

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

Satellite	Date	AOS Time	LOS Time	Duration	Interval Between	AOS Az	Max El	LOS Az	Orbit num.
S3 (42)	21/11/30	13:49:44	14:01:12	00:11:28	11:56:13	309-	29-	83-	39437
T1 (28)	21/11/30	13:59:36	14:10:37	00:09:24	-----	198-	27-	70-	39234
S4 (29)	21/11/30	14:22:34	14:34:23	00:11:48	00:11:57	310-	37-	95-	39354
S1 (46)	21/11/30	14:24:28	14:36:19	00:01:56	-----	310-	38-	97-	39355
K6 (26)	21/11/30	14:30:20	14:41:22	00:05:02	-----	201-	30-	69-	39365
T2 (40)	21/11/30	14:31:57	14:43:56	00:02:34	-----	215-	47-	63-	39319
S2 (43)	21/11/30	14:58:05	15:10:18	00:12:13	00:14:08	308-	55-	110-	39443
T4 (44)	21/11/30	15:05:55	15:18:16	00:07:58	-----	230-	79-	57-	39322
S3 (42)	21/11/30	15:33:33	15:45:55	00:12:22	00:15:16	304-	88-	125-	39438
T1 (28)	21/11/30	15:42:27	15:54:45	00:08:49	-----	246-	62-	53-	39235
S4 (29)	21/11/30	16:06:19	16:18:31	00:12:12	00:11:34	300-	59-	138-	39355
S1 (46)	21/11/30	16:08:13	16:20:22	00:01:50	-----	299-	55-	140-	39356
K6 (26)	21/11/30	16:12:41	16:24:41	00:04:19	-----	249-	57-	52-	39366
T2 (40)	21/11/30	16:15:46	16:27:44	00:03:03	-----	260-	42-	51-	39320
S2 (43)	21/11/30	16:42:05	16:53:28	00:11:23	00:14:20	292-	32-	156-	39444
T4 (44)	21/11/30	16:50:26	17:02:00	00:08:31	-----	272-	32-	51-	39323
S3 (42)	21/11/30	17:18:09	17:27:49	00:09:39	00:16:09	280-	18-	177-	39439
T1 (28)	21/11/30	17:27:33	17:38:35	00:10:46	-----	285-	25-	53-	39236
S4 (29)	21/11/30	17:52:01	17:58:48	00:06:46	00:13:26	265-	10-	200-	39356
S1 (46)	21/11/30	17:54:12	18:00:18	00:01:29	-----	261-	9-	204-	39357
K6 (26)	21/11/30	17:57:09	18:07:48	00:07:29	-----	288-	24-	52-	39367
T2 (40)	21/11/30	18:01:05	18:11:51	00:04:02	-----	295-	23-	57-	39321
T4 (44)	21/11/30	18:35:45	18:46:27	00:10:42	00:23:54	302-	22-	63-	39324
K3 (33)	21/11/30	18:54:52	19:00:09	00:05:16	00:08:25	150-	8-	101-	38350
T1 (28)	21/11/30	19:12:34	19:23:30	00:10:56	00:12:24	307-	24-	73-	39237
K9 (39)	21/11/30	19:27:08	19:36:45	00:09:37	00:03:37	182-	17-	78-	38350
K6 (26)	21/11/30	19:41:26	19:52:00	00:10:34	00:04:41	308-	24-	73-	39368
T2 (40)	21/11/30	19:45:43	19:57:04	00:05:03	-----	309-	29-	84-	39322
K7 (37)	21/11/30	20:00:15	20:11:28	00:11:12	00:03:10	200-	29-	69-	38350
T4 (44)	21/11/30	20:20:00	20:31:47	00:11:47	00:08:32	310-	37-	95-	39325
K3 (33)	21/11/30	20:34:24	20:46:28	00:12:04	00:02:36	217-	51-	62-	38351
T1 (28)	21/11/30	20:56:28	21:08:42	00:12:13	00:10:00	308-	55-	110-	39238
K9 (39)	21/11/30	21:09:00	21:21:22	00:12:22	00:00:17	235-	88-	56-	38351
K6 (26)	21/11/30	21:24:35	21:36:25	00:11:49	00:03:13	308-	56-	111-	39369
T2 (40)	21/11/30	21:29:28	21:41:51	00:05:25	-----	304-	85-	124-	39323
K4 (24)	21/11/30	21:38:18	21:50:02	00:08:11	-----	211-	42-	64-	38501
K7 (37)	21/11/30	21:43:15	21:55:31	00:05:28	-----	248-	59-	53-	38351
T4 (44)	21/11/30	22:03:45	22:15:56	00:12:11	00:08:13	300-	60-	138-	39326
K3 (33)	21/11/30	22:18:20	22:30:15	00:11:54	00:02:24	262-	40-	51-	38352
T1 (28)	21/11/30	22:40:28	22:51:52	00:11:23	00:10:13	292-	32-	156-	39239
K9 (39)	21/11/30	22:53:43	23:05:06	00:11:22	00:01:51	276-	29-	51-	38352
K6 (26)	21/11/30	23:07:56	23:18:45	00:10:48	00:02:50	290-	29-	159-	39370
T2 (40)	21/11/30	23:14:01	23:23:51	00:05:06	-----	281-	18-	175-	39324
K4 (24)	21/11/30	23:22:01	23:33:59	00:10:07	-----	257-	45-	51-	38502
K7 (37)	21/11/30	23:28:24	23:39:23	00:05:23	-----	287-	25-	53-	38352
T3 (25)	21/11/30	23:45:58	23:55:21	00:09:22	00:06:35	175-	15-	81-	38308
T4 (44)	21/11/30	23:49:27	23:56:13	00:00:52	-----	265-	10-	200-	39327
K3 (33)	21/12/01	00:03:41	00:14:24	00:10:43	00:07:27	296-	22-	58-	38353

Satellite	Date	AOS Time	LOS Time	Duration	Interval Between	AOS Az	Max El	LOS Az	Orbit num.
R3 (45)	21/12/01	00:21:35	00:33:08	00:11:33	00:07:11	208-	38-	65-	39513
K9 (39)	21/12/01	00:38:58	00:49:42	00:10:43	00:05:49	304-	23-	66-	38353
K4 (24)	21/12/01	01:07:25	01:18:07	00:10:41	00:17:43	293-	23-	56-	38503
R2 (38)	21/12/01	01:08:02	01:16:25	00:01:04	-----	173-	13-	86-	40550
K7 (37)	21/12/01	01:13:22	01:24:21	00:07:56	-----	308-	25-	74-	38353
T3 (25)	21/12/01	01:28:15	01:41:04	00:12:49	00:03:54	231-	81-	57-	38309
K3 (33)	21/12/01	01:48:16	01:59:39	00:11:23	00:07:11	310-	30-	85-	38354
R1 (47)	21/12/01	01:59:19	02:10:51	00:11:11	-----	204-	34-	66-	39479
R3 (45)	21/12/01	02:04:46	02:16:45	00:05:54	-----	255-	48-	52-	39514
K9 (39)	21/12/01	02:23:06	02:35:02	00:11:55	00:06:21	309-	41-	99-	38354
R2 (38)	21/12/01	02:49:10	03:01:30	00:12:19	00:14:08	228-	74-	58-	40551
K4 (24)	21/12/01	02:52:13	03:03:24	00:01:54	-----	309-	27-	81-	38504
K7 (37)	21/12/01	02:57:14	03:09:29	00:06:05	-----	307-	58-	112-	38354
T3 (25)	21/12/01	03:13:40	03:25:41	00:12:00	00:04:10	273-	33-	52-	38310
K3 (33)	21/12/01	03:32:00	03:44:21	00:12:21	00:06:18	304-	89-	126-	38355
R1 (47)	21/12/01	03:42:37	03:54:48	00:10:27	-----	252-	52-	52-	39480
R3 (45)	21/12/01	03:49:45	04:00:26	00:05:38	-----	292-	23-	55-	39515
K9 (39)	21/12/01	04:06:54	04:18:55	00:12:01	00:06:27	298-	49-	143-	38355
R2 (38)	21/12/01	04:33:37	04:45:13	00:11:35	00:14:42	271-	33-	51-	40552
K4 (24)	21/12/01	04:36:03	04:48:24	00:03:11	-----	305-	78-	121-	38505
K7 (37)	21/12/01	04:41:18	04:52:32	00:04:07	-----	290-	29-	159-	38355
T3 (25)	21/12/01	04:59:50	05:11:04	00:11:14	00:07:18	301-	24-	65-	38311
K3 (33)	21/12/01	05:16:40	05:26:08	00:09:28	00:05:35	279-	17-	179-	38356
R1 (47)	21/12/01	05:27:50	05:38:44	00:10:53	00:01:42	290-	24-	54-	39481
R3 (45)	21/12/01	05:34:15	05:45:16	00:06:32	-----	309-	26-	79-	39516
K9 (39)	21/12/01	05:53:22	05:58:14	00:04:52	00:08:05	254-	7-	213-	38356
R2 (38)	21/12/01	06:18:56	06:29:37	00:10:41	00:20:42	301-	22-	62-	40553
K4 (24)	21/12/01	06:20:33	06:30:44	00:01:06	-----	284-	20-	171-	38506
S1 (46)	21/12/01	06:34:10	06:38:51	00:04:40	00:03:26	148-	7-	102-	39365
T3 (25)	21/12/01	06:44:57	06:57:17	00:12:20	00:06:06	309-	40-	97-	38312
S2 (43)	21/12/01	07:05:18	07:14:19	00:09:00	00:08:00	177-	15-	83-	39453
R1 (47)	21/12/01	07:12:42	07:23:48	00:09:28	-----	308-	26-	77-	39482
R3 (45)	21/12/01	07:17:45	07:29:57	00:06:09	-----	306-	71-	118-	39517
S3 (42)	21/12/01	07:39:28	07:50:31	00:11:03	00:09:30	197-	28-	69-	39448
R2 (38)	21/12/01	08:03:15	08:14:58	00:11:43	00:12:43	310-	35-	94-	40554
S4 (29)	21/12/01	08:11:36	08:23:31	00:08:33	-----	213-	45-	63-	39365
S1 (46)	21/12/01	08:13:23	08:25:25	00:01:53	-----	216-	49-	62-	39366
T3 (25)	21/12/01	08:29:35	08:42:11	00:12:36	00:04:09	299-	56-	140-	38313
S2 (43)	21/12/01	08:46:47	08:59:09	00:12:22	00:04:35	231-	82-	57-	39454
R1 (47)	21/12/01	08:56:31	09:08:50	00:09:40	-----	307-	66-	116-	39483
R3 (45)	21/12/01	09:01:45	09:12:12	00:03:21	-----	286-	23-	168-	39518
S3 (42)	21/12/01	09:22:20	09:34:38	00:12:18	00:10:08	247-	62-	53-	39449
R2 (38)	21/12/01	09:46:59	09:59:12	00:12:13	00:12:20	300-	64-	136-	40555
S4 (29)	21/12/01	09:55:20	10:07:21	00:08:09	-----	259-	43-	51-	39366
S1 (46)	21/12/01	09:57:15	10:09:13	00:01:51	-----	261-	41-	51-	39367
T3 (25)	21/12/01	10:16:20	10:23:03	00:06:42	00:07:06	264-	9-	202-	38314
S2 (43)	21/12/01	10:31:22	10:42:52	00:11:30	00:08:18	273-	31-	51-	39455
R1 (47)	21/12/01	10:40:43	10:51:32	00:08:39	-----	288-	25-	164-	39484
S3 (42)	21/12/01	11:07:26	11:18:29	00:11:03	00:15:53	286-	25-	53-	39450
R2 (38)	21/12/01	11:32:28	11:39:46	00:07:17	00:13:59	268-	10-	196-	40556

Satellite	Date	AOS Time	LOS Time	Duration	Interval Between	AOS Az	Max El	LOS Az	Orbit num.
S4 (29)	21/12/01	11:40:39	11:51:26	00:10:47	00:00:53	294-	23-	57-	39367
S1 (46)	21/12/01	11:42:35	11:53:20	00:01:54	-----	295-	23-	57-	39368
S2 (43)	21/12/01	12:16:39	12:27:22	00:10:43	00:23:18	302-	22-	64-	39456
S3 (42)	21/12/01	12:52:27	13:03:24	00:10:57	00:25:04	307-	24-	73-	39451
T1 (28)	21/12/01	13:03:43	13:12:43	00:09:00	00:00:18	178-	15-	83-	39248
K6 (26)	21/12/01	13:25:12	13:33:42	00:08:29	00:12:29	175-	14-	85-	39379
S4 (29)	21/12/01	13:25:19	13:36:39	00:02:57	-----	309-	28-	83-	39368
S1 (46)	21/12/01	13:27:12	13:38:35	00:01:55	-----	309-	29-	84-	39369
T2 (40)	21/12/01	13:35:28	13:46:24	00:07:49	-----	195-	27-	70-	39333
S2 (43)	21/12/01	14:00:53	14:12:43	00:11:50	00:14:28	310-	38-	96-	39457
T4 (44)	21/12/01	14:09:00	14:20:56	00:08:13	-----	213-	45-	63-	39336
S3 (42)	21/12/01	14:36:20	14:48:35	00:12:14	00:15:24	308-	56-	110-	39452
T1 (28)	21/12/01	14:45:12	14:57:33	00:08:58	-----	231-	82-	57-	39249
K6 (26)	21/12/01	15:05:51	15:17:58	00:12:06	00:08:17	230-	78-	57-	39380
S4 (29)	21/12/01	15:09:04	15:21:27	00:03:29	-----	305-	83-	123-	39369
S1 (46)	21/12/01	15:10:56	15:23:19	00:01:51	-----	304-	88-	125-	39370
T2 (40)	21/12/01	15:18:15	15:30:33	00:07:13	-----	246-	63-	53-	39334
S2 (43)	21/12/01	15:44:38	15:56:48	00:12:10	00:14:05	299-	57-	139-	39458
T4 (44)	21/12/01	15:52:45	16:04:46	00:07:57	-----	259-	43-	51-	39337
S3 (42)	21/12/01	16:20:21	16:31:43	00:11:21	00:15:35	291-	32-	157-	39453
T1 (28)	21/12/01	16:29:47	16:41:17	00:09:33	-----	274-	31-	51-	39250
K6 (26)	21/12/01	16:49:41	17:00:56	00:11:15	00:08:23	273-	31-	50-	39381
S4 (29)	21/12/01	16:53:34	17:03:33	00:02:36	-----	282-	19-	174-	39370
S1 (46)	21/12/01	16:55:32	17:05:12	00:01:39	-----	280-	18-	177-	39371
T2 (40)	21/12/01	17:03:19	17:14:22	00:09:10	-----	285-	25-	53-	39335
S2 (43)	21/12/01	17:30:30	17:36:53	00:06:23	00:16:07	263-	9-	203-	39459
T4 (44)	21/12/01	17:38:04	17:48:50	00:10:46	00:01:11	294-	23-	57-	39338
T1 (28)	21/12/01	18:15:04	18:25:47	00:10:42	00:26:14	302-	22-	64-	39251
K9 (39)	21/12/01	18:32:07	18:38:06	00:05:59	00:06:19	158-	8-	101-	38364
K6 (26)	21/12/01	18:34:18	18:44:37	00:06:31	-----	302-	21-	62-	39382
T2 (40)	21/12/01	18:48:21	18:59:17	00:10:55	00:03:44	307-	24-	72-	39336
K7 (37)	21/12/01	19:04:14	19:13:38	00:09:23	00:04:57	181-	16-	80-	38364
T4 (44)	21/12/01	19:22:44	19:34:02	00:11:18	00:09:06	309-	28-	83-	39339
K3 (33)	21/12/01	19:37:52	19:49:01	00:11:08	00:03:49	198-	29-	69-	38365
T1 (28)	21/12/01	19:59:18	20:11:08	00:11:50	00:10:17	310-	38-	96-	39252
K9 (39)	21/12/01	20:11:59	20:24:06	00:12:07	00:00:50	219-	55-	61-	38365
K6 (26)	21/12/01	20:17:52	20:29:13	00:05:06	-----	310-	35-	93-	39383
T2 (40)	21/12/01	20:32:16	20:44:29	00:12:13	00:03:02	308-	54-	109-	39337
K4 (24)	21/12/01	20:43:15	20:53:53	00:09:24	-----	192-	24-	72-	38515
K7 (37)	21/12/01	20:45:57	20:58:20	00:04:27	-----	233-	88-	56-	38365
T4 (44)	21/12/01	21:06:29	21:18:51	00:12:22	00:08:08	305-	82-	123-	39340
K3 (33)	21/12/01	21:20:49	21:33:05	00:12:16	00:01:58	248-	60-	53-	38366
T1 (28)	21/12/01	21:43:03	21:55:13	00:12:10	00:09:57	299-	57-	139-	39253
K9 (39)	21/12/01	21:56:00	22:07:52	00:11:51	00:00:47	264-	39-	51-	38366
K6 (26)	21/12/01	22:00:54	22:12:42	00:04:50	-----	300-	62-	137-	39384
T2 (40)	21/12/01	22:16:15	22:27:41	00:11:26	00:03:32	292-	33-	156-	39338
K4 (24)	21/12/01	22:25:58	22:38:12	00:10:31	-----	243-	68-	54-	38516
K7 (37)	21/12/01	22:30:38	22:42:03	00:03:51	-----	275-	30-	51-	38366
T4 (44)	21/12/01	22:50:59	23:00:56	00:09:56	00:08:55	282-	19-	174-	39341
T3 (25)	21/12/01	23:01:49	23:08:38	00:06:48	00:00:53	161-	9-	97-	38322

Satellite	Date	AOS Time	LOS Time	Duration	Interval Between	AOS Az	Max El	LOS Az	Orbit num.
K3 (33)	21/12/01	23:05:57	23:16:57	00:08:18	-----	286-	25-	53-	38367
R3 (45)	21/12/01	23:21:35	23:31:37	00:10:01	00:04:38	188-	20-	75-	39527
T1 (28)	21/12/01	23:28:55	23:35:17	00:03:40	-----	263-	9-	202-	39254
K9 (39)	21/12/01	23:41:21	23:52:04	00:10:42	00:06:03	297-	22-	58-	38367
K6 (26)	21/12/01	23:45:48	23:52:26	00:00:21	-----	265-	10-	199-	39385
K4 (24)	21/12/02	00:11:04	00:22:05	00:11:01	00:18:38	283-	26-	52-	38517
K7 (37)	21/12/02	00:15:54	00:26:37	00:04:31	-----	303-	22-	65-	38367
T3 (25)	21/12/02	00:42:43	00:55:20	00:12:36	00:16:06	220-	57-	60-	38323
K3 (33)	21/12/02	00:50:56	01:01:54	00:06:34	-----	308-	25-	74-	38368
R1 (47)	21/12/02	01:03:06	01:13:08	00:10:01	00:01:12	187-	19-	76-	39493
R3 (45)	21/12/02	01:03:31	01:15:45	00:02:37	-----	239-	79-	55-	39528
K9 (39)	21/12/02	01:25:53	01:37:20	00:11:27	00:10:07	310-	30-	87-	38368
R2 (38)	21/12/02	01:52:19	02:04:09	00:11:50	00:14:58	211-	42-	64-	40565
K4 (24)	21/12/02	01:56:15	02:07:02	00:02:53	-----	307-	23-	71-	38518
K7 (37)	21/12/02	02:00:04	02:11:57	00:04:54	-----	309-	40-	98-	38368
T3 (25)	21/12/02	02:27:39	02:39:58	00:12:19	00:15:41	264-	39-	52-	38324
K3 (33)	21/12/02	02:34:49	02:47:03	00:07:05	-----	308-	57-	111-	38369
R1 (47)	21/12/02	02:45:13	02:57:37	00:10:33	-----	238-	82-	55-	39494
R3 (45)	21/12/02	02:48:06	02:59:13	00:01:36	-----	280-	27-	51-	39529
K9 (39)	21/12/02	03:09:36	03:21:58	00:12:21	00:10:23	303-	85-	128-	38369
R2 (38)	21/12/02	03:35:56	03:48:00	00:12:03	00:13:58	257-	45-	52-	40566
K4 (24)	21/12/02	03:40:16	03:52:24	00:04:23	-----	308-	51-	107-	38519
K7 (37)	21/12/02	03:43:51	03:55:55	00:03:31	-----	298-	52-	142-	38369
T3 (25)	21/12/02	04:13:51	04:25:05	00:11:13	00:17:55	297-	24-	60-	38325
K3 (33)	21/12/02	04:18:51	04:30:08	00:05:02	-----	291-	30-	158-	38370
R1 (47)	21/12/02	04:30:03	04:41:21	00:11:13	-----	279-	28-	52-	39495
R3 (45)	21/12/02	04:33:00	04:43:38	00:02:16	-----	305-	23-	67-	39530
K9 (39)	21/12/02	04:54:23	05:03:34	00:09:10	00:10:45	278-	16-	182-	38370
R2 (38)	21/12/02	05:21:15	05:32:02	00:10:47	00:17:40	293-	23-	56-	40567
K4 (24)	21/12/02	05:24:17	05:35:53	00:03:51	-----	293-	36-	153-	38520
K7 (37)	21/12/02	05:30:03	05:35:34	00:00:01	-----	258-	8-	209-	38370
T3 (25)	21/12/02	05:59:14	06:11:15	00:12:01	00:23:39	309-	33-	89-	38326
R1 (47)	21/12/02	06:15:16	06:26:02	00:10:46	00:04:00	305-	23-	67-	39496
R3 (45)	21/12/02	06:16:45	06:28:39	00:02:37	-----	309-	44-	102-	39531
S3 (42)	21/12/02	06:43:31	06:52:37	00:09:06	00:14:51	178-	15-	82-	39462
R2 (38)	21/12/02	07:05:58	07:17:12	00:11:14	00:13:20	309-	28-	81-	40568
S4 (29)	21/12/02	07:15:08	07:26:00	00:08:47	-----	194-	26-	71-	39379
S1 (46)	21/12/02	07:16:51	07:27:54	00:01:54	-----	197-	28-	70-	39380
T3 (25)	21/12/02	07:43:50	07:56:39	00:12:49	00:15:56	303-	80-	130-	38327
S2 (43)	21/12/02	07:49:51	08:01:50	00:05:10	-----	214-	47-	62-	39468
R1 (47)	21/12/02	07:59:20	08:11:20	00:09:30	-----	309-	44-	102-	39497
R3 (45)	21/12/02	08:00:19	08:12:03	00:00:42	-----	296-	43-	147-	39532
S3 (42)	21/12/02	08:25:03	08:37:25	00:12:22	00:13:00	232-	83-	57-	39463
R2 (38)	21/12/02	08:49:43	09:02:05	00:12:21	00:12:17	305-	78-	121-	40569
S4 (29)	21/12/02	08:57:51	09:10:11	00:08:06	-----	245-	65-	54-	39380
S1 (46)	21/12/02	08:59:43	09:12:01	00:01:50	-----	247-	62-	53-	39381
T3 (25)	21/12/02	09:29:36	09:38:54	00:09:17	00:17:34	277-	15-	183-	38328
S2 (43)	21/12/02	09:33:39	09:45:38	00:06:44	-----	260-	42-	51-	39469
R1 (47)	21/12/02	09:43:10	09:55:04	00:09:25	-----	296-	45-	146-	39498
S3 (42)	21/12/02	10:09:38	10:21:09	00:11:30	00:14:34	274-	31-	51-	39464

Satellite	Date	AOS Time	LOS Time	Duration	Interval Between	AOS Az	Max EI	LOS Az	Orbit num.
R2 (38)	21/12/02	10:34:08	10:44:19	00:10:11	00:12:59	284-	20-	171-	40570
S4 (29)	21/12/02	10:42:54	10:54:00	00:09:40	-----	284-	26-	53-	39381
S1 (46)	21/12/02	10:44:48	10:55:51	00:01:51	-----	286-	25-	53-	39382
S2 (43)	21/12/02	11:18:59	11:29:45	00:10:46	00:23:07	295-	23-	57-	39470
S3 (42)	21/12/02	11:54:56	12:05:39	00:10:43	00:25:10	302-	22-	64-	39465
S4 (29)	21/12/02	12:27:57	12:38:53	00:10:55	00:22:18	307-	24-	72-	39382
S1 (46)	21/12/02	12:29:49	12:40:47	00:01:54	-----	307-	24-	73-	39383
T2 (40)	21/12/02	12:39:33	12:48:26	00:07:39	-----	177-	14-	83-	39347
S2 (43)	21/12/02	13:03:37	13:14:59	00:11:21	00:15:10	309-	29-	84-	39471
T4 (44)	21/12/02	13:12:31	13:23:23	00:08:24	-----	194-	26-	71-	39350
S3 (42)	21/12/02	13:39:09	13:51:00	00:11:51	00:15:45	310-	38-	97-	39466
T1 (28)	21/12/02	13:48:18	14:00:15	00:09:15	-----	214-	48-	62-	39263
K6 (26)	21/12/02	13:59:34	14:11:03	00:10:17	-----	208-	38-	65-	39394
S4 (29)	21/12/02	14:11:53	14:24:05	00:12:12	00:00:50	308-	53-	108-	39383
S1 (46)	21/12/02	14:13:43	14:25:57	00:01:51	-----	308-	56-	110-	39384
T2 (40)	21/12/02	14:21:00	14:33:20	00:07:22	-----	231-	81-	57-	39348
S2 (43)	21/12/02	14:47:21	14:59:44	00:12:23	00:14:01	304-	86-	124-	39472
T4 (44)	21/12/02	14:55:14	15:07:34	00:07:49	-----	245-	66-	54-	39351
S3 (42)	21/12/02	15:22:54	15:35:03	00:12:09	00:15:20	299-	56-	140-	39467
T1 (28)	21/12/02	15:32:06	15:44:04	00:09:00	-----	260-	42-	51-	39264
K6 (26)	21/12/02	15:42:21	15:54:13	00:10:08	-----	255-	47-	51-	39395
S4 (29)	21/12/02	15:55:51	16:07:22	00:11:30	00:01:38	293-	34-	154-	39384
S1 (46)	21/12/02	15:57:44	16:09:05	00:01:43	-----	291-	32-	157-	39385
T2 (40)	21/12/02	16:05:32	16:17:03	00:07:57	-----	273-	31-	51-	39349
S2 (43)	21/12/02	16:31:55	16:41:43	00:09:47	00:14:52	281-	18-	176-	39473
T4 (44)	21/12/02	16:40:17	16:51:23	00:09:39	-----	284-	26-	53-	39352
S3 (42)	21/12/02	17:08:50	17:15:03	00:06:13	00:17:27	262-	9-	204-	39468
T1 (28)	21/12/02	17:17:26	17:28:11	00:10:44	00:02:22	295-	23-	57-	39265
K6 (26)	21/12/02	17:26:56	17:37:27	00:09:15	-----	292-	23-	54-	39396
T2 (40)	21/12/02	17:50:50	18:01:32	00:10:42	00:13:23	302-	22-	63-	39350
K7 (37)	21/12/02	18:09:26	18:14:48	00:05:21	00:07:53	155-	8-	100-	38378
T4 (44)	21/12/02	18:25:21	18:36:15	00:10:54	00:10:33	307-	24-	72-	39353
K3 (33)	21/12/02	18:41:53	18:51:10	00:09:17	00:05:37	180-	16-	80-	38379
T1 (28)	21/12/02	19:02:04	19:13:25	00:11:21	00:10:53	309-	29-	84-	39266
K6 (26)	21/12/02	19:11:03	19:21:49	00:08:23	-----	309-	25-	78-	39397
K9 (39)	21/12/02	19:15:22	19:26:40	00:04:51	-----	200-	31-	68-	38379
T2 (40)	21/12/02	19:35:04	19:46:53	00:11:49	00:08:23	310-	37-	96-	39351
K4 (24)	21/12/02	19:48:49	19:57:15	00:08:25	00:01:56	174-	13-	86-	38529
K7 (37)	21/12/02	19:48:59	20:01:04	00:03:48	-----	218-	52-	62-	38379
T4 (44)	21/12/02	20:09:17	20:21:28	00:12:11	00:08:12	308-	53-	108-	39354
K3 (33)	21/12/02	20:23:32	20:35:55	00:12:22	00:02:04	233-	86-	57-	38380
T1 (28)	21/12/02	20:45:48	20:58:11	00:12:23	00:09:53	304-	86-	124-	39267
K6 (26)	21/12/02	20:54:07	21:06:04	00:07:52	-----	306-	69-	117-	39398
K9 (39)	21/12/02	20:58:27	21:10:42	00:04:38	-----	249-	57-	53-	38380
T2 (40)	21/12/02	21:18:49	21:31:00	00:12:11	00:08:06	299-	58-	139-	39352
K4 (24)	21/12/02	21:30:08	21:42:23	00:11:23	-----	229-	76-	58-	38530
K7 (37)	21/12/02	21:32:56	21:44:50	00:02:26	-----	262-	40-	51-	38380
T4 (44)	21/12/02	21:53:14	22:04:44	00:11:29	00:08:24	293-	34-	154-	39355
K3 (33)	21/12/02	22:08:11	22:19:38	00:11:26	00:03:27	275-	30-	51-	38381
R3 (45)	21/12/02	22:22:40	22:29:15	00:06:35	00:03:01	162-	9-	98-	39541

Satellite	Date	AOS Time	LOS Time	Duration	Interval Between	AOS Az	Max EI	LOS Az	Orbit num.
T1 (28)	21/12/02	22:30:22	22:40:10	00:09:48	00:01:06	281-	18-	175-	39268
K6 (26)	21/12/02	22:37:41	22:47:54	00:07:43	-----	286-	23-	167-	39399
K9 (39)	21/12/02	22:43:37	22:54:35	00:06:40	-----	288-	24-	54-	38381
T2 (40)	21/12/02	23:04:36	23:11:10	00:06:33	00:10:01	264-	9-	201-	39353
K4 (24)	21/12/02	23:14:43	23:26:12	00:11:28	00:03:33	272-	32-	51-	38531
K7 (37)	21/12/02	23:18:16	23:29:00	00:02:47	-----	296-	22-	58-	38381
K3 (33)	21/12/02	23:53:28	00:04:11	00:10:42	00:24:28	303-	22-	64-	38382
T3 (25)	21/12/02	23:57:22	00:09:30	00:05:19	-----	208-	39-	64-	38337
R3 (45)	21/12/03	00:02:38	00:14:41	00:05:10	-----	222-	59-	60-	39542
R1 (47)	21/12/03	00:07:48	00:14:43	00:00:01	-----	163-	10-	96-	39507
K9 (39)	21/12/03	00:28:34	00:39:34	00:11:00	00:13:51	308-	25-	75-	38382
R2 (38)	21/12/03	00:55:53	01:06:34	00:10:40	00:16:19	191-	24-	72-	40579
K4 (24)	21/12/03	01:00:08	01:10:44	00:04:09	-----	302-	22-	62-	38532
K7 (37)	21/12/03	01:02:51	01:14:15	00:03:31	-----	310-	30-	85-	38382
K3 (33)	21/12/03	01:37:39	01:49:31	00:11:52	00:23:23	309-	39-	98-	38383
T3 (25)	21/12/03	01:41:41	01:54:17	00:04:45	-----	255-	50-	52-	38338
R3 (45)	21/12/03	01:46:30	01:58:09	00:03:52	-----	266-	36-	51-	39543
R1 (47)	21/12/03	01:48:08	02:00:22	00:02:12	-----	222-	60-	60-	39508
K9 (39)	21/12/03	02:12:25	02:24:41	00:12:16	00:12:03	307-	60-	113-	38383
R2 (38)	21/12/03	02:38:28	02:50:48	00:12:20	00:13:46	243-	69-	54-	40580
K4 (24)	21/12/03	02:44:29	02:56:11	00:05:22	-----	310-	36-	94-	38533
K7 (37)	21/12/03	02:46:34	02:58:56	00:02:44	-----	304-	89-	126-	38383
K3 (33)	21/12/03	03:21:25	03:33:31	00:12:05	00:22:29	298-	53-	141-	38384
T3 (25)	21/12/03	03:27:49	03:39:10	00:05:38	-----	291-	25-	56-	38339
R3 (45)	21/12/03	03:31:33	03:42:06	00:02:55	-----	298-	22-	59-	39544
R1 (47)	21/12/03	03:32:18	03:44:06	00:02:00	-----	266-	37-	51-	39509
K9 (39)	21/12/03	03:56:31	04:07:38	00:11:07	00:12:24	290-	28-	161-	38384
R2 (38)	21/12/03	04:23:27	04:34:36	00:11:08	00:15:49	283-	26-	52-	40581
K4 (24)	21/12/03	04:28:18	04:40:30	00:05:54	-----	300-	62-	137-	38534
K7 (37)	21/12/03	04:31:16	04:40:40	00:00:09	-----	279-	17-	179-	38384
K3 (33)	21/12/03	05:07:32	05:13:17	00:05:45	00:26:52	259-	8-	207-	38385
T3 (25)	21/12/03	05:13:29	05:25:11	00:11:42	00:00:11	308-	28-	81-	38340
R3 (45)	21/12/03	05:15:44	05:27:07	00:01:55	-----	310-	31-	88-	39545
R1 (47)	21/12/03	05:17:39	05:28:21	00:01:14	-----	298-	22-	59-	39510
R2 (38)	21/12/03	06:08:34	06:19:25	00:10:51	00:40:12	306-	24-	70-	40582
K4 (24)	21/12/03	06:13:59	06:21:02	00:01:37	-----	266-	10-	198-	38535
S4 (29)	21/12/03	06:19:18	06:28:00	00:06:56	-----	175-	14-	84-	39393
S1 (46)	21/12/03	06:20:53	06:29:59	00:02:00	-----	178-	15-	82-	39394
S2 (43)	21/12/03	06:53:20	07:04:18	00:10:58	00:23:20	195-	27-	70-	39482
T3 (25)	21/12/03	06:58:08	07:10:58	00:06:40	-----	305-	75-	120-	38341
R3 (45)	21/12/03	06:59:10	07:11:22	00:00:23	-----	303-	80-	130-	39546
R1 (47)	21/12/03	07:02:07	07:13:39	00:02:17	-----	310-	32-	89-	39511
S3 (42)	21/12/03	07:28:06	07:40:06	00:12:00	00:14:26	215-	48-	62-	39477
R2 (38)	21/12/03	07:52:31	08:04:40	00:12:08	00:12:25	308-	50-	107-	40583
S4 (29)	21/12/03	08:00:37	08:12:58	00:08:18	-----	230-	78-	57-	39394
S1 (46)	21/12/03	08:02:25	08:14:47	00:01:49	-----	232-	83-	57-	39395
S2 (43)	21/12/03	08:36:08	08:48:27	00:12:18	00:21:20	246-	63-	53-	39483
T3 (25)	21/12/03	08:43:20	08:54:14	00:05:46	-----	286-	23-	169-	38342
R3 (45)	21/12/03	08:43:48	08:52:27	00:01:04	-----	275-	14-	184-	39547
R1 (47)	21/12/03	08:45:50	08:58:10	00:05:42	-----	302-	78-	130-	39512

Satellite	Date	AOS Time	LOS Time	Duration	Interval Between	AOS Az	Max EI	LOS Az	Orbit num.
S3 (42)	21/12/03	09:11:56	09:23:55	00:11:58	00:13:46	261-	42-	51-	39478
R2 (38)	21/12/03	09:36:27	09:48:03	00:11:36	00:12:32	294-	36-	152-	40584
S4 (29)	21/12/03	09:45:08	09:56:42	00:08:38	-----	272-	32-	51-	39395
S1 (46)	21/12/03	09:47:00	09:58:31	00:01:48	-----	274-	31-	51-	39396
S2 (43)	21/12/03	10:21:13	10:32:17	00:11:04	00:22:41	285-	25-	53-	39484
R1 (47)	21/12/03	10:30:49	10:39:28	00:07:11	-----	275-	14-	186-	39513
S3 (42)	21/12/03	10:57:16	11:08:02	00:10:45	00:17:47	295-	23-	57-	39479
S4 (29)	21/12/03	11:30:26	11:41:09	00:10:42	00:22:24	302-	22-	63-	39396
S1 (46)	21/12/03	11:32:18	11:43:01	00:01:51	-----	302-	22-	64-	39397
S2 (43)	21/12/03	12:06:15	12:17:11	00:10:56	00:23:13	307-	24-	73-	39485
T4 (44)	21/12/03	12:16:40	12:25:21	00:08:10	-----	175-	14-	84-	39364
S3 (42)	21/12/03	12:41:53	12:53:16	00:11:22	00:16:31	309-	29-	84-	39480
T1 (28)	21/12/03	12:51:48	13:02:46	00:09:29	-----	195-	27-	70-	39277
K6 (26)	21/12/03	12:54:03	13:03:41	00:00:55	-----	185-	18-	78-	39408
S4 (29)	21/12/03	13:14:42	13:26:30	00:11:47	00:11:01	310-	37-	95-	39397
S1 (46)	21/12/03	13:16:31	13:28:22	00:01:51	-----	310-	38-	97-	39398
T2 (40)	21/12/03	13:24:04	13:36:00	00:07:38	-----	214-	47-	62-	39362
S2 (43)	21/12/03	13:50:09	14:02:23	00:12:13	00:14:09	308-	54-	110-	39486
T4 (44)	21/12/03	13:58:00	14:10:20	00:07:57	-----	230-	78-	57-	39365
S3 (42)	21/12/03	14:25:38	14:38:01	00:12:23	00:15:17	304-	87-	124-	39481
T1 (28)	21/12/03	14:34:36	14:46:54	00:08:53	-----	246-	63-	53-	39278
K6 (26)	21/12/03	14:35:22	14:47:31	00:00:36	-----	236-	84-	55-	39409
S4 (29)	21/12/03	14:58:27	15:10:40	00:12:13	00:10:55	300-	60-	138-	39398
S1 (46)	21/12/03	15:00:16	15:12:25	00:01:45	-----	299-	56-	140-	39399
T2 (40)	21/12/03	15:07:51	15:19:49	00:07:23	-----	260-	42-	51-	39363
S2 (43)	21/12/03	15:34:09	15:45:34	00:11:25	00:14:19	292-	32-	156-	39487
T4 (44)	21/12/03	15:42:30	15:54:03	00:08:29	-----	272-	32-	51-	39366
S3 (42)	21/12/03	16:10:13	16:19:56	00:09:42	00:16:09	281-	18-	176-	39482
K6 (26)	21/12/03	16:19:27	16:30:31	00:10:34	-----	278-	28-	51-	39410
T1 (28)	21/12/03	16:19:41	16:30:44	00:00:13	-----	285-	25-	53-	39279
S4 (29)	21/12/03	16:44:07	16:51:00	00:06:52	00:13:22	265-	10-	199-	39399
S1 (46)	21/12/03	16:46:11	16:52:25	00:01:25	-----	262-	9-	204-	39400
T2 (40)	21/12/03	16:53:10	17:03:55	00:10:45	00:00:44	295-	23-	57-	39364
T4 (44)	21/12/03	17:27:48	17:38:31	00:10:42	00:23:53	302-	22-	63-	39367
K3 (33)	21/12/03	17:47:11	17:52:16	00:05:05	00:08:40	154-	7-	101-	38393
K6 (26)	21/12/03	18:04:00	18:14:23	00:10:23	00:11:43	305-	22-	65-	39411
T1 (28)	21/12/03	18:04:43	18:15:39	00:01:15	-----	307-	24-	73-	39280
K9 (39)	21/12/03	18:19:18	18:28:52	00:09:34	00:03:38	182-	17-	79-	38393
T2 (40)	21/12/03	18:37:48	18:49:08	00:11:20	00:08:55	309-	29-	83-	39365
K7 (37)	21/12/03	18:52:25	19:03:36	00:11:10	00:03:16	199-	29-	69-	38393
T4 (44)	21/12/03	19:12:04	19:23:51	00:11:46	00:08:28	310-	37-	95-	39368
K3 (33)	21/12/03	19:26:35	19:38:39	00:12:03	00:02:44	217-	51-	62-	38394
K6 (26)	21/12/03	19:47:24	19:58:58	00:11:34	00:08:45	310-	40-	99-	39412
T1 (28)	21/12/03	19:48:37	20:00:51	00:01:52	-----	308-	55-	110-	39281
K9 (39)	21/12/03	20:01:08	20:13:31	00:12:22	00:00:17	235-	89-	56-	38394
T2 (40)	21/12/03	20:21:32	20:33:55	00:12:22	00:08:01	305-	84-	124-	39366
K4 (24)	21/12/03	20:34:39	20:46:28	00:11:49	00:00:43	212-	44-	63-	38544
K7 (37)	21/12/03	20:35:24	20:47:40	00:01:11	-----	248-	59-	53-	38394
T4 (44)	21/12/03	20:55:49	21:08:01	00:12:12	00:08:08	300-	60-	138-	39369
K3 (33)	21/12/03	21:10:30	21:22:26	00:11:55	00:02:29	262-	40-	51-	38395

Satellite	Date	AOS Time	LOS Time	Duration	Interval Between	AOS Az	Max EI	LOS Az	Orbit num.
K6 (26)	21/12/03	21:30:30	21:42:07	00:11:37	00:08:03	297-	48-	144-	39413
T1 (28)	21/12/03	21:32:37	21:44:02	00:01:55	-----	292-	32-	156-	39282
K9 (39)	21/12/03	21:45:51	21:57:14	00:11:23	00:01:48	276-	29-	51-	38395
T2 (40)	21/12/03	22:06:05	22:15:58	00:09:53	00:08:50	282-	18-	175-	39367
K4 (24)	21/12/03	22:18:28	22:30:23	00:11:55	00:02:30	259-	43-	51-	38545
K7 (37)	21/12/03	22:20:32	22:31:31	00:01:08	-----	287-	25-	53-	38395
T4 (44)	21/12/03	22:41:28	22:48:21	00:06:52	00:09:56	265-	10-	199-	39370
K3 (33)	21/12/03	22:55:51	23:06:34	00:10:43	00:07:29	296-	22-	57-	38396
R3 (45)	21/12/03	23:02:14	23:13:25	00:06:50	-----	201-	31-	68-	39556
T3 (25)	21/12/03	23:12:13	23:23:34	00:10:09	-----	195-	27-	70-	38351
K6 (26)	21/12/03	23:16:28	23:20:31	00:03:03	-----	250-	6-	218-	39414
K9 (39)	21/12/03	23:31:06	23:41:50	00:10:43	00:10:35	304-	23-	65-	38396
R2 (38)	21/12/04	00:00:09	00:08:28	00:08:19	00:18:19	172-	13-	87-	40593
K4 (24)	21/12/04	00:03:53	00:14:33	00:06:04	-----	294-	23-	56-	38546
K7 (37)	21/12/04	00:05:31	00:16:29	00:01:56	-----	308-	25-	74-	38396
K3 (33)	21/12/04	00:40:26	00:51:49	00:11:23	00:23:56	310-	29-	85-	38397
R3 (45)	21/12/04	00:45:04	00:57:09	00:05:19	-----	250-	55-	53-	39557
R1 (47)	21/12/04	00:51:26	01:02:57	00:05:47	-----	204-	34-	66-	39522
T3 (25)	21/12/04	00:55:49	01:08:36	00:05:39	-----	245-	66-	54-	38352
K9 (39)	21/12/04	01:15:15	01:27:10	00:11:55	00:06:38	309-	41-	99-	38397
R2 (38)	21/12/04	01:41:15	01:53:35	00:12:19	00:14:05	228-	73-	58-	40594
K4 (24)	21/12/04	01:48:39	01:59:51	00:06:16	-----	309-	28-	82-	38547
K7 (37)	21/12/04	01:49:23	02:01:38	00:01:46	-----	307-	58-	112-	38397
K3 (33)	21/12/04	02:24:10	02:36:32	00:12:21	00:22:31	304-	90-	126-	38398
R3 (45)	21/12/04	02:29:57	02:40:45	00:04:13	-----	288-	24-	53-	39558
R1 (47)	21/12/04	02:34:42	02:46:54	00:06:09	-----	252-	53-	52-	39523
T3 (25)	21/12/04	02:41:44	02:53:19	00:06:24	-----	284-	27-	54-	38353
K9 (39)	21/12/04	02:59:02	03:11:04	00:12:02	00:05:42	298-	50-	143-	38398
R2 (38)	21/12/04	03:25:41	03:37:18	00:11:36	00:14:36	271-	33-	51-	40595
K4 (24)	21/12/04	03:32:28	03:44:48	00:07:30	-----	305-	82-	123-	38548
K7 (37)	21/12/04	03:33:26	03:44:41	00:00:06	-----	291-	30-	159-	38398
K3 (33)	21/12/04	04:08:49	04:18:20	00:09:30	00:24:08	280-	17-	179-	38399
R3 (45)	21/12/04	04:14:36	04:25:28	00:07:07	-----	308-	25-	75-	39559
R1 (47)	21/12/04	04:19:55	04:30:50	00:05:22	-----	289-	24-	54-	39524
T3 (25)	21/12/04	04:27:40	04:39:06	00:08:16	-----	306-	25-	73-	38354
K9 (39)	21/12/04	04:45:27	04:50:28	00:05:00	00:06:20	255-	7-	212-	38399
R2 (38)	21/12/04	05:11:00	05:21:42	00:10:41	00:20:32	301-	22-	62-	40596
K4 (24)	21/12/04	05:17:02	05:27:01	00:05:19	-----	282-	19-	174-	38549
S2 (43)	21/12/04	05:57:25	06:06:21	00:08:56	00:30:23	177-	15-	83-	39496
R3 (45)	21/12/04	05:58:09	06:10:17	00:03:56	-----	307-	61-	113-	39560
R1 (47)	21/12/04	06:04:48	06:15:53	00:05:36	-----	308-	26-	77-	39525
T3 (25)	21/12/04	06:12:27	06:25:10	00:09:16	-----	307-	56-	110-	38355
S3 (42)	21/12/04	06:31:34	06:42:36	00:11:01	00:06:24	196-	27-	70-	39491
R2 (38)	21/12/04	06:55:19	07:07:02	00:11:42	00:12:43	310-	35-	93-	40597
S4 (29)	21/12/04	07:03:44	07:15:39	00:08:37	-----	213-	45-	63-	39408
S1 (46)	21/12/04	07:05:28	07:17:28	00:01:48	-----	215-	48-	62-	39409
S2 (43)	21/12/04	07:38:52	07:51:14	00:12:21	00:21:23	231-	81-	57-	39497
R3 (45)	21/12/04	07:41:58	07:52:55	00:01:41	-----	289-	28-	161-	39561
R1 (47)	21/12/04	07:48:37	08:00:56	00:08:00	-----	307-	66-	116-	39526
T3 (25)	21/12/04	07:57:19	08:09:11	00:08:14	-----	292-	33-	156-	38356

Satellite	Date	AOS Time	LOS Time	Duration	Interval Between	AOS Az	Max El	LOS Az	Orbit num.
S3 (42)	21/12/04	08:14:24	08:26:43	00:12:18	00:05:13	246-	62-	53-	39492
R2 (38)	21/12/04	08:39:03	08:51:17	00:12:14	00:12:19	301-	64-	136-	40598
S4 (29)	21/12/04	08:47:28	08:59:29	00:08:12	-----	259-	44-	51-	39409
S1 (46)	21/12/04	08:49:18	09:01:16	00:01:46	-----	261-	42-	51-	39410
S2 (43)	21/12/04	09:23:25	09:34:57	00:11:31	00:22:09	273-	31-	51-	39498
R1 (47)	21/12/04	09:32:48	09:43:40	00:08:42	-----	288-	25-	164-	39527
S3 (42)	21/12/04	09:59:30	10:10:33	00:11:03	00:15:50	285-	25-	53-	39493
R2 (38)	21/12/04	10:24:30	10:31:54	00:07:23	00:13:56	268-	11-	196-	40599
S4 (29)	21/12/04	10:32:46	10:43:34	00:10:47	00:00:52	294-	23-	56-	39410
S1 (46)	21/12/04	10:34:37	10:45:23	00:01:49	-----	295-	23-	57-	39411
S2 (43)	21/12/04	11:08:43	11:19:26	00:10:43	00:23:20	302-	22-	64-	39499
S3 (42)	21/12/04	11:44:31	11:55:29	00:10:57	00:25:04	307-	24-	73-	39494
T1 (28)	21/12/04	11:55:54	12:04:50	00:08:55	00:00:25	177-	15-	83-	39291
S4 (29)	21/12/04	12:17:27	12:28:46	00:11:19	00:12:37	309-	28-	82-	39411
S1 (46)	21/12/04	12:19:15	12:30:37	00:01:50	-----	309-	29-	84-	39412
T2 (40)	21/12/04	12:27:34	12:38:28	00:07:51	-----	195-	26-	70-	39376
S2 (43)	21/12/04	12:52:57	13:04:47	00:11:49	00:14:28	310-	38-	96-	39500
T4 (44)	21/12/04	13:01:05	13:13:00	00:08:13	-----	213-	45-	63-	39379
S3 (42)	21/12/04	13:28:25	13:40:39	00:12:14	00:15:25	308-	55-	110-	39495
K6 (26)	21/12/04	13:28:53	13:40:41	00:00:01	-----	215-	49-	62-	39423
T1 (28)	21/12/04	13:37:22	13:49:43	00:09:01	-----	231-	81-	57-	39292
S4 (29)	21/12/04	14:01:12	14:13:35	00:12:23	00:11:29	305-	82-	123-	39412
S1 (46)	21/12/04	14:02:59	14:15:22	00:01:46	-----	304-	87-	124-	39413
T2 (40)	21/12/04	14:10:20	14:22:38	00:07:15	-----	245-	64-	53-	39377
S2 (43)	21/12/04	14:36:42	14:48:53	00:12:10	00:14:04	299-	58-	139-	39501
T4 (44)	21/12/04	14:44:48	14:56:50	00:07:56	-----	259-	44-	51-	39380
K6 (26)	21/12/04	15:12:03	15:23:45	00:11:41	00:15:13	261-	40-	51-	39424
S3 (42)	21/12/04	15:12:26	15:23:49	00:00:03	-----	292-	32-	156-	39496
T1 (28)	21/12/04	15:21:56	15:33:26	00:09:36	-----	273-	31-	51-	39293
S4 (29)	21/12/04	15:45:41	15:55:42	00:10:01	00:12:15	282-	19-	173-	39413
S1 (46)	21/12/04	15:47:34	15:57:17	00:01:34	-----	281-	18-	176-	39414
T2 (40)	21/12/04	15:55:23	16:06:27	00:09:09	-----	285-	25-	53-	39378
S2 (43)	21/12/04	16:22:31	16:29:01	00:06:30	00:16:04	263-	9-	202-	39502
T4 (44)	21/12/04	16:30:07	16:40:54	00:10:46	00:01:05	294-	23-	56-	39381
K6 (26)	21/12/04	16:56:42	17:07:07	00:10:25	00:15:48	296-	22-	56-	39425
T1 (28)	21/12/04	17:07:13	17:17:56	00:10:42	00:00:06	302-	22-	64-	39294
K9 (39)	21/12/04	17:24:19	17:30:12	00:05:52	00:06:23	157-	8-	102-	38407
T2 (40)	21/12/04	17:40:26	17:51:21	00:10:54	00:10:14	307-	24-	72-	39379
K7 (37)	21/12/04	17:56:25	18:05:45	00:09:20	00:05:03	180-	16-	80-	38407
T4 (44)	21/12/04	18:14:48	18:26:06	00:11:18	00:09:02	309-	28-	82-	39382
K3 (33)	21/12/04	18:30:03	18:41:11	00:11:07	00:03:57	198-	29-	69-	38408
K6 (26)	21/12/04	18:40:37	18:51:37	00:10:25	-----	310-	28-	83-	39426
T1 (28)	21/12/04	18:51:27	19:03:16	00:11:39	-----	310-	38-	96-	39295
K9 (39)	21/12/04	19:04:07	19:16:15	00:12:07	00:00:50	219-	54-	61-	38408
T2 (40)	21/12/04	19:24:21	19:36:33	00:12:12	00:08:05	308-	54-	109-	39380
K7 (37)	21/12/04	19:38:06	19:50:29	00:12:22	00:01:32	233-	87-	56-	38408
K4 (24)	21/12/04	19:39:33	19:50:21	00:00:07	-----	194-	26-	71-	38558
T4 (44)	21/12/04	19:58:33	20:10:55	00:12:22	00:08:11	305-	82-	122-	39383
K3 (33)	21/12/04	20:13:00	20:25:16	00:12:16	00:02:04	248-	60-	53-	38409
K6 (26)	21/12/04	20:23:39	20:35:39	00:10:22	-----	305-	84-	124-	39427

Satellite	Date	AOS Time	LOS Time	Duration	Interval Between	AOS Az	Max EI	LOS Az	Orbit num.
T1 (28)	21/12/04	20:35:12	20:47:23	00:11:43	-----	299-	57-	139-	39296
K9 (39)	21/12/04	20:48:08	21:00:01	00:11:52	00:00:45	263-	39-	51-	38409
T2 (40)	21/12/04	21:08:19	21:19:47	00:11:27	00:08:18	292-	33-	155-	39381
K4 (24)	21/12/04	21:22:23	21:34:37	00:12:14	00:02:35	245-	65-	53-	38559
K7 (37)	21/12/04	21:22:46	21:34:12	00:00:02	-----	275-	30-	51-	38409
T4 (44)	21/12/04	21:43:02	21:53:02	00:10:00	00:08:49	283-	19-	173-	39384
K3 (33)	21/12/04	21:58:07	22:09:07	00:11:00	00:05:05	286-	25-	53-	38410
R3 (45)	21/12/04	22:02:28	22:11:43	00:02:35	-----	181-	16-	80-	39570
K6 (26)	21/12/04	22:07:31	22:16:54	00:05:10	-----	281-	18-	176-	39428
T1 (28)	21/12/04	22:21:02	22:27:30	00:06:28	00:04:08	263-	9-	202-	39297
T3 (25)	21/12/04	22:27:20	22:37:27	00:09:56	-----	184-	18-	77-	38365
K9 (39)	21/12/04	22:33:29	22:44:12	00:06:44	-----	297-	22-	58-	38410
K4 (24)	21/12/04	23:07:32	23:18:31	00:10:58	00:23:20	284-	25-	52-	38560
K7 (37)	21/12/04	23:08:02	23:18:45	00:00:14	-----	303-	22-	65-	38410
K3 (33)	21/12/04	23:43:07	23:54:04	00:10:57	00:24:21	307-	24-	74-	38411
R3 (45)	21/12/04	23:43:55	23:56:09	00:02:04	-----	234-	88-	56-	39571
R1 (47)	21/12/04	23:55:14	00:05:13	00:09:04	-----	186-	19-	76-	39536
T3 (25)	21/12/05	00:10:04	00:22:55	00:12:50	00:04:51	235-	88-	56-	38366
K9 (39)	21/12/05	00:18:01	00:29:28	00:06:33	-----	310-	30-	86-	38411
R2 (38)	21/12/05	00:44:24	00:56:13	00:11:49	00:14:55	210-	42-	64-	40608
K7 (37)	21/12/05	00:52:13	01:04:05	00:07:52	-----	309-	39-	98-	38411
K4 (24)	21/12/05	00:52:41	01:03:30	00:00:03	-----	307-	24-	72-	38561
K3 (33)	21/12/05	01:27:00	01:39:14	00:12:14	00:23:29	308-	57-	111-	38412
R3 (45)	21/12/05	01:28:18	01:39:35	00:00:21	-----	276-	30-	51-	39572
R1 (47)	21/12/05	01:37:19	01:49:43	00:10:08	-----	237-	83-	55-	39537
T3 (25)	21/12/05	01:55:40	02:07:32	00:11:52	00:05:56	276-	30-	52-	38367
K9 (39)	21/12/05	02:01:45	02:14:06	00:06:34	-----	303-	86-	127-	38412
R2 (38)	21/12/05	02:28:00	02:40:05	00:12:04	00:13:54	257-	46-	52-	40609
K7 (37)	21/12/05	02:36:00	02:48:04	00:08:00	-----	298-	53-	141-	38412
K4 (24)	21/12/05	02:36:41	02:48:49	00:00:44	-----	308-	53-	109-	38562
K3 (33)	21/12/05	03:11:02	03:22:19	00:11:17	00:22:12	291-	30-	158-	38413
R3 (45)	21/12/05	03:13:17	03:23:51	00:01:31	-----	303-	22-	64-	39573
R1 (47)	21/12/05	03:22:08	03:33:28	00:09:37	-----	278-	28-	51-	39538
T3 (25)	21/12/05	03:41:46	03:53:03	00:11:16	00:08:18	303-	24-	67-	38368
K9 (39)	21/12/05	03:46:31	03:55:44	00:02:41	-----	278-	16-	181-	38413
R2 (38)	21/12/05	04:13:18	04:24:06	00:10:47	00:17:33	293-	23-	56-	40610
K4 (24)	21/12/05	04:20:44	04:32:12	00:08:05	-----	292-	33-	155-	38563
K7 (37)	21/12/05	04:22:08	04:27:47	00:04:02	-----	259-	8-	208-	38413
R3 (45)	21/12/05	04:57:09	05:08:54	00:11:44	00:29:21	310-	39-	98-	39574
R1 (47)	21/12/05	05:07:21	05:18:07	00:09:13	-----	305-	23-	67-	39539
T3 (25)	21/12/05	05:26:47	05:39:14	00:12:27	00:08:39	309-	44-	101-	38369
S3 (42)	21/12/05	05:35:38	05:44:40	00:05:25	-----	178-	15-	83-	39505
R2 (38)	21/12/05	05:58:02	06:09:16	00:11:14	00:13:22	309-	27-	81-	40611
S4 (29)	21/12/05	06:07:17	06:18:07	00:08:50	-----	193-	25-	71-	39422
S1 (46)	21/12/05	06:08:55	06:19:56	00:01:49	-----	196-	27-	70-	39423
R3 (45)	21/12/05	06:40:38	06:52:36	00:11:57	00:20:41	298-	53-	142-	39575
S2 (43)	21/12/05	06:41:56	06:53:54	00:01:18	-----	214-	47-	62-	39511
R1 (47)	21/12/05	06:51:26	07:03:26	00:09:31	-----	309-	43-	102-	39540
T3 (25)	21/12/05	07:11:27	07:23:54	00:12:26	00:08:01	297-	48-	145-	38370
S3 (42)	21/12/05	07:17:08	07:29:30	00:05:35	-----	231-	82-	57-	39506

Satellite	Date	AOS Time	LOS Time	Duration	Interval Between	AOS Az	Max El	LOS Az	Orbit num.
R2 (38)	21/12/05	07:41:48	07:54:09	00:12:21	00:12:17	305-	77-	121-	40612
S4 (29)	21/12/05	07:49:59	08:02:19	00:08:09	-----	244-	66-	54-	39423
S1 (46)	21/12/05	07:51:45	08:04:04	00:01:45	-----	246-	62-	53-	39424
S2 (43)	21/12/05	08:25:43	08:37:43	00:12:00	00:21:39	260-	42-	51-	39512
R3 (45)	21/12/05	08:26:32	08:32:00	00:05:04	-----	258-	8-	208-	39576
R1 (47)	21/12/05	08:35:16	08:47:11	00:11:55	00:03:15	296-	45-	146-	39541
T3 (25)	21/12/05	08:58:57	09:03:51	00:04:53	00:11:46	254-	7-	214-	38371
S3 (42)	21/12/05	09:01:43	09:13:14	00:09:22	-----	274-	31-	51-	39507
R2 (38)	21/12/05	09:26:12	09:36:25	00:10:13	00:12:57	284-	21-	171-	40613
S4 (29)	21/12/05	09:35:01	09:46:08	00:09:42	-----	284-	26-	53-	39424
S1 (46)	21/12/05	09:36:51	09:47:54	00:01:46	-----	285-	25-	53-	39425
S2 (43)	21/12/05	10:11:03	10:21:49	00:10:46	00:23:08	295-	23-	57-	39513
S3 (42)	21/12/05	10:47:00	10:57:44	00:10:43	00:25:11	302-	22-	64-	39508
S4 (29)	21/12/05	11:20:05	11:31:00	00:10:54	00:22:21	307-	24-	72-	39425
S1 (46)	21/12/05	11:21:52	11:32:49	00:01:49	-----	307-	24-	73-	39426
T2 (40)	21/12/05	11:31:41	11:40:29	00:07:39	-----	176-	14-	84-	39390
S2 (43)	21/12/05	11:55:41	12:07:02	00:11:21	00:15:12	309-	29-	83-	39514
T4 (44)	21/12/05	12:04:37	12:15:27	00:08:24	-----	193-	25-	71-	39393
K6 (26)	21/12/05	12:23:05	12:33:31	00:10:26	00:07:38	191-	23-	72-	39437
S3 (42)	21/12/05	12:31:14	12:43:04	00:09:33	-----	310-	38-	96-	39509
T1 (28)	21/12/05	12:40:28	12:52:25	00:09:20	-----	214-	47-	62-	39306
S4 (29)	21/12/05	13:04:01	13:16:13	00:12:11	00:11:36	308-	52-	108-	39426
S1 (46)	21/12/05	13:05:46	13:18:00	00:01:46	-----	308-	55-	110-	39427
T2 (40)	21/12/05	13:13:04	13:25:24	00:07:24	-----	230-	80-	57-	39391
S2 (43)	21/12/05	13:39:26	13:51:49	00:12:23	00:14:01	304-	85-	124-	39515
T4 (44)	21/12/05	13:47:18	13:59:38	00:07:49	-----	244-	66-	54-	39394
K6 (26)	21/12/05	14:04:56	14:17:03	00:12:07	00:05:18	243-	69-	54-	39438
S3 (42)	21/12/05	14:15:00	14:27:09	00:10:05	-----	299-	57-	140-	39510
T1 (28)	21/12/05	14:24:15	14:36:13	00:09:04	-----	260-	42-	51-	39307
S4 (29)	21/12/05	14:47:59	14:59:31	00:11:31	00:11:45	293-	34-	154-	39427
S1 (46)	21/12/05	14:49:46	15:01:10	00:01:38	-----	292-	32-	156-	39428
T2 (40)	21/12/05	14:57:37	15:09:08	00:07:57	-----	273-	31-	51-	39392
S2 (43)	21/12/05	15:23:59	15:33:49	00:09:50	00:14:50	281-	18-	175-	39516
T4 (44)	21/12/05	15:32:20	15:43:27	00:09:37	-----	284-	26-	52-	39395
K6 (26)	21/12/05	15:49:14	16:00:06	00:10:52	00:05:47	283-	26-	51-	39439
S3 (42)	21/12/05	16:00:52	16:07:12	00:06:20	00:00:45	263-	9-	203-	39511
T1 (28)	21/12/05	16:09:35	16:20:20	00:10:44	00:02:22	295-	23-	57-	39308
T2 (40)	21/12/05	16:42:54	16:53:36	00:10:41	00:22:34	302-	22-	63-	39393
K7 (37)	21/12/05	17:01:40	17:06:53	00:05:13	00:08:03	155-	7-	101-	38421
T4 (44)	21/12/05	17:17:24	17:28:18	00:10:53	00:10:31	307-	24-	71-	39396
K6 (26)	21/12/05	17:33:40	17:44:10	00:10:30	00:05:21	307-	23-	69-	39440
K3 (33)	21/12/05	17:34:05	17:43:21	00:00:04	-----	180-	16-	81-	38422
T1 (28)	21/12/05	17:54:13	18:05:33	00:11:20	00:10:51	309-	29-	83-	39309
K9 (39)	21/12/05	18:07:32	18:18:48	00:11:16	00:01:58	200-	30-	68-	38422
T2 (40)	21/12/05	18:27:09	18:38:57	00:11:48	00:08:20	310-	37-	96-	39394
K7 (37)	21/12/05	18:41:08	18:53:12	00:12:04	00:02:10	217-	51-	62-	38422
K4 (24)	21/12/05	18:45:01	18:53:49	00:00:36	-----	176-	14-	84-	38572
T4 (44)	21/12/05	19:01:21	19:13:31	00:12:10	00:07:32	308-	52-	108-	39397
K3 (33)	21/12/05	19:15:43	19:28:05	00:12:22	00:02:11	233-	86-	57-	38423
K6 (26)	21/12/05	19:16:56	19:28:42	00:00:36	-----	309-	47-	105-	39441

Satellite	Date	AOS Time	LOS Time	Duration	Interval Between	AOS Az	Max EI	LOS Az	Orbit num.
T1 (28)	21/12/05	19:37:57	19:50:20	00:12:22	00:09:15	304-	85-	124-	39310
K9 (39)	21/12/05	19:50:35	20:02:50	00:12:15	00:00:14	249-	57-	53-	38423
T2 (40)	21/12/05	20:10:53	20:23:05	00:12:11	00:08:03	299-	59-	139-	39395
K7 (37)	21/12/05	20:25:04	20:37:00	00:11:55	00:01:58	262-	40-	51-	38423
K4 (24)	21/12/05	20:26:31	20:38:49	00:01:49	-----	230-	80-	57-	38573
T4 (44)	21/12/05	20:45:18	20:56:49	00:11:31	00:06:29	293-	34-	154-	39398
K6 (26)	21/12/05	21:00:07	21:11:27	00:11:19	00:03:18	294-	37-	151-	39442
K3 (33)	21/12/05	21:00:21	21:11:49	00:00:21	-----	275-	30-	51-	38424
T1 (28)	21/12/05	21:22:30	21:32:21	00:09:50	00:10:41	281-	18-	175-	39311
K9 (39)	21/12/05	21:35:45	21:46:43	00:10:58	00:03:23	287-	25-	53-	38424
T3 (25)	21/12/05	21:42:54	21:50:59	00:04:15	-----	168-	12-	90-	38379
T2 (40)	21/12/05	21:56:38	22:03:18	00:06:39	00:05:39	264-	9-	200-	39396
K7 (37)	21/12/05	22:10:24	22:21:08	00:10:43	00:07:06	296-	22-	58-	38424
K4 (24)	21/12/05	22:11:11	22:22:37	00:01:28	-----	273-	31-	51-	38574
R3 (45)	21/12/05	22:43:10	22:55:01	00:11:51	00:20:33	215-	48-	62-	39585
K3 (33)	21/12/05	22:45:38	22:56:21	00:01:19	-----	303-	22-	64-	38425
R1 (47)	21/12/05	22:59:57	23:06:46	00:06:49	00:03:36	162-	10-	96-	39550
K9 (39)	21/12/05	23:20:42	23:31:42	00:11:00	00:13:55	308-	25-	75-	38425
T3 (25)	21/12/05	23:24:28	23:37:11	00:05:29	-----	225-	67-	59-	38380
R2 (38)	21/12/05	23:48:00	23:58:38	00:10:38	00:10:48	191-	24-	72-	40622
K7 (37)	21/12/05	23:55:00	00:06:23	00:07:45	-----	310-	30-	85-	38425
K4 (24)	21/12/05	23:56:35	00:07:11	00:00:47	-----	302-	22-	63-	38575
R3 (45)	21/12/06	00:26:44	00:38:32	00:11:48	00:19:33	261-	41-	51-	39586
K3 (33)	21/12/06	00:29:50	00:41:41	00:03:09	-----	309-	39-	97-	38426
R1 (47)	21/12/06	00:40:14	00:52:28	00:10:46	-----	222-	60-	60-	39551
K9 (39)	21/12/06	01:04:33	01:16:49	00:12:16	00:12:05	307-	60-	113-	38426
T3 (25)	21/12/06	01:09:37	01:21:48	00:04:58	-----	268-	36-	52-	38381
R2 (38)	21/12/06	01:30:32	01:42:53	00:12:21	00:08:43	243-	70-	54-	40623
K7 (37)	21/12/06	01:38:43	01:51:05	00:08:11	-----	304-	89-	126-	38426
K4 (24)	21/12/06	01:40:54	01:52:38	00:01:32	-----	310-	37-	96-	38576
R3 (45)	21/12/06	02:11:46	02:22:22	00:10:35	00:19:08	296-	22-	57-	39587
K3 (33)	21/12/06	02:13:36	02:25:42	00:03:20	-----	299-	54-	141-	38427
R1 (47)	21/12/06	02:24:24	02:36:12	00:10:30	-----	266-	37-	51-	39552
K9 (39)	21/12/06	02:48:39	02:59:47	00:11:08	00:12:26	290-	29-	160-	38427
T3 (25)	21/12/06	02:55:49	03:07:02	00:07:14	-----	299-	23-	62-	38382
R2 (38)	21/12/06	03:15:31	03:26:40	00:11:09	00:08:29	283-	26-	52-	40624
K7 (37)	21/12/06	03:23:23	03:32:50	00:06:09	-----	279-	17-	178-	38427
K4 (24)	21/12/06	03:24:44	03:36:52	00:04:01	-----	299-	58-	139-	38577
R3 (45)	21/12/06	03:56:06	04:07:19	00:11:12	00:19:14	310-	29-	84-	39588
K3 (33)	21/12/06	03:59:39	04:05:32	00:01:04	-----	260-	8-	206-	38428
R1 (47)	21/12/06	04:09:45	04:20:27	00:10:42	00:04:13	298-	22-	59-	39553
T3 (25)	21/12/06	04:41:05	04:53:14	00:12:09	00:20:37	309-	35-	92-	38383
R2 (38)	21/12/06	05:00:38	05:11:29	00:10:51	00:07:23	306-	24-	70-	40625
K4 (24)	21/12/06	05:10:36	05:17:09	00:05:39	-----	263-	9-	202-	38578
S4 (29)	21/12/06	05:11:29	05:20:05	00:02:56	-----	175-	14-	85-	39436
S1 (46)	21/12/06	05:12:59	05:22:00	00:01:54	-----	178-	15-	83-	39437
R3 (45)	21/12/06	05:39:32	05:51:47	00:12:14	00:17:32	304-	86-	124-	39589
S2 (43)	21/12/06	05:45:26	05:56:22	00:04:35	-----	195-	26-	70-	39525
R1 (47)	21/12/06	05:54:13	06:05:45	00:09:23	-----	310-	32-	88-	39554
S3 (42)	21/12/06	06:20:12	06:32:11	00:11:59	00:14:26	215-	48-	62-	39520

Satellite	Date	AOS Time	LOS Time	Duration	Interval Between	AOS Az	Max EI	LOS Az	Orbit num.
T3 (25)	21/12/06	06:25:41	06:38:27	00:06:15	-----	301-	69-	134-	38384
R2 (38)	21/12/06	06:44:36	06:56:44	00:12:07	00:06:09	308-	50-	106-	40626
S4 (29)	21/12/06	06:52:45	07:05:06	00:08:22	-----	229-	77-	58-	39437
S1 (46)	21/12/06	06:54:28	07:06:50	00:01:44	-----	231-	82-	57-	39438
R3 (45)	21/12/06	07:23:51	07:33:26	00:09:35	00:17:00	281-	18-	176-	39590
S2 (43)	21/12/06	07:28:12	07:40:31	00:07:05	-----	246-	64-	53-	39526
R1 (47)	21/12/06	07:37:56	07:50:16	00:09:45	-----	303-	79-	130-	39555
S3 (42)	21/12/06	08:04:01	08:16:00	00:11:58	00:13:44	260-	42-	51-	39521
T3 (25)	21/12/06	08:11:47	08:20:11	00:04:10	-----	272-	12-	191-	38385
R2 (38)	21/12/06	08:28:31	08:40:09	00:11:37	00:08:20	294-	37-	152-	40627
S4 (29)	21/12/06	08:37:15	08:48:50	00:08:40	-----	272-	32-	51-	39438
S1 (46)	21/12/06	08:39:03	08:50:34	00:01:43	-----	273-	31-	51-	39439
S2 (43)	21/12/06	09:13:16	09:24:21	00:11:04	00:22:42	285-	25-	53-	39527
R1 (47)	21/12/06	09:22:53	09:31:37	00:07:15	-----	275-	14-	185-	39556
S3 (42)	21/12/06	09:49:20	10:00:06	00:10:46	00:17:43	295-	23-	57-	39522
S4 (29)	21/12/06	10:22:34	10:33:17	00:10:42	00:22:27	302-	22-	63-	39439
S1 (46)	21/12/06	10:24:20	10:35:04	00:01:46	-----	302-	22-	64-	39440
S2 (43)	21/12/06	10:58:19	11:09:15	00:10:56	00:23:15	307-	24-	72-	39528
T4 (44)	21/12/06	11:08:47	11:17:23	00:08:08	-----	175-	14-	85-	39407
K6 (26)	21/12/06	11:18:27	11:25:27	00:07:00	00:01:04	164-	10-	95-	39451
S3 (42)	21/12/06	11:33:58	11:45:20	00:11:22	00:08:31	309-	29-	84-	39523
T1 (28)	21/12/06	11:43:59	11:54:54	00:09:34	-----	195-	27-	70-	39320
S4 (29)	21/12/06	12:06:50	12:18:38	00:11:47	00:11:55	310-	36-	95-	39440
S1 (46)	21/12/06	12:08:34	12:20:24	00:01:46	-----	310-	38-	96-	39441
T2 (40)	21/12/06	12:16:09	12:28:05	00:07:40	-----	213-	46-	63-	39405
S2 (43)	21/12/06	12:42:14	12:54:27	00:12:13	00:14:08	308-	54-	109-	39529
T4 (44)	21/12/06	12:50:03	13:02:24	00:07:57	-----	229-	77-	58-	39408
K6 (26)	21/12/06	12:58:16	13:10:17	00:07:52	-----	223-	63-	60-	39452
S3 (42)	21/12/06	13:17:42	13:30:06	00:12:23	00:07:25	304-	86-	124-	39524
T1 (28)	21/12/06	13:26:46	13:39:03	00:08:57	-----	246-	64-	53-	39321
S4 (29)	21/12/06	13:50:35	14:02:48	00:12:13	00:11:31	300-	61-	138-	39441
S1 (46)	21/12/06	13:52:19	14:04:29	00:01:40	-----	299-	57-	140-	39442
T2 (40)	21/12/06	13:59:55	14:11:54	00:07:24	-----	259-	43-	51-	39406
S2 (43)	21/12/06	14:26:13	14:37:39	00:11:26	00:14:18	292-	33-	155-	39530
T4 (44)	21/12/06	14:34:33	14:46:08	00:08:28	-----	272-	32-	51-	39409
K6 (26)	21/12/06	14:41:47	14:53:18	00:07:10	-----	267-	35-	50-	39453
S3 (42)	21/12/06	15:02:17	15:12:03	00:09:46	00:08:59	281-	18-	176-	39525
T1 (28)	21/12/06	15:11:50	15:22:53	00:10:50	-----	285-	25-	53-	39322
S4 (29)	21/12/06	15:36:12	15:43:11	00:06:58	00:13:19	266-	10-	199-	39442
S1 (46)	21/12/06	15:38:11	15:44:33	00:01:21	-----	263-	9-	203-	39443
T2 (40)	21/12/06	15:45:14	15:56:00	00:10:45	00:00:41	294-	23-	57-	39407
T4 (44)	21/12/06	16:19:52	16:30:34	00:10:42	00:23:52	301-	22-	63-	39410
K6 (26)	21/12/06	16:26:27	16:36:50	00:06:15	-----	299-	21-	59-	39454
K3 (33)	21/12/06	16:39:27	16:44:23	00:04:56	00:02:37	154-	7-	102-	38436
T1 (28)	21/12/06	16:56:52	17:07:47	00:10:55	00:12:29	307-	24-	72-	39323
K9 (39)	21/12/06	17:11:28	17:21:00	00:09:31	00:03:40	182-	17-	79-	38436
T2 (40)	21/12/06	17:29:53	17:41:12	00:11:19	00:08:53	309-	28-	83-	39408
K7 (37)	21/12/06	17:44:35	17:55:44	00:11:09	00:03:22	198-	29-	69-	38436
T4 (44)	21/12/06	18:04:08	18:15:55	00:11:46	00:08:24	310-	36-	95-	39411
K6 (26)	21/12/06	18:10:11	18:21:24	00:05:29	-----	310-	31-	88-	39455

Satellite	Date	AOS Time	LOS Time	Duration	Interval Between	AOS Az	Max EI	LOS Az	Orbit num.
K3 (33)	21/12/06	18:18:46	18:30:49	00:09:25	-----	217-	50-	62-	38437
T1 (28)	21/12/06	18:40:47	18:53:00	00:12:12	00:09:57	308-	54-	109-	39324
K9 (39)	21/12/06	18:53:16	19:05:39	00:12:22	00:00:16	234-	90-	56-	38437
T2 (40)	21/12/06	19:13:37	19:26:00	00:12:22	00:07:58	305-	84-	123-	39409
K7 (37)	21/12/06	19:27:32	19:39:49	00:12:16	00:01:31	248-	60-	53-	38437
K4 (24)	21/12/06	19:31:00	19:42:54	00:03:05	-----	214-	47-	62-	38587
T4 (44)	21/12/06	19:47:53	20:00:05	00:12:12	00:04:58	300-	61-	137-	39412
K6 (26)	21/12/06	19:53:12	20:05:11	00:05:05	-----	303-	78-	130-	39456
K3 (33)	21/12/06	20:02:40	20:14:36	00:09:25	-----	261-	41-	51-	38438
T1 (28)	21/12/06	20:24:46	20:36:12	00:11:26	00:10:09	292-	33-	156-	39325
K9 (39)	21/12/06	20:37:58	20:49:23	00:11:24	00:01:46	276-	30-	51-	38438
T2 (40)	21/12/06	20:58:08	21:08:04	00:09:55	00:08:45	282-	19-	174-	39410
K7 (37)	21/12/06	21:12:40	21:23:40	00:11:00	00:04:35	286-	25-	53-	38438
K4 (24)	21/12/06	21:14:54	21:26:48	00:03:07	-----	260-	42-	51-	38588
T4 (44)	21/12/06	21:33:30	21:40:29	00:06:59	00:06:41	266-	10-	199-	39413
K6 (26)	21/12/06	21:37:29	21:45:46	00:05:16	-----	274-	13-	187-	39457
R3 (45)	21/12/06	21:42:56	21:53:39	00:07:53	-----	194-	25-	71-	39599
K3 (33)	21/12/06	21:48:01	21:58:45	00:05:05	-----	296-	23-	57-	38439
K9 (39)	21/12/06	22:23:14	22:33:58	00:10:43	00:24:29	303-	22-	65-	38439
T3 (25)	21/12/06	22:39:02	22:51:24	00:12:21	00:05:04	213-	46-	63-	38394
R2 (38)	21/12/06	22:52:16	23:00:31	00:08:14	00:00:52	172-	13-	88-	40636
K7 (37)	21/12/06	22:57:39	23:08:37	00:08:06	-----	307-	25-	74-	38439
K4 (24)	21/12/06	23:00:20	23:11:00	00:02:21	-----	295-	22-	57-	38589
R3 (45)	21/12/06	23:25:22	23:37:33	00:12:10	00:14:23	245-	65-	53-	39600
K3 (33)	21/12/06	23:32:37	23:44:00	00:06:26	-----	309-	29-	85-	38440
R1 (47)	21/12/06	23:43:33	23:55:02	00:11:02	-----	203-	34-	67-	39565
K9 (39)	21/12/07	00:07:23	00:19:18	00:11:54	00:12:20	309-	40-	99-	38440
T3 (25)	21/12/07	00:23:37	00:36:06	00:12:28	00:04:19	259-	45-	52-	38395
R2 (38)	21/12/07	00:33:20	00:45:39	00:09:33	-----	227-	73-	58-	40637
K7 (37)	21/12/07	00:41:32	00:53:46	00:08:07	-----	308-	57-	111-	38440
K4 (24)	21/12/07	00:45:04	00:56:19	00:02:32	-----	310-	28-	83-	38590
R3 (45)	21/12/07	01:10:08	01:21:04	00:10:55	00:13:49	285-	25-	52-	39601
K3 (33)	21/12/07	01:16:20	01:28:42	00:07:38	-----	304-	89-	125-	38441
R1 (47)	21/12/07	01:26:48	01:39:01	00:10:18	-----	252-	53-	52-	39566
K9 (39)	21/12/07	01:51:10	02:03:13	00:12:02	00:12:09	298-	51-	143-	38441
T3 (25)	21/12/07	02:09:48	02:21:05	00:11:17	00:06:35	293-	24-	58-	38396
R2 (38)	21/12/07	02:17:45	02:29:22	00:08:17	-----	270-	33-	51-	40638
K7 (37)	21/12/07	02:25:34	02:36:51	00:07:28	-----	291-	30-	158-	38441
K4 (24)	21/12/07	02:28:53	02:41:11	00:04:20	-----	304-	85-	124-	38591
R3 (45)	21/12/07	02:54:55	03:05:39	00:10:44	00:13:43	307-	24-	71-	39602
K3 (33)	21/12/07	03:00:59	03:10:33	00:04:53	-----	280-	17-	178-	38442
R1 (47)	21/12/07	03:12:01	03:22:56	00:10:55	00:01:27	289-	24-	54-	39567
K9 (39)	21/12/07	03:37:31	03:42:41	00:05:09	00:14:35	256-	7-	211-	38442
T3 (25)	21/12/07	03:55:21	04:07:11	00:11:50	00:12:39	309-	30-	84-	38397
R2 (38)	21/12/07	04:03:04	04:13:46	00:06:34	-----	301-	22-	62-	40639
K4 (24)	21/12/07	04:13:32	04:23:16	00:09:30	-----	281-	18-	176-	38592
R3 (45)	21/12/07	04:38:33	04:50:35	00:12:02	00:15:16	308-	52-	108-	39603
S2 (43)	21/12/07	04:49:32	04:58:23	00:07:48	-----	176-	14-	83-	39539
R1 (47)	21/12/07	04:56:54	05:07:59	00:09:35	-----	308-	26-	77-	39568
S3 (42)	21/12/07	05:23:41	05:34:40	00:10:59	00:15:41	196-	27-	70-	39534

Satellite	Date	AOS Time	LOS Time	Duration	Interval Between	AOS Az	Max EI	LOS Az	Orbit num.
T3 (25)	21/12/07	05:39:58	05:52:49	00:12:51	00:05:18	304-	85-	124-	38398
R2 (38)	21/12/07	05:47:23	05:59:06	00:06:16	-----	310-	35-	93-	40640
S4 (29)	21/12/07	05:55:53	06:07:47	00:08:40	-----	212-	44-	63-	39451
S1 (46)	21/12/07	05:57:31	06:09:30	00:01:43	-----	214-	48-	62-	39452
R3 (45)	21/12/07	06:22:13	06:33:35	00:11:22	00:12:42	293-	34-	154-	39604
S2 (43)	21/12/07	06:30:56	06:43:18	00:09:42	-----	230-	80-	57-	39540
R1 (47)	21/12/07	06:40:43	06:53:02	00:09:43	-----	307-	65-	115-	39569
S3 (42)	21/12/07	07:06:29	07:18:48	00:12:18	00:13:27	246-	63-	53-	39535
T3 (25)	21/12/07	07:25:22	07:35:40	00:10:18	00:06:33	282-	19-	175-	38399
R2 (38)	21/12/07	07:31:07	07:43:22	00:07:41	-----	301-	65-	136-	40641
S4 (29)	21/12/07	07:39:35	07:51:37	00:08:14	-----	259-	44-	51-	39452
S1 (46)	21/12/07	07:41:20	07:53:19	00:01:41	-----	260-	42-	51-	39453
S2 (43)	21/12/07	08:15:29	08:27:01	00:11:32	00:22:10	273-	31-	51-	39541
R1 (47)	21/12/07	08:24:54	08:35:47	00:08:45	-----	288-	26-	164-	39570
S3 (42)	21/12/07	08:51:34	09:02:38	00:11:04	00:15:46	285-	25-	53-	39536
R2 (38)	21/12/07	09:16:33	09:24:02	00:07:29	00:13:54	269-	11-	195-	40642
S4 (29)	21/12/07	09:24:54	09:35:41	00:10:47	00:00:52	294-	23-	56-	39453
S1 (46)	21/12/07	09:26:40	09:37:26	00:01:44	-----	295-	23-	57-	39454
S2 (43)	21/12/07	10:00:47	10:11:30	00:10:43	00:23:21	302-	22-	63-	39542
S3 (42)	21/12/07	10:36:36	10:47:33	00:10:56	00:25:05	307-	24-	73-	39537
T1 (28)	21/12/07	10:48:06	10:56:57	00:08:51	00:00:32	177-	14-	83-	39334
S4 (29)	21/12/07	11:09:35	11:20:54	00:11:18	00:12:37	309-	28-	82-	39454
S1 (46)	21/12/07	11:11:17	11:22:39	00:01:45	-----	309-	29-	84-	39455
T2 (40)	21/12/07	11:19:40	11:30:32	00:07:52	-----	194-	26-	71-	39419
S2 (43)	21/12/07	11:45:01	11:56:51	00:11:49	00:14:29	310-	37-	96-	39543
K6 (26)	21/12/07	11:52:13	12:03:15	00:06:24	-----	200-	30-	68-	39466
T4 (44)	21/12/07	11:53:10	12:05:04	00:01:48	-----	212-	44-	63-	39422
S3 (42)	21/12/07	12:20:30	12:32:44	00:12:13	00:15:26	308-	55-	110-	39538
T1 (28)	21/12/07	12:29:31	12:41:52	00:09:07	-----	231-	81-	57-	39335
S4 (29)	21/12/07	12:53:20	13:05:43	00:12:23	00:11:28	305-	81-	122-	39455
S1 (46)	21/12/07	12:55:02	13:07:25	00:01:41	-----	304-	86-	124-	39456
T2 (40)	21/12/07	13:02:24	13:14:42	00:07:17	-----	245-	65-	54-	39420
S2 (43)	21/12/07	13:28:46	13:40:58	00:12:11	00:14:04	299-	58-	139-	39544
K6 (26)	21/12/07	13:34:34	13:46:35	00:05:37	-----	249-	57-	52-	39467
T4 (44)	21/12/07	13:36:52	13:48:54	00:02:18	-----	258-	44-	51-	39423
S3 (42)	21/12/07	14:04:30	14:15:55	00:11:24	00:15:36	292-	32-	156-	39539
T1 (28)	21/12/07	14:14:05	14:25:35	00:09:39	-----	273-	31-	51-	39336
S4 (29)	21/12/07	14:37:48	14:47:52	00:10:03	00:12:13	283-	20-	173-	39456
S1 (46)	21/12/07	14:39:36	14:49:22	00:01:30	-----	281-	18-	176-	39457
T2 (40)	21/12/07	14:47:28	14:58:32	00:09:09	-----	284-	26-	53-	39421
S2 (43)	21/12/07	15:14:33	15:21:10	00:06:36	00:16:01	264-	9-	201-	39545
K6 (26)	21/12/07	15:19:01	15:29:43	00:08:33	-----	288-	24-	53-	39468
T4 (44)	21/12/07	15:22:10	15:32:58	00:03:14	-----	294-	23-	56-	39424
T1 (28)	21/12/07	15:59:22	16:10:04	00:10:41	00:26:24	302-	22-	63-	39337
K9 (39)	21/12/07	16:16:32	16:22:17	00:05:45	00:06:27	157-	8-	102-	38450
T2 (40)	21/12/07	16:32:31	16:43:25	00:10:54	00:10:13	307-	24-	72-	39422
K7 (37)	21/12/07	16:48:35	16:57:55	00:09:19	00:05:10	180-	16-	81-	38450
K6 (26)	21/12/07	17:03:17	17:13:57	00:10:39	00:05:22	308-	24-	73-	39469
T4 (44)	21/12/07	17:06:52	17:18:09	00:04:12	-----	309-	28-	82-	39425
K3 (33)	21/12/07	17:22:15	17:33:21	00:11:06	00:04:05	197-	28-	69-	38451

Satellite	Date	AOS Time	LOS Time	Duration	Interval Between	AOS Az	Max EI	LOS Az	Orbit num.
T1 (28)	21/12/07	17:43:36	17:55:25	00:11:48	00:10:15	310-	37-	96-	39338
K9 (39)	21/12/07	17:56:16	18:08:23	00:12:07	00:00:50	219-	53-	61-	38451
T2 (40)	21/12/07	18:16:25	18:28:37	00:12:11	00:08:02	308-	53-	109-	39423
K7 (37)	21/12/07	18:30:15	18:42:38	00:12:22	00:01:37	233-	86-	57-	38451
K4 (24)	21/12/07	18:35:50	18:46:49	00:04:11	-----	196-	27-	70-	38601
K6 (26)	21/12/07	18:46:27	18:58:22	00:11:33	-----	308-	57-	111-	39470
T4 (44)	21/12/07	18:50:37	19:03:00	00:04:36	-----	305-	81-	122-	39426
K3 (33)	21/12/07	19:05:10	19:17:27	00:12:17	00:02:10	247-	61-	53-	38452
T1 (28)	21/12/07	19:27:21	19:39:32	00:12:10	00:09:54	299-	58-	139-	39339
K9 (39)	21/12/07	19:40:16	19:52:09	00:11:53	00:00:43	263-	39-	51-	38452
T2 (40)	21/12/07	20:00:24	20:11:52	00:11:28	00:08:14	292-	33-	155-	39424
K7 (37)	21/12/07	20:14:53	20:26:21	00:11:27	00:03:01	275-	30-	51-	38452
K4 (24)	21/12/07	20:18:47	20:31:01	00:04:40	-----	246-	62-	53-	38602
K6 (26)	21/12/07	20:29:48	20:40:43	00:09:41	-----	290-	29-	159-	39471
T4 (44)	21/12/07	20:35:05	20:45:07	00:04:24	-----	283-	20-	173-	39427
R3 (45)	21/12/07	20:43:29	20:51:43	00:06:35	-----	173-	13-	87-	39613
K3 (33)	21/12/07	20:50:17	21:01:18	00:09:34	-----	286-	25-	53-	38453
T1 (28)	21/12/07	21:13:09	21:19:42	00:06:33	00:11:50	264-	9-	201-	39340
K9 (39)	21/12/07	21:25:37	21:36:20	00:10:43	00:05:54	297-	22-	58-	38453
T3 (25)	21/12/07	21:53:48	22:05:31	00:11:43	00:17:28	201-	32-	67-	38408
K7 (37)	21/12/07	22:00:10	22:10:53	00:05:22	-----	303-	22-	64-	38453
K4 (24)	21/12/07	22:04:00	22:14:56	00:04:02	-----	286-	25-	53-	38603
R3 (45)	21/12/07	22:24:20	22:36:31	00:12:10	00:09:23	228-	74-	58-	39614
K3 (33)	21/12/07	22:35:17	22:46:14	00:09:43	-----	307-	24-	73-	38454
R1 (47)	21/12/07	22:47:22	22:57:18	00:09:56	00:01:07	186-	19-	77-	39579
K9 (39)	21/12/07	23:10:10	23:21:36	00:11:26	00:12:51	310-	30-	86-	38454
R2 (38)	21/12/07	23:36:29	23:48:18	00:11:48	00:14:52	210-	41-	64-	40651
T3 (25)	21/12/07	23:37:43	23:50:25	00:02:07	-----	249-	58-	53-	38409
K7 (37)	21/12/07	23:44:21	23:56:14	00:05:48	-----	309-	39-	98-	38454
K4 (24)	21/12/07	23:49:07	23:59:57	00:03:43	-----	307-	24-	73-	38604
R3 (45)	21/12/08	00:08:30	00:19:57	00:11:26	00:08:32	271-	32-	51-	39615
K3 (33)	21/12/08	00:19:10	00:31:24	00:11:27	-----	308-	57-	111-	38455
R1 (47)	21/12/08	00:29:25	00:41:49	00:10:25	-----	237-	83-	55-	39580
K9 (39)	21/12/08	00:53:53	01:06:15	00:12:21	00:12:03	304-	87-	127-	38455
R2 (38)	21/12/08	01:20:04	01:32:09	00:12:04	00:13:49	257-	46-	52-	40652
T3 (25)	21/12/08	01:23:44	01:35:12	00:03:02	-----	287-	26-	55-	38410
K7 (37)	21/12/08	01:28:07	01:40:14	00:05:01	-----	299-	54-	141-	38455
K4 (24)	21/12/08	01:33:06	01:45:14	00:05:00	-----	308-	55-	110-	38605
R3 (45)	21/12/08	01:53:32	02:04:04	00:10:32	00:08:17	301-	22-	62-	39616
K3 (33)	21/12/08	02:03:12	02:14:31	00:10:26	-----	291-	31-	158-	38456
R1 (47)	21/12/08	02:14:13	02:25:34	00:11:03	-----	278-	28-	51-	39581
K9 (39)	21/12/08	02:38:38	02:47:55	00:09:16	00:13:04	278-	16-	181-	38456
R2 (38)	21/12/08	03:05:22	03:16:11	00:10:48	00:17:27	293-	23-	56-	40653
T3 (25)	21/12/08	03:09:33	03:21:06	00:04:55	-----	307-	26-	76-	38411
K7 (37)	21/12/08	03:14:14	03:20:00	00:01:05	-----	260-	8-	207-	38456
K4 (24)	21/12/08	03:17:11	03:28:30	00:08:29	-----	291-	32-	157-	38606
R3 (45)	21/12/08	03:37:32	03:49:07	00:11:34	00:09:02	310-	35-	93-	39617
R1 (47)	21/12/08	03:59:27	04:10:13	00:10:46	00:10:19	304-	23-	67-	39582
S3 (42)	21/12/08	04:27:46	04:36:43	00:08:57	00:17:32	177-	15-	83-	39548
R2 (38)	21/12/08	04:50:06	05:01:20	00:11:13	00:13:23	309-	27-	81-	40654

Satellite	Date	AOS Time	LOS Time	Duration	Interval Between	AOS Az	Max EI	LOS Az	Orbit num.
T3 (25)	21/12/08	04:54:17	05:07:03	00:05:43	-----	307-	64-	114-	38412
S4 (29)	21/12/08	04:59:27	05:10:14	00:03:10	-----	193-	25-	71-	39465
S1 (46)	21/12/08	05:01:00	05:11:59	00:01:44	-----	196-	27-	70-	39466
R3 (45)	21/12/08	05:21:00	05:33:06	00:12:06	00:09:00	300-	64-	136-	39618
S2 (43)	21/12/08	05:34:01	05:45:58	00:11:56	00:00:55	214-	46-	62-	39554
R1 (47)	21/12/08	05:43:32	05:55:32	00:09:33	-----	309-	43-	101-	39583
S3 (42)	21/12/08	06:09:13	06:21:35	00:12:22	00:13:41	231-	81-	57-	39549
R2 (38)	21/12/08	06:33:52	06:46:14	00:12:21	00:12:16	305-	77-	120-	40655
T3 (25)	21/12/08	06:39:16	06:50:46	00:04:31	-----	290-	28-	161-	38413
S4 (29)	21/12/08	06:42:07	06:54:27	00:03:40	-----	244-	67-	54-	39466
S1 (46)	21/12/08	06:43:48	06:56:07	00:01:40	-----	246-	63-	53-	39467
R3 (45)	21/12/08	07:06:10	07:13:25	00:07:14	00:10:03	268-	10-	196-	39619
S2 (43)	21/12/08	07:17:47	07:29:47	00:12:00	00:04:22	260-	43-	51-	39555
R1 (47)	21/12/08	07:27:21	07:39:18	00:09:30	-----	297-	46-	146-	39584
S3 (42)	21/12/08	07:53:47	08:05:19	00:11:31	00:14:29	273-	31-	51-	39550
R2 (38)	21/12/08	08:18:15	08:28:32	00:10:16	00:12:56	284-	21-	171-	40656
S4 (29)	21/12/08	08:27:08	08:38:15	00:09:43	-----	284-	26-	52-	39467
S1 (46)	21/12/08	08:28:53	08:39:57	00:01:41	-----	285-	25-	53-	39468
S2 (43)	21/12/08	09:03:07	09:13:53	00:10:46	00:23:09	294-	23-	57-	39556
S3 (42)	21/12/08	09:39:05	09:49:48	00:10:43	00:25:11	302-	22-	64-	39551
S4 (29)	21/12/08	10:12:13	10:23:07	00:10:54	00:22:24	307-	24-	71-	39468
S1 (46)	21/12/08	10:13:55	10:24:51	00:01:44	-----	307-	24-	73-	39469
T2 (40)	21/12/08	10:23:48	10:32:31	00:07:39	-----	176-	14-	84-	39433
K6 (26)	21/12/08	10:47:04	10:55:35	00:08:30	00:14:33	175-	14-	85-	39480
S2 (43)	21/12/08	10:47:46	10:59:06	00:03:31	-----	309-	29-	83-	39557
T4 (44)	21/12/08	10:56:42	11:07:30	00:08:23	-----	193-	25-	71-	39436
S3 (42)	21/12/08	11:23:19	11:35:09	00:11:50	00:15:48	310-	38-	96-	39552
T1 (28)	21/12/08	11:32:38	11:44:34	00:09:24	-----	214-	47-	62-	39349
S4 (29)	21/12/08	11:56:09	12:08:21	00:12:11	00:11:35	308-	52-	108-	39469
S1 (46)	21/12/08	11:57:49	12:10:03	00:01:41	-----	308-	55-	110-	39470
T2 (40)	21/12/08	12:05:09	12:17:29	00:07:26	-----	230-	79-	57-	39434
K6 (26)	21/12/08	12:27:43	12:39:51	00:12:07	00:10:14	230-	79-	57-	39481
S2 (43)	21/12/08	12:31:30	12:43:54	00:04:02	-----	305-	84-	123-	39558
T4 (44)	21/12/08	12:39:22	12:51:42	00:07:48	-----	244-	67-	54-	39437
S3 (42)	21/12/08	13:07:04	13:19:15	00:12:10	00:15:21	299-	57-	139-	39553
T1 (28)	21/12/08	13:16:24	13:28:23	00:09:08	-----	260-	42-	51-	39350
S4 (29)	21/12/08	13:40:06	13:51:40	00:11:33	00:11:43	293-	35-	154-	39470
S1 (46)	21/12/08	13:41:49	13:53:14	00:01:34	-----	292-	32-	156-	39471
T2 (40)	21/12/08	13:49:41	14:01:12	00:07:58	-----	273-	32-	51-	39435
K6 (26)	21/12/08	14:11:33	14:22:51	00:11:18	00:10:20	273-	31-	50-	39482
S2 (43)	21/12/08	14:16:02	14:25:55	00:03:04	-----	282-	19-	175-	39559
T4 (44)	21/12/08	14:24:23	14:35:30	00:09:35	-----	284-	26-	52-	39438
S3 (42)	21/12/08	14:52:54	14:59:21	00:06:27	00:17:23	263-	9-	202-	39554
T1 (28)	21/12/08	15:01:44	15:12:29	00:10:44	00:02:22	295-	23-	57-	39351
T2 (40)	21/12/08	15:34:59	15:45:40	00:10:41	00:22:30	302-	22-	63-	39436
K7 (37)	21/12/08	15:53:54	15:58:58	00:05:04	00:08:13	154-	7-	101-	38464
K6 (26)	21/12/08	15:56:10	16:06:34	00:07:35	-----	302-	21-	62-	39483
T4 (44)	21/12/08	16:09:28	16:20:22	00:10:53	00:02:54	307-	24-	71-	39439
K3 (33)	21/12/08	16:26:17	16:35:30	00:09:13	00:05:55	179-	16-	82-	38465
T1 (28)	21/12/08	16:46:22	16:57:42	00:11:19	00:10:51	309-	29-	83-	39352

Satellite	Date	AOS Time	LOS Time	Duration	Interval Between	AOS Az	Max EI	LOS Az	Orbit num.
K9 (39)	21/12/08	16:59:41	17:10:56	00:11:14	00:01:58	200-	30-	68-	38465
T2 (40)	21/12/08	17:19:14	17:31:01	00:11:47	00:08:17	310-	37-	95-	39437
K7 (37)	21/12/08	17:33:17	17:45:21	00:12:04	00:02:15	217-	50-	62-	38465
K6 (26)	21/12/08	17:39:44	17:51:10	00:05:49	-----	310-	35-	94-	39484
K4 (24)	21/12/08	17:41:14	17:50:21	00:00:04	-----	179-	15-	82-	38615
T4 (44)	21/12/08	17:53:25	18:05:35	00:12:10	00:03:03	308-	52-	108-	39440
K3 (33)	21/12/08	18:07:54	18:20:16	00:12:22	00:02:18	232-	85-	57-	38466
T1 (28)	21/12/08	18:30:07	18:42:29	00:12:22	00:09:50	305-	84-	124-	39353
K9 (39)	21/12/08	18:42:43	18:54:59	00:12:15	00:00:13	249-	58-	53-	38466
T2 (40)	21/12/08	19:02:58	19:15:10	00:12:11	00:07:59	300-	59-	138-	39438
K7 (37)	21/12/08	19:17:12	19:29:08	00:11:56	00:02:01	262-	40-	51-	38466
K6 (26)	21/12/08	19:22:46	19:34:39	00:05:31	-----	300-	62-	137-	39485
K4 (24)	21/12/08	19:22:55	19:35:14	00:00:34	-----	232-	84-	57-	38616
T4 (44)	21/12/08	19:37:21	19:48:54	00:11:32	00:02:07	293-	35-	154-	39441
K3 (33)	21/12/08	19:52:31	20:04:00	00:11:28	00:03:36	274-	30-	51-	38467
T1 (28)	21/12/08	20:14:39	20:24:32	00:09:53	00:10:39	282-	19-	175-	39354
K9 (39)	21/12/08	20:27:52	20:38:51	00:10:58	00:03:20	287-	25-	53-	38467
T2 (40)	21/12/08	20:48:41	20:55:26	00:06:45	00:09:49	265-	9-	200-	39439
K7 (37)	21/12/08	21:02:32	21:13:16	00:10:44	00:07:05	296-	23-	57-	38467
K4 (24)	21/12/08	21:07:38	21:19:02	00:05:45	-----	274-	30-	51-	38617
K6 (26)	21/12/08	21:07:40	21:14:22	00:04:03	-----	265-	10-	199-	39486
T3 (25)	21/12/08	21:08:47	21:19:29	00:05:07	-----	190-	22-	74-	38422
R3 (45)	21/12/08	21:23:44	21:35:20	00:11:35	00:04:14	209-	39-	64-	39628
K3 (33)	21/12/08	21:37:48	21:48:31	00:10:42	00:02:28	303-	22-	64-	38468
R1 (47)	21/12/08	21:52:07	21:58:50	00:06:43	00:03:35	162-	9-	97-	39593
K9 (39)	21/12/08	22:12:50	22:23:50	00:11:00	00:14:00	308-	25-	75-	38468
R2 (38)	21/12/08	22:40:05	22:50:42	00:10:36	00:16:15	191-	23-	72-	40665
K7 (37)	21/12/08	22:47:08	22:58:31	00:07:49	-----	309-	29-	85-	38468
T3 (25)	21/12/08	22:51:55	23:04:44	00:06:12	-----	239-	78-	55-	38423
K4 (24)	21/12/08	22:53:02	23:03:38	00:01:06	-----	303-	22-	64-	38618
R3 (45)	21/12/08	23:07:00	23:18:56	00:11:56	00:03:21	256-	47-	52-	39629
K3 (33)	21/12/08	23:22:00	23:33:51	00:11:51	00:03:04	309-	39-	97-	38469
R1 (47)	21/12/08	23:32:21	23:44:34	00:10:42	-----	221-	59-	60-	39594
K9 (39)	21/12/08	23:56:42	00:08:58	00:12:15	00:12:08	307-	59-	112-	38469
R2 (38)	21/12/09	00:22:36	00:34:58	00:12:21	00:13:38	242-	71-	54-	40666
K7 (37)	21/12/09	00:30:51	00:43:14	00:08:15	-----	304-	90-	126-	38469
K4 (24)	21/12/09	00:37:19	00:49:05	00:05:50	-----	310-	38-	97-	38619
T3 (25)	21/12/09	00:37:40	00:49:24	00:00:19	-----	279-	29-	53-	38424
R3 (45)	21/12/09	00:51:59	01:02:39	00:10:39	00:02:35	292-	23-	55-	39630
K3 (33)	21/12/09	01:05:46	01:17:53	00:12:07	00:03:07	299-	55-	141-	38470
R1 (47)	21/12/09	01:16:29	01:28:18	00:10:25	-----	265-	37-	51-	39595
K9 (39)	21/12/09	01:40:46	01:51:57	00:11:10	00:12:27	290-	29-	160-	38470
R2 (38)	21/12/09	02:07:35	02:18:45	00:11:09	00:15:38	282-	26-	52-	40667
K7 (37)	21/12/09	02:15:31	02:25:03	00:06:17	-----	280-	17-	179-	38470
K4 (24)	21/12/09	02:21:10	02:33:13	00:08:10	-----	299-	55-	140-	38620
T3 (25)	21/12/09	02:23:42	02:35:02	00:01:48	-----	304-	24-	70-	38425
R3 (45)	21/12/09	02:36:27	02:47:30	00:11:02	00:01:25	309-	27-	80-	39631
K3 (33)	21/12/09	02:51:47	02:57:46	00:05:58	00:04:17	261-	8-	206-	38471
R1 (47)	21/12/09	03:01:50	03:12:33	00:10:42	00:04:04	298-	22-	59-	39596
R2 (38)	21/12/09	03:52:42	04:03:33	00:10:51	00:40:08	306-	23-	70-	40668

Satellite	Date	AOS Time	LOS Time	Duration	Interval Between	AOS Az	Max El	LOS Az	Orbit num.
S4 (29)	21/12/09	04:03:39	04:12:13	00:08:34	00:00:05	174-	14-	86-	39479
S1 (46)	21/12/09	04:05:04	04:14:00	00:01:47	-----	177-	15-	83-	39480
K4 (24)	21/12/09	04:07:15	04:13:14	00:00:04	-----	260-	8-	206-	38621
T3 (25)	21/12/09	04:08:36	04:21:11	00:07:57	-----	308-	48-	105-	38426
R3 (45)	21/12/09	04:19:56	04:32:09	00:10:58	-----	306-	73-	119-	39632
S2 (43)	21/12/09	04:37:31	04:48:26	00:10:54	00:05:22	195-	26-	70-	39568
R1 (47)	21/12/09	04:46:19	04:57:51	00:09:24	-----	310-	32-	88-	39597
S3 (42)	21/12/09	05:12:18	05:24:16	00:11:58	00:14:26	214-	47-	62-	39563
R2 (38)	21/12/09	05:36:40	05:48:48	00:12:07	00:12:24	308-	49-	106-	40669
S4 (29)	21/12/09	05:44:54	05:57:14	00:08:25	-----	229-	77-	58-	39480
S1 (46)	21/12/09	05:46:31	05:58:53	00:01:39	-----	231-	81-	57-	39481
T3 (25)	21/12/09	05:53:21	06:05:35	00:06:41	-----	295-	41-	149-	38427
R3 (45)	21/12/09	06:03:59	06:14:18	00:08:42	-----	285-	22-	169-	39633
S2 (43)	21/12/09	06:20:17	06:32:36	00:12:19	00:05:58	245-	64-	53-	39569
R1 (47)	21/12/09	06:30:02	06:42:23	00:09:47	-----	303-	80-	130-	39598
S3 (42)	21/12/09	06:56:05	07:08:05	00:11:59	00:13:42	260-	42-	51-	39564
R2 (38)	21/12/09	07:20:35	07:32:14	00:11:39	00:12:30	294-	37-	152-	40670
S4 (29)	21/12/09	07:29:23	07:40:58	00:08:43	-----	272-	32-	51-	39481
S1 (46)	21/12/09	07:31:05	07:42:37	00:01:38	-----	273-	31-	51-	39482
S2 (43)	21/12/09	08:05:20	08:16:25	00:11:05	00:22:43	285-	26-	53-	39570
R1 (47)	21/12/09	08:14:58	08:23:46	00:07:20	-----	276-	14-	185-	39599
S3 (42)	21/12/09	08:41:25	08:52:11	00:10:46	00:17:39	295-	23-	57-	39565
S4 (29)	21/12/09	09:14:42	09:25:24	00:10:42	00:22:30	301-	22-	63-	39482
S1 (46)	21/12/09	09:16:23	09:27:06	00:01:41	-----	302-	22-	64-	39483
S2 (43)	21/12/09	09:50:23	10:01:19	00:10:55	00:23:16	307-	24-	72-	39571
T4 (44)	21/12/09	10:00:53	10:09:27	00:08:08	-----	174-	13-	86-	39450
S3 (42)	21/12/09	10:26:03	10:37:25	00:11:21	00:16:35	309-	29-	83-	39566
T1 (28)	21/12/09	10:36:09	10:47:03	00:09:38	-----	195-	26-	70-	39363
S4 (29)	21/12/09	10:58:58	11:10:45	00:11:46	00:11:54	310-	36-	94-	39483
S1 (46)	21/12/09	11:00:36	11:12:27	00:01:41	-----	310-	38-	96-	39484
T2 (40)	21/12/09	11:08:15	11:20:09	00:07:42	-----	213-	45-	63-	39448
K6 (26)	21/12/09	11:21:27	11:32:56	00:11:29	00:01:17	208-	38-	65-	39495
S2 (43)	21/12/09	11:34:18	11:46:31	00:12:12	00:01:21	308-	53-	109-	39572
T4 (44)	21/12/09	11:42:07	11:54:28	00:07:57	-----	229-	76-	58-	39451
S3 (42)	21/12/09	12:09:48	12:22:11	00:12:23	00:15:19	304-	85-	124-	39567
T1 (28)	21/12/09	12:18:55	12:31:13	00:09:01	-----	245-	64-	53-	39364
S4 (29)	21/12/09	12:42:43	12:54:57	00:12:14	00:11:29	300-	62-	137-	39484
S1 (46)	21/12/09	12:44:22	12:56:33	00:01:35	-----	299-	57-	139-	39485
T2 (40)	21/12/09	12:52:00	13:03:59	00:07:26	-----	259-	43-	51-	39449
K6 (26)	21/12/09	13:04:14	13:16:07	00:11:53	00:00:14	255-	47-	51-	39496
S2 (43)	21/12/09	13:18:17	13:29:45	00:11:28	00:02:09	292-	33-	155-	39573
T4 (44)	21/12/09	13:26:36	13:38:12	00:08:26	-----	272-	32-	51-	39452
S3 (42)	21/12/09	13:54:21	14:04:10	00:09:49	00:16:09	281-	18-	175-	39568
T1 (28)	21/12/09	14:03:59	14:15:02	00:10:52	-----	285-	25-	53-	39365
S4 (29)	21/12/09	14:28:18	14:35:22	00:07:04	00:13:15	266-	10-	198-	39485
S1 (46)	21/12/09	14:30:11	14:36:40	00:01:17	-----	263-	9-	202-	39486
T2 (40)	21/12/09	14:37:18	14:48:04	00:10:45	00:00:38	294-	23-	57-	39450
K6 (26)	21/12/09	14:48:48	14:59:22	00:10:33	00:00:44	292-	23-	54-	39497
T4 (44)	21/12/09	15:11:55	15:22:38	00:10:42	00:12:33	301-	22-	62-	39453
K3 (33)	21/12/09	15:31:38	15:36:30	00:04:51	00:09:00	149-	7-	102-	38479

Satellite	Date	AOS Time	LOS Time	Duration	Interval Between	AOS Az	Max El	LOS Az	Orbit num.
T1 (28)	21/12/09	15:49:01	15:59:56	00:10:54	00:12:31	307-	24-	72-	39366
K9 (39)	21/12/09	16:03:38	16:13:07	00:09:29	00:03:41	182-	17-	79-	38479
T2 (40)	21/12/09	16:21:58	16:33:16	00:11:18	00:08:50	309-	28-	83-	39451
K6 (26)	21/12/09	16:32:54	16:43:45	00:10:28	-----	309-	26-	78-	39498
K7 (37)	21/12/09	16:36:44	16:47:52	00:04:06	-----	198-	28-	69-	38479
K4 (24)	21/12/09	16:47:54	16:52:49	00:04:54	00:00:01	154-	7-	102-	38629
T4 (44)	21/12/09	16:56:12	17:07:58	00:11:46	00:03:23	310-	36-	94-	39454
K3 (33)	21/12/09	17:10:57	17:23:00	00:12:02	00:02:58	216-	49-	62-	38480
T1 (28)	21/12/09	17:32:56	17:45:08	00:12:12	00:09:56	308-	54-	109-	39367
K9 (39)	21/12/09	17:45:25	17:57:48	00:12:23	00:00:16	234-	89-	56-	38480
T2 (40)	21/12/09	18:05:42	18:18:05	00:12:22	00:07:54	305-	83-	123-	39452
K6 (26)	21/12/09	18:15:58	18:28:00	00:09:55	-----	306-	69-	117-	39499
K7 (37)	21/12/09	18:19:40	18:31:58	00:03:57	-----	247-	60-	53-	38480
K4 (24)	21/12/09	18:27:19	18:39:21	00:07:23	-----	217-	50-	62-	38630
T4 (44)	21/12/09	18:39:56	18:52:10	00:12:13	00:00:35	300-	62-	137-	39455
K3 (33)	21/12/09	18:54:50	19:06:47	00:11:56	00:02:40	261-	41-	51-	38481
T1 (28)	21/12/09	19:16:55	19:28:22	00:11:27	00:10:07	292-	33-	155-	39368
K9 (39)	21/12/09	19:30:06	19:41:31	00:11:25	00:01:44	276-	30-	51-	38481
T2 (40)	21/12/09	19:50:12	20:00:11	00:09:58	00:08:41	282-	19-	174-	39453
K6 (26)	21/12/09	19:59:33	20:09:50	00:09:39	-----	286-	23-	167-	39500
K7 (37)	21/12/09	20:04:47	20:15:49	00:05:58	-----	286-	25-	53-	38481
K4 (24)	21/12/09	20:11:20	20:23:13	00:07:24	-----	261-	40-	51-	38631
R3 (45)	21/12/09	20:23:41	20:33:50	00:10:08	00:00:28	189-	21-	75-	39642
T3 (25)	21/12/09	20:24:08	20:33:10	00:00:04	-----	175-	14-	84-	38436
T4 (44)	21/12/09	20:25:31	20:32:37	00:00:03	-----	267-	10-	198-	39456
K3 (33)	21/12/09	20:40:11	20:50:55	00:10:44	00:07:33	295-	23-	57-	38482
K9 (39)	21/12/09	21:15:22	21:26:06	00:10:43	00:24:27	303-	22-	65-	38482
R2 (38)	21/12/09	21:44:23	21:52:34	00:08:10	00:18:17	171-	12-	88-	40679
K7 (37)	21/12/09	21:49:47	22:00:45	00:08:11	-----	307-	24-	74-	38482
K4 (24)	21/12/09	21:56:47	22:07:26	00:06:40	-----	296-	22-	57-	38632
R3 (45)	21/12/09	22:05:43	22:17:56	00:10:30	-----	240-	76-	55-	39643
T3 (25)	21/12/09	22:06:15	22:19:02	00:01:05	-----	229-	77-	58-	38437
K3 (33)	21/12/09	22:24:47	22:36:10	00:11:22	00:05:44	309-	29-	84-	38483
R1 (47)	21/12/09	22:35:40	22:47:08	00:10:58	-----	203-	33-	67-	39608
K9 (39)	21/12/09	22:59:31	23:11:26	00:11:54	00:12:23	309-	40-	99-	38483
R2 (38)	21/12/09	23:25:24	23:37:44	00:12:19	00:13:58	227-	72-	58-	40680
K7 (37)	21/12/09	23:33:40	23:45:55	00:08:11	-----	308-	57-	111-	38483
K4 (24)	21/12/09	23:41:29	23:52:46	00:06:51	-----	310-	29-	85-	38633
R3 (45)	21/12/09	23:50:20	00:01:25	00:08:38	-----	281-	27-	51-	39644
T3 (25)	21/12/09	23:51:36	00:03:38	00:02:13	-----	271-	33-	52-	38438
K3 (33)	21/12/10	00:08:31	00:20:53	00:12:22	00:04:52	304-	88-	125-	38484
R1 (47)	21/12/10	00:18:53	00:31:07	00:10:13	-----	251-	54-	52-	39609
K9 (39)	21/12/10	00:43:18	00:55:22	00:12:03	00:12:11	298-	51-	142-	38484
R2 (38)	21/12/10	01:09:48	01:21:27	00:11:38	00:14:26	270-	33-	51-	40681
K7 (37)	21/12/10	01:17:43	01:29:01	00:07:33	-----	291-	31-	158-	38484
K4 (24)	21/12/10	01:25:18	01:37:35	00:08:34	-----	304-	89-	125-	38634
R3 (45)	21/12/10	01:35:12	01:45:51	00:08:15	-----	306-	23-	68-	39645
T3 (25)	21/12/10	01:37:46	01:49:00	00:03:08	-----	301-	23-	64-	38439
K3 (33)	21/12/10	01:53:09	02:02:45	00:09:36	00:04:08	280-	17-	178-	38485
R1 (47)	21/12/10	02:04:06	02:15:02	00:10:56	00:01:20	289-	24-	54-	39610

Satellite	Date	AOS Time	LOS Time	Duration	Interval Between	AOS Az	Max EI	LOS Az	Orbit num.
K9 (39)	21/12/10	02:29:36	02:34:54	00:05:17	00:14:34	257-	8-	210-	38485
R2 (38)	21/12/10	02:55:08	03:05:50	00:10:41	00:20:14	301-	22-	62-	40682
K4 (24)	21/12/10	03:10:02	03:19:31	00:09:28	00:04:12	280-	17-	179-	38635
R3 (45)	21/12/10	03:18:56	03:30:52	00:11:20	-----	309-	45-	103-	39646
T3 (25)	21/12/10	03:22:55	03:35:13	00:04:20	-----	309-	38-	96-	38440
S2 (43)	21/12/10	03:41:39	03:50:25	00:08:46	00:06:26	176-	14-	84-	39582
R1 (47)	21/12/10	03:49:00	04:00:05	00:09:39	-----	308-	26-	76-	39611
S3 (42)	21/12/10	04:15:47	04:26:44	00:10:57	00:15:42	195-	27-	70-	39577
R2 (38)	21/12/10	04:39:28	04:51:10	00:11:42	00:12:43	310-	35-	93-	40683
S4 (29)	21/12/10	04:48:02	04:59:55	00:08:44	-----	212-	44-	63-	39494
S1 (46)	21/12/10	04:49:35	05:01:33	00:01:38	-----	214-	47-	62-	39495
R3 (45)	21/12/10	05:02:31	05:14:12	00:11:41	00:00:57	295-	41-	148-	39647
T3 (25)	21/12/10	05:07:33	05:20:12	00:06:00	-----	300-	60-	139-	38441
S2 (43)	21/12/10	05:23:01	05:35:22	00:12:21	00:02:49	230-	79-	57-	39583
R1 (47)	21/12/10	05:32:49	05:45:08	00:09:45	-----	307-	64-	115-	39612
S3 (42)	21/12/10	05:58:34	06:10:53	00:12:19	00:13:26	246-	64-	53-	39578
R2 (38)	21/12/10	06:23:12	06:35:27	00:12:15	00:12:18	301-	66-	135-	40684
S4 (29)	21/12/10	06:31:43	06:43:45	00:08:17	-----	258-	44-	51-	39495
S1 (46)	21/12/10	06:33:23	06:45:22	00:01:36	-----	260-	42-	51-	39496
T3 (25)	21/12/10	06:54:06	07:01:19	00:07:12	00:08:43	266-	10-	199-	38442
S2 (43)	21/12/10	07:07:33	07:19:06	00:11:32	00:06:14	273-	32-	51-	39584
R1 (47)	21/12/10	07:17:00	07:27:55	00:08:49	-----	288-	26-	163-	39613
S3 (42)	21/12/10	07:43:39	07:54:43	00:11:04	00:15:43	285-	25-	53-	39579
R2 (38)	21/12/10	08:08:35	08:16:10	00:07:34	00:13:51	269-	11-	194-	40685
S4 (29)	21/12/10	08:17:01	08:27:49	00:10:47	00:00:51	294-	23-	56-	39496
S1 (46)	21/12/10	08:18:42	08:29:28	00:01:39	-----	295-	23-	57-	39497
S2 (43)	21/12/10	08:52:51	09:03:34	00:10:42	00:23:22	302-	22-	63-	39585
S3 (42)	21/12/10	09:28:41	09:39:37	00:10:56	00:25:06	307-	24-	72-	39580
T1 (28)	21/12/10	09:40:17	09:49:05	00:08:47	00:00:39	176-	14-	84-	39377
S4 (29)	21/12/10	10:01:43	10:13:01	00:11:17	00:12:38	309-	28-	82-	39497
S1 (46)	21/12/10	10:03:20	10:14:42	00:01:40	-----	309-	29-	83-	39498
T2 (40)	21/12/10	10:11:46	10:22:37	00:07:54	-----	194-	26-	71-	39462
K6 (26)	21/12/10	10:15:56	10:25:34	00:02:57	-----	185-	18-	77-	39509
S2 (43)	21/12/10	10:37:06	10:48:55	00:11:48	00:11:31	310-	37-	95-	39586
T4 (44)	21/12/10	10:45:14	10:57:07	00:08:12	-----	212-	44-	63-	39465
S3 (42)	21/12/10	11:12:36	11:24:49	00:12:13	00:15:28	308-	54-	109-	39581
T1 (28)	21/12/10	11:21:41	11:34:01	00:09:11	-----	230-	80-	57-	39378
S4 (29)	21/12/10	11:45:28	11:57:51	00:12:23	00:11:26	305-	80-	122-	39498
S1 (46)	21/12/10	11:47:05	11:59:28	00:01:36	-----	304-	85-	124-	39499
T2 (40)	21/12/10	11:54:29	12:06:47	00:07:19	-----	245-	65-	54-	39463
K6 (26)	21/12/10	11:57:15	12:09:24	00:02:36	-----	237-	84-	55-	39510
S2 (43)	21/12/10	12:20:51	12:33:03	00:12:12	00:11:26	300-	59-	138-	39587
T4 (44)	21/12/10	12:28:55	12:40:58	00:07:54	-----	258-	44-	51-	39466
S3 (42)	21/12/10	12:56:35	13:08:01	00:11:26	00:15:36	292-	33-	156-	39582
T1 (28)	21/12/10	13:06:13	13:17:44	00:09:42	-----	273-	31-	51-	39379
S4 (29)	21/12/10	13:29:56	13:40:02	00:10:06	00:12:11	283-	20-	173-	39499
S1 (46)	21/12/10	13:31:38	13:41:27	00:01:25	-----	281-	18-	175-	39500
T2 (40)	21/12/10	13:39:32	13:50:36	00:09:08	-----	284-	26-	53-	39464
K6 (26)	21/12/10	13:41:19	13:52:25	00:01:48	-----	278-	28-	51-	39511
S2 (43)	21/12/10	14:06:34	14:13:18	00:06:43	00:14:09	265-	9-	200-	39588

Satellite	Date	AOS Time	LOS Time	Duration	Interval Between	AOS Az	Max EI	LOS Az	Orbit num.
T4 (44)	21/12/10	14:14:14	14:25:01	00:10:47	00:00:55	293-	23-	56-	39467
T1 (28)	21/12/10	14:51:31	15:02:13	00:10:41	00:26:30	302-	22-	63-	39380
K9 (39)	21/12/10	15:08:44	15:14:23	00:05:38	00:06:31	156-	8-	103-	38493
T2 (40)	21/12/10	15:24:35	15:35:29	00:10:53	00:10:12	307-	24-	72-	39465
K6 (26)	21/12/10	15:25:51	15:36:19	00:00:50	-----	305-	22-	65-	39512
K7 (37)	21/12/10	15:40:46	15:50:01	00:09:15	00:04:26	179-	16-	81-	38493
T4 (44)	21/12/10	15:58:55	16:10:13	00:11:17	00:08:54	309-	28-	82-	39468
K3 (33)	21/12/10	16:14:26	16:25:31	00:11:04	00:04:13	197-	28-	69-	38494
T1 (28)	21/12/10	16:35:46	16:47:34	00:11:48	00:10:14	310-	37-	95-	39381
K9 (39)	21/12/10	16:48:25	17:00:31	00:12:06	00:00:51	218-	53-	61-	38494
T2 (40)	21/12/10	17:08:30	17:20:42	00:12:11	00:07:59	308-	53-	109-	39466
K6 (26)	21/12/10	17:09:15	17:20:55	00:00:13	-----	310-	40-	99-	39513
K7 (37)	21/12/10	17:22:23	17:34:46	00:12:22	00:01:28	232-	85-	57-	38494
K4 (24)	21/12/10	17:32:08	17:43:17	00:08:30	-----	198-	29-	69-	38644
T4 (44)	21/12/10	17:42:41	17:55:03	00:11:46	-----	305-	80-	122-	39469
K3 (33)	21/12/10	17:57:20	18:09:37	00:12:17	00:02:16	247-	61-	53-	38495
T1 (28)	21/12/10	18:19:31	18:31:42	00:12:11	00:09:53	299-	59-	139-	39382
K9 (39)	21/12/10	18:32:24	18:44:18	00:11:53	00:00:42	263-	39-	51-	38495
K6 (26)	21/12/10	18:52:21	19:04:03	00:11:42	00:08:03	297-	48-	144-	39514
T2 (40)	21/12/10	18:52:28	19:03:58	00:00:05	-----	293-	34-	154-	39467
K7 (37)	21/12/10	19:07:01	19:18:30	00:11:28	00:03:03	274-	30-	51-	38495
K4 (24)	21/12/10	19:15:12	19:27:26	00:08:56	-----	248-	59-	53-	38645
R3 (45)	21/12/10	19:24:41	19:31:33	00:04:07	-----	164-	10-	96-	39656
T4 (44)	21/12/10	19:27:08	19:37:13	00:05:39	-----	283-	20-	173-	39470
T3 (25)	21/12/10	19:40:07	19:46:22	00:06:14	00:02:54	158-	8-	100-	38450
K3 (33)	21/12/10	19:42:26	19:53:28	00:07:05	-----	286-	25-	53-	38496
T1 (28)	21/12/10	20:05:16	20:11:55	00:06:39	00:11:47	264-	9-	200-	39383
K9 (39)	21/12/10	20:17:44	20:28:28	00:10:43	00:05:49	296-	22-	58-	38496
K6 (26)	21/12/10	20:38:20	20:42:28	00:04:08	00:09:51	251-	6-	217-	39515
K7 (37)	21/12/10	20:52:18	21:03:02	00:10:43	00:09:50	303-	22-	64-	38496
K4 (24)	21/12/10	21:00:27	21:11:22	00:08:20	-----	287-	25-	53-	38646
R3 (45)	21/12/10	21:04:48	21:16:53	00:05:30	-----	223-	61-	60-	39657
T3 (25)	21/12/10	21:20:44	21:33:17	00:12:32	00:03:51	218-	54-	61-	38451
K3 (33)	21/12/10	21:27:27	21:38:24	00:05:07	-----	307-	24-	73-	38497
R1 (47)	21/12/10	21:39:29	21:49:24	00:09:54	00:01:05	185-	19-	77-	39622
K9 (39)	21/12/10	22:02:18	22:13:44	00:11:26	00:12:54	310-	30-	86-	38497
R2 (38)	21/12/10	22:28:34	22:40:22	00:11:47	00:14:50	210-	41-	64-	40694
K7 (37)	21/12/10	22:36:30	22:48:22	00:08:00	-----	309-	39-	97-	38497
K4 (24)	21/12/10	22:45:33	22:56:25	00:08:02	-----	308-	24-	74-	38647
R3 (45)	21/12/10	22:48:43	23:00:20	00:03:54	-----	267-	36-	51-	39658
T3 (25)	21/12/10	23:05:35	23:17:56	00:12:21	00:05:14	262-	41-	52-	38452
K3 (33)	21/12/10	23:11:21	23:23:34	00:05:38	-----	308-	56-	111-	38498
R1 (47)	21/12/10	23:21:31	23:33:55	00:10:20	-----	237-	84-	55-	39623
K9 (39)	21/12/10	23:46:01	23:58:23	00:12:21	00:12:06	304-	87-	127-	38498
R2 (38)	21/12/11	00:12:08	00:24:14	00:12:05	00:13:44	256-	46-	52-	40695
K7 (37)	21/12/11	00:20:16	00:32:23	00:08:09	-----	299-	54-	141-	38498
K4 (24)	21/12/11	00:29:30	00:41:40	00:09:16	-----	308-	57-	111-	38648
R3 (45)	21/12/11	00:33:46	00:44:18	00:02:38	-----	299-	22-	59-	39659
T3 (25)	21/12/11	00:51:47	01:03:01	00:11:14	00:07:28	296-	24-	59-	38453
K3 (33)	21/12/11	00:55:22	01:06:42	00:03:41	-----	291-	31-	158-	38499

Satellite	Date	AOS Time	LOS Time	Duration	Interval Between	AOS Az	Max EI	LOS Az	Orbit num.
R1 (47)	21/12/11	01:06:19	01:17:40	00:10:57	-----	278-	29-	51-	39624
K9 (39)	21/12/11	01:30:45	01:40:05	00:09:20	00:13:05	279-	16-	180-	38499
R2 (38)	21/12/11	01:57:26	02:08:15	00:10:49	00:17:20	292-	23-	56-	40696
K7 (37)	21/12/11	02:06:19	02:12:13	00:03:58	-----	260-	8-	206-	38499
K4 (24)	21/12/11	02:13:39	02:24:48	00:11:09	00:01:25	291-	30-	159-	38649
R3 (45)	21/12/11	02:17:55	02:29:20	00:04:31	-----	310-	32-	89-	39660
T3 (25)	21/12/11	02:37:12	02:49:10	00:11:58	00:07:52	309-	32-	87-	38454
R1 (47)	21/12/11	02:51:32	03:02:19	00:10:46	00:02:21	304-	23-	67-	39625
S3 (42)	21/12/11	03:19:53	03:28:46	00:08:52	00:17:34	177-	15-	83-	39591
R2 (38)	21/12/11	03:42:11	03:53:24	00:11:13	00:13:24	309-	27-	80-	40697
S4 (29)	21/12/11	03:51:36	04:02:22	00:08:57	-----	193-	25-	71-	39508
S1 (46)	21/12/11	03:53:04	04:04:01	00:01:39	-----	195-	27-	70-	39509
R3 (45)	21/12/11	04:01:21	04:13:33	00:09:32	-----	302-	77-	131-	39661
T3 (25)	21/12/11	04:21:48	04:34:38	00:12:50	00:08:15	303-	84-	128-	38455
S2 (43)	21/12/11	04:26:07	04:38:02	00:03:23	-----	213-	46-	63-	39597
R1 (47)	21/12/11	04:35:38	04:47:38	00:09:35	-----	309-	43-	101-	39626
S3 (42)	21/12/11	05:01:19	05:13:40	00:12:21	00:13:40	231-	81-	57-	39592
R2 (38)	21/12/11	05:25:57	05:38:18	00:12:21	00:12:16	305-	76-	120-	40698
S4 (29)	21/12/11	05:34:15	05:46:35	00:08:16	-----	244-	67-	54-	39509
S1 (46)	21/12/11	05:35:51	05:48:10	00:01:35	-----	246-	64-	53-	39510
R3 (45)	21/12/11	05:46:03	05:54:34	00:06:23	-----	274-	14-	186-	39662
T3 (25)	21/12/11	06:07:27	06:17:02	00:09:35	00:12:53	279-	16-	181-	38456
S2 (43)	21/12/11	06:09:52	06:21:52	00:04:49	-----	259-	43-	51-	39598
R1 (47)	21/12/11	06:19:27	06:31:25	00:09:32	-----	297-	46-	145-	39627
S3 (42)	21/12/11	06:45:52	06:57:24	00:11:31	00:14:26	273-	31-	51-	39593
R2 (38)	21/12/11	07:10:19	07:20:38	00:10:18	00:12:55	285-	21-	170-	40699
S4 (29)	21/12/11	07:19:16	07:30:23	00:09:45	-----	283-	26-	52-	39510
S1 (46)	21/12/11	07:20:55	07:32:00	00:01:36	-----	285-	25-	53-	39511
S2 (43)	21/12/11	07:55:10	08:05:57	00:10:46	00:23:10	294-	23-	57-	39599
R1 (47)	21/12/11	08:06:19	08:10:17	00:03:57	00:00:22	249-	6-	219-	39628
S3 (42)	21/12/11	08:31:10	08:41:53	00:10:43	00:20:52	302-	22-	63-	39594
S4 (29)	21/12/11	09:04:21	09:15:15	00:10:53	00:22:27	306-	24-	71-	39511
S1 (46)	21/12/11	09:05:57	09:16:54	00:01:39	-----	307-	24-	72-	39512
T2 (40)	21/12/11	09:15:55	09:24:36	00:07:42	-----	175-	14-	85-	39476
S2 (43)	21/12/11	09:39:50	09:51:10	00:11:19	00:15:13	309-	28-	83-	39600
T4 (44)	21/12/11	09:48:48	09:59:33	00:08:23	-----	193-	25-	72-	39479
S3 (42)	21/12/11	10:15:24	10:27:14	00:11:49	00:15:50	310-	37-	96-	39595
T1 (28)	21/12/11	10:24:48	10:36:43	00:09:29	-----	213-	46-	63-	39392
S4 (29)	21/12/11	10:48:17	11:00:29	00:12:11	00:11:34	308-	51-	108-	39512
S1 (46)	21/12/11	10:49:52	11:02:05	00:01:36	-----	308-	54-	109-	39513
K6 (26)	21/12/11	10:50:46	11:02:34	00:00:28	-----	216-	49-	62-	39524
T2 (40)	21/12/11	10:57:14	11:09:34	00:07:00	-----	230-	78-	57-	39477
S2 (43)	21/12/11	11:23:35	11:35:58	00:12:23	00:14:00	305-	83-	123-	39601
T4 (44)	21/12/11	11:31:25	11:43:46	00:07:48	-----	244-	68-	54-	39480
S3 (42)	21/12/11	11:59:09	12:11:20	00:12:11	00:15:22	299-	58-	139-	39596
T1 (28)	21/12/11	12:08:33	12:20:32	00:09:11	-----	259-	43-	51-	39393
S4 (29)	21/12/11	12:32:14	12:43:48	00:11:34	00:11:41	293-	35-	153-	39513
S1 (46)	21/12/11	12:33:51	12:45:18	00:01:29	-----	292-	33-	156-	39514
K6 (26)	21/12/11	12:33:56	12:45:39	00:00:20	-----	261-	40-	51-	39525
T2 (40)	21/12/11	12:41:45	12:53:17	00:07:38	-----	272-	32-	51-	39478

Satellite	Date	AOS Time	LOS Time	Duration	Interval Between	AOS Az	Max EI	LOS Az	Orbit num.
S2 (43)	21/12/11	13:08:05	13:18:02	00:09:56	00:14:48	282-	19-	174-	39602
T4 (44)	21/12/11	13:16:26	13:27:34	00:09:32	-----	283-	26-	52-	39481
S3 (42)	21/12/11	13:44:56	13:51:30	00:06:34	00:17:21	264-	9-	201-	39597
T1 (28)	21/12/11	13:53:52	14:04:37	00:10:44	00:02:22	294-	23-	57-	39394
K6 (26)	21/12/11	14:18:34	14:29:02	00:10:28	00:13:56	296-	22-	56-	39526
T2 (40)	21/12/11	14:27:03	14:37:45	00:08:42	-----	302-	22-	63-	39479
K7 (37)	21/12/11	14:46:08	14:51:02	00:04:54	00:08:23	154-	7-	102-	38507
T4 (44)	21/12/11	15:01:32	15:12:25	00:10:53	00:10:29	306-	24-	71-	39482
K3 (33)	21/12/11	15:18:30	15:27:39	00:09:09	00:06:04	179-	15-	82-	38508
T1 (28)	21/12/11	15:38:32	15:49:51	00:11:18	00:10:52	309-	28-	83-	39395
K9 (39)	21/12/11	15:51:50	16:03:04	00:11:13	00:02:00	199-	30-	68-	38508
K6 (26)	21/12/11	16:02:29	16:13:33	00:10:29	-----	310-	28-	83-	39527
T2 (40)	21/12/11	16:11:19	16:23:05	00:09:32	-----	310-	37-	95-	39480
K7 (37)	21/12/11	16:25:26	16:37:29	00:12:03	00:02:20	217-	50-	62-	38508
K4 (24)	21/12/11	16:37:27	16:46:51	00:09:22	-----	181-	16-	80-	38658
T4 (44)	21/12/11	16:45:28	16:57:39	00:10:47	-----	308-	51-	107-	39483
K3 (33)	21/12/11	17:00:04	17:12:27	00:12:22	00:02:25	232-	84-	57-	38509
T1 (28)	21/12/11	17:22:16	17:34:39	00:12:22	00:09:49	305-	84-	123-	39396
K9 (39)	21/12/11	17:34:51	17:47:07	00:12:16	00:00:12	249-	58-	53-	38509
K6 (26)	21/12/11	17:45:30	17:57:35	00:10:28	-----	305-	85-	124-	39528
T2 (40)	21/12/11	17:55:03	18:07:15	00:09:39	-----	300-	60-	138-	39481
K7 (37)	21/12/11	18:09:20	18:21:17	00:11:56	00:02:04	261-	41-	51-	38509
K4 (24)	21/12/11	18:19:18	18:31:39	00:10:22	-----	233-	88-	56-	38659
T4 (44)	21/12/11	18:29:25	18:41:00	00:09:20	-----	293-	35-	153-	39484
K3 (33)	21/12/11	18:44:41	18:56:10	00:11:28	00:03:41	274-	31-	51-	38510
T1 (28)	21/12/11	19:06:47	19:16:42	00:09:55	00:10:37	282-	19-	174-	39397
K9 (39)	21/12/11	19:20:00	19:31:00	00:10:59	00:03:17	287-	25-	53-	38510
K6 (26)	21/12/11	19:29:23	19:38:49	00:07:49	-----	281-	18-	176-	39529
T2 (40)	21/12/11	19:40:43	19:47:35	00:06:51	00:01:53	265-	10-	199-	39482
K7 (37)	21/12/11	19:54:40	20:05:25	00:10:44	00:07:05	296-	23-	57-	38510
K4 (24)	21/12/11	20:04:05	20:15:27	00:10:02	-----	275-	30-	51-	38660
R3 (45)	21/12/11	20:04:22	20:15:37	00:00:10	-----	202-	32-	67-	39671
K3 (33)	21/12/11	20:29:58	20:40:41	00:10:42	00:14:21	303-	22-	64-	38511
T3 (25)	21/12/11	20:35:25	20:47:27	00:06:45	-----	206-	37-	65-	38465
R1 (47)	21/12/11	20:44:16	20:50:53	00:03:26	-----	161-	9-	97-	39636
K9 (39)	21/12/11	21:04:58	21:15:58	00:11:00	00:14:04	308-	25-	74-	38511
R2 (38)	21/12/11	21:32:11	21:42:45	00:10:34	00:16:13	190-	23-	73-	40708
K7 (37)	21/12/11	21:39:16	21:50:40	00:07:54	-----	309-	29-	85-	38511
R3 (45)	21/12/11	21:47:16	21:59:20	00:08:40	-----	251-	54-	52-	39672
K4 (24)	21/12/11	21:49:28	22:00:05	00:00:45	-----	303-	22-	65-	38661
K3 (33)	21/12/11	22:14:11	22:26:02	00:11:50	00:14:05	309-	38-	97-	38512
T3 (25)	21/12/11	22:19:38	22:32:15	00:06:13	-----	253-	52-	52-	38466
R1 (47)	21/12/11	22:24:27	22:36:40	00:04:24	-----	221-	58-	60-	39637
K9 (39)	21/12/11	22:48:50	23:01:06	00:12:15	00:12:10	307-	59-	112-	38512
R2 (38)	21/12/11	23:14:40	23:27:02	00:12:21	00:13:34	242-	71-	54-	40709
K7 (37)	21/12/11	23:23:00	23:35:23	00:08:20	-----	304-	89-	125-	38512
R3 (45)	21/12/11	23:32:11	23:42:57	00:07:34	-----	289-	24-	54-	39673
K4 (24)	21/12/11	23:33:43	23:45:31	00:02:34	-----	309-	39-	98-	38662
K3 (33)	21/12/11	23:57:56	00:10:04	00:12:07	00:12:24	299-	55-	140-	38513
T3 (25)	21/12/12	00:05:44	00:17:06	00:07:01	-----	290-	25-	56-	38467

Satellite	Date	AOS Time	LOS Time	Duration	Interval Between	AOS Az	Max EI	LOS Az	Orbit num.
R1 (47)	21/12/12	00:08:34	00:20:25	00:03:18	-----	265-	37-	51-	39638
K9 (39)	21/12/12	00:32:54	00:44:06	00:11:11	00:12:29	290-	29-	160-	38513
R2 (38)	21/12/12	00:59:39	01:10:49	00:11:10	00:15:32	282-	27-	52-	40710
K7 (37)	21/12/12	01:07:38	01:17:13	00:06:23	-----	280-	17-	178-	38513
R3 (45)	21/12/12	01:16:47	01:27:41	00:10:27	-----	308-	25-	76-	39674
K4 (24)	21/12/12	01:17:35	01:29:35	00:01:53	-----	298-	52-	142-	38663
K3 (33)	21/12/12	01:43:55	01:50:00	00:06:05	00:14:20	261-	8-	205-	38514
T3 (25)	21/12/12	01:51:26	02:03:06	00:11:39	00:01:25	308-	28-	80-	38468
R1 (47)	21/12/12	01:53:55	02:04:39	00:01:32	-----	298-	22-	59-	39639
R2 (38)	21/12/12	02:44:46	02:55:37	00:10:51	00:40:07	306-	23-	70-	40711
S4 (29)	21/12/12	02:55:50	03:04:20	00:08:30	00:00:12	174-	13-	86-	39522
S1 (46)	21/12/12	02:57:10	03:06:01	00:01:41	-----	177-	14-	83-	39523
R3 (45)	21/12/12	03:00:20	03:12:29	00:06:28	-----	307-	62-	114-	39675
K4 (24)	21/12/12	03:03:56	03:09:16	00:03:01	-----	257-	8-	210-	38664
S2 (43)	21/12/12	03:29:37	03:40:30	00:10:52	00:20:21	194-	26-	71-	39611
T3 (25)	21/12/12	03:36:07	03:48:56	00:08:26	-----	306-	72-	118-	38469
R1 (47)	21/12/12	03:38:25	03:49:57	00:01:00	-----	310-	31-	88-	39640
S3 (42)	21/12/12	04:04:23	04:16:21	00:11:57	00:14:26	214-	47-	62-	39606
R2 (38)	21/12/12	04:28:45	04:40:53	00:12:07	00:12:24	308-	49-	106-	40712
S4 (29)	21/12/12	04:37:02	04:49:22	00:08:29	-----	229-	76-	58-	39523
S1 (46)	21/12/12	04:38:35	04:50:56	00:01:34	-----	231-	80-	57-	39524
R3 (45)	21/12/12	04:44:11	04:55:04	00:04:07	-----	289-	27-	162-	39676
S2 (43)	21/12/12	05:12:21	05:24:40	00:12:19	00:17:16	245-	65-	54-	39612
T3 (25)	21/12/12	05:21:15	05:32:19	00:07:38	-----	287-	24-	167-	38470
R1 (47)	21/12/12	05:22:08	05:34:29	00:02:10	-----	303-	80-	129-	39641
S3 (42)	21/12/12	05:48:10	06:00:10	00:12:00	00:13:40	260-	43-	51-	39607
R2 (38)	21/12/12	06:12:39	06:24:21	00:11:42	00:12:29	294-	38-	152-	40713
S4 (29)	21/12/12	06:21:30	06:33:05	00:08:44	-----	271-	32-	51-	39524
S1 (46)	21/12/12	06:23:07	06:34:39	00:01:33	-----	273-	31-	51-	39525
S2 (43)	21/12/12	06:57:24	07:08:29	00:11:05	00:22:44	284-	26-	53-	39613
R1 (47)	21/12/12	07:07:02	07:15:54	00:07:24	-----	276-	14-	184-	39642
S3 (42)	21/12/12	07:33:29	07:44:16	00:10:46	00:17:35	294-	23-	57-	39608
S4 (29)	21/12/12	08:06:49	08:17:32	00:10:42	00:22:33	301-	22-	62-	39525
S1 (46)	21/12/12	08:08:25	08:19:08	00:01:36	-----	302-	22-	63-	39526
S2 (43)	21/12/12	08:42:27	08:53:22	00:10:55	00:23:18	307-	24-	72-	39614
T4 (44)	21/12/12	08:53:00	09:01:30	00:08:07	-----	174-	13-	86-	39493
S3 (42)	21/12/12	09:18:08	09:29:29	00:11:21	00:16:38	309-	29-	83-	39609
T1 (28)	21/12/12	09:28:20	09:39:12	00:09:42	-----	194-	26-	71-	39406
K6 (26)	21/12/12	09:44:58	09:55:24	00:10:25	00:05:45	191-	23-	72-	39538
S4 (29)	21/12/12	09:51:06	10:02:52	00:07:28	-----	310-	36-	94-	39526
S1 (46)	21/12/12	09:52:39	10:04:29	00:01:36	-----	310-	37-	96-	39527
T2 (40)	21/12/12	10:00:21	10:12:14	00:07:44	-----	213-	45-	63-	39491
S2 (43)	21/12/12	10:26:23	10:38:35	00:12:12	00:14:08	308-	53-	109-	39615
T4 (44)	21/12/12	10:34:12	10:46:32	00:07:57	-----	229-	75-	58-	39494
S3 (42)	21/12/12	11:01:53	11:14:16	00:12:23	00:15:20	305-	84-	124-	39610
T1 (28)	21/12/12	11:11:04	11:23:22	00:09:05	-----	245-	65-	53-	39407
K6 (26)	21/12/12	11:26:50	11:38:56	00:12:06	00:03:27	243-	69-	54-	39539
S4 (29)	21/12/12	11:34:50	11:47:05	00:08:08	-----	300-	62-	137-	39527
S1 (46)	21/12/12	11:36:24	11:48:36	00:01:30	-----	299-	58-	139-	39528
T2 (40)	21/12/12	11:44:04	11:56:04	00:07:27	-----	259-	43-	51-	39492

Satellite	Date	AOS Time	LOS Time	Duration	Interval Between	AOS Az	Max EI	LOS Az	Orbit num.
S2 (43)	21/12/12	12:10:21	12:21:51	00:11:29	00:14:17	293-	34-	155-	39616
T4 (44)	21/12/12	12:18:39	12:30:16	00:08:25	-----	271-	32-	51-	39495
S3 (42)	21/12/12	12:46:25	12:56:17	00:09:51	00:16:09	282-	19-	175-	39611
T1 (28)	21/12/12	12:56:08	13:07:11	00:10:54	-----	284-	26-	53-	39408
K6 (26)	21/12/12	13:11:07	13:22:00	00:10:53	00:03:55	283-	26-	51-	39540
S4 (29)	21/12/12	13:20:24	13:27:34	00:05:33	-----	267-	10-	197-	39528
S1 (46)	21/12/12	13:22:11	13:28:47	00:01:13	-----	264-	9-	201-	39529
T2 (40)	21/12/12	13:29:23	13:40:08	00:10:45	00:00:35	294-	23-	56-	39493
T4 (44)	21/12/12	14:03:59	14:14:41	00:10:42	00:23:50	301-	22-	62-	39496
K3 (33)	21/12/12	14:23:54	14:28:36	00:04:42	00:09:12	148-	7-	102-	38522
T1 (28)	21/12/12	14:41:11	14:52:05	00:10:54	00:12:34	307-	24-	72-	39409
K6 (26)	21/12/12	14:55:31	15:06:06	00:10:34	00:03:26	307-	23-	69-	39541
K9 (39)	21/12/12	14:55:48	15:05:14	00:00:05	-----	181-	17-	80-	38522
T2 (40)	21/12/12	15:14:03	15:25:20	00:11:17	00:08:48	309-	28-	82-	39494
K7 (37)	21/12/12	15:28:54	15:40:00	00:11:06	00:03:33	197-	28-	69-	38522
K4 (24)	21/12/12	15:43:51	15:49:34	00:05:42	00:03:51	156-	8-	103-	38672
T4 (44)	21/12/12	15:48:16	16:00:02	00:10:27	-----	310-	36-	94-	39497
K3 (33)	21/12/12	16:03:08	16:15:10	00:12:02	00:03:06	216-	49-	62-	38523
T1 (28)	21/12/12	16:25:06	16:37:17	00:12:11	00:09:55	308-	53-	109-	39410
K9 (39)	21/12/12	16:37:33	16:49:56	00:12:23	00:00:15	234-	88-	56-	38523
K6 (26)	21/12/12	16:38:47	16:50:38	00:00:41	-----	309-	48-	105-	39542
T2 (40)	21/12/12	16:57:47	17:10:10	00:12:22	00:07:09	305-	82-	123-	39495
K7 (37)	21/12/12	17:11:49	17:24:06	00:12:17	00:01:38	247-	61-	53-	38523
K4 (24)	21/12/12	17:23:40	17:35:47	00:11:40	-----	218-	53-	61-	38673
T4 (44)	21/12/12	17:32:00	17:44:15	00:08:27	-----	300-	63-	137-	39498
K3 (33)	21/12/12	17:47:00	17:58:58	00:11:57	00:02:45	261-	41-	51-	38524
T1 (28)	21/12/12	18:09:04	18:20:32	00:11:28	00:10:06	292-	33-	155-	39411
K6 (26)	21/12/12	18:21:59	18:33:23	00:11:23	00:01:26	294-	37-	151-	39543
K9 (39)	21/12/12	18:22:14	18:33:40	00:00:16	-----	275-	30-	51-	38524
T2 (40)	21/12/12	18:42:16	18:52:17	00:10:00	00:08:36	282-	19-	173-	39496
K7 (37)	21/12/12	18:56:55	19:07:57	00:11:01	00:04:38	286-	25-	53-	38524
R3 (45)	21/12/12	19:04:34	19:13:57	00:06:00	-----	182-	17-	79-	39685
K4 (24)	21/12/12	19:07:47	19:19:38	00:05:40	-----	263-	39-	51-	38674
T4 (44)	21/12/12	19:17:33	19:24:44	00:05:06	-----	267-	10-	197-	39499
K3 (33)	21/12/12	19:32:21	19:43:05	00:10:44	00:07:36	295-	23-	57-	38525
T3 (25)	21/12/12	19:50:19	20:01:29	00:11:10	00:07:13	193-	25-	71-	38479
K9 (39)	21/12/12	20:07:30	20:18:14	00:10:43	00:06:00	303-	22-	65-	38525
R2 (38)	21/12/12	20:36:31	20:44:37	00:08:05	00:18:17	171-	12-	89-	40722
K7 (37)	21/12/12	20:41:56	20:52:54	00:08:16	-----	307-	24-	73-	38525
R3 (45)	21/12/12	20:46:06	20:58:20	00:05:26	-----	235-	89-	56-	39686
K4 (24)	21/12/12	20:53:14	21:03:53	00:05:32	-----	297-	22-	58-	38675
K3 (33)	21/12/12	21:16:57	21:28:20	00:11:22	00:13:04	309-	29-	84-	38526
R1 (47)	21/12/12	21:27:47	21:39:14	00:10:54	-----	203-	33-	67-	39651
T3 (25)	21/12/12	21:33:47	21:46:34	00:07:20	-----	243-	69-	54-	38480
K9 (39)	21/12/12	21:51:40	22:03:34	00:11:54	00:05:05	309-	40-	98-	38526
R2 (38)	21/12/12	22:17:29	22:29:48	00:12:19	00:13:55	227-	71-	58-	40723
K7 (37)	21/12/12	22:25:49	22:38:03	00:08:15	-----	308-	56-	111-	38526
R3 (45)	21/12/12	22:30:31	22:41:46	00:03:42	-----	276-	29-	51-	39687
K4 (24)	21/12/12	22:37:54	22:49:14	00:07:28	-----	310-	30-	86-	38676
K3 (33)	21/12/12	23:00:41	23:13:04	00:12:22	00:11:27	304-	88-	125-	38527

Satellite	Date	AOS Time	LOS Time	Duration	Interval Between	AOS Az	Max EI	LOS Az	Orbit num.
R1 (47)	21/12/12	23:11:00	23:23:13	00:10:09	-----	251-	54-	52-	39652
T3 (25)	21/12/12	23:19:40	23:31:16	00:08:02	-----	283-	27-	53-	38481
K9 (39)	21/12/12	23:35:26	23:47:31	00:12:04	00:04:10	298-	52-	142-	38527
R2 (38)	21/12/13	00:01:52	00:13:31	00:11:39	00:14:21	270-	34-	51-	40724
K7 (37)	21/12/13	00:09:51	00:21:10	00:07:38	-----	291-	31-	158-	38527
R3 (45)	21/12/13	00:15:29	00:26:04	00:04:53	-----	304-	22-	65-	39688
K4 (24)	21/12/13	00:21:42	00:34:00	00:07:55	-----	304-	87-	127-	38677
K3 (33)	21/12/13	00:45:18	00:54:57	00:09:39	00:11:18	281-	18-	177-	38528
R1 (47)	21/12/13	00:56:11	01:07:08	00:10:56	00:01:13	289-	24-	54-	39653
T3 (25)	21/12/13	01:05:37	01:17:01	00:09:53	-----	306-	25-	72-	38482
K9 (39)	21/12/13	01:21:41	01:27:07	00:05:25	00:04:40	258-	8-	209-	38528
R2 (38)	21/12/13	01:47:12	01:57:54	00:10:42	00:20:05	300-	22-	61-	40725
R3 (45)	21/12/13	01:59:20	02:11:07	00:11:46	00:01:26	309-	40-	99-	39689
K4 (24)	21/12/13	02:06:33	02:15:45	00:04:38	-----	278-	16-	181-	38678
S2 (43)	21/12/13	02:33:46	02:42:30	00:08:43	00:18:00	175-	14-	85-	39625
R1 (47)	21/12/13	02:41:05	02:52:10	00:09:40	-----	308-	25-	76-	39654
T3 (25)	21/12/13	02:50:26	03:03:06	00:10:56	-----	308-	54-	109-	38483
S3 (42)	21/12/13	03:07:54	03:18:49	00:10:55	00:04:47	195-	26-	70-	39620
R2 (38)	21/12/13	03:31:32	03:43:14	00:11:41	00:12:43	310-	35-	92-	40726
S4 (29)	21/12/13	03:40:11	03:52:02	00:08:48	-----	212-	43-	63-	39537
S1 (46)	21/12/13	03:41:39	03:53:36	00:01:33	-----	214-	46-	62-	39538
R3 (45)	21/12/13	03:42:50	03:54:45	00:01:09	-----	298-	51-	143-	39690
S2 (43)	21/12/13	04:15:06	04:27:27	00:12:20	00:20:20	230-	79-	57-	39626
R1 (47)	21/12/13	04:24:55	04:37:14	00:09:47	-----	307-	64-	115-	39655
T3 (25)	21/12/13	04:35:16	04:47:14	00:09:59	-----	293-	35-	154-	38484
S3 (42)	21/12/13	04:50:39	05:02:58	00:12:19	00:03:25	245-	64-	53-	39621
R2 (38)	21/12/13	05:15:16	05:27:32	00:12:16	00:12:17	301-	67-	135-	40727
S4 (29)	21/12/13	05:23:51	05:35:53	00:08:20	-----	258-	44-	51-	39538
S1 (46)	21/12/13	05:25:25	05:37:25	00:01:31	-----	260-	43-	51-	39539
R3 (45)	21/12/13	05:28:54	05:33:58	00:03:02	-----	256-	7-	211-	39691
S2 (43)	21/12/13	05:59:37	06:11:10	00:11:33	00:25:39	272-	32-	51-	39627
R1 (47)	21/12/13	06:09:04	06:20:02	00:08:52	-----	289-	26-	163-	39656
S3 (42)	21/12/13	06:35:43	06:46:48	00:11:04	00:15:40	285-	26-	53-	39622
R2 (38)	21/12/13	07:00:37	07:08:17	00:07:40	00:13:49	270-	11-	194-	40728
S4 (29)	21/12/13	07:09:09	07:19:57	00:10:47	00:00:51	293-	23-	56-	39539
S1 (46)	21/12/13	07:10:44	07:21:31	00:01:34	-----	294-	23-	57-	39540
S2 (43)	21/12/13	07:44:55	07:55:38	00:10:42	00:23:24	302-	22-	63-	39628
S3 (42)	21/12/13	08:20:46	08:31:42	00:10:56	00:25:07	307-	24-	72-	39623
T1 (28)	21/12/13	08:32:29	08:41:14	00:08:45	00:00:47	176-	14-	85-	39420
K6 (26)	21/12/13	08:40:21	08:47:20	00:06:05	-----	164-	10-	95-	39552
S4 (29)	21/12/13	08:53:51	09:05:08	00:11:17	00:06:31	309-	28-	82-	39540
S1 (46)	21/12/13	08:55:23	09:06:44	00:01:35	-----	309-	29-	83-	39541
T2 (40)	21/12/13	09:03:52	09:14:41	00:07:56	-----	193-	25-	71-	39505
S2 (43)	21/12/13	09:29:10	09:40:59	00:11:48	00:14:29	310-	37-	95-	39629
T4 (44)	21/12/13	09:37:19	09:49:11	00:08:12	-----	211-	43-	63-	39508
S3 (42)	21/12/13	10:04:41	10:16:54	00:12:13	00:15:29	308-	54-	109-	39624
T1 (28)	21/12/13	10:13:50	10:26:10	00:09:16	-----	230-	79-	57-	39421
K6 (26)	21/12/13	10:20:09	10:32:10	00:05:59	-----	223-	63-	59-	39553
S4 (29)	21/12/13	10:37:36	10:50:00	00:12:23	00:05:26	305-	80-	122-	39541
S1 (46)	21/12/13	10:39:08	10:51:31	00:01:31	-----	305-	84-	123-	39542

Satellite	Date	AOS Time	LOS Time	Duration	Interval Between	AOS Az	Max EI	LOS Az	Orbit num.
T2 (40)	21/12/13	10:46:34	10:58:52	00:07:21	-----	245-	66-	54-	39506
S2 (43)	21/12/13	11:12:55	11:25:08	00:12:12	00:14:02	300-	60-	138-	39630
T4 (44)	21/12/13	11:20:59	11:33:02	00:07:54	-----	258-	45-	51-	39509
S3 (42)	21/12/13	11:48:39	12:00:07	00:11:27	00:15:37	292-	33-	155-	39625
T1 (28)	21/12/13	11:58:22	12:09:54	00:09:46	-----	273-	32-	51-	39422
K6 (26)	21/12/13	12:03:41	12:15:11	00:05:17	-----	267-	35-	50-	39554
S4 (29)	21/12/13	12:22:03	12:32:11	00:10:08	00:06:51	283-	20-	172-	39542
S1 (46)	21/12/13	12:23:40	12:33:32	00:01:21	-----	282-	19-	175-	39543
T2 (40)	21/12/13	12:31:36	12:42:41	00:09:08	-----	284-	26-	52-	39507
S2 (43)	21/12/13	12:58:36	13:05:26	00:06:49	00:15:55	265-	10-	200-	39631
T4 (44)	21/12/13	13:06:17	13:17:05	00:10:48	00:00:50	293-	23-	56-	39510
T1 (28)	21/12/13	13:43:40	13:54:22	00:10:41	00:26:35	302-	22-	63-	39423
K6 (26)	21/12/13	13:48:19	13:58:44	00:04:22	-----	299-	21-	59-	39555
K9 (39)	21/12/13	14:00:57	14:06:26	00:05:28	00:02:12	156-	8-	99-	38536
T2 (40)	21/12/13	14:16:40	14:27:33	00:10:53	00:10:13	307-	24-	72-	39508
K7 (37)	21/12/13	14:32:56	14:42:08	00:09:11	00:05:23	179-	16-	82-	38536
T4 (44)	21/12/13	14:51:00	15:02:16	00:11:16	00:08:51	309-	28-	82-	39511
K3 (33)	21/12/13	15:06:38	15:17:41	00:11:03	00:04:21	197-	28-	70-	38537
T1 (28)	21/12/13	15:27:55	15:39:43	00:11:47	00:10:13	310-	37-	95-	39424
K6 (26)	21/12/13	15:32:02	15:43:20	00:03:37	-----	310-	31-	88-	39556
K9 (39)	21/12/13	15:40:34	15:52:40	00:09:19	-----	218-	52-	62-	38537
T2 (40)	21/12/13	16:00:36	16:12:46	00:12:10	00:07:55	308-	52-	108-	39509
K7 (37)	21/12/13	16:14:32	16:26:55	00:12:22	00:01:45	232-	85-	57-	38537
K4 (24)	21/12/13	16:28:26	16:39:44	00:11:17	00:01:31	200-	31-	68-	38687
T4 (44)	21/12/13	16:34:44	16:47:07	00:07:23	-----	305-	79-	122-	39512
K3 (33)	21/12/13	16:49:30	17:01:48	00:12:18	00:02:22	247-	62-	53-	38538
T1 (28)	21/12/13	17:11:40	17:23:51	00:12:11	00:09:51	300-	59-	138-	39425
K6 (26)	21/12/13	17:15:03	17:27:07	00:03:15	-----	303-	78-	130-	39557
K9 (39)	21/12/13	17:24:32	17:36:26	00:09:19	-----	262-	40-	51-	38538
T2 (40)	21/12/13	17:44:33	17:56:04	00:11:30	00:08:06	293-	34-	154-	39510
K7 (37)	21/12/13	17:59:09	18:10:38	00:11:28	00:03:05	274-	31-	51-	38538
R3 (45)	21/12/13	18:06:12	18:11:04	00:00:25	-----	150-	7-	102-	39699
K4 (24)	21/12/13	18:11:37	18:23:51	00:12:14	00:00:32	249-	57-	53-	38688
T4 (44)	21/12/13	18:19:11	18:29:19	00:05:28	-----	283-	20-	172-	39513
K3 (33)	21/12/13	18:34:36	18:45:39	00:11:02	00:05:17	286-	25-	53-	38539
T1 (28)	21/12/13	18:57:23	19:04:07	00:06:44	00:11:44	265-	9-	200-	39426
K6 (26)	21/12/13	18:59:21	19:07:42	00:03:34	-----	274-	13-	187-	39558
T3 (25)	21/12/13	19:05:29	19:15:20	00:07:37	-----	182-	17-	79-	38493
K9 (39)	21/12/13	19:09:52	19:20:36	00:05:16	-----	296-	22-	58-	38539
K7 (37)	21/12/13	19:44:26	19:55:10	00:10:43	00:23:50	303-	22-	64-	38539
R3 (45)	21/12/13	19:45:19	19:57:13	00:02:03	-----	217-	50-	62-	39700
K4 (24)	21/12/13	19:56:54	20:07:48	00:10:35	-----	287-	24-	53-	38689
K3 (33)	21/12/13	20:19:37	20:30:34	00:10:56	00:11:49	307-	24-	73-	38540
R1 (47)	21/12/13	20:31:37	20:41:29	00:09:51	00:01:03	185-	18-	77-	39665
T3 (25)	21/12/13	20:48:03	21:00:53	00:12:49	00:06:34	233-	88-	56-	38494
K9 (39)	21/12/13	20:54:26	21:05:52	00:04:59	-----	309-	30-	86-	38540
R2 (38)	21/12/13	21:20:39	21:32:26	00:11:46	00:14:47	209-	40-	64-	40737
K7 (37)	21/12/13	21:28:38	21:40:30	00:08:04	-----	309-	39-	97-	38540
R3 (45)	21/12/13	21:28:57	21:40:43	00:00:12	-----	262-	40-	51-	39701
K4 (24)	21/12/13	21:41:58	21:52:53	00:10:55	00:01:14	308-	25-	75-	38690

Satellite	Date	AOS Time	LOS Time	Duration	Interval Between	AOS Az	Max EI	LOS Az	Orbit num.
K3 (33)	21/12/13	22:03:31	22:15:45	00:12:13	00:10:38	308-	56-	110-	38541
R1 (47)	21/12/13	22:13:37	22:26:02	00:10:16	-----	236-	85-	56-	39666
T3 (25)	21/12/13	22:33:35	22:45:29	00:11:54	00:07:33	275-	31-	52-	38495
K9 (39)	21/12/13	22:38:10	22:50:32	00:05:02	-----	304-	88-	126-	38541
R2 (38)	21/12/13	23:04:12	23:16:19	00:12:06	00:13:40	256-	47-	52-	40738
K7 (37)	21/12/13	23:12:24	23:24:32	00:08:13	-----	299-	55-	141-	38541
R3 (45)	21/12/13	23:14:00	23:24:34	00:00:01	-----	296-	22-	57-	39702
K4 (24)	21/12/13	23:25:55	23:38:06	00:12:11	00:01:20	307-	60-	113-	38691
K3 (33)	21/12/13	23:47:32	23:58:54	00:11:21	00:09:26	291-	31-	157-	38542
R1 (47)	21/12/13	23:58:24	00:09:46	00:10:52	-----	277-	29-	51-	39667
T3 (25)	21/12/14	00:19:43	00:30:58	00:11:14	00:09:57	302-	24-	66-	38496
K9 (39)	21/12/14	00:22:52	00:32:16	00:01:17	-----	279-	16-	180-	38542
R2 (38)	21/12/14	00:49:30	01:00:19	00:10:49	00:17:13	292-	23-	55-	40739
R3 (45)	21/12/14	00:58:17	01:09:32	00:09:12	-----	310-	29-	84-	39703
K7 (37)	21/12/14	00:58:25	01:04:26	00:05:05	-----	261-	8-	205-	38542
K4 (24)	21/12/14	01:10:06	01:21:07	00:11:01	00:05:39	290-	28-	161-	38692
R1 (47)	21/12/14	01:43:38	01:54:24	00:10:46	00:22:31	304-	23-	66-	39668
T3 (25)	21/12/14	02:04:45	02:17:10	00:12:24	00:10:20	309-	42-	100-	38497
S3 (42)	21/12/14	02:12:01	02:20:49	00:03:38	-----	176-	14-	84-	39634
R2 (38)	21/12/14	02:34:15	02:45:28	00:11:13	00:13:26	309-	27-	80-	40740
R3 (45)	21/12/14	02:41:44	02:53:58	00:08:29	-----	304-	89-	125-	39704
S4 (29)	21/12/14	02:43:46	02:54:29	00:00:31	-----	192-	24-	72-	39551
S1 (46)	21/12/14	02:45:09	02:56:03	00:01:34	-----	195-	26-	70-	39552
S2 (43)	21/12/14	03:18:12	03:30:07	00:11:54	00:22:08	213-	45-	63-	39640
R1 (47)	21/12/14	03:27:44	03:39:43	00:09:36	-----	309-	42-	101-	39669
T3 (25)	21/12/14	03:49:25	04:01:55	00:12:30	00:09:41	298-	51-	143-	38498
S3 (42)	21/12/14	03:53:24	04:05:45	00:03:49	-----	230-	80-	57-	39635
R2 (38)	21/12/14	04:18:01	04:30:23	00:12:21	00:12:15	306-	75-	120-	40741
R3 (45)	21/12/14	04:26:05	04:35:31	00:05:08	-----	280-	17-	178-	39705
S4 (29)	21/12/14	04:26:23	04:38:43	00:03:11	-----	244-	68-	54-	39552
S1 (46)	21/12/14	04:27:54	04:40:13	00:01:30	-----	245-	64-	53-	39553
S2 (43)	21/12/14	05:01:56	05:13:56	00:12:00	00:21:42	259-	43-	51-	39641
R1 (47)	21/12/14	05:11:33	05:23:32	00:09:35	-----	297-	47-	145-	39670
T3 (25)	21/12/14	05:36:36	05:42:14	00:05:37	00:13:04	258-	8-	209-	38499
S3 (42)	21/12/14	05:37:56	05:49:29	00:07:15	-----	273-	32-	51-	39636
R2 (38)	21/12/14	06:02:22	06:12:44	00:10:21	00:12:53	285-	22-	170-	40742
S4 (29)	21/12/14	06:11:23	06:22:31	00:09:46	-----	283-	26-	52-	39553
S1 (46)	21/12/14	06:12:57	06:24:02	00:01:31	-----	285-	26-	53-	39554
S2 (43)	21/12/14	06:47:14	06:58:01	00:10:46	00:23:12	294-	23-	56-	39642
R1 (47)	21/12/14	06:58:20	07:02:29	00:04:08	00:00:19	250-	6-	218-	39671
S3 (42)	21/12/14	07:23:14	07:33:57	00:10:43	00:20:45	302-	22-	63-	39637
S4 (29)	21/12/14	07:56:28	08:07:22	00:10:53	00:22:31	306-	24-	71-	39554
S1 (46)	21/12/14	07:58:00	08:08:56	00:01:34	-----	307-	24-	72-	39555
T2 (40)	21/12/14	08:08:02	08:16:40	00:07:43	-----	175-	14-	86-	39519
S2 (43)	21/12/14	08:31:54	08:43:14	00:11:19	00:15:14	309-	28-	83-	39643
T4 (44)	21/12/14	08:40:53	08:51:36	00:08:22	-----	192-	24-	72-	39522
S3 (42)	21/12/14	09:07:29	09:19:18	00:11:49	00:15:52	310-	37-	95-	39638
K6 (26)	21/12/14	09:14:07	09:25:08	00:05:49	-----	200-	30-	68-	39567
T1 (28)	21/12/14	09:16:58	09:28:52	00:03:44	-----	213-	45-	63-	39435
S4 (29)	21/12/14	09:40:25	09:52:36	00:12:10	00:11:33	308-	51-	107-	39555

Satellite	Date	AOS Time	LOS Time	Duration	Interval Between	AOS Az	Max EI	LOS Az	Orbit num.
S1 (46)	21/12/14	09:41:55	09:54:08	00:01:31	-----	308-	54-	109-	39556
T2 (40)	21/12/14	09:49:19	10:01:39	00:07:30	-----	229-	77-	58-	39520
S2 (43)	21/12/14	10:15:39	10:28:02	00:12:23	00:14:00	305-	82-	123-	39644
T4 (44)	21/12/14	10:23:29	10:35:50	00:07:47	-----	243-	68-	54-	39523
S3 (42)	21/12/14	10:51:14	11:03:26	00:12:12	00:15:23	300-	59-	139-	39639
K6 (26)	21/12/14	10:56:27	11:08:28	00:05:02	-----	249-	56-	52-	39568
T1 (28)	21/12/14	11:00:42	11:12:41	00:04:13	-----	259-	43-	51-	39436
S4 (29)	21/12/14	11:24:22	11:35:57	00:11:35	00:11:40	293-	36-	153-	39556
S1 (46)	21/12/14	11:25:54	11:37:22	00:01:24	-----	292-	33-	155-	39557
T2 (40)	21/12/14	11:33:49	11:45:22	00:08:00	-----	272-	32-	51-	39521
S2 (43)	21/12/14	12:00:09	12:10:08	00:09:59	00:14:46	282-	19-	174-	39645
T4 (44)	21/12/14	12:08:30	12:19:38	00:09:30	-----	283-	26-	52-	39524
S3 (42)	21/12/14	12:36:59	12:43:39	00:06:40	00:17:20	264-	9-	201-	39640
K6 (26)	21/12/14	12:40:54	12:51:37	00:07:58	-----	288-	24-	53-	39569
T1 (28)	21/12/14	12:46:01	12:56:46	00:05:09	-----	294-	23-	56-	39437
T2 (40)	21/12/14	13:19:08	13:29:49	00:10:40	00:22:21	302-	22-	63-	39522
K7 (37)	21/12/14	13:38:18	13:43:07	00:04:49	00:08:28	149-	7-	102-	38550
T4 (44)	21/12/14	13:53:35	14:04:29	00:10:53	00:10:28	306-	24-	71-	39525
K3 (33)	21/12/14	14:10:42	14:19:48	00:09:05	00:06:13	178-	15-	82-	38551
K6 (26)	21/12/14	14:25:09	14:35:53	00:10:43	00:05:21	308-	24-	74-	39570
T1 (28)	21/12/14	14:30:41	14:42:00	00:06:06	-----	309-	28-	83-	39438
K9 (39)	21/12/14	14:44:00	14:55:12	00:11:12	00:02:00	199-	29-	69-	38551
T2 (40)	21/12/14	15:03:24	15:15:10	00:11:46	00:08:11	310-	36-	95-	39523
K7 (37)	21/12/14	15:17:35	15:29:38	00:12:02	00:02:25	216-	49-	62-	38551
K4 (24)	21/12/14	15:33:41	15:43:22	00:09:40	00:04:03	183-	17-	78-	38701
T4 (44)	21/12/14	15:37:32	15:49:43	00:06:20	-----	308-	51-	107-	39526
K3 (33)	21/12/14	15:52:15	16:04:37	00:12:22	00:02:32	232-	83-	57-	38552
K6 (26)	21/12/14	16:08:18	16:20:18	00:12:00	00:03:41	308-	57-	111-	39571
T1 (28)	21/12/14	16:14:25	16:26:48	00:06:29	-----	305-	83-	123-	39439
K9 (39)	21/12/14	16:27:00	16:39:16	00:12:16	00:00:11	248-	59-	53-	38552
T2 (40)	21/12/14	16:47:08	16:59:20	00:12:12	00:07:52	300-	61-	138-	39524
K7 (37)	21/12/14	17:01:28	17:13:25	00:11:57	00:02:07	261-	41-	51-	38552
K4 (24)	21/12/14	17:15:41	17:28:04	00:12:23	00:02:15	235-	88-	56-	38702
T4 (44)	21/12/14	17:21:28	17:33:06	00:05:02	-----	293-	36-	153-	39527
K3 (33)	21/12/14	17:36:51	17:48:20	00:11:29	00:03:44	274-	31-	51-	38553
K6 (26)	21/12/14	17:51:40	18:02:38	00:10:58	00:03:19	290-	29-	159-	39572
T1 (28)	21/12/14	17:58:56	18:08:53	00:06:15	-----	282-	19-	174-	39440
K9 (39)	21/12/14	18:12:08	18:23:08	00:11:00	00:03:14	287-	25-	53-	38553
T3 (25)	21/12/14	18:21:07	18:28:47	00:05:39	-----	166-	11-	92-	38507
T2 (40)	21/12/14	18:32:46	18:39:43	00:06:57	00:03:58	266-	10-	198-	39525
R3 (45)	21/12/14	18:45:04	18:55:52	00:10:48	00:05:20	195-	26-	70-	39714
K7 (37)	21/12/14	18:46:48	18:57:33	00:01:40	-----	295-	23-	57-	38553
K4 (24)	21/12/14	19:00:32	19:11:52	00:11:20	00:02:58	276-	29-	51-	38703
K3 (33)	21/12/14	19:22:08	19:32:51	00:10:42	00:10:16	302-	22-	64-	38554
R1 (47)	21/12/14	19:36:26	19:42:57	00:06:30	00:03:34	160-	9-	98-	39679
K9 (39)	21/12/14	19:57:06	20:08:06	00:10:59	00:14:09	307-	25-	74-	38554
T3 (25)	21/12/14	20:02:29	20:15:09	00:07:03	-----	223-	63-	60-	38508
R2 (38)	21/12/14	20:24:17	20:34:49	00:10:31	00:09:08	190-	23-	73-	40751
R3 (45)	21/12/14	20:27:35	20:39:44	00:04:54	-----	246-	63-	53-	39715
K7 (37)	21/12/14	20:31:25	20:42:48	00:03:04	-----	309-	29-	84-	38554

Satellite	Date	AOS Time	LOS Time	Duration	Interval Between	AOS Az	Max El	LOS Az	Orbit num.
K4 (24)	21/12/14	20:45:54	20:56:33	00:10:39	00:03:05	304-	22-	65-	38704
K3 (33)	21/12/14	21:06:21	21:18:12	00:11:50	00:09:47	309-	38-	97-	38555
R1 (47)	21/12/14	21:16:34	21:28:46	00:10:33	-----	221-	58-	60-	39680
K9 (39)	21/12/14	21:40:59	21:53:14	00:12:15	00:12:12	307-	58-	112-	38555
T3 (25)	21/12/14	21:47:33	21:59:46	00:06:31	-----	266-	37-	51-	38509
R2 (38)	21/12/14	22:06:45	22:19:07	00:12:22	00:06:58	242-	72-	54-	40752
R3 (45)	21/12/14	22:12:22	22:23:16	00:04:08	-----	285-	25-	52-	39716
K7 (37)	21/12/14	22:15:09	22:27:31	00:04:15	-----	304-	88-	125-	38555
K4 (24)	21/12/14	22:30:08	22:41:58	00:11:50	00:02:36	309-	41-	99-	38705
K3 (33)	21/12/14	22:50:07	23:02:15	00:12:08	00:08:08	299-	56-	140-	38556
R1 (47)	21/12/14	23:00:40	23:12:31	00:10:15	-----	265-	38-	51-	39681
K9 (39)	21/12/14	23:25:02	23:36:16	00:11:13	00:12:31	290-	30-	159-	38556
T3 (25)	21/12/14	23:33:45	23:44:57	00:08:41	-----	298-	23-	61-	38510
R2 (38)	21/12/14	23:51:42	00:02:54	00:11:11	00:06:44	282-	27-	52-	40753
R3 (45)	21/12/14	23:57:07	00:07:53	00:04:58	-----	307-	24-	72-	39717
K7 (37)	21/12/14	23:59:46	00:09:24	00:01:31	-----	280-	17-	178-	38556
K4 (24)	21/12/15	00:14:01	00:25:58	00:11:57	00:04:36	297-	49-	144-	38706
K3 (33)	21/12/15	00:36:03	00:42:15	00:06:11	00:10:04	262-	9-	204-	38557
R1 (47)	21/12/15	00:46:01	00:56:45	00:10:43	00:03:46	298-	22-	59-	39682
T3 (25)	21/12/15	01:19:03	01:31:09	00:12:06	00:22:18	309-	34-	91-	38511
R2 (38)	21/12/15	01:36:50	01:47:41	00:10:50	00:05:40	306-	23-	70-	40754
R3 (45)	21/12/15	01:40:44	01:52:48	00:05:06	-----	308-	53-	109-	39718
S4 (29)	21/12/15	01:48:00	01:56:26	00:03:38	-----	173-	13-	87-	39565
S1 (46)	21/12/15	01:49:15	01:58:02	00:01:35	-----	176-	14-	84-	39566
K4 (24)	21/12/15	02:00:40	02:05:16	00:04:36	00:02:38	253-	7-	215-	38707
S2 (43)	21/12/15	02:21:43	02:32:33	00:10:50	00:16:26	194-	25-	71-	39654
R1 (47)	21/12/15	02:30:31	02:42:02	00:09:28	-----	310-	31-	88-	39683
S3 (42)	21/12/15	02:56:29	03:08:25	00:11:56	00:14:27	213-	46-	63-	39649
T3 (25)	21/12/15	03:03:39	03:16:26	00:08:00	-----	302-	73-	133-	38512
R2 (38)	21/12/15	03:20:49	03:32:57	00:12:07	00:04:23	308-	48-	105-	40755
R3 (45)	21/12/15	03:24:25	03:35:44	00:02:46	-----	292-	33-	155-	39719
S4 (29)	21/12/15	03:29:10	03:41:30	00:05:46	-----	228-	75-	58-	39566
S1 (46)	21/12/15	03:30:38	03:43:00	00:01:29	-----	230-	80-	57-	39567
S2 (43)	21/12/15	04:04:25	04:16:45	00:12:19	00:21:26	245-	66-	54-	39655
R1 (47)	21/12/15	04:14:14	04:26:36	00:09:51	-----	303-	81-	129-	39684
S3 (42)	21/12/15	04:40:15	04:52:15	00:12:00	00:13:38	259-	43-	51-	39650
T3 (25)	21/12/15	04:49:37	04:58:22	00:06:06	-----	274-	13-	188-	38513
R2 (38)	21/12/15	05:04:43	05:16:27	00:11:43	00:06:21	294-	38-	151-	40756
S4 (29)	21/12/15	05:13:38	05:25:13	00:08:46	-----	271-	33-	51-	39567
S1 (46)	21/12/15	05:15:10	05:26:42	00:01:28	-----	273-	32-	51-	39568
S2 (43)	21/12/15	05:49:28	06:00:34	00:11:05	00:22:45	284-	26-	53-	39656
R1 (47)	21/12/15	05:59:07	06:08:03	00:07:29	-----	276-	15-	184-	39685
S3 (42)	21/12/15	06:25:34	06:36:20	00:10:46	00:17:30	294-	23-	57-	39651
S4 (29)	21/12/15	06:58:57	07:09:39	00:10:42	00:22:36	301-	22-	62-	39568
S1 (46)	21/12/15	07:00:28	07:11:11	00:01:31	-----	302-	22-	63-	39569
S2 (43)	21/12/15	07:34:31	07:45:26	00:10:54	00:23:20	307-	24-	72-	39657
T4 (44)	21/12/15	07:45:07	07:53:32	00:08:05	-----	173-	13-	87-	39536
K6 (26)	21/12/15	08:08:58	08:17:29	00:08:30	00:15:26	175-	14-	85-	39581
S3 (42)	21/12/15	08:10:13	08:21:33	00:04:04	-----	309-	28-	83-	39652
T1 (28)	21/12/15	08:20:30	08:31:21	00:09:47	-----	194-	26-	71-	39449

Satellite	Date	AOS Time	LOS Time	Duration	Interval Between	AOS Az	Max El	LOS Az	Orbit num.
S4 (29)	21/12/15	08:43:14	08:55:00	00:11:45	00:11:53	310-	36-	94-	39569
S1 (46)	21/12/15	08:44:42	08:56:31	00:01:31	-----	310-	37-	95-	39570
T2 (40)	21/12/15	08:52:26	09:04:19	00:07:47	-----	212-	44-	63-	39534
S2 (43)	21/12/15	09:18:27	09:30:39	00:12:12	00:14:08	308-	53-	108-	39658
T4 (44)	21/12/15	09:26:16	09:38:36	00:07:57	-----	228-	75-	58-	39537
K6 (26)	21/12/15	09:49:38	10:01:44	00:12:06	00:11:01	230-	79-	57-	39582
S3 (42)	21/12/15	09:53:58	10:06:21	00:04:37	-----	305-	84-	123-	39653
T1 (28)	21/12/15	10:03:13	10:15:31	00:09:10	-----	245-	65-	54-	39450
S4 (29)	21/12/15	10:26:58	10:39:13	00:12:15	00:11:26	300-	63-	137-	39570
S1 (46)	21/12/15	10:28:27	10:40:40	00:01:26	-----	300-	59-	138-	39571
T2 (40)	21/12/15	10:36:08	10:48:09	00:07:28	-----	259-	44-	51-	39535
S2 (43)	21/12/15	11:02:25	11:13:56	00:11:31	00:14:16	293-	34-	154-	39659
T4 (44)	21/12/15	11:10:43	11:22:19	00:08:23	-----	271-	33-	51-	39538
K6 (26)	21/12/15	11:33:26	11:44:44	00:11:17	00:11:06	273-	31-	50-	39583
S3 (42)	21/12/15	11:38:29	11:48:24	00:03:39	-----	282-	19-	174-	39654
T1 (28)	21/12/15	11:48:16	11:59:20	00:10:56	-----	284-	26-	53-	39451
S4 (29)	21/12/15	12:12:30	12:19:45	00:07:14	00:13:09	267-	10-	197-	39571
S1 (46)	21/12/15	12:14:11	12:20:54	00:01:09	-----	265-	9-	201-	39572
T2 (40)	21/12/15	12:21:27	12:32:12	00:10:45	00:00:32	294-	23-	56-	39536
T4 (44)	21/12/15	12:56:02	13:06:45	00:10:42	00:23:49	301-	22-	62-	39539
K3 (33)	21/12/15	13:16:10	13:20:42	00:04:32	00:09:25	147-	7-	103-	38565
K6 (26)	21/12/15	13:18:02	13:28:28	00:07:45	-----	302-	22-	62-	39584
T1 (28)	21/12/15	13:33:20	13:44:13	00:10:53	00:04:51	307-	24-	72-	39452
K9 (39)	21/12/15	13:47:59	13:57:23	00:09:24	00:03:45	181-	16-	80-	38565
T2 (40)	21/12/15	14:06:08	14:17:25	00:11:16	00:08:44	309-	28-	82-	39537
K7 (37)	21/12/15	14:21:04	14:32:08	00:11:04	00:03:39	197-	28-	69-	38565
K4 (24)	21/12/15	14:39:54	14:46:13	00:06:19	00:07:45	159-	9-	99-	38715
T4 (44)	21/12/15	14:40:20	14:52:05	00:05:51	-----	310-	36-	94-	39540
K3 (33)	21/12/15	14:55:19	15:07:21	00:12:01	00:03:14	216-	48-	62-	38566
K6 (26)	21/12/15	15:01:35	15:13:06	00:05:45	-----	310-	35-	94-	39585
T1 (28)	21/12/15	15:17:15	15:29:26	00:12:11	00:04:08	308-	53-	109-	39453
K9 (39)	21/12/15	15:29:41	15:42:04	00:12:23	00:00:15	233-	88-	56-	38566
T2 (40)	21/12/15	15:49:52	16:02:14	00:12:22	00:07:47	305-	81-	122-	39538
K7 (37)	21/12/15	16:03:57	16:16:15	00:12:18	00:01:42	247-	61-	53-	38566
K4 (24)	21/12/15	16:20:01	16:32:12	00:12:11	00:03:46	220-	56-	61-	38716
T4 (44)	21/12/15	16:24:04	16:36:19	00:04:06	-----	300-	63-	136-	39541
K3 (33)	21/12/15	16:39:10	16:51:08	00:11:57	00:02:51	261-	41-	51-	38567
K6 (26)	21/12/15	16:44:37	16:56:35	00:05:26	-----	300-	62-	137-	39586
T1 (28)	21/12/15	17:01:13	17:12:42	00:11:29	00:04:37	293-	34-	155-	39454
K9 (39)	21/12/15	17:14:21	17:25:48	00:11:26	00:01:39	275-	30-	51-	38567
T2 (40)	21/12/15	17:34:20	17:44:23	00:10:03	00:08:32	283-	19-	173-	39539
R3 (45)	21/12/15	17:45:33	17:53:59	00:08:25	00:01:09	174-	13-	86-	39728
K7 (37)	21/12/15	17:49:03	18:00:06	00:06:07	-----	286-	25-	53-	38567
K4 (24)	21/12/15	18:04:12	18:16:03	00:11:50	00:04:06	264-	38-	51-	38717
T4 (44)	21/12/15	18:09:34	18:16:52	00:00:49	-----	268-	10-	197-	39542
K3 (33)	21/12/15	18:24:30	18:35:15	00:10:45	00:07:38	295-	23-	57-	38568
K6 (26)	21/12/15	18:29:32	18:36:18	00:01:02	-----	266-	10-	199-	39587
K9 (39)	21/12/15	18:59:38	19:10:22	00:10:43	00:23:20	303-	22-	65-	38568
T3 (25)	21/12/15	19:17:05	19:29:21	00:12:16	00:06:43	211-	43-	63-	38522
R3 (45)	21/12/15	19:26:31	19:38:42	00:09:21	-----	229-	77-	58-	39729

Satellite	Date	AOS Time	LOS Time	Duration	Interval Between	AOS Az	Max EI	LOS Az	Orbit num.
R2 (38)	21/12/15	19:28:38	19:36:39	00:02:03	-----	170-	12-	89-	40765
K7 (37)	21/12/15	19:34:04	19:45:02	00:08:22	-----	307-	24-	73-	38568
K4 (24)	21/12/15	19:49:41	20:00:20	00:10:38	00:04:39	297-	22-	58-	38718
K3 (33)	21/12/15	20:09:08	20:20:30	00:11:21	00:08:48	309-	29-	84-	38569
R1 (47)	21/12/15	20:19:54	20:31:19	00:10:49	-----	202-	32-	67-	39694
K9 (39)	21/12/15	20:43:48	20:55:42	00:11:53	00:12:28	309-	40-	98-	38569
T3 (25)	21/12/15	21:01:34	21:14:04	00:12:30	00:05:52	257-	46-	52-	38523
R2 (38)	21/12/15	21:09:34	21:21:53	00:07:48	-----	226-	70-	59-	40766
R3 (45)	21/12/15	21:10:43	21:22:08	00:00:15	-----	272-	32-	51-	39730
K7 (37)	21/12/15	21:17:58	21:30:12	00:08:03	-----	308-	56-	110-	38569
K4 (24)	21/12/15	21:34:18	21:45:42	00:11:24	00:04:05	310-	31-	87-	38719
K3 (33)	21/12/15	21:52:52	22:05:15	00:12:22	00:07:09	304-	87-	125-	38570
R1 (47)	21/12/15	22:03:05	22:15:19	00:10:04	-----	251-	55-	52-	39695
K9 (39)	21/12/15	22:27:35	22:39:40	00:12:05	00:12:15	298-	52-	142-	38570
T3 (25)	21/12/15	22:47:44	22:59:01	00:11:17	00:08:03	292-	24-	57-	38524
R2 (38)	21/12/15	22:53:56	23:05:36	00:06:34	-----	269-	34-	51-	40767
R3 (45)	21/12/15	22:55:45	23:06:17	00:00:40	-----	302-	22-	62-	39731
K7 (37)	21/12/15	23:01:59	23:13:20	00:07:03	-----	291-	31-	157-	38570
K4 (24)	21/12/15	23:18:07	23:30:23	00:12:16	00:04:47	303-	83-	129-	38720
K3 (33)	21/12/15	23:37:28	23:47:10	00:09:42	00:07:04	281-	18-	177-	38571
R1 (47)	21/12/15	23:48:16	23:59:14	00:10:57	00:01:06	288-	24-	54-	39696
K9 (39)	21/12/16	00:13:46	00:19:20	00:05:33	00:14:32	259-	8-	208-	38571
T3 (25)	21/12/16	00:33:19	00:45:06	00:11:46	00:13:58	308-	29-	83-	38525
R2 (38)	21/12/16	00:39:16	00:49:58	00:04:52	-----	300-	22-	61-	40768
R3 (45)	21/12/16	00:39:44	00:51:20	00:01:22	-----	310-	36-	94-	39732
K4 (24)	21/12/16	01:03:04	01:12:00	00:08:55	00:11:43	277-	15-	184-	38721
S2 (43)	21/12/16	01:25:53	01:34:33	00:08:39	00:13:53	175-	14-	85-	39668
R1 (47)	21/12/16	01:33:11	01:44:16	00:09:43	-----	308-	25-	76-	39697
S3 (42)	21/12/16	02:00:00	02:10:53	00:10:53	00:15:44	194-	26-	71-	39663
T3 (25)	21/12/16	02:17:57	02:30:47	00:12:50	00:07:03	305-	82-	122-	38526
R3 (45)	21/12/16	02:23:11	02:35:16	00:04:28	-----	300-	62-	137-	39733
R2 (38)	21/12/16	02:23:37	02:35:18	00:00:02	-----	310-	34-	92-	40769
S4 (29)	21/12/16	02:32:20	02:44:10	00:08:51	-----	211-	43-	63-	39580
S1 (46)	21/12/16	02:33:43	02:45:39	00:01:28	-----	213-	46-	63-	39581
S2 (43)	21/12/16	03:07:11	03:19:31	00:12:20	00:21:32	229-	78-	58-	39669
R1 (47)	21/12/16	03:17:01	03:29:20	00:09:49	-----	307-	63-	114-	39698
S3 (42)	21/12/16	03:42:44	03:55:03	00:12:19	00:13:24	245-	65-	54-	39664
T3 (25)	21/12/16	04:03:16	04:13:47	00:10:30	00:08:12	284-	20-	172-	38527
R2 (38)	21/12/16	04:07:20	04:19:37	00:05:50	-----	301-	68-	135-	40770
R3 (45)	21/12/16	04:08:28	04:15:27	00:04:01	-----	266-	10-	198-	39734
S4 (29)	21/12/16	04:15:59	04:28:01	00:12:02	00:00:31	258-	45-	51-	39581
S1 (46)	21/12/16	04:17:28	04:29:28	00:01:26	-----	259-	43-	51-	39582
S2 (43)	21/12/16	04:51:41	05:03:14	00:11:33	00:22:12	272-	32-	51-	39670
R1 (47)	21/12/16	05:01:10	05:12:10	00:08:55	-----	289-	27-	162-	39699
S3 (42)	21/12/16	05:27:47	05:38:53	00:11:05	00:15:37	284-	26-	53-	39665
R2 (38)	21/12/16	05:52:40	06:00:25	00:07:45	00:13:46	270-	11-	193-	40771
S4 (29)	21/12/16	06:01:17	06:12:04	00:10:47	00:00:51	293-	23-	56-	39582
S1 (46)	21/12/16	06:02:47	06:13:33	00:01:29	-----	294-	23-	57-	39583
S2 (43)	21/12/16	06:37:00	06:47:42	00:10:42	00:23:26	302-	22-	63-	39671
S3 (42)	21/12/16	07:12:51	07:23:46	00:10:55	00:25:08	307-	24-	72-	39666

Satellite	Date	AOS Time	LOS Time	Duration	Interval Between	AOS Az	Max El	LOS Az	Orbit num.
T1 (28)	21/12/16	07:24:40	07:33:22	00:08:42	00:00:54	175-	14-	85-	39463
S4 (29)	21/12/16	07:45:59	07:57:16	00:11:16	00:12:36	309-	28-	81-	39583
S1 (46)	21/12/16	07:47:26	07:58:46	00:01:30	-----	309-	28-	83-	39584
T2 (40)	21/12/16	07:55:59	08:06:45	00:07:58	-----	193-	25-	71-	39548
S2 (43)	21/12/16	08:21:15	08:33:02	00:11:47	00:14:29	310-	37-	95-	39672
T4 (44)	21/12/16	08:29:24	08:41:15	00:08:12	-----	211-	43-	64-	39551
K6 (26)	21/12/16	08:43:21	08:54:48	00:11:26	00:02:06	208-	38-	65-	39596
S3 (42)	21/12/16	08:56:46	09:08:59	00:12:12	00:01:57	308-	53-	109-	39667
T1 (28)	21/12/16	09:06:00	09:18:20	00:09:21	-----	230-	78-	57-	39464
S4 (29)	21/12/16	09:29:44	09:42:07	00:12:23	00:11:24	305-	79-	121-	39584
S1 (46)	21/12/16	09:31:11	09:43:34	00:01:26	-----	305-	83-	123-	39585
T2 (40)	21/12/16	09:38:39	09:50:57	00:07:22	-----	244-	67-	54-	39549
S2 (43)	21/12/16	10:05:00	10:17:13	00:12:13	00:14:02	300-	60-	138-	39673
T4 (44)	21/12/16	10:13:02	10:25:06	00:07:53	-----	257-	45-	52-	39552
K6 (26)	21/12/16	10:26:08	10:38:00	00:11:51	00:01:01	256-	47-	51-	39597
S3 (42)	21/12/16	10:40:44	10:52:15	00:11:30	00:02:44	292-	34-	155-	39668
T1 (28)	21/12/16	10:50:31	11:02:03	00:09:47	-----	272-	32-	51-	39465
S4 (29)	21/12/16	11:14:10	11:24:21	00:10:10	00:12:07	284-	20-	172-	39585
S1 (46)	21/12/16	11:15:41	11:25:37	00:01:16	-----	282-	19-	174-	39586
T2 (40)	21/12/16	11:23:40	11:34:45	00:09:08	-----	284-	26-	52-	39550
S2 (43)	21/12/16	11:50:38	11:57:34	00:06:55	00:15:52	266-	10-	199-	39674
T4 (44)	21/12/16	11:58:20	12:09:09	00:10:48	00:00:46	293-	23-	56-	39553
K6 (26)	21/12/16	12:10:41	12:21:16	00:10:34	00:01:32	292-	23-	54-	39598
T1 (28)	21/12/16	12:35:49	12:46:30	00:10:41	00:14:33	302-	22-	63-	39466
K9 (39)	21/12/16	12:53:11	12:58:31	00:05:20	00:06:40	155-	8-	100-	38579
T2 (40)	21/12/16	13:08:45	13:19:37	00:10:52	00:10:13	307-	24-	71-	39551
K7 (37)	21/12/16	13:25:07	13:34:15	00:09:07	00:05:30	179-	15-	82-	38579
T4 (44)	21/12/16	13:43:03	13:54:20	00:11:16	00:08:48	309-	28-	81-	39554
K6 (26)	21/12/16	13:54:46	14:05:40	00:10:54	00:00:26	309-	26-	78-	39599