	69-	39437
S3 (42)	21/12/08	13:06:37	13:17:32	00:10:55	00:13:34	283-	26-	158-	39553
T1 (28)	21/12/08	13:17:24	13:29:47	00:12:15	-----	245-	87-	69-	39350
S4 (29)	21/12/08	13:39:53	13:49:25	00:09:31	00:10:06	276-	17-	174-	39470
S1 (46)	21/12/08	13:41:39	13:50:53	00:01:28	-----	275-	16-	177-	39471
T2 (40)	21/12/08	13:50:16	14:02:38	00:11:44	-----	256-	73-	70-	39435
K6 (26)	21/12/08	14:12:08	14:24:17	00:12:09	00:09:29	256-	72-	69-	39482
S2 (43)	21/12/08	14:16:29	14:22:40	00:01:03	-----	260-	9-	202-	39559
T4 (44)	21/12/08	14:24:35	14:36:55	00:12:19	00:01:55	266-	61-	73-	39438
T1 (28)	21/12/08	15:01:30	15:13:45	00:12:14	00:24:35	276-	55-	78-	39351
T2 (40)	21/12/08	15:34:29	15:46:43	00:12:14	00:20:44	282-	55-	84-	39436
K6 (26)	21/12/08	15:55:39	16:07:38	00:11:59	00:08:55	282-	53-	84-	39483
T4 (44)	21/12/08	16:08:47	16:21:06	00:12:18	00:01:09	287-	59-	92-	39439
K3 (33)	21/12/08	16:29:29	16:36:05	00:06:36	00:08:23	164-	9-	99-	38465
T1 (28)	21/12/08	16:45:36	16:57:58	00:12:22	00:09:30	290-	72-	103-	39352
K9 (39)	21/12/08	17:02:10	17:11:57	00:09:46	00:04:11	188-	18-	81-	38465
T2 (40)	21/12/08	17:18:27	17:30:50	00:12:23	00:06:29	291-	88-	114-	39437
K7 (37)	21/12/08	17:35:25	17:46:30	00:11:05	00:04:34	202-	28-	75-	38465
K6 (26)	21/12/08	17:38:56	17:51:02	00:04:32	-----	292-	89-	113-	39484
K4 (24)	21/12/08	17:44:28	17:50:55	00:00:07	-----	163-	9-	100-	38615
T4 (44)	21/12/08	17:52:40	18:04:57	00:12:16	00:01:45	291-	65-	126-	39440
K3 (33)	21/12/08	18:09:39	18:21:32	00:11:53	00:04:41	220-	43-	71-	38466
T1 (28)	21/12/08	18:29:29	18:41:18	00:11:49	00:07:57	288-	41-	142-	39353
K9 (39)	21/12/08	18:44:02	18:56:20	00:12:18	00:02:43	235-	68-	69-	38466
T2 (40)	21/12/08	19:02:30	19:13:29	00:10:58	00:06:10	283-	27-	157-	39438

Satellite	Date	AOS Time	LOS Time	Duration	Interval Between	AOS Az	Max EI	LOS Az	Orbit num.
K7 (37)	21/12/08	19:18:08	19:30:32	00:12:24	00:04:38	247-	89-	69-	38466
K6 (26)	21/12/08	19:22:17	19:33:02	00:02:29	-----	283-	27-	156-	39485
K4 (24)	21/12/08	19:24:40	19:36:29	00:03:27	-----	219-	43-	71-	38616
T4 (44)	21/12/08	19:37:08	19:46:39	00:09:30	00:00:39	276-	17-	174-	39441
K3 (33)	21/12/08	19:53:03	20:05:25	00:12:22	00:06:23	258-	70-	70-	38467
T1 (28)	21/12/08	20:15:07	20:21:14	00:06:07	00:09:41	260-	9-	202-	39354
K9 (39)	21/12/08	20:27:56	20:40:14	00:12:17	00:06:42	269-	58-	74-	38467
K7 (37)	21/12/08	21:02:16	21:14:31	00:12:14	00:22:02	277-	54-	79-	38467
K4 (24)	21/12/08	21:08:10	21:20:27	00:05:56	-----	258-	71-	70-	38617
T3 (25)	21/12/08	21:11:37	21:20:24	00:00:03	-----	176-	13-	88-	38422
R3 (45)	21/12/08	21:26:00	21:36:26	00:10:25	00:05:36	197-	23-	78-	39628
K3 (33)	21/12/08	21:37:16	21:49:31	00:12:14	00:00:50	283-	55-	85-	38468
K9 (39)	21/12/08	22:12:07	22:24:26	00:12:19	00:22:35	288-	62-	95-	38468
R2 (38)	21/12/08	22:42:48	22:51:36	00:08:48	00:18:21	179-	14-	86-	40665
K7 (37)	21/12/08	22:46:21	22:58:44	00:07:08	-----	291-	74-	105-	38468
K4 (24)	21/12/08	22:52:29	23:04:39	00:05:54	-----	283-	55-	85-	38618
T3 (25)	21/12/08	22:53:30	23:06:04	00:01:25	-----	227-	54-	70-	38423
R3 (45)	21/12/08	23:08:05	23:20:19	00:12:13	00:02:01	242-	81-	69-	39629
K3 (33)	21/12/08	23:21:13	23:33:36	00:12:22	00:00:54	291-	85-	116-	38469
R1 (47)	21/12/08	23:34:23	23:45:45	00:11:22	00:00:46	207-	32-	73-	39594
K9 (39)	21/12/08	23:56:00	00:08:10	00:12:10	00:10:14	290-	57-	131-	38469
R2 (38)	21/12/09	00:24:06	00:36:17	00:12:11	00:15:55	229-	57-	70-	40666
K7 (37)	21/12/09	00:30:15	00:41:59	00:05:41	-----	287-	39-	144-	38469
K4 (24)	21/12/09	00:36:32	00:48:50	00:06:51	-----	291-	85-	116-	38619
T3 (25)	21/12/09	00:38:00	00:50:48	00:01:58	-----	263-	65-	72-	38424
R3 (45)	21/12/09	00:51:51	01:03:58	00:12:06	00:01:02	274-	55-	76-	39630
K3 (33)	21/12/09	01:05:20	01:16:08	00:10:48	00:01:22	282-	25-	160-	38470
R1 (47)	21/12/09	01:17:18	01:29:44	00:12:25	00:01:10	250-	83-	69-	39595
K9 (39)	21/12/09	01:40:41	01:49:27	00:08:45	00:10:57	272-	14-	182-	38470
R2 (38)	21/12/09	02:07:49	02:20:09	00:12:19	00:18:22	265-	62-	72-	40667
K7 (37)	21/12/09	02:16:10	02:21:32	00:01:22	-----	256-	8-	207-	38470
K4 (24)	21/12/09	02:20:44	02:31:28	00:09:55	-----	282-	25-	160-	38620
T3 (25)	21/12/09	02:23:05	02:35:50	00:04:22	-----	285-	59-	90-	38425
R3 (45)	21/12/09	02:35:41	02:47:54	00:12:03	-----	290-	68-	100-	39631
R1 (47)	21/12/09	03:01:29	03:13:44	00:12:15	00:13:34	279-	54-	80-	39596
R2 (38)	21/12/09	03:52:02	04:04:20	00:12:17	00:38:18	286-	58-	91-	40668
S4 (29)	21/12/09	04:07:07	04:12:40	00:05:33	00:02:47	159-	8-	106-	39479
T3 (25)	21/12/09	04:07:51	04:20:39	00:07:58	-----	291-	72-	123-	38426
S1 (46)	21/12/09	04:08:22	04:14:34	00:06:05	-----	161-	9-	102-	39480
R3 (45)	21/12/09	04:19:17	04:31:07	00:11:50	00:04:43	289-	46-	137-	39632
S2 (43)	21/12/09	04:40:07	04:49:23	00:09:15	00:09:00	183-	16-	84-	39568
R1 (47)	21/12/09	04:45:32	04:57:56	00:08:32	-----	291-	80-	108-	39597
S3 (42)	21/12/09	05:14:28	05:25:25	00:10:56	00:16:32	200-	27-	75-	39563
R2 (38)	21/12/09	05:35:56	05:48:14	00:12:17	00:10:31	291-	68-	125-	40669
S4 (29)	21/12/09	05:46:43	05:58:29	00:10:15	-----	217-	39-	72-	39480
S1 (46)	21/12/09	05:48:18	06:00:09	00:01:39	-----	218-	42-	71-	39481
T3 (25)	21/12/09	05:53:01	06:03:31	00:03:22	-----	279-	20-	169-	38427
R3 (45)	21/12/09	06:04:11	06:11:22	00:07:10	00:00:40	265-	10-	194-	39633
S2 (43)	21/12/09	06:21:41	06:33:56	00:12:14	00:10:19	232-	62-	69-	39569
R1 (47)	21/12/09	06:29:28	06:41:00	00:07:03	-----	286-	34-	148-	39598

Satellite	Date	AOS Time	LOS Time	Duration	Interval Between	AOS Az	Max El	LOS Az	Orbit num.
S3 (42)	21/12/09	06:57:05	07:09:29	00:12:24	00:16:05	245-	88-	69-	39564
R2 (38)	21/12/09	07:20:20	07:30:04	00:09:44	00:10:50	277-	18-	172-	40670
S4 (29)	21/12/09	07:30:00	07:42:23	00:12:19	-----	256-	74-	70-	39481
S1 (46)	21/12/09	07:31:39	07:44:02	00:01:38	-----	257-	72-	70-	39482
S2 (43)	21/12/09	08:05:30	08:17:49	00:12:19	00:21:27	267-	60-	73-	39570
S3 (42)	21/12/09	08:41:11	08:53:27	00:12:15	00:23:22	276-	55-	78-	39565
S4 (29)	21/12/09	09:14:13	09:26:28	00:12:15	00:20:45	282-	54-	84-	39482
S1 (46)	21/12/09	09:15:52	09:28:08	00:01:39	-----	283-	55-	85-	39483
S2 (43)	21/12/09	09:49:42	10:02:01	00:12:19	00:21:33	287-	60-	93-	39571
T4 (44)	21/12/09	10:04:22	10:09:54	00:05:31	00:02:21	158-	8-	106-	39450
S3 (42)	21/12/09	10:25:17	10:37:40	00:12:23	00:15:22	290-	73-	104-	39566
T1 (28)	21/12/09	10:38:45	10:48:01	00:09:16	00:01:04	184-	16-	84-	39363
S4 (29)	21/12/09	10:58:11	11:10:36	00:12:24	00:10:10	291-	90-	114-	39483
S1 (46)	21/12/09	10:59:50	11:12:14	00:01:38	-----	291-	87-	115-	39484
T2 (40)	21/12/09	11:10:27	11:21:17	00:09:03	-----	199-	26-	76-	39448
K6 (26)	21/12/09	11:23:44	11:34:01	00:10:17	00:02:26	196-	22-	78-	39495
S2 (43)	21/12/09	11:33:34	11:45:50	00:11:48	-----	291-	63-	127-	39572
T4 (44)	21/12/09	11:43:57	11:55:43	00:09:52	-----	216-	39-	72-	39451
S3 (42)	21/12/09	12:09:10	12:21:00	00:11:49	00:13:27	288-	41-	142-	39567
T1 (28)	21/12/09	12:20:19	12:32:33	00:11:33	-----	232-	62-	69-	39364
S4 (29)	21/12/09	12:42:14	12:53:18	00:11:04	00:09:40	284-	28-	156-	39484
S1 (46)	21/12/09	12:43:54	12:54:50	00:01:31	-----	283-	26-	158-	39485
T2 (40)	21/12/09	12:53:00	13:05:23	00:10:32	-----	245-	86-	69-	39449
K6 (26)	21/12/09	13:05:21	13:17:30	00:12:07	-----	241-	79-	68-	39496
S2 (43)	21/12/09	13:18:05	13:27:27	00:09:21	00:00:35	275-	16-	176-	39573
T4 (44)	21/12/09	13:27:13	13:39:37	00:12:10	-----	256-	74-	70-	39452
S3 (42)	21/12/09	13:54:50	14:00:52	00:06:01	00:15:12	259-	8-	203-	39568
T1 (28)	21/12/09	14:04:08	14:16:26	00:12:17	00:03:16	267-	60-	73-	39365
T2 (40)	21/12/09	14:37:06	14:49:20	00:12:14	00:20:40	275-	55-	78-	39450
K6 (26)	21/12/09	14:48:41	15:00:42	00:11:22	-----	273-	55-	76-	39497
T4 (44)	21/12/09	15:11:26	15:23:42	00:12:15	00:10:43	282-	54-	84-	39453
T1 (28)	21/12/09	15:48:20	16:00:38	00:12:17	00:24:38	287-	60-	93-	39366
K9 (39)	21/12/09	16:06:44	16:13:48	00:07:04	00:06:05	166-	10-	97-	38479
T2 (40)	21/12/09	16:21:12	16:33:34	00:12:22	00:07:23	290-	71-	103-	39451
K6 (26)	21/12/09	16:32:07	16:44:13	00:10:38	-----	290-	66-	99-	39498
K7 (37)	21/12/09	16:39:16	16:48:52	00:04:39	-----	186-	17-	82-	38479
T4 (44)	21/12/09	16:55:25	17:07:49	00:12:24	00:06:33	291-	90-	113-	39454
K3 (33)	21/12/09	17:13:06	17:24:09	00:11:02	00:05:16	202-	28-	75-	38480
T1 (28)	21/12/09	17:32:13	17:44:27	00:12:14	00:08:03	291-	63-	127-	39367
K9 (39)	21/12/09	17:47:07	17:59:04	00:11:57	00:02:39	221-	45-	71-	38480
T2 (40)	21/12/09	18:05:05	18:16:55	00:11:50	00:06:00	288-	42-	141-	39452
K6 (26)	21/12/09	18:15:18	18:27:02	00:10:06	-----	289-	48-	136-	39499
K7 (37)	21/12/09	18:21:01	18:33:19	00:06:16	-----	234-	66-	69-	38480
K4 (24)	21/12/09	18:29:29	18:40:29	00:07:10	-----	202-	28-	75-	38630
T4 (44)	21/12/09	18:39:28	18:50:33	00:10:03	-----	284-	28-	156-	39455
K3 (33)	21/12/09	18:55:47	19:08:11	00:12:24	00:05:14	246-	90-	69-	38481
T1 (28)	21/12/09	19:16:44	19:26:05	00:09:20	00:08:32	275-	16-	176-	39368
K9 (39)	21/12/09	19:30:35	19:42:57	00:12:22	00:04:29	259-	69-	70-	38481
T2 (40)	21/12/09	19:50:38	19:56:56	00:06:18	00:07:40	261-	9-	200-	39453
K6 (26)	21/12/09	19:59:42	20:07:01	00:07:18	00:02:45	266-	11-	192-	39500

Satellite	Date	AOS Time	LOS Time	Duration	Interval Between	AOS Az	Max EI	LOS Az	Orbit num.
K7 (37)	21/12/09	20:04:53	20:17:12	00:10:10	-----	268-	59-	73-	38481
K4 (24)	21/12/09	20:12:17	20:24:37	00:07:25	-----	247-	89-	69-	38631
R3 (45)	21/12/09	20:26:31	20:34:41	00:08:09	00:01:53	175-	13-	90-	39642
T3 (25)	21/12/09	20:27:31	20:33:44	00:00:05	-----	160-	8-	102-	38436
K3 (33)	21/12/09	20:39:55	20:52:10	00:12:14	00:06:11	276-	54-	78-	38482
K9 (39)	21/12/09	21:14:48	21:27:04	00:12:15	00:22:38	284-	55-	86-	38482
R2 (38)	21/12/09	21:48:01	21:52:49	00:04:48	00:20:56	150-	7-	104-	40679
K7 (37)	21/12/09	21:49:05	22:01:24	00:08:34	-----	288-	61-	94-	38482
K4 (24)	21/12/09	21:56:31	22:08:41	00:07:16	-----	277-	54-	78-	38632
R3 (45)	21/12/09	22:07:16	22:19:15	00:10:34	-----	227-	53-	70-	39643
T3 (25)	21/12/09	22:08:05	22:20:18	00:01:03	-----	217-	41-	71-	38437
K3 (33)	21/12/09	22:24:00	22:36:23	00:12:22	00:03:42	291-	74-	104-	38483
R1 (47)	21/12/09	22:38:05	22:48:11	00:10:06	00:01:41	192-	20-	80-	39608
K9 (39)	21/12/09	22:58:45	23:11:07	00:12:22	00:10:33	291-	82-	118-	38483
R2 (38)	21/12/09	23:27:17	23:38:58	00:11:40	00:16:09	215-	37-	72-	40680
K7 (37)	21/12/09	23:32:57	23:45:10	00:06:12	-----	290-	59-	129-	38483
K4 (24)	21/12/09	23:40:42	23:53:00	00:07:49	-----	291-	74-	105-	38633
R3 (45)	21/12/09	23:50:38	00:02:50	00:09:50	-----	263-	64-	71-	39644
T3 (25)	21/12/09	23:52:13	00:05:04	00:02:14	-----	256-	74-	70-	38438
K3 (33)	21/12/10	00:07:54	00:19:39	00:11:44	00:02:50	288-	39-	143-	38484
R1 (47)	21/12/10	00:20:08	00:32:29	00:12:21	00:00:28	238-	73-	69-	39609
K9 (39)	21/12/10	00:42:54	00:53:33	00:10:39	00:10:24	282-	24-	162-	38484
R2 (38)	21/12/10	01:10:28	01:22:52	00:12:24	00:16:55	254-	76-	69-	40681
K7 (37)	21/12/10	01:17:35	01:26:33	00:03:40	-----	273-	15-	179-	38484
K4 (24)	21/12/10	01:24:42	01:36:20	00:09:47	-----	287-	39-	144-	38634
R3 (45)	21/12/10	01:34:34	01:46:42	00:10:21	-----	286-	57-	89-	39645
T3 (25)	21/12/10	01:37:18	01:50:01	00:03:19	-----	282-	56-	85-	38439
K3 (33)	21/12/10	01:53:45	01:59:18	00:05:33	00:03:43	257-	8-	206-	38485
R1 (47)	21/12/10	02:04:06	02:16:23	00:12:17	00:04:47	271-	57-	75-	39610
R2 (38)	21/12/10	02:54:41	03:06:56	00:12:14	00:38:17	281-	54-	83-	40682
K4 (24)	21/12/10	03:10:42	03:16:00	00:05:16	00:03:46	255-	8-	208-	38635
R3 (45)	21/12/10	03:18:11	03:30:23	00:12:11	00:02:11	291-	73-	122-	39646
T3 (25)	21/12/10	03:22:09	03:35:00	00:04:37	-----	291-	88-	114-	38440
S2 (43)	21/12/10	03:45:00	03:50:57	00:05:57	00:09:59	160-	8-	103-	39582
R1 (47)	21/12/10	03:48:16	04:00:36	00:09:39	-----	289-	64-	97-	39611
S3 (42)	21/12/10	04:18:22	04:27:42	00:09:20	00:17:45	184-	16-	84-	39577
R2 (38)	21/12/10	04:38:41	04:51:05	00:12:23	00:10:58	291-	87-	112-	40683
S4 (29)	21/12/10	04:50:15	05:01:02	00:09:57	-----	198-	25-	76-	39494
S1 (46)	21/12/10	04:51:46	05:02:42	00:01:39	-----	200-	26-	76-	39495
R3 (45)	21/12/10	05:02:12	05:12:11	00:09:28	-----	278-	20-	168-	39647
T3 (25)	21/12/10	05:07:04	05:18:30	00:06:19	-----	284-	28-	156-	38441
S2 (43)	21/12/10	05:24:49	05:36:38	00:11:48	00:06:18	218-	41-	72-	39583
R1 (47)	21/12/10	05:32:08	05:44:15	00:07:37	-----	290-	53-	133-	39612
S3 (42)	21/12/10	05:59:58	06:12:14	00:12:15	00:15:43	232-	63-	69-	39578
R2 (38)	21/12/10	06:22:41	06:33:54	00:11:12	00:10:27	284-	29-	154-	40684
S4 (29)	21/12/10	06:32:45	06:45:09	00:11:14	-----	244-	85-	69-	39495
S1 (46)	21/12/10	06:34:22	06:46:46	00:01:37	-----	245-	88-	69-	39496
S2 (43)	21/12/10	07:08:08	07:20:31	00:12:23	00:21:21	257-	73-	70-	39584
R1 (47)	21/12/10	07:17:00	07:25:17	00:04:45	-----	270-	13-	186-	39613
S3 (42)	21/12/10	07:43:48	07:56:07	00:12:19	00:18:30	267-	60-	73-	39579

Satellite	Date	AOS Time	LOS Time	Duration	Interval Between	AOS Az	Max EI	LOS Az	Orbit num.
S4 (29)	21/12/10	08:16:50	08:29:06	00:12:15	00:20:43	275-	55-	77-	39496
S1 (46)	21/12/10	08:18:29	08:30:44	00:01:37	-----	276-	55-	78-	39497
S2 (43)	21/12/10	08:52:21	09:04:37	00:12:15	00:21:36	282-	55-	84-	39585
S3 (42)	21/12/10	09:28:00	09:40:19	00:12:19	00:23:22	287-	60-	93-	39580
T1 (28)	21/12/10	09:43:38	09:49:37	00:05:58	00:03:19	161-	8-	103-	39377
S4 (29)	21/12/10	10:00:57	10:13:20	00:12:23	00:11:19	290-	71-	102-	39497
S1 (46)	21/12/10	10:02:34	10:14:57	00:01:37	-----	290-	72-	103-	39498
T2 (40)	21/12/10	10:14:23	10:23:34	00:08:36	-----	183-	16-	84-	39462
K6 (26)	21/12/10	10:18:54	10:26:18	00:02:44	-----	170-	11-	94-	39509
S2 (43)	21/12/10	10:36:19	10:48:43	00:12:24	00:10:00	291-	88-	114-	39586
T4 (44)	21/12/10	10:47:28	10:58:15	00:09:31	-----	198-	25-	76-	39465
S3 (42)	21/12/10	11:11:52	11:24:08	00:12:15	00:13:36	291-	62-	128-	39581
T1 (28)	21/12/10	11:23:29	11:35:16	00:11:08	-----	218-	41-	72-	39378
S4 (29)	21/12/10	11:44:50	11:56:44	00:11:53	00:09:33	288-	43-	140-	39498
S1 (46)	21/12/10	11:46:27	11:58:17	00:01:33	-----	288-	41-	142-	39499
T2 (40)	21/12/10	11:55:54	12:08:08	00:09:50	-----	232-	61-	69-	39463
K6 (26)	21/12/10	11:58:53	12:10:42	00:02:34	-----	224-	48-	70-	39510
S2 (43)	21/12/10	12:20:23	12:31:22	00:10:58	00:09:41	283-	27-	157-	39587
T4 (44)	21/12/10	12:29:58	12:42:22	00:11:00	-----	244-	85-	69-	39466
S3 (42)	21/12/10	12:56:24	13:05:42	00:09:17	00:14:02	275-	16-	176-	39582
T1 (28)	21/12/10	13:06:48	13:19:10	00:12:22	00:01:06	257-	72-	70-	39379
S4 (29)	21/12/10	13:30:17	13:36:53	00:06:36	00:11:06	262-	9-	199-	39499
S1 (46)	21/12/10	13:32:07	13:38:10	00:01:16	-----	259-	8-	202-	39500
T2 (40)	21/12/10	13:39:42	13:52:00	00:12:17	00:01:32	267-	60-	73-	39464
K6 (26)	21/12/10	13:41:43	13:53:51	00:01:51	-----	261-	66-	70-	39511
T4 (44)	21/12/10	14:14:03	14:26:19	00:12:15	00:20:11	275-	55-	77-	39467
T1 (28)	21/12/10	14:51:01	15:03:15	00:12:14	00:24:42	282-	55-	85-	39380
T2 (40)	21/12/10	15:23:54	15:36:12	00:12:17	00:20:38	287-	60-	93-	39465
K6 (26)	21/12/10	15:25:15	15:37:16	00:01:04	-----	285-	55-	87-	39512
K7 (37)	21/12/10	15:43:57	15:50:37	00:06:40	00:06:40	164-	9-	99-	38493
T4 (44)	21/12/10	15:58:09	16:10:32	00:12:22	00:07:32	290-	70-	102-	39468
K3 (33)	21/12/10	16:17:00	16:26:30	00:09:31	00:06:26	186-	17-	83-	38494
T1 (28)	21/12/10	16:34:59	16:47:22	00:12:23	00:08:28	291-	88-	115-	39381
K9 (39)	21/12/10	16:50:31	17:01:41	00:11:09	00:03:09	204-	29-	74-	38494
T2 (40)	21/12/10	17:07:47	17:20:02	00:12:15	00:06:05	291-	64-	127-	39466
K6 (26)	21/12/10	17:08:29	17:20:35	00:00:32	-----	292-	80-	119-	39513
K7 (37)	21/12/10	17:24:08	17:36:02	00:11:54	00:03:33	220-	44-	71-	38494
K4 (24)	21/12/10	17:34:40	17:44:16	00:08:13	-----	184-	17-	82-	38644
T4 (44)	21/12/10	17:42:02	17:53:56	00:09:40	-----	288-	43-	140-	39469
K3 (33)	21/12/10	17:58:42	18:10:58	00:12:16	00:04:45	234-	65-	69-	38495
T1 (28)	21/12/10	18:19:03	18:30:00	00:10:57	00:08:04	283-	26-	157-	39382
K9 (39)	21/12/10	18:33:18	18:45:42	00:12:24	00:03:17	248-	87-	69-	38495
K6 (26)	21/12/10	18:51:58	19:02:12	00:10:13	00:06:15	281-	22-	164-	39514
T2 (40)	21/12/10	18:52:16	19:01:42	00:00:02	-----	275-	16-	175-	39467
K7 (37)	21/12/10	19:07:32	19:19:55	00:12:22	00:05:50	258-	70-	70-	38495
K4 (24)	21/12/10	19:16:33	19:28:47	00:08:51	-----	234-	66-	69-	38645
T4 (44)	21/12/10	19:27:28	19:34:07	00:05:19	-----	262-	9-	198-	39470
K3 (33)	21/12/10	19:42:33	19:54:51	00:12:18	00:08:26	268-	59-	73-	38496
K9 (39)	21/12/10	20:17:27	20:29:42	00:12:14	00:22:35	277-	54-	79-	38496
K7 (37)	21/12/10	20:51:46	21:04:02	00:12:15	00:22:04	283-	55-	86-	38496

Satellite	Date	AOS Time	LOS Time	Duration	Interval Between	AOS Az	Max El	LOS Az	Orbit num.
K4 (24)	21/12/10	21:00:32	21:12:45	00:08:43	-----	269-	59-	73-	38646
R3 (45)	21/12/10	21:06:48	21:18:04	00:05:18	-----	208-	32-	73-	39657
T3 (25)	21/12/10	21:22:51	21:34:28	00:11:37	00:04:46	205-	30-	74-	38451
K3 (33)	21/12/10	21:26:45	21:39:04	00:04:35	-----	288-	61-	94-	38497
R1 (47)	21/12/10	21:42:27	21:50:10	00:07:42	00:03:23	171-	11-	93-	39622
K9 (39)	21/12/10	22:01:31	22:13:54	00:12:23	00:11:21	291-	76-	106-	38497
R2 (38)	21/12/10	22:30:51	22:41:28	00:10:37	00:16:56	196-	24-	77-	40694
K7 (37)	21/12/10	22:35:43	22:48:06	00:06:37	-----	291-	85-	116-	38497
K4 (24)	21/12/10	22:44:50	22:57:03	00:08:56	-----	288-	61-	95-	38647
R3 (45)	21/12/10	22:49:30	23:01:45	00:04:42	-----	251-	81-	69-	39658
T3 (25)	21/12/10	23:06:29	23:19:21	00:12:51	00:04:44	248-	87-	69-	38452
K3 (33)	21/12/10	23:10:37	23:22:50	00:03:29	-----	291-	60-	129-	38498
R1 (47)	21/12/10	23:23:10	23:35:13	00:12:03	00:00:19	224-	49-	70-	39623
K9 (39)	21/12/10	23:45:26	23:57:06	00:11:40	00:10:12	287-	37-	145-	38498
R2 (38)	21/12/11	00:13:14	00:25:37	00:12:23	00:16:07	242-	82-	69-	40695
K7 (37)	21/12/11	00:19:50	00:30:38	00:05:00	-----	282-	25-	160-	38498
K4 (24)	21/12/11	00:28:48	00:40:54	00:10:16	-----	290-	58-	130-	38648
R3 (45)	21/12/11	00:33:23	00:45:29	00:04:35	-----	279-	54-	81-	39659
T3 (25)	21/12/11	00:51:30	01:04:13	00:12:42	00:06:00	277-	55-	80-	38453
K3 (33)	21/12/11	00:55:14	01:04:18	00:00:05	-----	274-	15-	179-	38499
R1 (47)	21/12/11	01:06:43	01:19:05	00:12:22	00:02:24	261-	66-	71-	39624
K9 (39)	21/12/11	01:31:32	01:36:26	00:04:54	00:12:26	253-	7-	210-	38499
R2 (38)	21/12/11	01:57:18	02:09:33	00:12:15	00:20:51	274-	55-	76-	40696
K4 (24)	21/12/11	02:13:32	02:22:22	00:08:49	00:03:58	273-	14-	181-	38649
R3 (45)	21/12/11	02:17:08	02:29:23	00:07:01	-----	291-	81-	109-	39660
T3 (25)	21/12/11	02:36:26	02:49:17	00:12:51	00:07:02	291-	78-	107-	38454
R1 (47)	21/12/11	02:50:57	03:03:13	00:12:16	00:01:39	285-	56-	88-	39625
S3 (42)	21/12/11	03:23:12	03:29:18	00:06:06	00:19:58	161-	9-	102-	39591
R2 (38)	21/12/11	03:41:25	03:53:47	00:12:21	00:12:06	290-	69-	101-	40697
S4 (29)	21/12/11	03:54:15	04:03:18	00:09:02	00:00:28	181-	15-	85-	39508
S1 (46)	21/12/11	03:55:39	04:04:59	00:01:41	-----	184-	16-	84-	39509
R3 (45)	21/12/11	04:00:48	04:12:08	00:07:09	-----	286-	33-	149-	39661
T3 (25)	21/12/11	04:21:13	04:33:18	00:12:05	00:09:04	287-	37-	146-	38455
S2 (43)	21/12/11	04:28:18	04:39:11	00:05:52	-----	199-	26-	76-	39597
R1 (47)	21/12/11	04:34:52	04:47:14	00:08:03	-----	291-	78-	120-	39626
S3 (42)	21/12/11	05:03:06	05:14:56	00:11:49	00:15:51	218-	41-	72-	39592
R2 (38)	21/12/11	05:25:18	05:37:15	00:11:57	00:10:21	289-	46-	138-	40698
S4 (29)	21/12/11	05:35:41	05:47:55	00:10:39	-----	231-	60-	69-	39509
S1 (46)	21/12/11	05:37:15	05:49:30	00:01:35	-----	232-	63-	69-	39510
T3 (25)	21/12/11	06:08:14	06:13:20	00:05:06	00:18:43	254-	7-	210-	38456
S2 (43)	21/12/11	06:10:52	06:23:16	00:09:56	-----	245-	87-	69-	39598
R1 (47)	21/12/11	06:19:05	06:29:29	00:06:13	-----	280-	22-	165-	39627
S3 (42)	21/12/11	06:46:26	06:58:49	00:12:23	00:16:56	257-	72-	70-	39593
R2 (38)	21/12/11	07:10:33	07:17:40	00:07:06	00:11:44	264-	10-	195-	40699
S4 (29)	21/12/11	07:19:28	07:31:47	00:12:19	00:01:48	266-	61-	72-	39510
S1 (46)	21/12/11	07:21:04	07:33:23	00:01:35	-----	267-	60-	73-	39511
S2 (43)	21/12/11	07:54:58	08:07:14	00:12:15	00:21:34	275-	55-	78-	39599
S3 (42)	21/12/11	08:30:39	08:42:55	00:12:15	00:23:25	282-	55-	85-	39594
S4 (29)	21/12/11	09:03:40	09:15:59	00:12:18	00:20:45	287-	59-	92-	39511
S1 (46)	21/12/11	09:05:16	09:17:35	00:01:36	-----	287-	60-	93-	39512

Satellite	Date	AOS Time	LOS Time	Duration	Interval Between	AOS Az	Max EI	LOS Az	Orbit num.
T2 (40)	21/12/11	09:19:20	09:25:05	00:05:45	00:01:44	160-	8-	105-	39476
S2 (43)	21/12/11	09:39:04	09:51:27	00:12:23	00:13:58	290-	72-	103-	39600
T4 (44)	21/12/11	09:51:27	10:00:29	00:09:02	-----	181-	15-	85-	39479
S3 (42)	21/12/11	10:14:37	10:27:01	00:12:24	00:14:07	291-	87-	115-	39595
T1 (28)	21/12/11	10:26:59	10:37:51	00:10:49	-----	199-	26-	76-	39392
S4 (29)	21/12/11	10:47:33	10:59:51	00:12:17	00:09:41	291-	65-	126-	39512
S1 (46)	21/12/11	10:49:08	11:01:24	00:01:33	-----	291-	62-	128-	39513
K6 (26)	21/12/11	10:52:54	11:03:43	00:02:18	-----	201-	27-	75-	39524
T2 (40)	21/12/11	10:59:03	11:10:49	00:07:06	-----	217-	40-	72-	39477
S2 (43)	21/12/11	11:22:57	11:34:48	00:11:51	00:12:07	288-	42-	141-	39601
T4 (44)	21/12/11	11:32:53	11:45:06	00:10:18	-----	231-	60-	69-	39480
S3 (42)	21/12/11	11:58:41	12:09:38	00:10:56	00:13:35	283-	26-	157-	39596
T1 (28)	21/12/11	12:09:33	12:21:56	00:12:18	-----	245-	87-	69-	39393
S4 (29)	21/12/11	12:32:01	12:41:35	00:09:33	00:10:04	276-	17-	174-	39513
S1 (46)	21/12/11	12:33:41	12:42:58	00:01:23	-----	275-	16-	176-	39514
K6 (26)	21/12/11	12:34:53	12:47:03	00:04:05	-----	246-	90-	68-	39525
T2 (40)	21/12/11	12:42:21	12:54:43	00:07:39	-----	256-	73-	70-	39478
S2 (43)	21/12/11	13:08:31	13:14:48	00:06:16	00:13:48	260-	9-	201-	39602
T4 (44)	21/12/11	13:16:39	13:28:58	00:12:19	00:01:50	266-	61-	72-	39481
T1 (28)	21/12/11	13:53:40	14:05:54	00:12:14	00:24:41	276-	55-	78-	39394
K6 (26)	21/12/11	14:18:18	14:30:19	00:12:00	00:12:24	277-	53-	78-	39526
T2 (40)	21/12/11	14:26:34	14:38:48	00:08:28	-----	282-	55-	84-	39479
T4 (44)	21/12/11	15:00:51	15:13:10	00:12:18	00:22:03	287-	59-	92-	39482
K3 (33)	21/12/11	15:21:43	15:28:14	00:06:31	00:08:32	163-	9-	100-	38508
T1 (28)	21/12/11	15:37:45	15:50:07	00:12:22	00:09:30	290-	72-	103-	39395
K9 (39)	21/12/11	15:54:20	16:04:05	00:09:44	00:04:12	188-	18-	82-	38508
K6 (26)	21/12/11	16:01:41	16:13:49	00:09:44	-----	291-	72-	104-	39527
T2 (40)	21/12/11	16:10:32	16:22:55	00:09:06	-----	291-	89-	114-	39480
K7 (37)	21/12/11	16:27:35	16:38:38	00:11:03	00:04:39	202-	28-	75-	38508
K4 (24)	21/12/11	16:40:35	16:47:30	00:06:54	00:01:56	166-	10-	98-	38658
T4 (44)	21/12/11	16:44:44	16:57:02	00:09:31	-----	291-	66-	126-	39483
K3 (33)	21/12/11	17:01:50	17:13:43	00:11:52	00:04:48	219-	43-	71-	38509
T1 (28)	21/12/11	17:21:38	17:33:28	00:11:49	00:07:55	288-	42-	141-	39396
K9 (39)	21/12/11	17:36:10	17:48:29	00:12:18	00:02:42	235-	68-	69-	38509
K6 (26)	21/12/11	17:44:53	17:56:24	00:07:55	-----	288-	40-	142-	39528
T2 (40)	21/12/11	17:54:35	18:05:35	00:09:10	-----	283-	27-	156-	39481
K7 (37)	21/12/11	18:10:17	18:22:41	00:12:24	00:04:41	247-	90-	69-	38509
K4 (24)	21/12/11	18:21:01	18:32:55	00:10:13	-----	221-	45-	71-	38659
T4 (44)	21/12/11	18:29:11	18:38:45	00:05:50	-----	276-	17-	174-	39484
K3 (33)	21/12/11	18:45:13	18:57:36	00:12:22	00:06:27	258-	71-	70-	38510
T1 (28)	21/12/11	19:07:14	19:13:26	00:06:12	00:09:38	260-	9-	201-	39397
K9 (39)	21/12/11	19:20:04	19:32:22	00:12:17	00:06:37	269-	58-	74-	38510
K6 (26)	21/12/11	19:29:57	19:35:29	00:03:06	-----	257-	8-	205-	39529
K7 (37)	21/12/11	19:54:25	20:06:40	00:12:15	00:18:55	277-	54-	79-	38510
K4 (24)	21/12/11	20:04:34	20:16:52	00:10:12	-----	259-	69-	70-	38660
R3 (45)	21/12/11	20:06:47	20:16:39	00:00:01	-----	191-	19-	81-	39671
K3 (33)	21/12/11	20:29:27	20:41:42	00:12:15	00:12:47	283-	55-	85-	38511
T3 (25)	21/12/11	20:37:47	20:48:33	00:06:51	-----	192-	22-	78-	38465
K9 (39)	21/12/11	21:04:15	21:16:35	00:12:19	00:15:42	288-	62-	95-	38511
R2 (38)	21/12/11	21:34:54	21:43:39	00:08:44	00:18:19	179-	14-	87-	40708

Satellite	Date	AOS Time	LOS Time	Duration	Interval Between	AOS Az	Max EI	LOS Az	Orbit num.
K7 (37)	21/12/11	21:38:29	21:50:53	00:07:13	-----	291-	74-	105-	38511
R3 (45)	21/12/11	21:48:31	22:00:42	00:09:49	-----	237-	72-	69-	39672
K4 (24)	21/12/11	21:48:54	22:01:04	00:00:22	-----	284-	55-	86-	38661
K3 (33)	21/12/11	22:13:24	22:25:47	00:12:23	00:12:19	291-	85-	116-	38512
T3 (25)	21/12/11	22:20:49	22:33:38	00:07:50	-----	240-	77-	69-	38466
R1 (47)	21/12/11	22:26:30	22:37:51	00:04:12	-----	207-	31-	74-	39637
K9 (39)	21/12/11	22:48:08	23:00:19	00:12:11	00:10:16	290-	58-	130-	38512
R2 (38)	21/12/11	23:16:10	23:28:22	00:12:11	00:15:51	229-	57-	70-	40709
K7 (37)	21/12/11	23:22:24	23:34:08	00:05:46	-----	288-	39-	143-	38512
R3 (45)	21/12/11	23:32:11	23:44:19	00:10:10	-----	271-	57-	74-	39673
K4 (24)	21/12/11	23:32:57	23:45:14	00:00:55	-----	291-	83-	117-	38662
K3 (33)	21/12/11	23:57:30	00:08:20	00:10:49	00:12:16	282-	25-	159-	38513
T3 (25)	21/12/12	00:05:41	00:18:25	00:10:05	-----	272-	57-	76-	38467
R1 (47)	21/12/12	00:09:24	00:21:50	00:03:24	-----	250-	84-	69-	39638
K9 (39)	21/12/12	00:32:49	00:41:38	00:08:48	00:10:59	272-	14-	181-	38513
R2 (38)	21/12/12	00:59:54	01:12:14	00:12:20	00:18:16	265-	62-	72-	40710
K7 (37)	21/12/12	01:08:16	01:13:45	00:01:31	-----	256-	8-	207-	38513
R3 (45)	21/12/12	01:16:03	01:28:15	00:12:11	00:02:18	289-	63-	97-	39674
K4 (24)	21/12/12	01:17:11	01:27:46	00:00:02	-----	282-	24-	161-	38663
T3 (25)	21/12/12	01:50:42	02:03:31	00:12:49	00:22:56	289-	67-	99-	38468
R1 (47)	21/12/12	01:53:35	02:05:50	00:02:18	-----	279-	54-	80-	39639
R2 (38)	21/12/12	02:44:07	02:56:24	00:12:17	00:38:16	286-	58-	91-	40711
S4 (29)	21/12/12	02:59:20	03:04:44	00:05:24	00:02:55	158-	8-	102-	39522
R3 (45)	21/12/12	02:59:38	03:11:38	00:06:54	-----	290-	54-	132-	39675
S1 (46)	21/12/12	03:00:29	03:06:34	00:05:03	-----	161-	9-	102-	39523
S2 (43)	21/12/12	03:32:14	03:41:27	00:09:12	00:25:40	183-	16-	84-	39611
T3 (25)	21/12/12	03:35:26	03:47:56	00:06:28	-----	290-	50-	136-	38469
R1 (47)	21/12/12	03:37:37	03:50:02	00:02:05	-----	291-	79-	108-	39640
S3 (42)	21/12/12	04:06:34	04:17:29	00:10:55	00:16:32	200-	26-	76-	39606
R2 (38)	21/12/12	04:28:00	04:40:19	00:12:18	00:10:30	291-	69-	124-	40712
S4 (29)	21/12/12	04:38:52	04:50:37	00:10:18	-----	216-	39-	72-	39523
S1 (46)	21/12/12	04:40:22	04:52:12	00:01:34	-----	218-	41-	72-	39524
R3 (45)	21/12/12	04:44:10	04:52:26	00:00:14	-----	270-	13-	184-	39676
S2 (43)	21/12/12	05:13:46	05:26:01	00:12:14	00:21:20	232-	62-	69-	39612
T3 (25)	21/12/12	05:21:19	05:29:30	00:03:29	-----	269-	12-	190-	38470
R1 (47)	21/12/12	05:21:34	05:33:07	00:03:37	-----	286-	35-	148-	39641
S3 (42)	21/12/12	05:49:10	06:01:34	00:12:24	00:16:03	245-	87-	69-	39607
R2 (38)	21/12/12	06:12:23	06:22:10	00:09:47	00:10:49	277-	18-	171-	40713
S4 (29)	21/12/12	06:22:08	06:34:31	00:12:20	-----	256-	74-	70-	39524
S1 (46)	21/12/12	06:23:42	06:36:05	00:01:33	-----	257-	72-	70-	39525
S2 (43)	21/12/12	06:57:34	07:09:53	00:12:19	00:21:28	267-	60-	73-	39613
R1 (47)	21/12/12	07:08:11	07:11:49	00:01:55	-----	246-	6-	219-	39642
S3 (42)	21/12/12	07:33:16	07:45:32	00:12:15	00:21:27	276-	55-	78-	39608
S4 (29)	21/12/12	08:06:21	08:18:36	00:12:15	00:20:48	282-	54-	84-	39525
S1 (46)	21/12/12	08:07:55	08:20:11	00:01:34	-----	282-	55-	85-	39526
S2 (43)	21/12/12	08:41:46	08:54:05	00:12:18	00:21:35	287-	60-	93-	39614
T4 (44)	21/12/12	08:56:31	09:01:53	00:05:22	00:02:25	158-	8-	102-	39493
S3 (42)	21/12/12	09:17:22	09:29:45	00:12:23	00:15:28	290-	72-	103-	39609
T1 (28)	21/12/12	09:30:56	09:40:09	00:09:13	00:01:10	183-	16-	84-	39406
K6 (26)	21/12/12	09:47:39	09:56:18	00:08:39	00:07:29	180-	14-	86-	39538

Satellite	Date	AOS Time	LOS Time	Duration	Interval Between	AOS Az	Max El	LOS Az	Orbit num.
S4 (29)	21/12/12	09:50:19	10:02:44	00:06:26	-----	291-	90-	113-	39526
S1 (46)	21/12/12	09:51:53	10:04:17	00:01:33	-----	291-	88-	115-	39527
T2 (40)	21/12/12	10:02:33	10:13:22	00:09:04	-----	199-	25-	76-	39491
S2 (43)	21/12/12	10:25:39	10:37:55	00:12:16	00:12:16	291-	64-	127-	39615
T4 (44)	21/12/12	10:36:02	10:47:47	00:09:51	-----	216-	39-	72-	39494
S3 (42)	21/12/12	11:01:15	11:13:05	00:11:50	00:13:28	288-	41-	142-	39610
T1 (28)	21/12/12	11:12:29	11:24:42	00:11:37	-----	232-	62-	69-	39407
K6 (26)	21/12/12	11:28:17	11:40:16	00:11:58	00:03:35	230-	58-	69-	39539
S4 (29)	21/12/12	11:34:21	11:45:27	00:05:10	-----	284-	28-	155-	39527
S1 (46)	21/12/12	11:35:57	11:46:56	00:01:28	-----	283-	26-	158-	39528
T2 (40)	21/12/12	11:45:05	11:57:28	00:10:31	-----	244-	86-	69-	39492
S2 (43)	21/12/12	12:10:09	12:19:33	00:09:24	00:12:41	275-	16-	175-	39616
T4 (44)	21/12/12	12:19:17	12:31:41	00:12:07	-----	255-	74-	70-	39495
S3 (42)	21/12/12	12:46:53	12:53:01	00:06:07	00:15:11	260-	9-	202-	39611
T1 (28)	21/12/12	12:56:17	13:08:35	00:12:17	00:03:16	267-	60-	73-	39408
K6 (26)	21/12/12	13:11:20	13:23:26	00:12:05	00:02:44	265-	61-	72-	39540
T2 (40)	21/12/12	13:29:11	13:41:25	00:12:14	00:05:45	275-	55-	77-	39493
T4 (44)	21/12/12	14:03:30	14:15:46	00:12:15	00:22:05	282-	54-	84-	39496
T1 (28)	21/12/12	14:40:29	14:52:47	00:12:17	00:24:43	287-	60-	93-	39409
K6 (26)	21/12/12	14:54:50	15:06:53	00:12:02	00:02:03	287-	57-	91-	39541
K9 (39)	21/12/12	14:58:55	15:05:54	00:00:05	-----	166-	10-	97-	38522
T2 (40)	21/12/12	15:13:16	15:25:38	00:12:21	00:07:22	290-	71-	103-	39494
K7 (37)	21/12/12	15:31:26	15:41:00	00:09:33	00:05:48	186-	17-	83-	38522
T4 (44)	21/12/12	15:47:29	15:59:53	00:12:24	00:06:29	291-	89-	113-	39497
K3 (33)	21/12/12	16:05:18	16:16:19	00:11:01	00:05:24	202-	27-	75-	38523
T1 (28)	21/12/12	16:24:22	16:36:37	00:12:14	00:08:02	291-	63-	127-	39410
K6 (26)	21/12/12	16:38:02	16:50:05	00:12:02	00:01:24	291-	69-	124-	39542
K9 (39)	21/12/12	16:39:16	16:51:13	00:01:07	-----	221-	45-	71-	38523
T2 (40)	21/12/12	16:57:09	17:09:01	00:11:51	00:05:56	288-	42-	141-	39495
K7 (37)	21/12/12	17:13:10	17:25:27	00:12:17	00:04:09	234-	65-	69-	38523
K4 (24)	21/12/12	17:25:47	17:36:56	00:11:09	00:00:19	204-	29-	74-	38673
T4 (44)	21/12/12	17:31:31	17:42:38	00:05:42	-----	284-	28-	155-	39498
K3 (33)	21/12/12	17:47:58	18:00:22	00:12:24	00:05:19	246-	90-	69-	38524
T1 (28)	21/12/12	18:08:53	18:18:15	00:09:22	00:08:30	275-	16-	176-	39411
K6 (26)	21/12/12	18:21:44	18:31:14	00:09:30	00:03:28	277-	18-	172-	39543
K9 (39)	21/12/12	18:22:43	18:35:05	00:03:51	-----	259-	69-	70-	38524
T2 (40)	21/12/12	18:42:40	18:49:04	00:06:23	00:07:35	261-	9-	200-	39496
K7 (37)	21/12/12	18:57:02	19:09:20	00:12:18	00:07:57	268-	59-	73-	38524
R3 (45)	21/12/12	19:07:38	19:14:38	00:05:17	-----	167-	10-	97-	39685
K4 (24)	21/12/12	19:08:41	19:21:02	00:06:24	-----	248-	87-	69-	38674
K3 (33)	21/12/12	19:32:06	19:44:21	00:12:14	00:11:03	276-	54-	78-	38525
T3 (25)	21/12/12	19:52:58	20:02:28	00:09:29	00:08:37	182-	16-	84-	38479
K9 (39)	21/12/12	20:06:57	20:19:12	00:12:15	00:04:29	284-	55-	86-	38525
R2 (38)	21/12/12	20:40:11	20:44:50	00:04:38	00:20:58	149-	7-	104-	40722
K7 (37)	21/12/12	20:41:13	20:53:33	00:08:42	-----	288-	61-	94-	38525
R3 (45)	21/12/12	20:47:47	20:59:36	00:06:03	-----	222-	46-	71-	39686
K4 (24)	21/12/12	20:52:56	21:05:06	00:05:30	-----	277-	54-	79-	38675
K3 (33)	21/12/12	21:16:11	21:28:34	00:12:22	00:11:04	290-	74-	104-	38526
R1 (47)	21/12/12	21:30:13	21:40:17	00:10:03	00:01:39	188-	20-	80-	39651
T3 (25)	21/12/12	21:35:15	21:47:55	00:07:38	-----	231-	61-	69-	38480

Satellite	Date	AOS Time	LOS Time	Duration	Interval Between	AOS Az	Max EI	LOS Az	Orbit num.
K9 (39)	21/12/12	21:50:53	22:03:16	00:12:22	00:02:58	291-	83-	117-	38526
R2 (38)	21/12/12	22:19:22	22:31:02	00:11:39	00:16:06	214-	37-	73-	40723
K7 (37)	21/12/12	22:25:06	22:37:19	00:06:16	-----	290-	60-	129-	38526
R3 (45)	21/12/12	22:30:59	22:43:12	00:05:52	-----	260-	68-	70-	39687
K4 (24)	21/12/12	22:37:06	22:49:24	00:06:12	-----	291-	76-	106-	38676
K3 (33)	21/12/12	23:00:05	23:11:50	00:11:45	00:10:40	288-	40-	143-	38527
R1 (47)	21/12/12	23:12:14	23:24:35	00:12:21	00:00:23	237-	72-	69-	39652
T3 (25)	21/12/12	23:19:53	23:32:39	00:08:04	-----	266-	62-	73-	38481
K9 (39)	21/12/12	23:35:02	23:45:43	00:10:41	00:02:22	282-	24-	161-	38527
R2 (38)	21/12/13	00:02:33	00:14:57	00:12:24	00:16:50	254-	77-	69-	40724
K7 (37)	21/12/13	00:09:43	00:18:46	00:03:48	-----	274-	15-	179-	38527
R3 (45)	21/12/13	00:14:55	00:27:02	00:08:15	-----	284-	55-	86-	39688
K4 (24)	21/12/13	00:21:07	00:32:42	00:05:40	-----	287-	37-	145-	38677
K3 (33)	21/12/13	00:45:53	00:51:32	00:05:39	00:13:10	257-	8-	205-	38528
R1 (47)	21/12/13	00:56:11	01:08:29	00:12:17	00:04:38	271-	57-	75-	39653
T3 (25)	21/12/13	01:04:57	01:17:43	00:09:13	-----	287-	61-	93-	38482
R2 (38)	21/12/13	01:46:45	01:59:00	00:12:15	00:29:02	281-	54-	83-	40725
R3 (45)	21/12/13	01:58:34	02:10:48	00:11:47	-----	291-	82-	118-	39689
K4 (24)	21/12/13	02:07:23	02:12:01	00:01:13	-----	252-	7-	212-	38678
S2 (43)	21/12/13	02:37:09	02:43:00	00:05:50	00:25:07	160-	8-	104-	39625
R1 (47)	21/12/13	02:40:21	02:52:42	00:09:43	-----	289-	64-	97-	39654
T3 (25)	21/12/13	02:49:42	03:02:26	00:09:43	-----	291-	65-	127-	38483
S3 (42)	21/12/13	03:10:29	03:19:46	00:09:17	00:08:03	184-	16-	84-	39620
R2 (38)	21/12/13	03:30:45	03:43:09	00:12:24	00:10:58	291-	87-	112-	40726
S4 (29)	21/12/13	03:42:25	03:53:10	00:10:00	-----	197-	25-	76-	39537
R3 (45)	21/12/13	03:42:26	03:52:57	00:00:01	-----	281-	23-	162-	39690
S1 (46)	21/12/13	03:43:50	03:54:44	00:01:47	-----	200-	26-	76-	39538
S2 (43)	21/12/13	04:16:54	04:28:42	00:11:47	00:22:10	217-	40-	72-	39626
R1 (47)	21/12/13	04:24:14	04:36:22	00:07:39	-----	290-	54-	133-	39655
T3 (25)	21/12/13	04:35:02	04:44:58	00:08:35	-----	277-	17-	174-	38484
S3 (42)	21/12/13	04:52:04	05:04:19	00:12:15	00:07:06	232-	62-	69-	39621
R2 (38)	21/12/13	05:14:46	05:26:00	00:11:14	00:10:26	285-	29-	154-	40727
S4 (29)	21/12/13	05:24:54	05:37:17	00:11:17	-----	244-	84-	69-	39538
S1 (46)	21/12/13	05:26:25	05:38:49	00:01:32	-----	245-	87-	69-	39539
S2 (43)	21/12/13	06:00:12	06:12:36	00:12:23	00:21:23	256-	73-	70-	39627
R1 (47)	21/12/13	06:09:04	06:17:25	00:04:49	-----	270-	13-	185-	39656
S3 (42)	21/12/13	06:35:52	06:48:12	00:12:19	00:18:27	267-	60-	73-	39622
S4 (29)	21/12/13	07:08:58	07:21:14	00:12:15	00:20:46	275-	55-	77-	39539
S1 (46)	21/12/13	07:10:31	07:22:47	00:01:32	-----	276-	55-	78-	39540
S2 (43)	21/12/13	07:44:25	07:56:41	00:12:15	00:21:38	282-	55-	84-	39628
S3 (42)	21/12/13	08:20:04	08:32:23	00:12:19	00:23:23	287-	60-	93-	39623
T1 (28)	21/12/13	08:35:51	08:41:44	00:05:53	00:03:27	160-	8-	104-	39420
S4 (29)	21/12/13	08:53:05	09:05:28	00:12:22	00:11:20	290-	70-	102-	39540
S1 (46)	21/12/13	08:54:37	09:07:00	00:01:32	-----	290-	72-	103-	39541
T2 (40)	21/12/13	09:06:30	09:15:37	00:08:37	-----	182-	15-	85-	39505
S2 (43)	21/12/13	09:28:24	09:40:48	00:12:24	00:12:46	291-	89-	114-	39629
T4 (44)	21/12/13	09:39:33	09:50:19	00:09:30	-----	197-	25-	76-	39508
S3 (42)	21/12/13	10:03:57	10:16:13	00:12:15	00:13:38	291-	63-	127-	39624
T1 (28)	21/12/13	10:15:39	10:27:25	00:11:12	-----	218-	40-	72-	39421
K6 (26)	21/12/13	10:22:08	10:33:22	00:05:56	-----	209-	33-	73-	39553

Satellite	Date	AOS Time	LOS Time	Duration	Interval Between	AOS Az	Max EI	LOS Az	Orbit num.
S4 (29)	21/12/13	10:36:58	10:48:52	00:11:54	00:03:36	288-	44-	140-	39541
S1 (46)	21/12/13	10:38:30	10:50:21	00:01:28	-----	288-	41-	141-	39542
T2 (40)	21/12/13	10:48:00	11:00:12	00:09:51	-----	231-	61-	69-	39506
S2 (43)	21/12/13	11:12:27	11:23:27	00:11:00	00:12:14	283-	27-	157-	39630
T4 (44)	21/12/13	11:22:02	11:34:26	00:10:58	-----	243-	84-	69-	39509
S3 (42)	21/12/13	11:48:28	11:57:48	00:09:19	00:14:02	275-	16-	176-	39625
T1 (28)	21/12/13	11:58:57	12:11:19	00:12:22	00:01:08	256-	73-	70-	39422
K6 (26)	21/12/13	12:04:26	12:16:37	00:05:17	-----	252-	80-	69-	39554
S4 (29)	21/12/13	12:22:23	12:29:05	00:06:41	00:05:45	262-	9-	198-	39542
S1 (46)	21/12/13	12:24:07	12:30:17	00:01:12	-----	260-	9-	202-	39543
T2 (40)	21/12/13	12:31:47	12:44:05	00:12:17	00:01:30	266-	61-	73-	39507
T4 (44)	21/12/13	13:06:07	13:18:23	00:12:16	00:22:01	275-	55-	77-	39510
T1 (28)	21/12/13	13:43:10	13:55:24	00:12:14	00:24:47	282-	55-	84-	39423
K6 (26)	21/12/13	13:47:55	13:59:56	00:04:31	-----	280-	53-	81-	39555
T2 (40)	21/12/13	14:15:59	14:28:16	00:12:17	00:16:03	287-	59-	93-	39508
K7 (37)	21/12/13	14:36:08	14:42:44	00:06:35	00:07:52	163-	9-	99-	38536
T4 (44)	21/12/13	14:50:13	15:02:36	00:12:22	00:07:29	290-	70-	102-	39511
K3 (33)	21/12/13	15:09:11	15:18:40	00:09:29	00:06:35	185-	17-	83-	38537
T1 (28)	21/12/13	15:27:08	15:39:32	00:12:23	00:08:28	291-	88-	114-	39424
K6 (26)	21/12/13	15:31:14	15:43:24	00:03:52	-----	291-	80-	108-	39556
K9 (39)	21/12/13	15:42:41	15:53:49	00:10:25	-----	204-	29-	75-	38537
T2 (40)	21/12/13	15:59:52	16:12:07	00:12:15	00:06:02	291-	64-	127-	39509
K7 (37)	21/12/13	16:16:17	16:28:11	00:11:53	00:04:10	220-	43-	71-	38537
K4 (24)	21/12/13	16:30:56	16:40:45	00:09:49	00:02:44	186-	18-	81-	38687
T4 (44)	21/12/13	16:34:06	16:46:01	00:05:15	-----	289-	44-	140-	39512
K3 (33)	21/12/13	16:50:52	17:03:09	00:12:16	00:04:51	233-	65-	69-	38538
T1 (28)	21/12/13	17:11:12	17:22:10	00:10:58	00:08:02	283-	27-	157-	39425
K6 (26)	21/12/13	17:14:30	17:25:43	00:03:32	-----	286-	33-	149-	39557
K9 (39)	21/12/13	17:25:26	17:37:51	00:12:08	-----	248-	88-	69-	38538
T2 (40)	21/12/13	17:44:20	17:53:49	00:09:28	00:06:29	276-	17-	175-	39510
K7 (37)	21/12/13	17:59:41	18:12:04	00:12:22	00:05:52	258-	71-	70-	38538
K4 (24)	21/12/13	18:12:55	18:25:12	00:12:16	00:00:51	236-	69-	69-	38688
T4 (44)	21/12/13	18:19:30	18:26:14	00:01:01	-----	263-	9-	198-	39513
K3 (33)	21/12/13	18:34:44	18:47:02	00:12:18	00:08:29	268-	59-	73-	38539
T3 (25)	21/12/13	19:08:34	19:16:03	00:07:28	00:21:32	167-	10-	95-	38493
K9 (39)	21/12/13	19:09:35	19:21:50	00:05:47	-----	277-	54-	79-	38539
K7 (37)	21/12/13	19:43:55	19:56:10	00:12:15	00:22:04	283-	55-	85-	38539
R3 (45)	21/12/13	19:47:27	19:58:22	00:02:12	-----	202-	28-	75-	39700
K4 (24)	21/12/13	19:56:57	20:09:11	00:10:48	-----	269-	58-	74-	38689
K3 (33)	21/12/13	20:18:55	20:31:14	00:12:18	00:09:44	288-	61-	94-	38540
R1 (47)	21/12/13	20:34:36	20:42:14	00:07:38	00:03:21	170-	11-	94-	39665
T3 (25)	21/12/13	20:49:47	21:02:10	00:12:22	00:07:33	221-	46-	71-	38494
K9 (39)	21/12/13	20:53:39	21:06:03	00:03:52	-----	291-	75-	105-	38540
R2 (38)	21/12/13	21:22:56	21:33:33	00:10:36	00:16:53	195-	23-	77-	40737
K7 (37)	21/12/13	21:27:52	21:40:15	00:06:42	-----	291-	85-	116-	38540
R3 (45)	21/12/13	21:29:53	21:42:08	00:01:52	-----	247-	89-	69-	39701
K4 (24)	21/12/13	21:41:14	21:53:29	00:11:20	-----	288-	62-	96-	38690
K3 (33)	21/12/13	22:02:48	22:15:01	00:12:13	00:09:19	291-	61-	129-	38541
R1 (47)	21/12/13	22:15:16	22:27:19	00:12:02	00:00:14	224-	48-	70-	39666
T3 (25)	21/12/13	22:34:05	22:46:55	00:12:49	00:06:46	259-	70-	71-	38495

Satellite	Date	AOS Time	LOS Time	Duration	Interval Between	AOS Az	Max EI	LOS Az	Orbit num.
K9 (39)	21/12/13	22:37:34	22:49:15	00:02:20	-----	287-	38-	145-	38541
R2 (38)	21/12/13	23:05:19	23:17:42	00:12:23	00:16:03	242-	81-	69-	40738
K7 (37)	21/12/13	23:11:58	23:22:47	00:05:05	-----	282-	25-	160-	38541
R3 (45)	21/12/13	23:13:43	23:25:49	00:03:01	-----	277-	54-	79-	39702
K4 (24)	21/12/13	23:25:12	23:37:17	00:11:27	-----	290-	56-	131-	38691
K3 (33)	21/12/13	23:47:23	23:56:31	00:09:07	00:10:06	274-	15-	179-	38542
R1 (47)	21/12/13	23:58:49	00:11:11	00:12:22	00:02:17	261-	67-	71-	39667
T3 (25)	21/12/14	00:19:11	00:31:54	00:12:43	00:08:00	283-	57-	87-	38496
K9 (39)	21/12/14	00:23:37	00:28:39	00:03:01	-----	254-	7-	210-	38542
R2 (38)	21/12/14	00:49:22	01:01:38	00:12:16	00:20:43	274-	56-	76-	40739
R3 (45)	21/12/14	00:57:30	01:09:45	00:08:07	-----	291-	74-	105-	39703
K4 (24)	21/12/14	01:10:02	01:18:36	00:08:33	00:00:17	271-	14-	183-	38692
R1 (47)	21/12/14	01:43:02	01:55:19	00:12:16	00:24:26	285-	56-	88-	39668
T3 (25)	21/12/14	02:04:00	02:16:50	00:12:50	00:08:39	291-	82-	118-	38497
S3 (42)	21/12/14	02:15:21	02:21:21	00:04:31	-----	160-	8-	103-	39634
R2 (38)	21/12/14	02:33:29	02:45:51	00:12:22	00:12:08	290-	68-	101-	40740
R3 (45)	21/12/14	02:41:08	02:52:44	00:06:52	-----	287-	39-	143-	39704
S4 (29)	21/12/14	02:46:25	02:55:25	00:02:41	-----	181-	15-	85-	39551
S1 (46)	21/12/14	02:47:44	02:57:01	00:01:36	-----	183-	16-	84-	39552
S2 (43)	21/12/14	03:20:24	03:31:15	00:10:50	00:23:23	199-	26-	76-	39640
R1 (47)	21/12/14	03:26:58	03:39:21	00:08:05	-----	291-	78-	119-	39669
T3 (25)	21/12/14	03:49:00	04:00:06	00:11:06	00:09:38	282-	24-	162-	38498
S3 (42)	21/12/14	03:55:12	04:07:01	00:06:54	-----	218-	41-	72-	39635
R2 (38)	21/12/14	04:17:22	04:29:20	00:11:58	00:10:21	289-	46-	138-	40741
R3 (45)	21/12/14	04:26:44	04:32:02	00:02:42	-----	256-	8-	207-	39705
S4 (29)	21/12/14	04:27:50	04:40:03	00:08:00	-----	230-	59-	69-	39552
S1 (46)	21/12/14	04:29:18	04:41:33	00:01:30	-----	232-	62-	69-	39553
S2 (43)	21/12/14	05:02:57	05:15:20	00:12:23	00:21:23	245-	86-	69-	39641
R1 (47)	21/12/14	05:11:10	05:21:37	00:06:16	-----	280-	22-	164-	39670
S3 (42)	21/12/14	05:38:31	05:50:54	00:12:23	00:16:53	257-	73-	70-	39636
R2 (38)	21/12/14	06:02:36	06:09:48	00:07:11	00:11:41	265-	10-	195-	40742
S4 (29)	21/12/14	06:11:36	06:23:55	00:12:19	00:01:48	266-	61-	72-	39553
S1 (46)	21/12/14	06:13:07	06:25:26	00:01:30	-----	267-	60-	73-	39554
S2 (43)	21/12/14	06:47:02	06:59:18	00:12:15	00:21:36	275-	55-	78-	39642
S3 (42)	21/12/14	07:22:44	07:35:00	00:12:15	00:23:26	282-	55-	85-	39637
S4 (29)	21/12/14	07:55:48	08:08:06	00:12:18	00:20:48	287-	59-	92-	39554
S1 (46)	21/12/14	07:57:19	08:09:38	00:01:31	-----	287-	60-	93-	39555
T2 (40)	21/12/14	08:11:29	08:17:06	00:05:37	00:01:51	159-	8-	101-	39519
S2 (43)	21/12/14	08:31:08	08:43:31	00:12:23	00:14:02	290-	71-	103-	39643
T4 (44)	21/12/14	08:43:33	08:52:32	00:08:58	00:00:01	181-	15-	85-	39522
S3 (42)	21/12/14	09:06:42	09:19:06	00:12:24	00:14:09	291-	88-	115-	39638
K6 (26)	21/12/14	09:16:34	09:26:08	00:07:02	-----	188-	18-	82-	39567
T1 (28)	21/12/14	09:19:09	09:30:00	00:03:51	-----	199-	26-	76-	39435
S4 (29)	21/12/14	09:39:41	09:51:59	00:12:17	00:09:41	291-	66-	126-	39555
S1 (46)	21/12/14	09:41:11	09:53:27	00:01:28	-----	291-	63-	127-	39556
T2 (40)	21/12/14	09:51:09	10:02:54	00:09:26	-----	217-	40-	72-	39520
S2 (43)	21/12/14	10:15:01	10:26:53	00:11:51	00:12:07	288-	42-	141-	39644
T4 (44)	21/12/14	10:24:57	10:37:10	00:10:16	-----	230-	59-	69-	39523
S3 (42)	21/12/14	10:50:46	11:01:46	00:11:00	00:13:35	283-	27-	157-	39639
K6 (26)	21/12/14	10:57:45	11:09:50	00:08:03	-----	236-	69-	69-	39568

Satellite	Date	AOS Time	LOS Time	Duration	Interval Between	AOS Az	Max EI	LOS Az	Orbit num.
T1 (28)	21/12/14	11:01:43	11:14:05	00:04:15	-----	245-	87-	69-	39436
S4 (29)	21/12/14	11:24:08	11:33:44	00:09:36	00:10:02	276-	17-	173-	39556
S1 (46)	21/12/14	11:25:43	11:35:03	00:01:19	-----	275-	16-	176-	39557
T2 (40)	21/12/14	11:34:26	11:46:48	00:11:44	-----	256-	73-	70-	39521
S2 (43)	21/12/14	12:00:33	12:06:56	00:06:22	00:13:45	261-	9-	200-	39645
T4 (44)	21/12/14	12:08:42	12:21:02	00:12:19	00:01:46	266-	61-	72-	39524
K6 (26)	21/12/14	12:40:57	12:53:01	00:12:03	00:19:54	269-	57-	74-	39569
T1 (28)	21/12/14	12:45:49	12:58:03	00:05:02	-----	275-	55-	78-	39437
T2 (40)	21/12/14	13:18:38	13:30:52	00:12:13	00:20:35	282-	54-	84-	39522
T4 (44)	21/12/14	13:52:55	14:05:14	00:12:18	00:22:02	287-	59-	92-	39525
K3 (33)	21/12/14	14:13:56	14:20:23	00:06:26	00:08:42	163-	9-	100-	38551
K6 (26)	21/12/14	14:24:25	14:36:31	00:12:05	00:04:02	288-	61-	95-	39570
T1 (28)	21/12/14	14:29:55	14:42:17	00:05:45	-----	290-	71-	103-	39438
K9 (39)	21/12/14	14:46:30	14:56:12	00:09:42	00:04:13	188-	18-	82-	38551
T2 (40)	21/12/14	15:02:37	15:15:00	00:12:23	00:06:24	291-	89-	114-	39523
K7 (37)	21/12/14	15:19:44	15:30:47	00:11:02	00:04:44	202-	28-	75-	38551
K4 (24)	21/12/14	15:36:44	15:44:04	00:07:20	00:05:57	168-	11-	95-	38701
T4 (44)	21/12/14	15:36:48	15:49:06	00:05:01	-----	291-	66-	126-	39526
K3 (33)	21/12/14	15:54:01	16:05:53	00:11:52	00:04:54	219-	43-	71-	38552
K6 (26)	21/12/14	16:07:35	16:19:32	00:11:57	00:01:42	290-	58-	130-	39571
T1 (28)	21/12/14	16:13:48	16:25:38	00:06:05	-----	288-	42-	141-	39439
K9 (39)	21/12/14	16:28:19	16:40:37	00:12:18	00:02:40	235-	67-	69-	38552
T2 (40)	21/12/14	16:46:39	16:57:41	00:11:01	00:06:02	284-	27-	156-	39524
K7 (37)	21/12/14	17:02:25	17:14:50	00:12:24	00:04:44	246-	90-	69-	38552
K4 (24)	21/12/14	17:17:22	17:29:21	00:11:58	00:02:32	222-	47-	71-	38702
T4 (44)	21/12/14	17:21:14	17:30:51	00:01:30	-----	276-	17-	173-	39527
K3 (33)	21/12/14	17:37:23	17:49:46	00:12:22	00:06:32	258-	71-	70-	38553
K6 (26)	21/12/14	17:51:34	18:00:09	00:08:34	00:01:48	272-	14-	181-	39572
T1 (28)	21/12/14	17:59:21	18:05:39	00:05:30	-----	261-	9-	200-	39440
K9 (39)	21/12/14	18:12:12	18:24:30	00:12:17	00:06:33	269-	59-	74-	38553
K7 (37)	21/12/14	18:46:33	18:58:48	00:12:15	00:22:02	276-	54-	78-	38553
R3 (45)	21/12/14	18:47:38	18:56:49	00:01:05	-----	184-	16-	84-	39714
K4 (24)	21/12/14	19:00:59	19:13:18	00:12:19	00:04:09	260-	68-	70-	38703
K3 (33)	21/12/14	19:21:37	19:33:52	00:12:15	00:08:19	283-	55-	85-	38554
K9 (39)	21/12/14	19:56:23	20:08:43	00:12:19	00:22:31	288-	62-	95-	38554
T3 (25)	21/12/14	20:04:29	20:16:22	00:07:39	-----	210-	34-	72-	38508
R2 (38)	21/12/14	20:27:01	20:35:43	00:08:41	00:10:39	178-	14-	87-	40751
R3 (45)	21/12/14	20:28:58	20:41:04	00:05:21	-----	233-	63-	69-	39715
K7 (37)	21/12/14	20:30:38	20:43:01	00:01:57	-----	291-	74-	104-	38554
K4 (24)	21/12/14	20:45:19	20:57:30	00:12:11	00:02:17	284-	55-	87-	38704
K3 (33)	21/12/14	21:05:34	21:17:58	00:12:23	00:08:04	291-	86-	116-	38555
R1 (47)	21/12/14	21:18:37	21:29:57	00:11:19	00:00:38	207-	31-	74-	39680
K9 (39)	21/12/14	21:40:16	21:52:27	00:12:11	00:10:19	290-	58-	130-	38555
T3 (25)	21/12/14	21:48:20	22:01:11	00:08:43	-----	251-	81-	69-	38509
R2 (38)	21/12/14	22:08:15	22:20:26	00:12:10	00:07:04	229-	56-	70-	40752
R3 (45)	21/12/14	22:12:30	22:24:40	00:04:13	-----	267-	60-	73-	39716
K7 (37)	21/12/14	22:14:32	22:26:18	00:01:37	-----	288-	39-	143-	38555
K4 (24)	21/12/14	22:29:21	22:41:38	00:12:16	00:03:03	291-	80-	118-	38705
K3 (33)	21/12/14	22:49:40	23:00:31	00:10:51	00:08:02	283-	25-	159-	38556
R1 (47)	21/12/14	23:01:30	23:13:56	00:12:25	00:00:58	250-	84-	69-	39681

Satellite	Date	AOS Time	LOS Time	Duration	Interval Between	AOS Az	Max EI	LOS Az	Orbit num.
K9 (39)	21/12/14	23:24:56	23:33:48	00:08:51	00:11:00	273-	14-	181-	38556
T3 (25)	21/12/14	23:33:23	23:46:06	00:12:17	-----	279-	55-	82-	38510
R2 (38)	21/12/14	23:51:58	00:04:18	00:12:20	00:05:52	264-	63-	72-	40753
R3 (45)	21/12/14	23:56:25	00:08:34	00:04:16	-----	287-	60-	93-	39717
K7 (37)	21/12/15	00:00:21	00:05:58	00:02:03	-----	257-	8-	206-	38556
K4 (24)	21/12/15	00:13:38	00:24:03	00:10:25	00:07:40	281-	23-	163-	38706
R1 (47)	21/12/15	00:45:41	00:57:56	00:12:15	00:21:37	278-	54-	80-	39682
T3 (25)	21/12/15	01:18:17	01:31:08	00:12:51	00:20:20	291-	83-	110-	38511
R2 (38)	21/12/15	01:36:11	01:48:29	00:12:17	00:05:02	286-	58-	91-	40754
R3 (45)	21/12/15	01:40:00	01:52:07	00:03:37	-----	291-	62-	128-	39718
S4 (29)	21/12/15	01:51:33	01:56:49	00:04:42	-----	158-	8-	102-	39565
S1 (46)	21/12/15	01:52:36	01:58:34	00:01:45	-----	160-	8-	103-	39566
S2 (43)	21/12/15	02:24:21	02:33:30	00:09:09	00:25:46	182-	15-	85-	39654
R1 (47)	21/12/15	02:29:43	02:42:08	00:08:37	-----	291-	79-	107-	39683
S3 (42)	21/12/15	02:58:41	03:09:34	00:10:53	00:16:32	199-	26-	76-	39649
T3 (25)	21/12/15	03:03:06	03:14:57	00:05:22	-----	286-	33-	150-	38512
R2 (38)	21/12/15	03:20:05	03:32:23	00:12:18	00:05:07	291-	69-	124-	40755
R3 (45)	21/12/15	03:24:15	03:33:24	00:01:00	-----	274-	16-	177-	39719
S4 (29)	21/12/15	03:31:01	03:42:44	00:09:20	-----	216-	39-	72-	39566
S1 (46)	21/12/15	03:32:26	03:44:14	00:01:29	-----	218-	41-	72-	39567
S2 (43)	21/12/15	04:05:51	04:18:05	00:12:13	00:21:36	231-	61-	69-	39655
R1 (47)	21/12/15	04:13:40	04:25:14	00:07:08	-----	287-	35-	147-	39684
S3 (42)	21/12/15	04:41:15	04:53:39	00:12:23	00:16:01	245-	87-	69-	39650
R2 (38)	21/12/15	05:04:27	05:14:17	00:09:49	00:10:47	278-	18-	171-	40756
S4 (29)	21/12/15	05:14:16	05:26:39	00:12:22	-----	255-	75-	70-	39567
S1 (46)	21/12/15	05:15:45	05:28:08	00:01:28	-----	257-	73-	70-	39568
S2 (43)	21/12/15	05:49:38	06:01:57	00:12:18	00:21:30	266-	61-	73-	39656
R1 (47)	21/12/15	06:00:12	06:04:01	00:02:03	-----	247-	6-	218-	39685
S3 (42)	21/12/15	06:25:21	06:37:37	00:12:15	00:21:20	275-	55-	78-	39651
S4 (29)	21/12/15	06:58:28	07:10:44	00:12:15	00:20:51	282-	54-	84-	39568
S1 (46)	21/12/15	06:59:58	07:12:13	00:01:29	-----	282-	55-	84-	39569
S2 (43)	21/12/15	07:33:50	07:46:09	00:12:18	00:21:37	287-	60-	93-	39657
T4 (44)	21/12/15	07:48:40	07:53:54	00:05:13	00:02:31	158-	8-	102-	39536
S3 (42)	21/12/15	08:09:27	08:21:50	00:12:23	00:15:33	290-	72-	103-	39652
K6 (26)	21/12/15	08:12:21	08:17:57	00:03:05	-----	159-	8-	105-	39581
T1 (28)	21/12/15	08:23:07	08:32:18	00:09:10	00:05:09	183-	16-	84-	39449
S4 (29)	21/12/15	08:42:27	08:54:52	00:12:24	00:10:09	291-	89-	113-	39569
S1 (46)	21/12/15	08:43:56	08:56:20	00:01:28	-----	291-	88-	115-	39570
T2 (40)	21/12/15	08:54:39	09:05:26	00:09:06	-----	198-	25-	76-	39534
S2 (43)	21/12/15	09:17:43	09:30:00	00:12:16	00:12:16	291-	64-	127-	39658
T4 (44)	21/12/15	09:28:07	09:39:51	00:09:50	-----	216-	38-	72-	39537
K6 (26)	21/12/15	09:51:25	10:02:59	00:11:33	00:11:34	217-	40-	72-	39582
S3 (42)	21/12/15	09:53:20	10:05:11	00:02:12	-----	288-	42-	141-	39653
T1 (28)	21/12/15	10:04:39	10:16:52	00:11:40	-----	232-	61-	69-	39450
S4 (29)	21/12/15	10:26:29	10:37:36	00:11:06	00:09:37	284-	28-	155-	39570
S1 (46)	21/12/15	10:28:00	10:39:00	00:01:23	-----	283-	27-	157-	39571
T2 (40)	21/12/15	10:37:10	10:49:32	00:10:32	-----	244-	85-	69-	39535
S2 (43)	21/12/15	11:02:13	11:11:39	00:09:26	00:12:40	276-	17-	175-	39659
T4 (44)	21/12/15	11:11:21	11:23:45	00:12:05	-----	255-	75-	70-	39538
K6 (26)	21/12/15	11:34:01	11:46:10	00:12:09	00:10:15	257-	72-	69-	39583

Satellite	Date	AOS Time	LOS Time	Duration	Interval Between	AOS Az	Max El	LOS Az	Orbit num.
S3 (42)	21/12/15	11:38:55	11:45:09	00:01:00	-----	260-	9-	201-	39654
T1 (28)	21/12/15	11:48:27	12:00:44	00:12:17	00:03:17	267-	60-	73-	39451
T2 (40)	21/12/15	12:21:15	12:33:30	00:12:14	00:20:31	275-	55-	77-	39536
T4 (44)	21/12/15	12:55:34	13:07:49	00:12:15	00:22:04	282-	54-	83-	39539
K6 (26)	21/12/15	13:17:32	13:29:33	00:12:01	00:09:42	282-	53-	84-	39584
T1 (28)	21/12/15	13:32:39	13:44:56	00:12:17	00:03:05	287-	60-	93-	39452
K9 (39)	21/12/15	13:51:06	13:58:01	00:06:54	00:06:10	165-	10-	98-	38565
T2 (40)	21/12/15	14:05:21	14:17:43	00:12:21	00:07:20	290-	71-	102-	39537
K7 (37)	21/12/15	14:23:37	14:33:08	00:09:30	00:05:53	186-	17-	83-	38565
T4 (44)	21/12/15	14:39:33	14:51:57	00:12:24	00:06:25	291-	89-	113-	39540
K3 (33)	21/12/15	14:57:29	15:08:29	00:11:00	00:05:31	201-	27-	75-	38566
K6 (26)	21/12/15	15:00:48	15:12:57	00:04:28	-----	292-	90-	114-	39585
T1 (28)	21/12/15	15:16:31	15:28:46	00:12:15	00:03:33	291-	64-	127-	39453
K9 (39)	21/12/15	15:31:25	15:43:21	00:11:56	00:02:38	221-	45-	71-	38566
T2 (40)	21/12/15	15:49:14	16:01:06	00:11:51	00:05:53	288-	43-	140-	39538
K7 (37)	21/12/15	16:05:19	16:17:36	00:12:17	00:04:12	234-	65-	69-	38566
K4 (24)	21/12/15	16:22:06	16:33:23	00:11:17	00:04:29	206-	30-	74-	38716
T4 (44)	21/12/15	16:23:35	16:34:43	00:01:20	-----	284-	28-	155-	39541
K3 (33)	21/12/15	16:40:09	16:52:33	00:12:24	00:05:25	246-	89-	69-	38567
K6 (26)	21/12/15	16:44:08	16:54:58	00:02:25	-----	284-	27-	156-	39586
T1 (28)	21/12/15	17:01:01	17:10:26	00:09:25	00:06:03	275-	16-	175-	39454
K9 (39)	21/12/15	17:14:51	17:27:14	00:12:22	00:04:24	259-	69-	70-	38567
T2 (40)	21/12/15	17:34:43	17:41:13	00:06:29	00:07:29	262-	9-	199-	39539
R3 (45)	21/12/15	17:49:03	17:54:22	00:05:19	00:07:50	159-	8-	102-	39728
K7 (37)	21/12/15	17:49:10	18:01:29	00:07:07	-----	268-	59-	73-	38567
K4 (24)	21/12/15	18:05:04	18:17:27	00:12:22	00:03:35	249-	85-	69-	38717
K3 (33)	21/12/15	18:24:16	18:36:31	00:12:15	00:06:48	276-	54-	78-	38568
K9 (39)	21/12/15	18:59:05	19:11:20	00:12:15	00:22:33	283-	55-	86-	38568
T3 (25)	21/12/15	19:19:20	19:30:30	00:11:10	00:07:59	198-	25-	76-	38522
R3 (45)	21/12/15	19:28:21	19:39:57	00:09:26	-----	217-	39-	72-	39729
R2 (38)	21/12/15	19:32:22	19:36:49	00:03:07	-----	147-	7-	105-	40765
K7 (37)	21/12/15	19:33:22	19:45:41	00:08:51	-----	288-	61-	94-	38568
K4 (24)	21/12/15	19:49:21	20:01:32	00:12:11	00:03:40	278-	54-	80-	38718
K3 (33)	21/12/15	20:08:21	20:20:44	00:12:23	00:06:48	290-	73-	104-	38569
R1 (47)	21/12/15	20:22:20	20:32:22	00:10:01	00:01:36	188-	19-	80-	39694
K9 (39)	21/12/15	20:43:01	20:55:25	00:12:23	00:10:39	291-	83-	117-	38569
T3 (25)	21/12/15	21:02:38	21:15:28	00:12:49	00:07:13	243-	84-	69-	38523
R3 (45)	21/12/15	21:11:20	21:23:34	00:08:05	-----	256-	74-	70-	39730
R2 (38)	21/12/15	21:11:27	21:23:06	00:00:02	-----	214-	37-	73-	40766
K7 (37)	21/12/15	21:17:14	21:29:28	00:06:21	-----	291-	60-	129-	38569
K4 (24)	21/12/15	21:33:31	21:45:49	00:12:18	00:04:02	291-	78-	107-	38719
K3 (33)	21/12/15	21:52:15	22:04:02	00:11:46	00:06:25	288-	40-	143-	38570
R1 (47)	21/12/15	22:04:20	22:16:41	00:12:20	00:00:18	237-	72-	69-	39695
K9 (39)	21/12/15	22:27:09	22:37:52	00:10:42	00:10:28	282-	24-	161-	38570
T3 (25)	21/12/15	22:47:35	23:00:18	00:12:42	00:09:42	274-	56-	77-	38524
R2 (38)	21/12/15	22:54:37	23:07:02	00:06:44	-----	254-	77-	69-	40767
R3 (45)	21/12/15	22:55:15	23:07:21	00:00:19	-----	282-	54-	84-	39731
K7 (37)	21/12/15	23:01:50	23:10:56	00:03:35	-----	274-	15-	179-	38570
K4 (24)	21/12/15	23:17:33	23:29:03	00:11:30	00:06:36	287-	35-	147-	38720
K3 (33)	21/12/15	23:38:01	23:43:47	00:05:46	00:08:57	258-	8-	205-	38571

Satellite	Date	AOS Time	LOS Time	Duration	Interval Between	AOS Az	Max EI	LOS Az	Orbit num.
R1 (47)	21/12/15	23:48:17	00:00:35	00:12:18	00:04:30	270-	57-	74-	39696
T3 (25)	21/12/16	00:32:33	00:45:23	00:12:50	00:31:57	290-	71-	102-	38525
R2 (38)	21/12/16	00:38:50	00:51:05	00:05:41	-----	281-	54-	83-	40768
R3 (45)	21/12/16	00:38:57	00:51:12	00:00:07	-----	291-	90-	113-	39732
K4 (24)	21/12/16	01:04:07	01:08:01	00:03:54	00:12:54	247-	6-	218-	38721
S2 (43)	21/12/16	01:29:18	01:35:01	00:05:42	00:21:16	159-	8-	105-	39668
R1 (47)	21/12/16	01:32:27	01:44:48	00:09:47	-----	289-	64-	97-	39697
S3 (42)	21/12/16	02:02:36	02:11:50	00:09:14	00:17:48	183-	16-	84-	39663
T3 (25)	21/12/16	02:17:18	02:29:38	00:12:20	00:05:27	289-	44-	140-	38526
R3 (45)	21/12/16	02:22:42	02:33:38	00:03:59	-----	284-	27-	156-	39733
R2 (38)	21/12/16	02:22:50	02:35:14	00:01:36	-----	291-	86-	112-	40769
S4 (29)	21/12/16	02:34:34	02:45:17	00:10:03	-----	197-	24-	77-	39580
S1 (46)	21/12/16	02:35:54	02:46:47	00:01:29	-----	199-	26-	76-	39581
S2 (43)	21/12/16	03:09:00	03:20:46	00:11:46	00:22:12	217-	40-	72-	39669
R1 (47)	21/12/16	03:16:20	03:28:28	00:07:42	-----	290-	54-	133-	39698
S3 (42)	21/12/16	03:44:09	03:56:24	00:12:14	00:15:40	232-	62-	69-	39664
T3 (25)	21/12/16	04:03:33	04:10:40	00:07:06	00:07:09	264-	10-	197-	38527
R2 (38)	21/12/16	04:06:50	04:18:05	00:07:25	-----	285-	30-	153-	40770
S4 (29)	21/12/16	04:17:02	04:29:25	00:11:19	-----	243-	84-	69-	39581
S1 (46)	21/12/16	04:18:28	04:30:52	00:01:27	-----	245-	87-	69-	39582
S2 (43)	21/12/16	04:52:17	05:04:40	00:12:23	00:21:24	256-	73-	70-	39670
R1 (47)	21/12/16	05:01:09	05:09:34	00:04:53	-----	271-	13-	185-	39699
S3 (42)	21/12/16	05:27:57	05:40:16	00:12:19	00:18:23	267-	60-	73-	39665
S4 (29)	21/12/16	06:01:06	06:13:22	00:12:15	00:20:49	275-	55-	77-	39582
S1 (46)	21/12/16	06:02:34	06:14:50	00:01:27	-----	275-	55-	78-	39583
S2 (43)	21/12/16	06:36:30	06:48:45	00:12:15	00:21:40	282-	55-	84-	39671
S3 (42)	21/12/16	07:12:09	07:24:28	00:12:18	00:23:24	287-	60-	93-	39666
T1 (28)	21/12/16	07:28:04	07:33:51	00:05:47	00:03:36	160-	8-	105-	39463
S4 (29)	21/12/16	07:45:13	07:57:36	00:12:22	00:11:21	290-	70-	102-	39583
S1 (46)	21/12/16	07:46:40	07:59:03	00:01:27	-----	290-	72-	103-	39584
T2 (40)	21/12/16	07:58:37	08:07:41	00:08:38	-----	182-	15-	85-	39548
S2 (43)	21/12/16	08:20:28	08:32:52	00:12:24	00:12:46	291-	89-	114-	39672
T4 (44)	21/12/16	08:31:39	08:42:22	00:09:29	-----	197-	24-	77-	39551
K6 (26)	21/12/16	08:45:39	08:55:54	00:10:14	00:03:16	193-	22-	78-	39596
S3 (42)	21/12/16	08:56:02	09:08:18	00:12:16	00:00:08	291-	63-	127-	39667
T1 (28)	21/12/16	09:07:49	09:19:35	00:11:16	-----	217-	40-	72-	39464
S4 (29)	21/12/16	09:29:06	09:41:01	00:11:55	00:09:31	289-	44-	139-	39584
S1 (46)	21/12/16	09:30:33	09:42:24	00:01:23	-----	288-	42-	141-	39585
T2 (40)	21/12/16	09:40:05	09:52:17	00:09:52	-----	231-	60-	69-	39549
S2 (43)	21/12/16	10:04:31	10:15:35	00:11:03	00:12:13	284-	27-	157-	39673
T4 (44)	21/12/16	10:14:06	10:26:30	00:10:55	-----	243-	84-	69-	39552
K6 (26)	21/12/16	10:27:15	10:39:23	00:12:08	00:00:45	241-	80-	68-	39597
S3 (42)	21/12/16	10:40:33	10:49:55	00:09:22	00:01:09	275-	16-	176-	39668
T1 (28)	21/12/16	10:51:06	11:03:29	00:12:22	00:01:11	256-	73-	70-	39465
S4 (29)	21/12/16	11:14:29	11:21:16	00:06:46	00:11:00	263-	10-	197-	39585
S1 (46)	21/12/16	11:16:07	11:22:23	00:01:07	-----	260-	9-	201-	39586
T2 (40)	21/12/16	11:23:52	11:36:09	00:12:17	00:01:28	266-	61-	73-	39550
T4 (44)	21/12/16	11:58:10	12:10:26	00:12:16	00:22:00	274-	55-	77-	39553
K6 (26)	21/12/16	12:10:34	12:22:36	00:12:02	00:00:07	273-	55-	76-	39598
T1 (28)	21/12/16	12:35:20	12:47:34	00:12:13	00:12:43	282-	54-	84-	39466

Satellite	Date	AOS Time	LOS Time	Duration	Interval Between	AOS Az	Max EI	LOS Az	Orbit num.
T2 (40)	21/12/16	13:08:04	13:20:21	00:12:17	00:20:30	287-	59-	92-	39551
K7 (37)	21/12/16	13:28:20	13:34:50	00:06:30	00:07:59	163-	9-	100-	38579
T4 (44)	21/12/16	13:42:17	13:54:40	00:12:22	00:07:26	290-	70-	102-	39554
K6 (26)	21/12/16	13:54:00	14:06:07	00:11:27	-----	290-	66-	99-	39599