Chapter 2 - Orbit Overview

Contents

Introduction to Chapter 2

This chapter gives an overview of the NIMS observations in the G7 Orbit.

The text on pages 3, 4 and 5 summarizes the NIMS science objectives for G7. The NIMS calibrations are discussed on page 6. Early data return and G7 playback are also discussed on page 6.

The table on pages 7, 8 and 9 is a time-ordered listing of the NIMS Oapels for G7.

The plot on page 10 shows the geometry of the NIMS G7 observations using a north trajectory pole view projection. The plots on pages 11 and 12 show the geometry of the NIMS Satellite and Jupiter observations. The plot on page 13 shows the geometry of the NIMS G7 calibrations. The plot on page 14 shows the geometry of the NIMS RAM Reloads and MROs.

The spreadsheet on pages 15 through 16 summarizes the various inputs for the NIMS G7 Observations. The spreadsheet on pages 17 through 25 summarizes the resource usage for the NIMS G7 observations.

The table on pages 26 through 29 lists various NIMS G7 observing parameters: target latitude/longitude, range, cone angle, incidence angle (light), emission angle (view) and phase angle.

The tapemap on pages 30 through 34 shows the placement of the G7 observations on the spacecraft's tape recorder. The NIMS observation names are written with a larger type.

The timeline on pages 35 through 39 shows the preliminary G7 playback schedule.

The NIMS E6 mosaic designs are summarized on pages 40 through 46 in time-order.

NIMS G7 SCIENCE OVERVIEW

Ganymede Science

There are five observations of Ganymede in G7. The first and last observations, at ~7 hours before and after closest approach, are part of NIMS Ganymede global mapping campaign. Both observations are at spatial resolution of ~100 km/NIMSel and have spectral resolution of 204 wavelengths. They cover west longitudes 260 to 12 degrees and 230 to 270 degrees, respectively. These two observations investigate the surface mineralogy and distribution of compositional units in a global context. These observations will be used to compare with the other satellites to look for similarity and differences. The third observation will study a bright region (BRITRL) in the trailing hemisphere at 11 km/NIMSel and 408 wavelengths. This observation will help to decompose the global observation spectra by providing spectra information on endmember from bright albedo surface units and will also be used to study the effects of radiation bombardment on the trailing hemisphere. The fourth observation is to observe a dark rayed crater called Kittu at 5 km/NIMsel and 204 wavelengths. It will provide data for studies of the modification of material from the impact crater, the mineralogy of the impactor, and the modification to surrounding area. These two observations occur within the hour before Ganymede closest approach. The fifth observation is a joint activity (HILAT) with UVS to study the North high latitude region for radiation effects on the surface composition.

Io Science

The Io monitoring campaign continues in the G7 orbit. It consists of CHEMIS, THRMAL, and VOLCAN observations. These observations are to study temporal variations of volcanic activities on Io, and they cover a wide range of longitudes. The CHEMIS observations concentrate on Io's dayside looking for chemical changes such as SO2 distribution. The THRMAL observations are designed to monitor Io's nightside in search of hot spots, thermal anomalies, and auroral effects. The VOLCAN observations monitor variations in volcanic activity of Loki, Pele, and Kanehekili. There is one high spectral (408 wavelengths) global observation of Io's dayside at closest approach. These observations occur from 16 hours before to 1 day and 8 hours after Io closest approach.

NIMS G7 SCIENCE OVERVIEW

Europa Science

There are two Europa observations for G7. The first one is at 7 hours before closest approach, and it is part of a global mosaic campaign over the course of the mission to map the entire Europa surface. This observation is centered on the Flexus Linea region and covers longitude 120 to 210 west longitude. The spatial resolution is ~80 km/NIMSel and the wavelength resolution 204 wavelengths. The objective is to search for mineralogical differences, to understand their relationships to the linea terrain, and to look for differences between trailing and leading hemispheres. The second observation is to search for mineralogical differences and understand the origin of the Tyre Macula circular feature or possible impact crater. This observation has a spatial resolution of ~13 km/NIMSel with spectral resolution of 408 wavelengths, (of which 301 wavelengths will be played back) and it is centered around Europa closest approach. Because of bits to ground constraints, only the Tyre Macula observation will be played back.

Callisto Science

There is one Callisto observation in the G7 orbit at about 2 hours after closest approach. This obsrvation is part of the NIMS Callisto global mapping campaign and covers 0 to 140 degrees west longitude (Valhalla is in this range) at 14 degrees phase (the lowest phase angle in the entire tour) with spatial resolution of 320 km/NIMSel and spectral resolution of 408 wavelengths. The objective is to investigate Callisto's surface mineralogy and determine the distribution of compositional units.

NIMS G7 SCIENCE OVERVIEW

Jupiter Science

This orbit concentrates on the Northern hemisphere of Jupiter, with observations spanning latitudes from the Equator to 48 degrees North. The objectives are to assess the 3-dimensional cloud structure over this region as well as the abundance of trace species, water, ammonia, and phosphine within the primary feature of the North Tropical Zone near 14 degrees North Planetographic latitude, 65 degrees West longitude. (It is hoped that a Barge-like feature may show up at this position). This target is observed at 5 degrees phase angle (twice at 28 degrees phase during the FEAP41 OAPels, twice at 87 degrees during the FEAP66 OAPels, twice at 135 degrees during the FEA130 OAPel, once at 142 degrees during the FEA146 OAPels, and once during 153 degrees phase during the PFB15001 OAPel.) (Note the unexpected OAPel prefix of this last OAPel). During the FEAP observations, additional 1 X 1 areas to the East and West of the nominal 1 X 1 target are observed. Nightside spectral maps at 2.7 and 5.0 micrometers, as well as a dayside sub-spectral map are, also acquired of the 1 X 1 nominal feature. Finally, additional observations of this latitude, but not longitude, are acquired during the FEX002 (2 degrees phase), FEX108 (108 degrees phase), FEZ157 (157 degrees phase) observations at 160 degrees West longitude.

Additional Northern hemisphere territories are observed during the PFTB/PFB, PFC, and PFTD OAPels. The seven PFTB/PFB OAPels examine one of the two "Little Red Spots" (LRS) near 43 degrees North latitude (note exception: PFB15001 observes the 14 degree North feature; the proper 153 degree Little Red Spot observation is now acquired during FEA15003). This LRS is observed at 28, 87, 135, 142 and 153 degrees phase angles. PFC OAPels observe the North Temperate Zone at 20 degrees North latitude, 65 degrees West longitude, i.e., the tier just to the North of the primary feature track. Three OAPels span 3 phase angles (87, 146 and 152 degrees). The PFTD OAPel acquired near the bright limb during the 28 degree phase angle opportunity targets the 28 degree latitude range just to the North at the PFC tier.

One Thermal North/South spectral map is acquired, centered at 71 degrees longitude to coincide with the PPR hotspot target. Only about 25 percent of this pole-to-pole observation is scheduled to be transmitted to Earth, returning information on the distribution of water and phosphine between the equator and 30 degrees North latitude.

Three Real-Time full spectral, 4-mirror position observations of the hotspot latitude (6.5 degrees North) are also acquired, located at 50, 90 and 124 degrees longitudes. There is also a HOTMAP 5-micron spectral map observation centered at 6.5 degrees North, 120 degrees West. Finally, three 13-RIM-long Auroral observations are acquired in real-time riding along with UVS. These are centered at 60 degrees North, 92 West (nightside) 70 North, 150 West (dayside) and 60 degrees North, 160 degrees West (dayside).

NIMS G7 SCIENCE OVERVIEW

Calibration

There are eight NIMS calibration observations in G7: one starcal, three darkcals, two RCT cals, one PCT cal and 1 OPCAL. The starcal (STRCAL) looks at the star Vega. The darkcal observations (DRKCAL) measure dark levels in three gain states. The RCT cals (RCTRLT) calibrate NIMS in the thermal bands. The PCT cal (PCTCAL) calibrates NIMS in the visible bands. THE OPCAL calibrates the NIMS grating.

Early Data Return

There are 15 realtime NIMS observations in G7: 8 instrument health checks of 3 wavelengths (HEALTH), 1 408 wavelength Jupiter Aurora observation (AURMAP, 17 Rims), 3 408 wavelength Jupiter Hotspot observations (RTHOTS), 1 PCT Calibration, 1 RCT Calibration and 1 OPCAL. The times for when these realtime observations will be returned can be found on page 1-04 of the NIMS Guide, but these realtime observations are subject to buffer dump to tape.

G7 Playback

G7 playback is split into two passes through the tape.

G7 Time-Ordered Listing

OAPEL	Start (UTC)	End (UTC)	Duration
G7NNCHOPON01-	97-092/12:12:55	97-092/12:17:58	000/00:05:03
G7NNSTRCAL01-	97-092/12:23:01	97-092/12:30:06	000/00:07:04
G7JNAURMAP01+	97-092/14:43:34	97-092/18:40:10	000/03:56:36
G7CNGLOBAL01-	97-092/18:44:13	97-092/18:52:18	000/00:08:05
G7HNDARK__01-	97-093/04:36:43	97-093/04:42:47	000/00:06:04
G7INCHEMIS01-	97-093/05:08:04	97-093/05:15:09	000/00:07:04
G7INCHEMIS02-	97-093/09:13:46	97-093/09:17:49	000/00:04:02
G7INTHRMAL02-	97-093/09:17:49	97-093/09:20:51	000/00:03:02
G7NNHEALTH01-	97-093/17:39:19	97-093/17:44:23	000/00:05:03
G7NNNIMSLD01-	97-093/17:45:23	97-093/17:55:30	000/00:10:06
G7INCHEMIS03-	97-093/17:56:31	97-093/18:04:36	000/00:08:05
G7INTHRMAL03-	97-093/18:04:36	97-093/18:07:38	000/00:03:02
G7INVOLCAN01-	97-093/18:07:38	97-093/18:10:40	000/00:03:02
G7NNHEALTH02-	97-093/18:11:41	97-093/18:16:44	000/00:05:03
G7NNNIMSLD02-	97-093/20:42:20	97-093/20:52:27	000/00:10:06
G7INVOLCAN02-	97-093/20:53:27	97-093/20:59:31	000/00:06:04
G7INTHRMAL04-	97-093/20:59:31	97-093/21:02:33	000/00:03:02
G7INHRSPEC01-	97-093/21:02:33	97-093/21:07:37	000/00:05:03
G7NNNIMSLD03-	97-093/21:20:45	97-093/21:30:52	000/00:10:06
G7JNPFC04101-	97-093/21:31:53	97-093/21:37:57	000/00:06:04
G7JNFEAP4101-	97-093/21:52:06	97-093/21:59:11	000/00:07:04
G7JNRTHOTS01-	97-093/22:00:11	97-093/22:05:15	000/00:05:03
G7INVOLCAN03-	97-093/22:30:31	97-093/22:36:35	000/00:06:04
G7NNNIMSLD04-	97-093/22:36:35	97-093/22:45:41	000/00:09:06
G7INVOLCAN04-	97-093/22:45:41	97-093/22:50:45	000/00:05:03
G7JNFEASUB01-	97-093/22:50:45	97-093/23:00:51	000/00:10:06
G7JNFEAP4102-	97-093/23:04:54	97-093/23:14:00	000/00:09:06
G7JNPFTB4101-	97-093/23:15:01	97-093/23:22:05	000/00:07:04
G7JNRTHOTS02-	97-093/23:22:05	97-093/23:28:09	000/00:06:04
G7NNNIMSLD05-	97-094/00:10:37	97-094/00:20:44	000/00:10:06
G7JNPFTB4102-	97-094/00:21:45	97-094/00:29:50	000/00:08:05
G7JNPFTD4101-	97-094/00:41:58	97-094/00:50:03	000/00:08:05

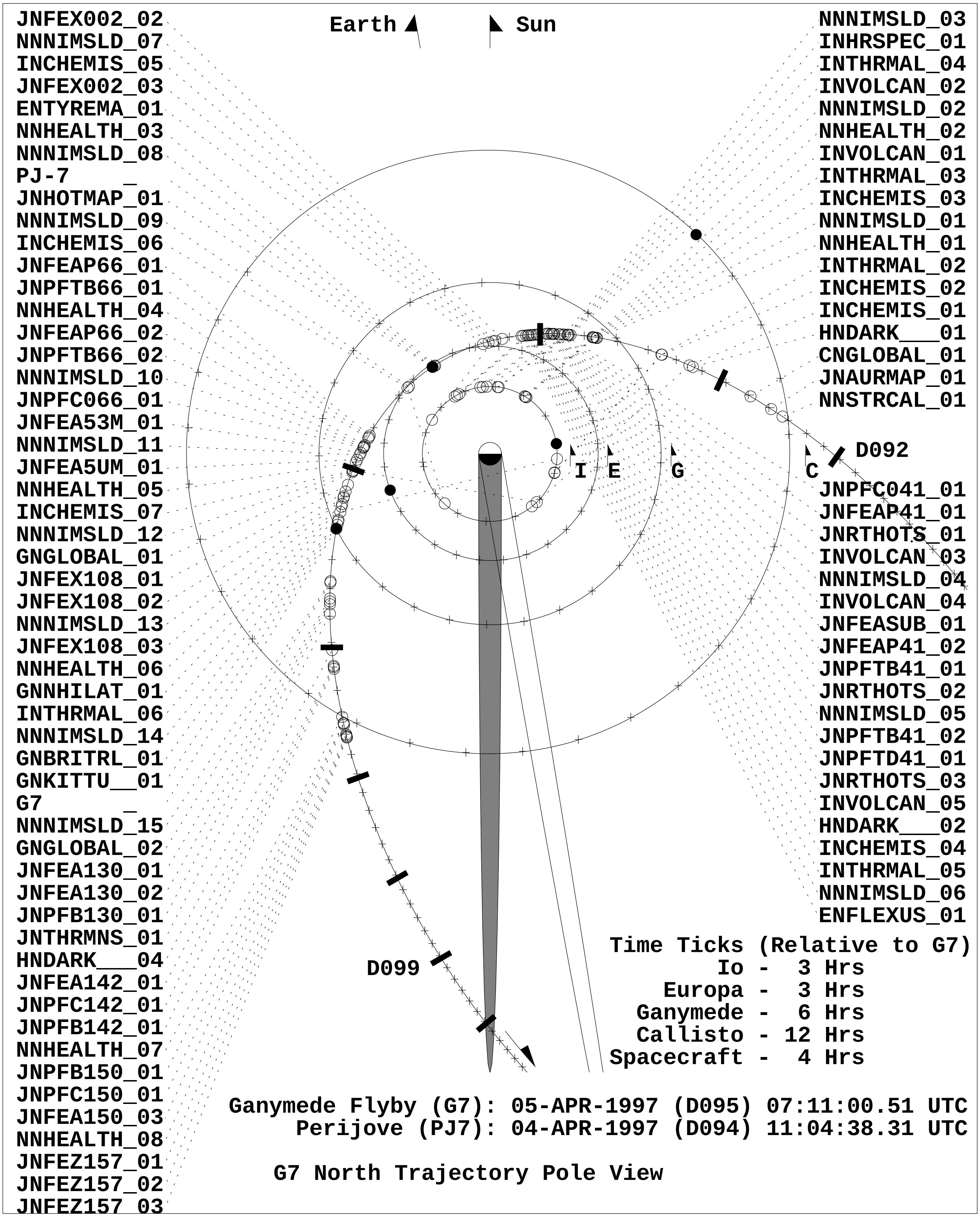
<u>G7 Time-Ordered Listing</u>

OAPEL	Start (UTC)	End (UTC)	Duration
G7JNRTHOTS03-	97-094/00:51:04	97-094/00:56:07	000/00:05:03
G7INVOLCAN05-	97-094/00:59:09	97-094/01:04:13	000/00:05:03
G7HNDARK__02-	97-094/01:11:17	97-094/01:17:21	000/00:06:04
G7INCHEMIS04-	97-094/01:17:21	97-094/01:26:27	000/00:09:06
G7INTHRMAL05-	97-094/01:27:28	97-094/01:34:33	000/00:07:04
G7NNNIMSLD06-	97-094/01:44:39	97-094/01:54:46	000/00:10:06
G7ENFLEXUS01-	97-094/01:55:47	97-094/02:23:05	000/00:27:18
G7JNFEX00202-	97-094/03:53:04	97-094/04:19:21	000/00:26:17
G7NNNIMSLD07-	97-094/04:36:33	97-094/04:46:39	000/00:10:06
G7INCHEMIS05-	97-094/04:49:41	97-094/04:57:47	000/00:08:05
G7JNFEX00203-	97-094/05:16:59	97-094/05:23:03	000/00:06:04
G7ENTYREMA01-	97-094/05:49:21	97-094/06:10:35	000/00:21:14
G7NNHEALTH03-	97-094/10:48:38	97-094/10:53:41	000/00:05:03
G7NNNIMSLD08-	97-094/10:54:42	97-094/11:04:49	000/00:10:06
G7JNHOTMAP01-	97-094/11:05:49	97-094/11:35:09	000/00:29:19
G7NNNIMSLD09-	97-094/13:57:43	97-094/14:07:49	000/00:10:06
G7INCHEMIS06-	97-094/14:08:50	97-094/14:16:55	000/00:08:05
G7JNFEAP6601-	97-094/20:06:46	97-094/20:13:51	000/00:07:04
G7JNPFTB6601-	97-094/20:17:53	97-094/20:24:58	000/00:07:04
G7NNHEALTH04-	97-094/20:25:59	97-094/20:31:02	000/00:05:03
G7JNFEAP6602-	97-094/21:13:30	97-094/21:20:35	000/00:07:04
G7JNPFTB6602-	97-094/21:22:36	97-094/21:29:41	000/00:07:04
G7NNNIMSLD10-	97-094/21:27:39	97-094/21:37:46	000/00:10:06
G7JNPFC06601-	97-094/21:33:43	97-094/21:40:48	000/00:07:04
G7JNFEA53M01-	97-094/22:06:04	97-094/22:21:14	000/00:15:10
G7NNNIMSLD11-	97-094/22:22:15	97-094/22:32:22	000/00:10:06
G7JNFEA5UM01-	97-094/22:54:36	97-094/23:03:42	000/00:09:06
G7NNHEALTH05-	97-094/23:14:50	97-094/23:19:53	000/00:05:03
G7INCHEMIS07-	97-095/00:11:27	97-095/00:15:30	000/00:04:02
G7NNNIMSLD12-	97-095/00:14:29	97-095/00:23:35	000/00:09:06
G7GNGLOBAL01-	97-095/00:23:35	97-095/01:04:02	000/00:40:26
G7JNFEX10801-	97-095/01:51:33	97-095/02:10:46	000/00:19:12
G7JNFEX10802-	97-095/02:39:05	97-095/02:46:09	000/00:07:04

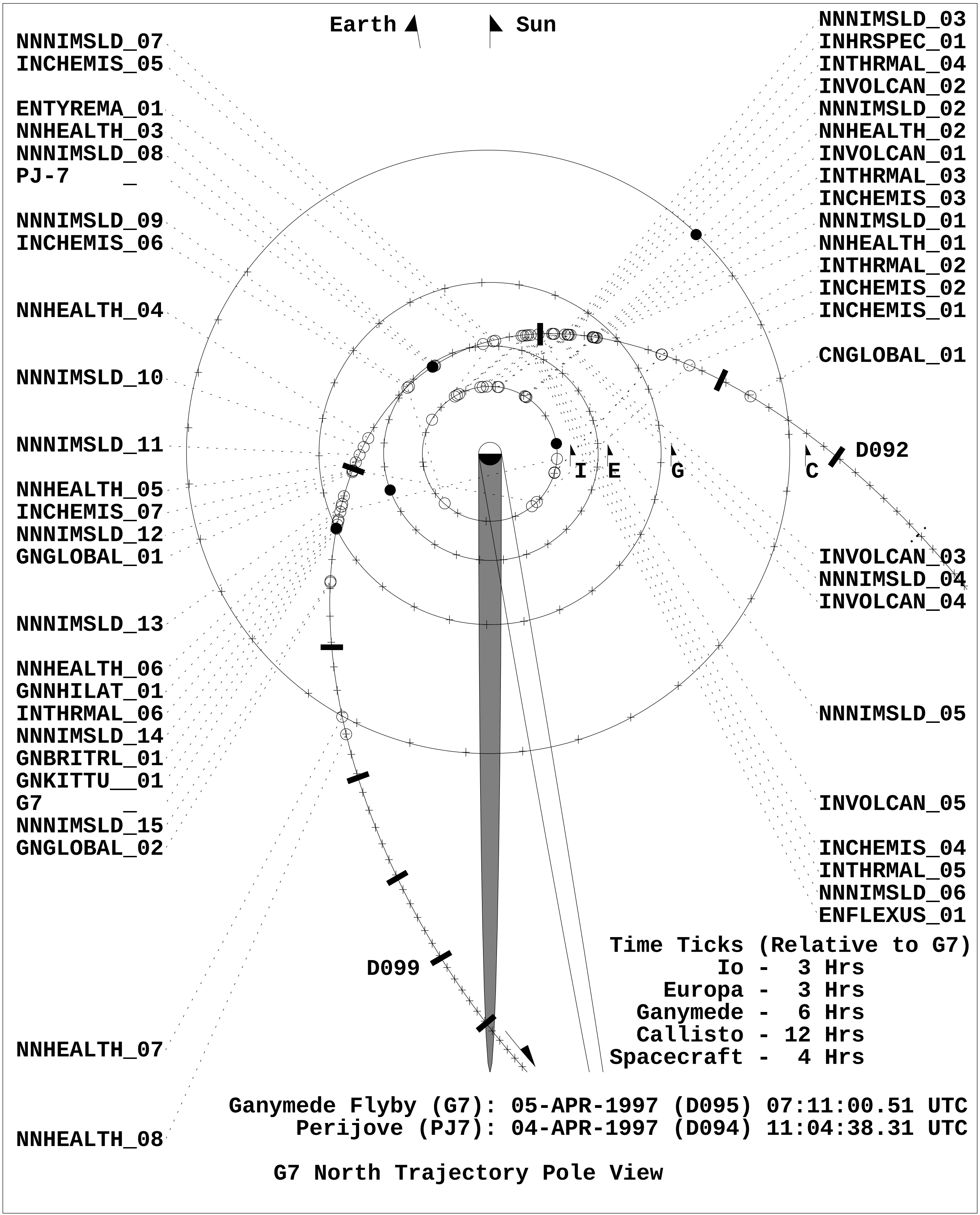
G7 Time-Ordered Listing

OAPEL	Start (UTC)	End (UTC)	Duration
G7NNNIMSLD13-	97-095/03:13:27	97-095/03:23:34	000/00:10:06
G7JNFEX10803-	97-095/03:24:35	97-095/03:38:44	000/00:14:09
G7NNHEALTH06-	97-095/04:09:04	97-095/04:14:07	000/00:05:03
G7GNNHILAT01-	97-095/04:29:17	97-095/05:03:40	000/00:34:22
G7INTHRMAL06-	97-095/05:07:43	97-095/05:15:48	000/00:08:05
G7NNNIMSLD14-	97-095/06:06:21	97-095/06:16:28	000/00:10:06
G7GNBRITRL01-	97-095/06:16:28	97-095/06:25:34	000/00:09:06
G7GNKITTU_01-	97-095/06:41:45	97-095/06:54:53	000/00:13:08
G7JNAWGWIN03	97-095/09:53:51	97-095/19:26:58	000/09:33:06
G7NNNIMSLD15-	97-095/14:09:40	97-095/14:19:46	000/00:10:06
G7GNGLOBAL02-	97-095/14:20:47	97-095/14:32:55	000/00:12:08
G7JNFEA13001-	97-095/16:36:16	97-095/16:42:20	000/00:06:04
G7JNFEA13002-	97-095/17:01:33	97-095/17:07:37	000/00:06:04
G7JNPFB13001-	97-095/17:26:50	97-095/17:32:54	000/00:06:04
G7JNTHRMNS01-	97-095/18:49:44	97-095/19:20:04	000/00:30:19
G7JNAWGWIN04	97-095/19:28:48	97-096/15:58:58	000/20:30:10
G7HNDARK__04-	97-096/00:26:27	97-096/00:32:31	000/00:06:04
G7JNFEA14201-	97-096/03:00:08	97-096/03:06:12	000/00:06:04
G7JNPFC14201-	97-096/03:12:16	97-096/03:18:20	000/00:06:04
G7JNPFB14201-	97-096/03:29:27	97-096/03:35:31	000/00:06:04
G7NNHEALTH07-	97-096/11:56:01	97-096/12:01:05	000/00:05:03
G7JNPFB15001-	97-096/13:05:47	97-096/13:11:51	000/00:06:04
G7JNPFC15001-	97-096/13:12:52	97-096/13:18:56	000/00:06:04
G7JNFEA15003-	97-096/13:28:02	97-096/13:34:06	000/00:06:04
G7NNHEALTH08-	97-096/15:14:12	97-096/15:19:15	000/00:05:03
G7JNFEZ15701-	97-096/15:30:23	97-096/15:36:27	000/00:06:04
G7JNFEZ15702-	97-096/15:42:31	97-096/15:48:35	000/00:06:04
G7JNFEZ15703-	97-096/15:51:37	97-096/15:57:41	000/00:06:04
G7NNCHOPOF01-	97-096/16:08:48	97-096/16:18:55	000/00:10:06
G7NNRCTRLT01-	97-098/17:16:11	97-099/06:31:56	000/13:15:44
G7NNPCTRLT01-	97-103/20:49:39	97-104/04:08:28	000/07:18:49
G7NNOPCAL_01-	97-121/00:54:21	97-121/01:16:36	000/00:22:14

NIMS G7 OBSERVATIONS

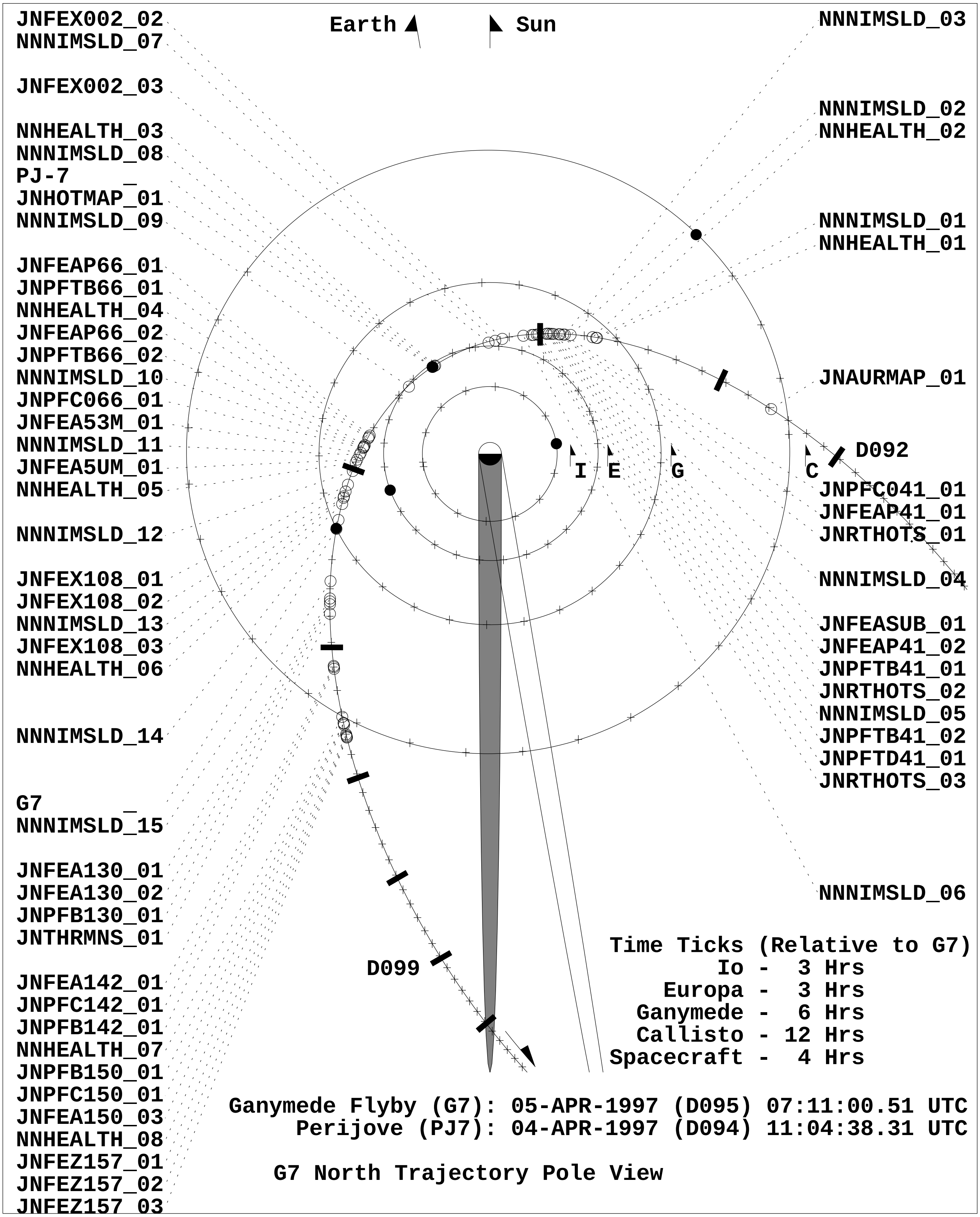


NIMS G7 SATELLITE OBSERVATIONS



NIMS - FEL - 03/07/97

NIMS G7 JUPITER OBSERVATIONS

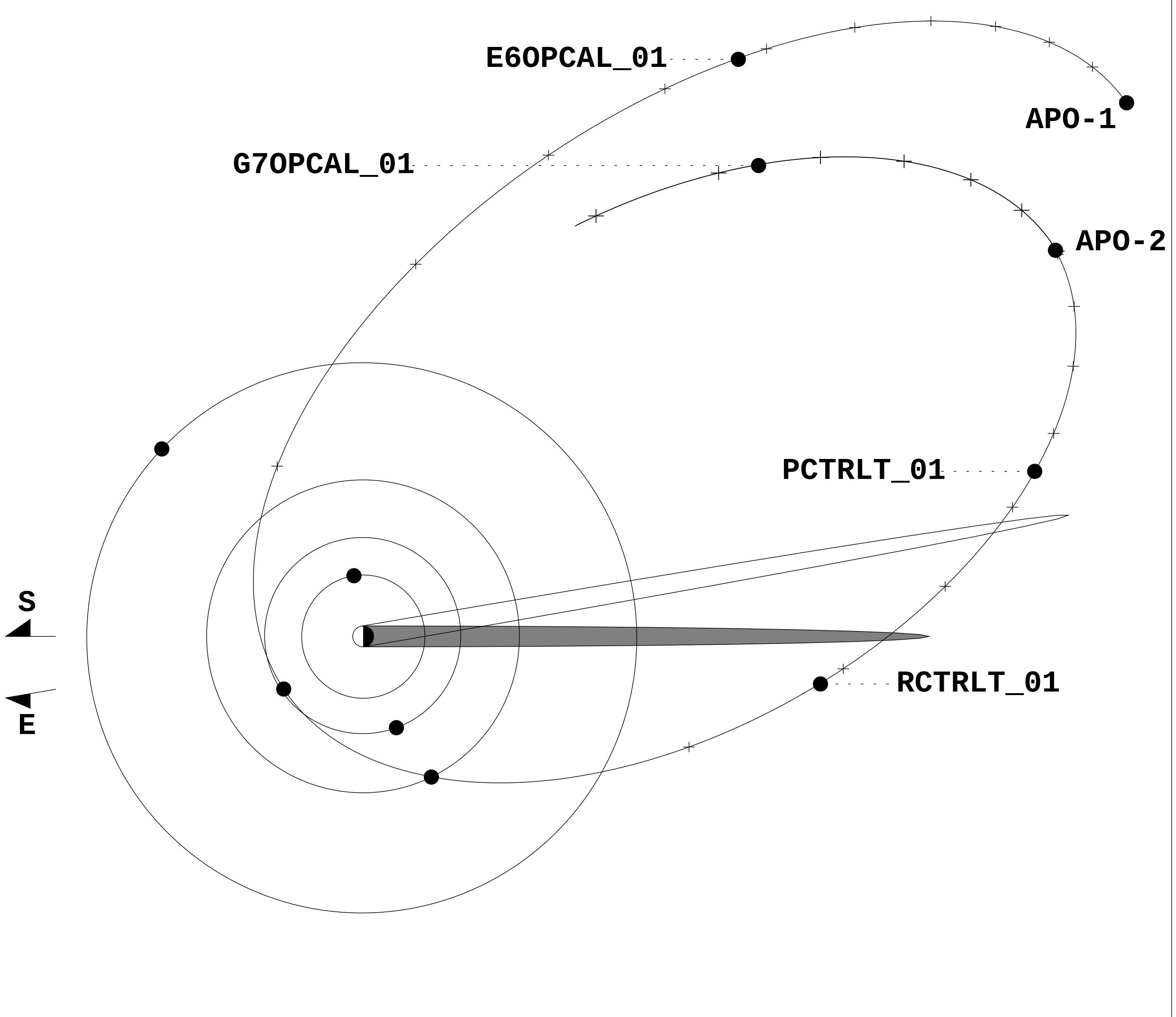


NIMS - FEL - 03/07/97

NIMS G7 CALIBRATIONS

Ganymede Flyby (G7): 05-APR-1997 (D095) 07:11:01 UTC
Perijove (PJ7): 04-APR-1997 (D094) 11:04:38 UTC

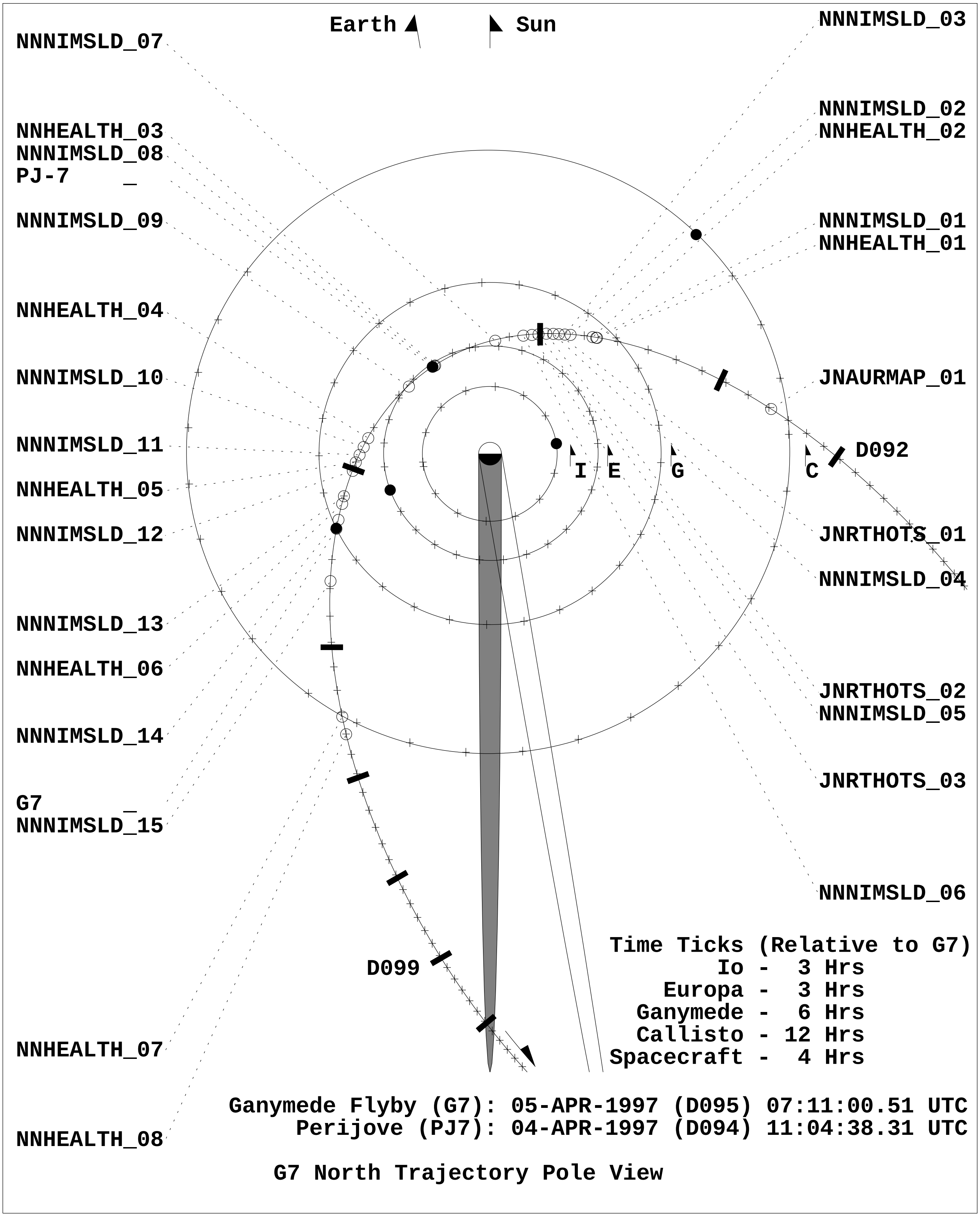
Time Ticks (Relative to G7)
Spacecraft - 2 Days



G7 North Trajectory Pole View, Apoapsis to Apoapsis

NIMS - FEL - 04/26/99

NIMS G7 RAM RELOADS



NIMS - FEL - 03/07/97

NIMS G7 INPUTS

Activity ID	Observation Title	Record Table	Playback Table	Mode	Gain	Grating Start	Grating Offset	Record Format	PSID
G7NNCHOPON01-	NIMS Chopper Turn on to Reference								DA
G7NNSTRCAL01-	NIMS STAR CALIBRATION	G7SXM17	G7SXM17	XM	4	0	4	MPW	DB
G7JNAURMAP01+	NIMS AURORA MAP	G7JLM408		LM	2	0	4	R/T	DC
G7CNGLOBAL01-	Callisto Global Coverage	G7CLM442	G7CLM384	LM	4	0	4	MPW	DD
G7HNDARK__01-	Dark Observation	G7DRK34	G7DRK32	LM	4	0	4	LPU	DI
G7INCHEMIS01-	MONITORING OF IO'S DAYSIDE	G7ILM244B	G7ILM102B	LM	2	0	4	LPU	DE
G7INCHEMIS02-	MONITORING OF IO'S DAYSIDE	G7ILM244B	G7ILM102B	LM	2	0	4	LPU	DG
G7INTHRMAL02-	MONITORING OF IO'S NIGHTSIDE	G7ILMDK244B	G7ILMDK102B	LM	4	0	4	LPU	DH
G7NNHEALTH01-	Health Observation	G7RCVY3		LM	2	0	4	R/T	KC
G7NNNIMSLD01-	NIMS Reload								
G7INCHEMIS03-	MONITORING OF IO'S DAYSIDE	G7ILM442	G7ILM102B	LM	2	0	4	MPW	DJ
G7INTHRMAL03-	MONITORING OF IO'S NIGHTSIDE	G7ILM442	G7ILMDK102B	LM	4	0	4	MPW	DL
G7INVOLCAN01-	MONITORING OF SELECTED VOLCANIC REGION	G7ILM442	G7ILMDK102B	LM	4	0	4	MPW	DN
G7NNHEALTH02-	Health Observation	G7RCVY3		LM	2	0	4	R/T	KD
G7NNNIMSLD02-	NIMS Reload								
G7INVOLCAN02-	MONITORING OF SELECTED VOLCANIC REGION	G7ILMDK244B	G7ILMDK102B	LM	4	0	4	LPU	DU
G7INTHRMAL04-	MONITORING OF IO'S NIGHTSIDE	G7ILM442	G7ILMDK102B	LM	4	0	4	MPW	DV
G7INHRSPEC01-	MONITORING OF IO'S DAYSIDE	G7ILM442	G7ILM384	LM	2	0	4	MPW	DW
G7NNNIMSLD03-	NIMS Reload								
G7JNPFC04101-	Jupiter Feature Track 41 deg phase pt	G7JFT68C	G7JFT25A	SM	2	1	4	LPU	DK
G7JNFEAP4101-	Jupiter Ftr and Prtl Trk 41 deg part 1	G7JFT68C	G7JFT25A	SM	2	1	4	LPU	DM
G7JNRTHOTS01-	Jupiter Hotspot Real-Time Observation	G7JLM408		LM	2	0	4	R/T	FT
G7INVOLCAN03-	MONITORING OF SELECTED VOLCANIC REGION	G7ILMDK244B	G7ILMDK102B	LM	4	0	4	LPU	DY
G7NNNIMSLD04-	NIMS Reload								
G7INVOLCAN04-	MONITORING OF SELECTED VOLCANIC REGION	G7ILMDK244B	G7ILMDK102B	LM	4	0	4	LPU	DZ
G7JNFEASUB01-	Jupiter Campaign Feature sub-spectra	G7JSB253A	G7JSB80A	LM	2	0	4	LPU	DO
G7JNFEAP4102-	Jupiter Ftr and Prtl Trk 41 deg part 2	G7JFT68C	G7JFT04A	SM	2	1	4	LPU	DP
G7JNPFTB4101-	Jupiter Partial Ftr. Trk. B 41 deg prt	G7JFT68C	G7JFT25A	SM	2	1	4	LPU	DQ
G7JNRTHOTS02-	Jupiter Hotspot Real-Time Observation	G7JLM408		LM	2	0	4	R/T	FW
G7NNNIMSLD05-	NIMS Reload								
G7JNPFTB4102-	Jupiter Partial Ftr Trk B 41 deg prt 2	G7JFT68C	G7JFT04A	SM	2	1	4	LPU	DR
G7JNPFTD4101-	Jupiter Partial Ftr Trk B 41 deg prt 3	G7JFT68C	G7JFT25A	SM	2	1	4	LPU	DT
G7JNRTHOTS03-	Jupiter Hotspot Real-Time Observation	G7JLM408		LM	2	0	4	R/T	FY
G7INVOLCAN05-	MONITORING OF SELECTED VOLCANIC REGION	G7ILM442	G7ILMDK102B	LM	4	0	4	MPW	EA

NIMS G7 INPUTS

Activity ID	Observation Title	Record Table	Playback Table	Mode	Gain	Grating Start	Grating Offset	Record Format	PSID
G7HNDARK_02	Dark Observation	G7DRK34	G7DRK32	LM	2	0	4	LPU	DS
G7INCHEMIS04-	MONITORING OF IO'S DAYSIDE	G7ILM244B	G7ILM102B	LM	2	0	4	LPU	EB
G7INTHRMAL05-	MONITORING OF IO'S NIGHTSIDE	G7ILMDK244B	G7ILMDK102B	LM	4	0	4	LPU	EC
G7NNNIMSLD06-	NIMS Reload								
G7ENFLEXUS01-	Europa Global Mosaic Campaign	G7ELM244B	G7ELM228B	LM	3,2,4	0	4	LPU	DX
G7JNFEX00202-	Jupiter Feature Track 2 deg phase pt 2	G7JFT68C	G7JFT04A	SM	2	1	4	MPW	EE
G7NNNIMSLD07-	NIMS Reload								
G7INCHEMIS05-	MONITORING OF IO'S DAYSIDE	G7ILM244B	G7ILM228B	LM	2	0	4	LPU	EF
G7JNFEX00203-	Jupiter Feature Track 2 deg phase pt 3	G7JFT68A	G7JFT04A	SM	2	1	4	LPU	EG
G7ENTYREMA01-	Europa Tyre Macula Region	G7ELM442	G7ELM301	LM	2	0	4	MPW	EH
G7NNHEALTH03-	Health Observation	G7RCVY3		LM	2	0	4	R/T	KE
G7NNNIMSLD08-	NIMS Reload								
G7JNHOTMAP01-	NIMS Jupiter Hotmap Observation	G7JHT238A	G7JHT72A	LM	2	0	4	LPU	FR
G7NNNIMSLD09-	NIMS Reload								
G7INCHEMIS06-	MONITORING OF IO'S DAYSIDE	G7ILM244B	G7ILM228B	LM	2	0	4	LPU	EI
G7JNFEAP6601-	Jupiter Ftr and Prtl Trk 66 deg prt 1	G7JFT68C	G7JFT25A	SM	2	1	4	LPU	EJ
G7JNPFTB6601-	Jupiter Partial Ftr Trk B 66 deg prt 1	G7JFT68C	G7JFT25A	SM	2	1	4	LPU	EK
G7NNHEALTH04-	Health Observation	G7RCVY3		LM	2	0	4	R/T	KF
G7NNNIMSLD10-	NIMS Reload								
G7JNFEAP6602-	Jupiter Feature Track 66 deg phase pt	G7JFT68C	G7JFT04A	SM	2	1	4	LPU	EL
G7JNPFTB6602-	Jupiter Partial Ftr Trk B 66 deg prt 2	G7JFT68C	G7JFT04A	SM	2	1	4	LPU	EM
G7JNPFC06601-	Jupiter Ftr Trk 66 deg phase pt 3	G7JFT68C	G7JFT25A	SM	2	1	4	LPU	EN
G7JNFEA53M01-	Jupiter Campaign Feature 5 and 3 um Ma	G7J35160	G7J35100	LM	4	0	4	LPU	EO
G7NNNIMSLD11-	NIMS Reload								
G7JNFEA5UM01-	Jupiter Feature Track 5 Micron Map 2	G7J5M253B	G7J5M80B	LM	4	0	4	MPW	EP
G7NNHEALTH05-	Health Observation	G7RCVY3		LM	2	0	4	R/T	KG
G7INCHEMIS07-	MONITORING OF IO'S DAYSIDE	G7ILM244B	G7ILM102B	LM	2	0	4	LPU	ER
G7NNNIMSLD12-	NIMS Reload								
G7GNGLOBAL01-	GANYMEDE GLOBAL SURFACE MAP	G7GLM244G	G7GLM192	LM	3	0	4	LPU	ES
G7JNFEX10801-	Jupiter Feature Track 108 deg phse prt 1	G7JFT68C	G7JFT04A	SM	2	1	4	MPW	ET
G7JNFEX10802-	Jupiter Feature Track 108 deg phse prt 2	G7JFT68C	G7JFT04A	SM	2	1	4	LPU	EU
G7NNNIMSLD13-	NIMS Reload								
G7JNFEX10803-	Jupiter Feature Track 108 deg phse prt 3	G7JFT68C	G7JFT04A	SM	2	1	4	LPU	EV
G7NNHEALTH06-	Health Observation	G7RCVY3		LM	2	0	4	R/T	KH

NIMS G7 INPUTS

Activity ID	Observation Title	Record Table	Playback Table	Mode	Gain	Grating Start	Grating Offset	Record Format	PSID
G7GNNHILAT01-	Ganymede North High Latitude Region Map	G7GLM245H	G7GLM192	LM	3	0	4	LPU	LA
G7INTHRMAL06-	MONITORING OF IO'S NIGHTSIDE	G7ILMDK244B	G7ILMDK102B	LM	4	0	4	LPU	EW
G7NNNIMSLD14-	NIMS Reload								
G7GNBRITRL01-	BRIGHT ENDMEMBER FROM TRAIL HEMISPHERE	G7GLM442	G7GLM384	LM	3	0	4	MPW	EX
G7GNKITTU_01-	Dark Rayed crater KITTU	G7GLM442	G7GLM192	LM	3	0	4	MPW	EY
G7NNNIMSLD15-	NIMS Reload								
G7GNGLOBAL02-	GANYMEDE GLOBAL SURFACE MAP	G7GLM442	G7GLM192	LM	3	0	4	MPW	FC
G7JNFEA13001-	Jupiter Feature Track 130 deg phase prt 1	G7JFT68B	G7JFT04A	SM	2	1	4	LPU	EZ
G7JNFEA13002-	Jupiter Feature Track 130 deg phase prt 2	G7JFT68B	G7JFT15A	SM	2	1	4	LPU	FA
G7JNPFB13001-	Jupiter Feature Track 130 deg phase prt 3	G7JFT68B	G7JFT15A	SM	2	1	4	LPU	FB
G7JNTHRMNS01-	Jupiter Thermal North South Stripe	G7J5M253B	G7J5M80B	LM	4	0	4	LPU	FD
G7HNDARK_04	Dark Observation	G7DRK34	G7DRK32	LM	3	0	4	LPU	FE
G7JNFEA14201-	Jupiter Feature Track 142 deg phase prt 1	G7JFT68C	G7JFT04A	SM	2	1	4	LPU	FF
G7JNPFC14201-	Jupiter Feature Track 142 deg phase prt 2	G7JFT68C	G7JFT04A	SM	2	1	4	LPU	FG
G7JNPFB14201-	Jupiter Feature Track 142 deg phase prt 3	G7JFT68C	G7JFT04A	SM	2	1	4	LPU	FH
G7NNHEALTH07-	Health Observation	G7RCVY3		LM	2	0	4	R/T	KI
G7JNPFB15001-	Jupiter Feature Track 150 deg phase prt 1	G7JFT68C	G7JFT04A	SM	2	1	4	LPU	FI
G7JNPFC15001-	Jupiter Feature Track 150 deg phase prt 2	G7JFT68C	G7JFT04A	SM	2	1	4	LPU	FJ
G7JNFEA15003-	Jupiter Feature Track 150 deg phase prt 3	G7JFT68C	G7JFT04A	SM	2	1	4	LPU	FK
G7NNHEALTH08-	Health Observation	G7RCVY3		LM	2	0	4	R/T	KJ
G7JNFEZ15701-	Jupiter Feature Track 157 deg phase prt 1	G7JFT68C	G7JFT04A	SM	2	1	4	LPU	FL
G7JNFEZ15702-	Jupiter Feature Track 157 deg phase prt 2	G7JFT68C	G7JFT04A	SM	2	1	4	LPU	FM
G7JNFEZ15703-	Jupiter Feature Track 157 deg phase prt 3	G7JFT68C	G7JFT04A	SM	2	1	4	LPU	FN
G7NNCHOPOF01-	NIMS Chopper Turn Off								FJ
G7NNRCTRLT01-	NIMS RCT Calibration	G7RCT252		LM	1	0	4	R/T	XE
G7NNPCTRLT01-	NIMS PCT Calibration	G7PCT252		LM	4	0	4	R/T	FA
G7NNOPCAL_01-	NIMS OPCAL	G7OPCAL120		LM	4	0	4	R/T	DN

G7 NIMS RESOURCES

Activity ID	Mode	Record Format	Obs. Cost (tracks)	Obs. Cost (ticks)	Wave-lengths return	Record Time (sec)	PB Time (sec)	Sel Bits of Tape sBOT (Mbits)	Total Bits of of Tape BOT (Mbit)	Mode cycle time (sec)
G7NNSTRCAL01-	XM	MPW	0.0050	35	17	36.67	36.67	0.42	0.42	0.333
G7JNAURMAP01+	LM	R/T			408					
G7CNGLOBAL01-	LM	MPW	0.0365	254	384	286.67	58.79	0.68	3.30	8.667
G7HNDARK__01-	LM	LPU	0.0023	16	32	60.67	60.67	0.37	0.37	8.667
G7INCHEMIS01-	LM	LPU	0.0047	33	102	131.33	131.33	0.81	0.81	8.667
G7INCHEMIS02-	LM	LPU	0.0051	36	102	144.67	0.00	0.00	0.89	8.667
G7INTHRMAL02-	LM	LPU	0.0026	18	102	68.00	0.00	0.00	0.42	8.667
G7NNHEALTH01-	LM	R/T			3					8.667
G7INCHEMIS03-	LM	MPW	0.0251	175	102	196.67	0.00	0.00	2.27	8.667
G7INTHRMAL03-	LM	MPW	0.0100	70	102	76.67	0.00	0.00	0.88	8.667
G7INVOLCAN01-	LM	MPW	0.0100	70	102	76.67	0.00	0.00	0.88	8.667
G7NNHEALTH02-	LM	R/T			3					8.667
G7INVOLCAN02-	LM	LPU	0.0034	24	102	93.33	0.00	0.00	0.58	8.667
G7INTHRMAL04-	LM	MPW	0.0152	106	102	118.00	0.00	0.00	1.36	8.667
G7INHRSPEC01-	LM	MPW	0.0228	159	384	178.00	178.00	2.05	2.05	8.667
G7JNPFC04101-	SM	LPU	0.0036	25	25	100	100	0.62	0.62	2.33
G7JNFEAP4101-	SM	LPU	0.0104	72	25	300	300	1.85	1.85	2.33
G7JNRTHOTS01-	LM	R/T			408					
G7INVOLCAN03-	LM	LPU	0.0029	20	102	76.67	0.00	0.00	0.47	8.667
G7INVOLCAN04-	LM	LPU	0.0023	16	102	60.67	0.00	0.00	0.37	8.667
G7JNFEASUB01-	LM	LPU	0.0125	87	80	364	320	1.97	2.25	8.667
G7JNFEAP4102-	SM	LPU	0.0104	72	4	300	300	1.85	1.85	2.33
G7JNPFTB4101-	SM	LPU	0.0075	52	25	213.33	213.33	1.32	1.32	2.33
G7JNRTHOTS02-	LM	R/T			408					
G7JNPFTB4102-	SM	LPU	0.0075	52	4	213.33	213.33	1.32	1.32	2.33
G7JNPFTD4101-	SM	LPU	0.0075	52	25	213.33	213.33	1.32	1.32	2.33
G7JNRTHOTS03-	LM	R/T			408					
G7INVOLCAN05-	LM	MPW	0.0080	56	102	60.67	0.00	0.00	0.70	8.667
G7HNDARK__02-	LM	LPU	0.0023	16	32	60.67	60.67	0.37	0.37	8.667
G7INCHEMIS04-	LM	LPU	0.0102	71	102	294.67	0.00	0.00	1.82	8.667
G7INTHRMAL05-	LM	LPU	0.0047	33	102	131.33	0.00	0.00	0.81	8.667
G7ENFLEXUS01-	LM	LPU	0.0462	322	228	1366.00	60.67	0.37	8.43	8.667
G7JNFEX00202-	SM	MPW	0.0130	90	4	100	100	1.15	1.15	2.33
G7INCHEMIS05-	LM	LPU	0.0105	73	228	303.34	242.67	1.50	1.87	8.667
G7JNFEX00203-	SM	LPU	0.0036	25	4	100	100	0.62	0.62	2.33

G7 NIMS RESOURCES

Activity ID	Mode	Record Format	Obs. Cost (tracks)	Obs. Cost (ticks)	Wave-lengths return	Record Time (sec)	PB Time (sec)	Sel Bits of Tape sBOT (Mbits)	Total Bits of of Tape BOT (Mbit)	Mode cycle time (sec)
G7ENTYREMA01-	LM	MPW	0.1243	867	301	984.00	979.67	11.29	11.34	8.667
G7NNHEALTH03-	LM	R/T			3					8.667
G7JNHOTMAP01-	LM	LPU	0.0267	186	72	786	667	4.11	4.85	8.667
G7INCHEMIS06-	LM	LPU	0.0084	59	228	242.67	242.67	1.50	1.50	8.667
G7JNFEAP6601-	SM	LPU	0.0104	72	25	300	300	1.85	1.85	2.33
G7JNPFTB6601-	SM	LPU	0.0075	52	25	213.33	213.33	1.32	1.32	2.33
G7NNHEALTH04-	LM	R/T			3					8.667
G7JNFEAP6602-	SM	LPU	0.0104	72	4	300	300	1.85	1.85	2.33
G7JNPFTB6602-	SM	LPU	0.0075	52	4	213.33	213.33	1.32	1.32	2.33
G7JNPFC06601-	SM	LPU	0.0104	72	25	300	300	1.85	1.85	2.33
G7JNFEA53M01-	LM	LPU	0.0288	201	100	849.338	320	1.97	5.24	8.667
G7JNFEA5UM01-	LM	MPW	0.0462	322	80	364	300	3.46	4.19	8.667
G7NNHEALTH05-	LM	R/T			3					8.667
G7INCHEMIS07-	LM	LPU	0.0064	45	102	182.00	0.00	0.00	1.12	8.667
G7GNGLOBAL01-	LM	LPU	0.0725	506	192	2150.67	1564.33	9.65	13.27	8.667
G7JNFEX10801-	SM	MPW	0.0130	90	4	100	100	1.15	1.15	2.33
G7JNFEX10802-	SM	LPU	0.0036	25	4	100	100	0.62	0.62	2.33
G7JNFEX10803-	SM	LPU	0.0036	25	4	100	100	0.62	0.62	2.33
G7NNHEALTH06-	LM	R/T			3					8.667
G7GNNHILAT01-	LM	LPU	0.0467	326	192	1382.67	835.67	5.15	8.53	8.667
G7INTHRMAL06-	LM	LPU	0.0065	45	102	184.67	184.67	1.14	1.14	8.667
G7GNBRITRL01-	LM	MPW	0.0362	253	384	284.67	284.67	3.28	3.28	8.667
G7GNKITTU_01-	LM	MPW	0.0886	618	192	700.67	700.67	8.07	8.07	8.667
G7GNGLOBAL02-	LM	MPW	0.0544	380	192	429.33	429.33	4.95	4.95	8.667
G7JNFEA13001-	SM	LPU	0.0036	25	4	100	100	0.62	0.62	2.33
G7JNFEA13002-	SM	LPU	0.0036	25	15	100	100	0.62	0.62	2.33
G7JNPFB13001-	SM	LPU	0.0036	25	15	100	100	0.62	0.62	2.33
G7JNTHRMNS01-	LM	LPU	0.0530	370	80	1570	300	1.85	9.68	8.667
G7HNDARK__04-	LM	LPU	0.0023	16	32	60.67	60.67	0.37	0.37	8.667
G7JNFEA14201-	SM	LPU	0.0036	25	4	100	100	0.62	0.62	2.33
G7JNPFC14201-	SM	LPU	0.0036	25	4	100	100	0.62	0.62	2.33
G7JNPFB14201-	SM	LPU	0.0036	25	4	100	100	0.62	0.62	2.33
G7NNHEALTH07-	LM	R/T			3					8.667
G7JNPFB15001-	SM	LPU	0.0036	25	4	100	100	0.62	0.62	2.33
G7JNPFC15001-	SM	LPU	0.0036	25	4	100	100	0.62	0.62	2.33

G7 NIMS RESOURCES

Activity ID	Mode	Record Format	Obs. Cost (tracks)	Obs. Cost (ticks)	Wave-lengths return	Record Time (sec)	PB Time (sec)	Sel Bits of Tape sBOT (Mbits)	Total Bits of of Tape BOT (Mbit)	Mode cycle time (sec)
G7JNFEA15003-	SM	LPU	0.0036	25	4	100	100	0.62	0.62	2.33
G7NNHEALTH08-	LM	R/T			3					8.667
G7JNFEZ15701-	SM	LPU	0.0036	25	4	100	100	0.62	0.62	2.33
G7JNFEZ15702-	SM	LPU	0.0036	25	4	100	100	0.62	0.62	2.33
G7JNFEZ15703-	SM	LPU	0.0036	25	4	100	100	0.62	0.62	2.33
G7NNRCTRLT01-	LM	R/T			252					
G7NNPCTRLT01	LM	R/T			252					
G7NNOPCAL_01	LM	R/T			120					
Total			1.017						136.855	
Allocated										
Oversubscribed										

G7 NIMS RESOURCES

Activity ID	AACS Mbits (Comp. 2.5)	RT BTG (Mbits)	Thold	Comp	Playback BTG (Mbits) (4% Ohead)	Data Reduct Factor (sBOT/BTG)	BTG (Mbits) SWG	BTG (Mbits) AWG	Pass
G7NNSTRCAL01-	0.0021		0	2.00	0.1947	2.2		0.1947	1
G7JNAURMAP01+		0.636							
G7CNGLOBAL01-	0.0034		2	2.10	0.2580	2.6	0.2580		2
G7HNDARK__01-	0.0035		0	2.00	0.0233	16.1		0.0233	1
G7INCHEMIS01-	0.0076		2	1.20	0.2679	3.0	0.2679		1
G7INCHEMIS02-	0.0000		2	1.20	0.0000		0.0000		1
G7INTHRMAL02-	0.0000		2	2.00	0.0000		0.0000		1
G7NNHEALTH01-		0.001							
G7INCHEMIS03-	0.0000		2	1.20	0.0000		0.0000		1
G7INTHRMAL03-	0.0000		2	2.00	0.0000		0.0000		1
G7INVOLCAN01-	0.0000		2	3.60	0.0000		0.0000		1
G7NNHEALTH02-		0.001							
G7INVOLCAN02-	0.0000		2	3.60	0.0000		0.0000		1
G7INTHRMAL04-	0.0000		2	2.00	0.0000		0.0000		1
G7INHRSPEC01-	0.0103		2	1.25	1.3123	1.6	1.3123		1,2
G7JNPFC04101-	0.0058		0	1.80	0.1240	5.0		0.1240	1
G7JNFEAP4101-	0.0173		0	2.00	0.3348	5.5		0.3348	2
G7JNRTHOTS01-		0.016							
G7INVOLCAN03-	0.0000		2	3.60	0.0000		0.0000		1
G7INVOLCAN04-	0.0000		2	3.60	0.0000		0.0000		1
G7JNFEASUB01-	0.0184		0	1.80	0.3413	5.8		0.3413	1
G7JNFEAP4102-	0.0173		0	1.80	0.0595	31.1		0.0595	2
G7JNPFTB4101-	0.0123		0	1.80	0.2645	5.0		0.2645	1
G7JNRTHOTS02-		0.016							
G7JNPFTB4102-	0.0123		0	1.80	0.0423	31.1		0.0423	1
G7JNPFTD4101-	0.0123		0	1.80	0.2645	5.0		0.2645	1
G7JNRTHOTS03-		0.016							
G7INVOLCAN05-	0.0000		2	3.60	0.0000		0.0000		1
G7HNDARK__02-	0.0035		0	2.00	0.0233	16.1		0.0233	1
G7INCHEMIS04-	0.0000		2	1.20	0.0000		0.0000		2
G7INTHRMAL05-	0.0000		2	2.00	0.0000		0.0000		1
G7ENFLEXUS01-	0.0035		0	1.30	0.2554	1.5	0.2554		1
G7JNFEX00202-	0.0058		0	1.80	0.0198	58.1		0.0198	1
G7INCHEMIS05-	0.0140		2	1.20	1.1065	1.4	1.1065		1
G7JNFEX00203-	0.0058		0	1.80	0.0198	31.1		0.0198	1

G7 NIMS RESOURCES

Activity ID	AACS Mbits (Comp. 2.5)	RT BTG (Mbits)	Thold	Comp	Playback BTG (Mbits) (4% Ohead)	Data Reduct Factor (sBOT/BTG)	BTG (Mbits) SWG	BTG (Mbits) AWG	Pass
G7ENTYREMA01-	0.0564		0	1.30	5.4437	2.1	5.4437		1,2
G7NNHEALTH03-		0.001							
G7JNHOTMAP01-			0	1.30	0.8866	4.6		0.8866	1
G7INCHEMIS06-	0.0140		2	1.20	1.1065	1.4	1.1065		1
G7JNFEAP6601-	0.0173		0	1.80	0.3720	5.0		0.3720	1
G7JNPFTB6601-	0.0123		0	1.80	0.2645	5.0		0.2645	1
G7NNHEALTH04-		0.001							
G7JNFEAP6602-	0.0173		0	1.80	0.0595	31.1		0.0595	1
G7JNPFTB6602-	0.0123		0	1.80	0.0423	31.1		0.0423	1
G7JNPFC06601-	0.0173		0	1.80	0.3720	5.0		0.3720	1
G7JNFEA53M01-	0.0184		0	1.30	0.5907	3.3		0.5907	2
G7JNFEA5UM01-	0.0173		0	1.30	0.4431	7.8		0.4431	1
G7NNHEALTH05-		0.001							
G7INCHEMIS07-	0.0000		2	1.20	0.0000		0.0000		1
G7GNGLOBAL01-	0.0901		0	2.20	3.2764	2.9	3.2764		1,2
G7JNFEX10801-	0.0058		0	1.80	0.0198	58.1		0.0198	1
G7JNFEX10802-	0.0058		0	1.80	0.0198	31.1		0.0198	1
G7JNFEX10803-	0.0058		0	1.80	0.0198	31.1		0.0198	1
G7NNHEALTH06-		0.001							
G7GNNHILAT01-	0.0481		0	1.30	2.9620	1.7	2.9620		1
G7INTHRMAL06-	0.0106		0	2.00	0.2260	5.0	0.2260		1
G7GNBRITRL01-	0.0164		0	1.70	1.5432	2.1	1.5432		2
G7GNKITTU_01-	0.0404		0	1.70	1.8992	4.3	1.8992		1,2
G7GNGLOBAL02-	0.0247		0	2.15	0.9201	5.4	0.9201		2
G7JNFEA13001-	0.0058		0	1.80	0.0198	31.1		0.0198	1
G7JNFEA13002-	0.0058		0	1.80	0.0744	8.3		0.0744	1
G7JNPFB13001-	0.0058		0	1.80	0.0744	8.3		0.0744	1
G7JNTHRMNS01-	0.0173		0	1.30	0.4431	4.2		0.4431	1
G7HNDARK__04-	0.0035		0	2.00	0.0233	16.1		0.0233	1
G7JNFEA14201-	0.0058		0	1.80	0.0198	31.1		0.0198	1
G7JNPFC14201-	0.0058		0	1.80	0.0198	31.1		0.0198	1
G7JNPFB14201-	0.0058		0	1.80	0.0198	31.1		0.0198	1
G7NNHEALTH07-		0.001							
G7JNPFB15001-	0.0058		0	1.80	0.0198	31.1		0.0198	1
G7JNPFC15001-	0.0058		0	1.80	0.0198	31.1		0.0198	2

G7 NIMS RESOURCES

Activity ID	AACS Mbits (Comp. 2.5)	RT BTG (Mbits)	Thold	Comp	Playback BTG (Mbits) (4% Ohead)	Data Reduct Factor (sBOT/BTG)	BTG (Mbits) SWG	BTG (Mbits) AWG	Pass
G7JNFEA15003-	0.0058		0	1.80	0.0198	31.1		0.0198	1
G7NNHEALTH08-		0.001							
G7JNFEZ15701-	0.0058		0	1.80	0.0198	31.1		0.0198	1
G7JNFEZ15702-	0.0058		0	1.80	0.0198	31.1		0.0198	2
G7JNFEZ15703-	0.0058		0	1.80	0.0198	31.1		0.0198	1
G7NNRCTRLT01-		0.040						0.0400	
G7NNPCTRLT01		0.120						0.1200	
G7NNOPCAL_01		0.014						0.0140	
Total		0.866	0	2.00	26.193		20.5773	5.7895	
Allocated							20.7020	5.5110	
Oversubscribed							-0.1247	0.2785	

NIMS G7 OBSERVING GEOMETRY

OAPEL	Latitude (deg)	Longitude (deg)	Range (km)	Cone (deg)	Light (deg)	View (deg)	Phase (deg)
G7NNSTRCAL01	----------	----------	-------	115	----------	----------	----------
G7JNAURMAP01	60	184	1700K	92	110 to 115	76 to 81	77
G7CNGLOBAL01	-90 to +90	30 to 150	640K	168	3 to 111	2 to 90	20
G7INCHEMIS01	-90 to +90	119 to 356	1348K	122	60 to 104	90	---------
G7INCHEMIS02	-90 to +90	22 to 201	1027K	129	56 to 114	58 to 90	41
G7INTHRMAL02	-90 to +90	201	1023K	129	107 to 119	90	---------
G7INCHEMIS03	-90 to +90	101 to 234	561K	124	2 to 90	3 to 90	46
G7INTHRMAL03	-90 to +90	219 to 281	560K	124	74 to 136	28 to 90	46
G7INVOLCAN01	-90 to +90	234 to 282	559K	124	88 to 136	42 to 90	46
G7INVOLCAN02	-90 to +90	244 to 30	530K	119	75 to 140	24 to 90	51
G7INTHRMAL04	-90 to +90	240 to 311	530K	119	70 to 141	20 to 90	51
G7INHRSPEC01	-90 to +90	131 to 260	530K	119	2 to 89	4 to 90	51
G7JNPFC04101	17 to 22	60 to 70	823K	142	62 to 73	38 to 48	28
G7JNFEAP4101	10 to 20	60 to 89	813K	142	49 to 80	24 to 55	27
G7JNRTHOTS01	12	50	795K	141	37	15	29
G7INVOLCAN03	-90 to +90	262 to 325	534K	119	79 to 142	27 to 90	52

NIMS G7 OBSERVING GEOMETRY

OAPEL	Latitude (deg)	Longitude (deg)	Range (km)	Cone (deg)	Light (deg)	View (deg)	Phase (deg)
G7INVOLCAN04	-90 to +90	279 to 311	536K	119	93 to 126	42 to 75	52
G7JNFEASUB01	10 to 20	61 to 69	772K	143	18 to 27	16 to 22	27
G7JNFEAP4102	10 to 20	60 to 82	768K	143	14 to 31	16 to 30	27
G7JNPFTB4101	35 to 55	75 to 86	780K	145	43 to 53	43 to 53	26
G7JNRTHOTS02	6.5	90	758K	146	27	8	25
G7JNPFTB4102	35 to 55	69 to 91	766K	147	42 to 57	53 to 72	24
G7JNPFTD4101	20 to 40	49 to 82	774K	147	40 to 69	60 to 90	24
G7JNRTHOTS03	6.5	124	723K	150	9	16	20
G7INVOLCAN05	90 to +90	286 to 343	556K	121	82 to 139	32 to 90	49
G7INCHEMIS04	90 to +90	165 to 297	559K	122	2 to 89	2 to 90	49
G7INTHRMAL05	90 to +90	278 to 347	561K	122	69 to 138	21 to 90	48
G7ENFLEXUS01	50 to 50	158 to 208	82K to 90K	149	2 to 47	2 to 40	21
G7JNFEX00202	0 to 20	273 to 283	676K	169	45 to 56	44 to 55	2
G7INCHEMIS05	90 to +90	184 to 345	600K	132	2 to 108	5 to 90	37
G7JNFEX00203	10 to 20	275 to 281	631K	171	15 to 15	16 to 16	2
G7ENTYREMA01	25 to 45	134 to 152	24K	129 to 143	45 to 59	31 to 40	47 to 61

NIMS G7 OBSERVING GEOMETRY

OAPEL	Latitude (deg)	Longitude (deg)	Range (km)	Cone (deg)	Light (deg)	View (deg)	Phase (deg)
G7JNHOTMAP01	7 to 7	114 to 127	588K	152	8 to 26	15 to 35	37
G7INCHEMIS06	-90 to +90	27 to 359	746K	171	10 to 93	7 to 90	17
G7JNFEAP6601	10 to 20	50 to 100	711K to 764K	103	15 to 52	37 to 90	85
G7JNPFTB6601	35 to 55	66 to 104	733K to 768K	103	45 to 55	60 to 90	86
G7JNFEAP6602	10 to 20	59 to 82	725K to 734K	101	55 to 80	17 to 37	88
G7JNPFTB6602	35 to 55	74 to 88	745K to 757K	101	68 to 76	47 to 60	88
G7JNPFC06601	17 to 23	60 to 82	736K	101	67 to 91	21 to 31	88
G7JNFEA53M01	10 to 18	62 to 68	745K to 756K	101	100 to 113	18 to 30	88
G7JNFEA5UM01	10 to 18	60 to 69	780K to 794K	100	128 to 140	42 to 54	89
G7INCHEMIS07	-90 to +90	51 to 231	1151K	110	45 to 109	90	----------
G7GNGLOBAL01	-90 to +90	0 to 360	185K to 206K	109	4 to 101	2 to 90	61
G7JNFEX10801	10 to 18	260 to 291	879K to 916K	83	21 to 49	61 to 92	106
G7JNFEX10802	10 to 18	272 to 285	888K to 901K	81	51 to 65	46 to 60	108
G7JNFEX10803	10 to 18	274 to 283	895K to 899K	81	80 to 89	24 to 33	109
G7GNNHILAT01	30 to 90	0 to 360	655K to 780K	108	51 to 104	35 to 70	62
G7INTHRMAL06	-90 to +90	71 to 249	1391K	87	84 to 116	90	----------

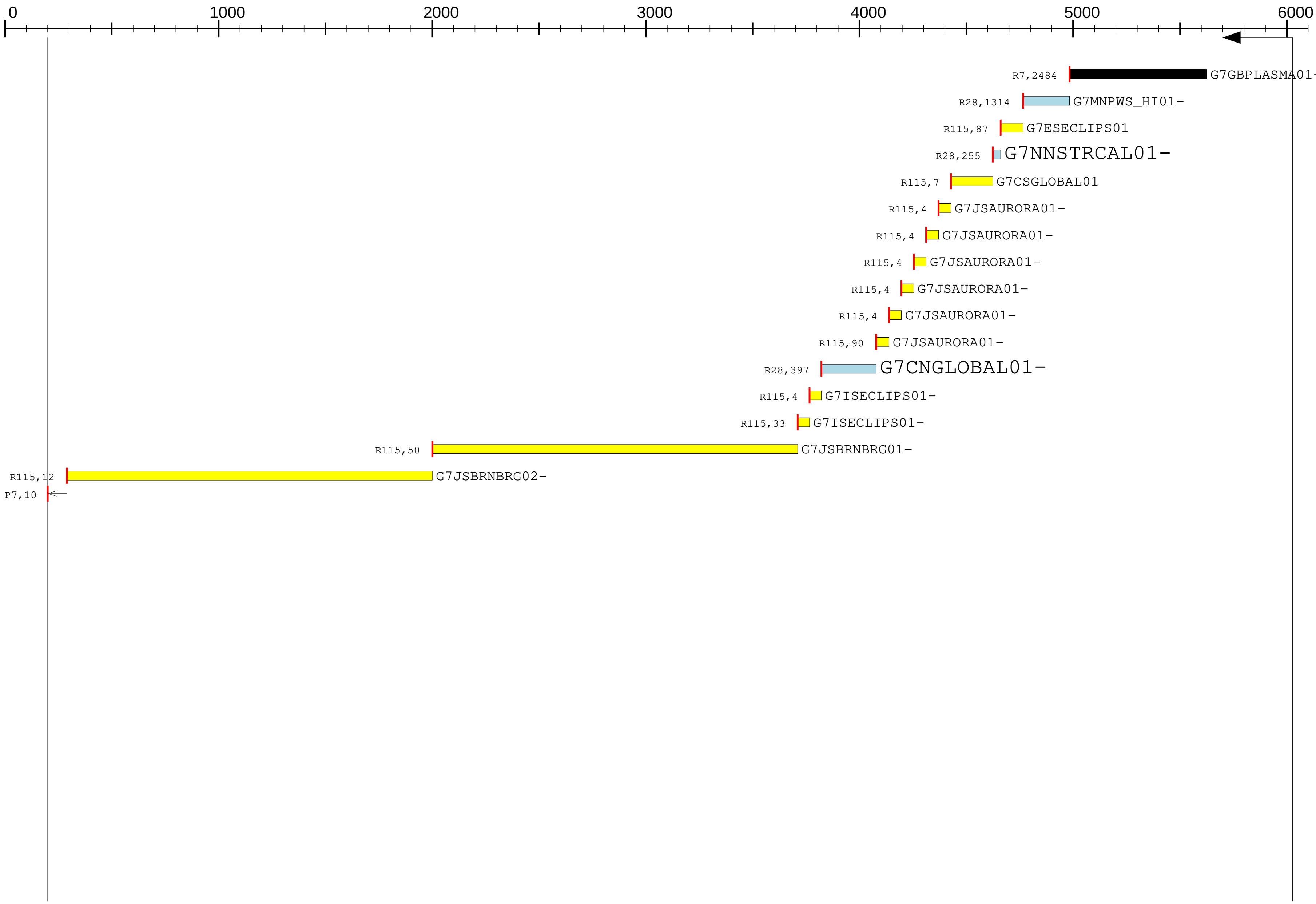
NIMS G7 OBSERVING GEOMETRY

OAPEL	Latitude (deg)	Longitude (deg)	Range (km)	Cone (deg)	Light (deg)	View (deg)	Phase (deg)
G7GNBRITRL01	25 to 30	293 to 305	22K to 24K	96	27 to 29	64 to 75	73
G7GNKITTU_01	-2 to +2	333 to 340	8K to 13K	74 to 90	35 to 43	41 to 69	81 to 98
G7GNGLOBAL02	-60 to +50	229 to 284	222K	70	35 to 86	40 to 90	120
G7JNFEA13001	10 to 17	42 to 76	1330K	55	47 to 80	57 to 90	134
G7JNFEA13002	10 to 18	55 to 90	1344K	54	48 to 83	54 to 90	135
G7JNPFB13001	40 to 50	61 to 94	1354K	54	67 to 91	60 to 83	135
G7JNTHRMNS01	-90 to +90	3 to 134	1385K	54	87 to 140	4 to 91	135
G7JNFEA14201	10 to 18	43 to 82	1626K	44	57 to 96	52 to 90	145
G7JNPFC14201	10 to 30	51 to 89	1634K	44	59 to 95	54 to 90	146
G7JNPFB14201	35 to 50	60 to 98	1645K	44	66 to 95	63 to 90	145
G7JNPFB15001	10 to 20	40 to 80	1896K	36	65 to 104	51 to 90	153
G7JNPFC15001	14 to 30	44 to 84	1900K	36	66 to 104	52 to 90	153
G7JNFEA15003	32 to 55	52 to 93	1911K	36	71 to 102	62 to 90	153
G7JNFEZ15701	5 to 25	125 to 166	1958K	35	66 to 107	50 to 90	155
G7JNFEZ15702	5 to 25	139 to 174	1966K	35	66 to 100	56 to 90	155
G7JNFEZ15703	5 to 25	139 to 174	1972K	35	66 to 100	56 to 90	155

Phase 2A Tapemap of g07a12g.tapemap-c
Date: Thu Apr 3 16:14:09 1997 Page: 1

Track 4

G7

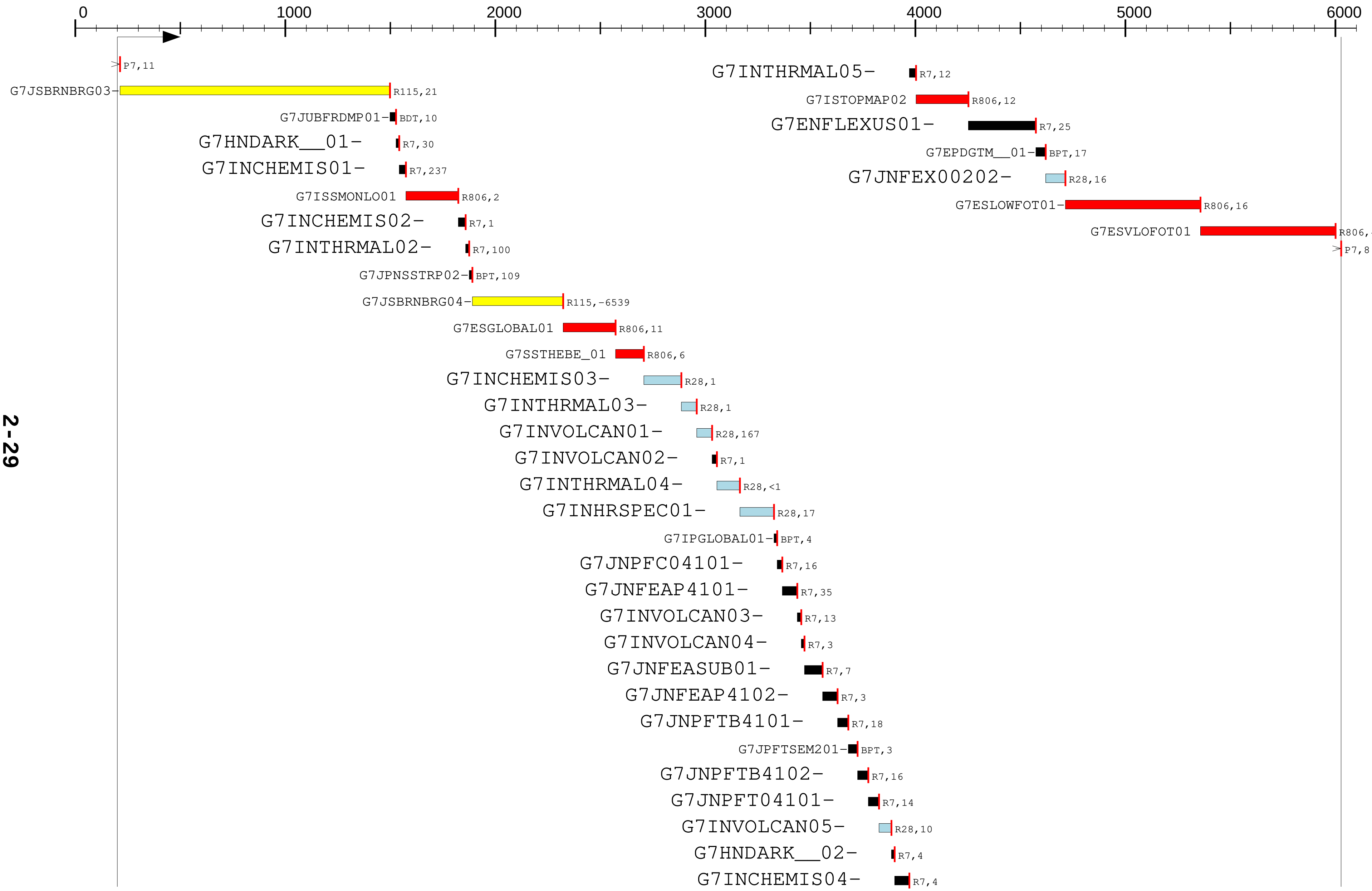


J.Culwell, 31-Dec-96, v0.02

Phase 2A Tapemap of g07a12g.tapemap-c
Date: Thu Apr 3 16:14:09 1997 Page: 2

Track 1

G7

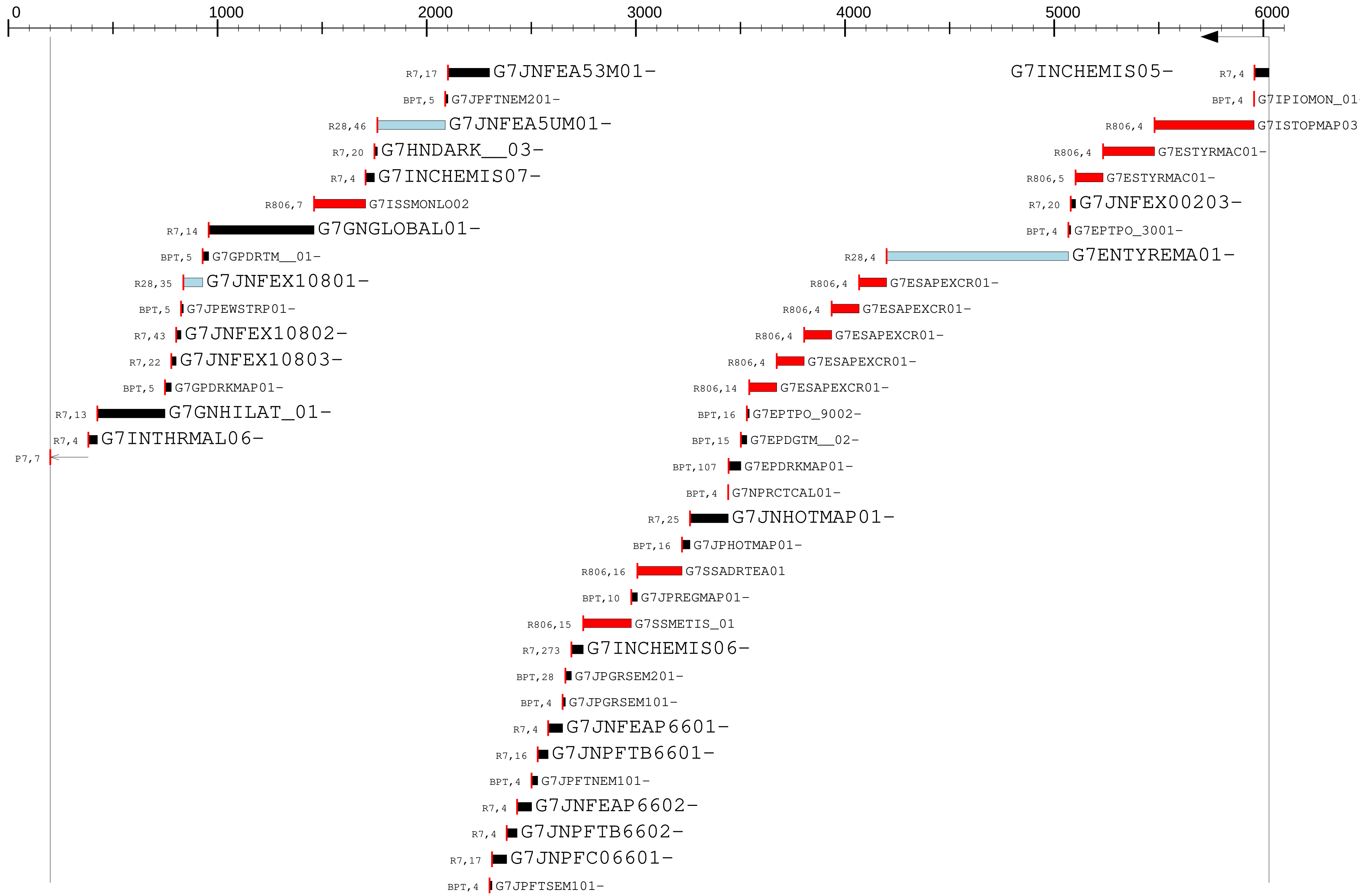


J.Culwell, 31-Dec-96, v0.02

Phase 2A Tapemap of g07a12g.tapemap-c
Date: Thu Apr 3 16:14:09 1997 Page: 3

Track 2

G7

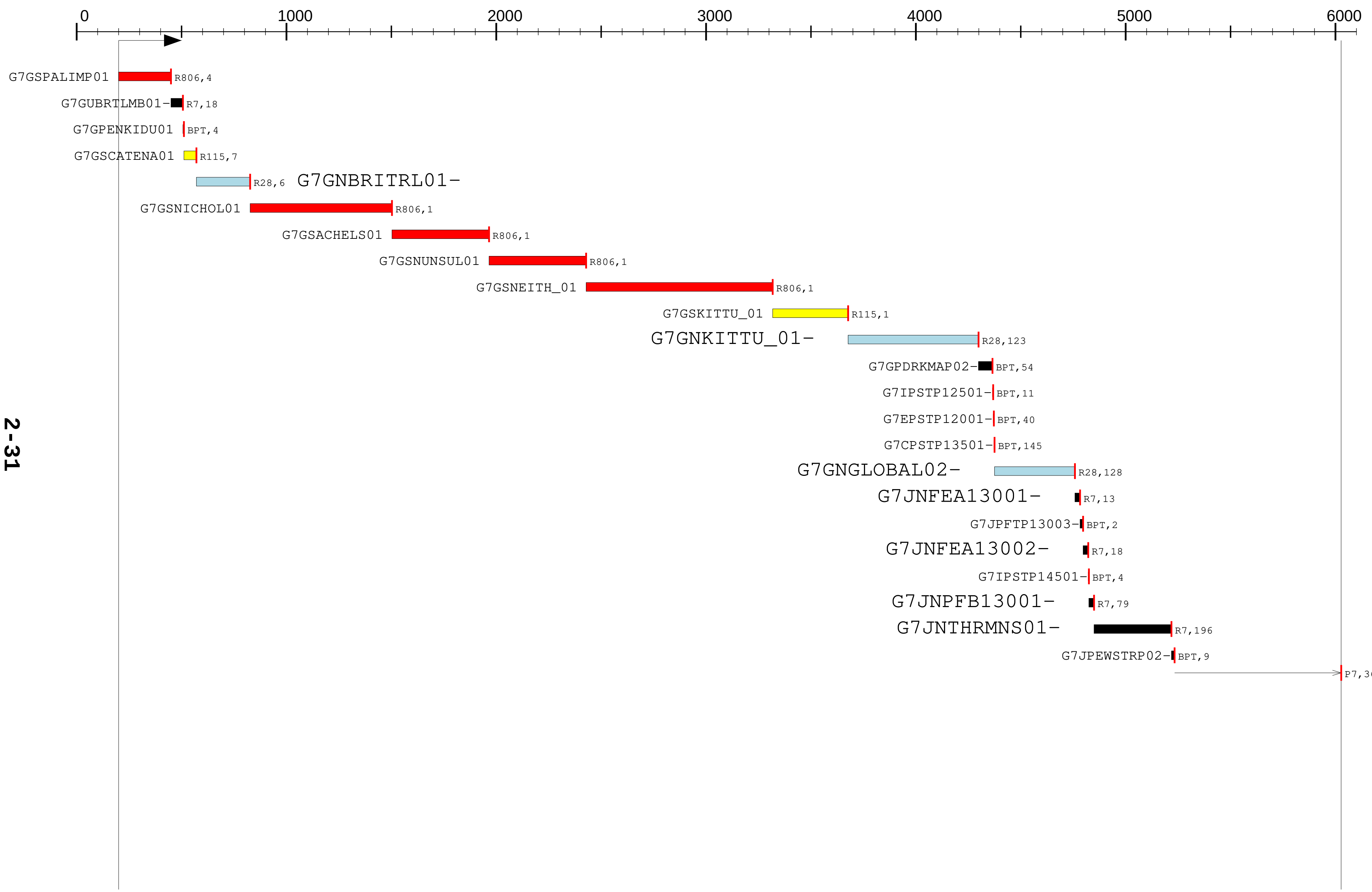


J.Culwell, 31-Dec-96, v0.02

Phase 2A Tapemap of g07a12g.tapemap-c
Date: Thu Apr 3 16:14:09 1997 Page: 4

Track 3

G7

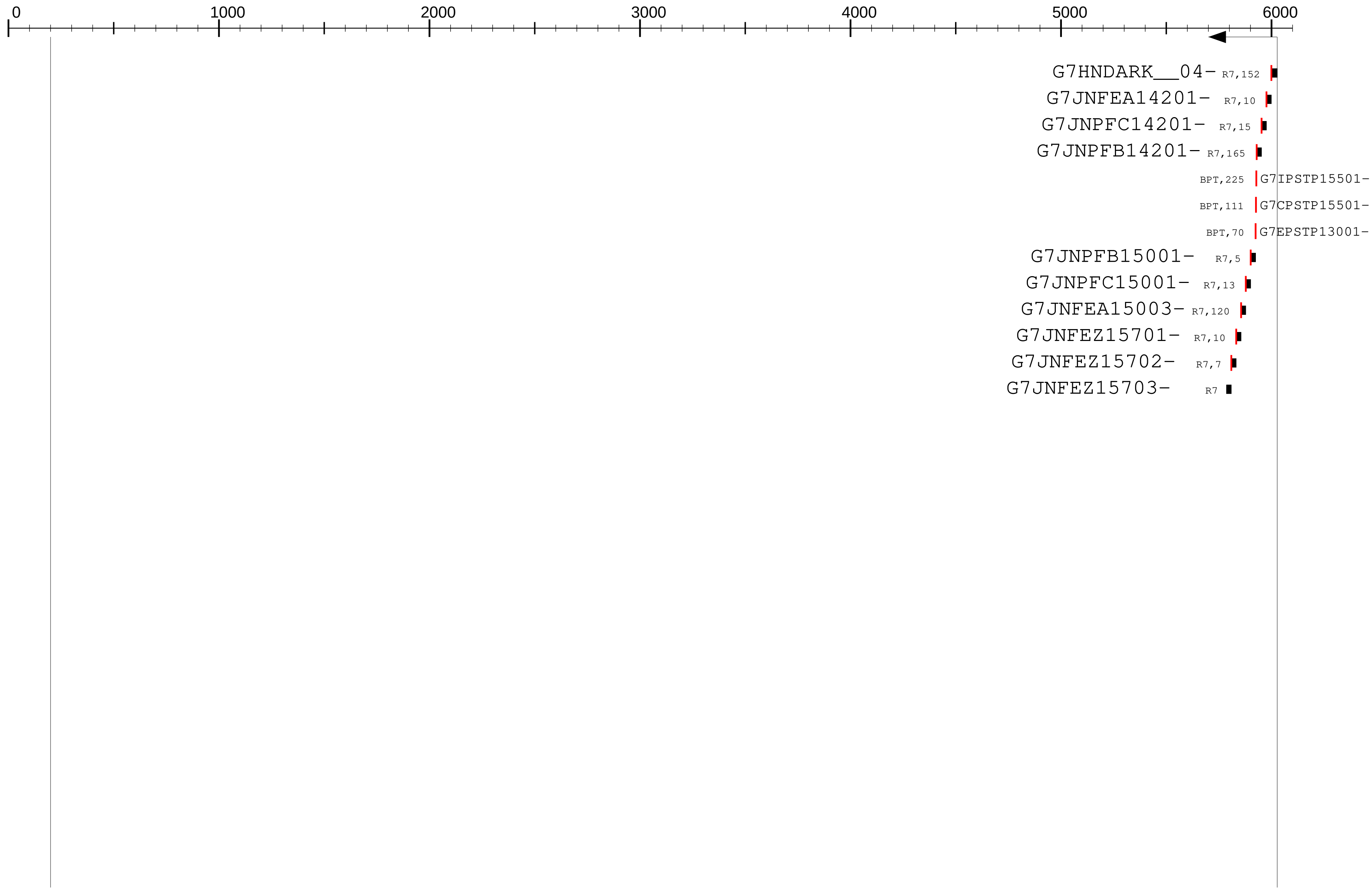


J.Culwell, 31-Dec-96, v0.02

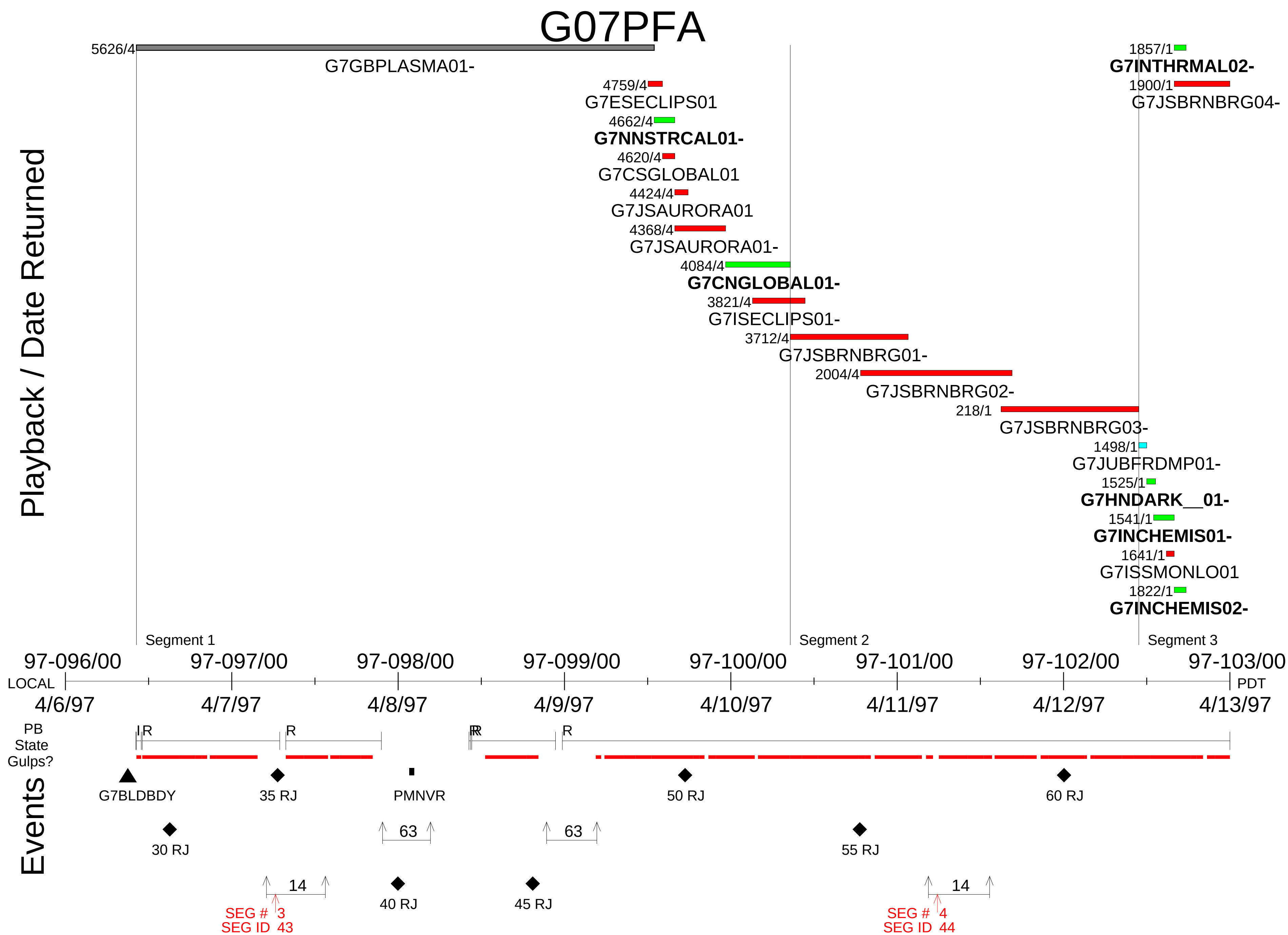
Phase 2A Tapemap of g07a12g.tapemap-c
Date: Thu Apr 3 16:14:09 1997 Page: 5

Track 4

G7



J.Culwell, 31-Dec-96, v0.02



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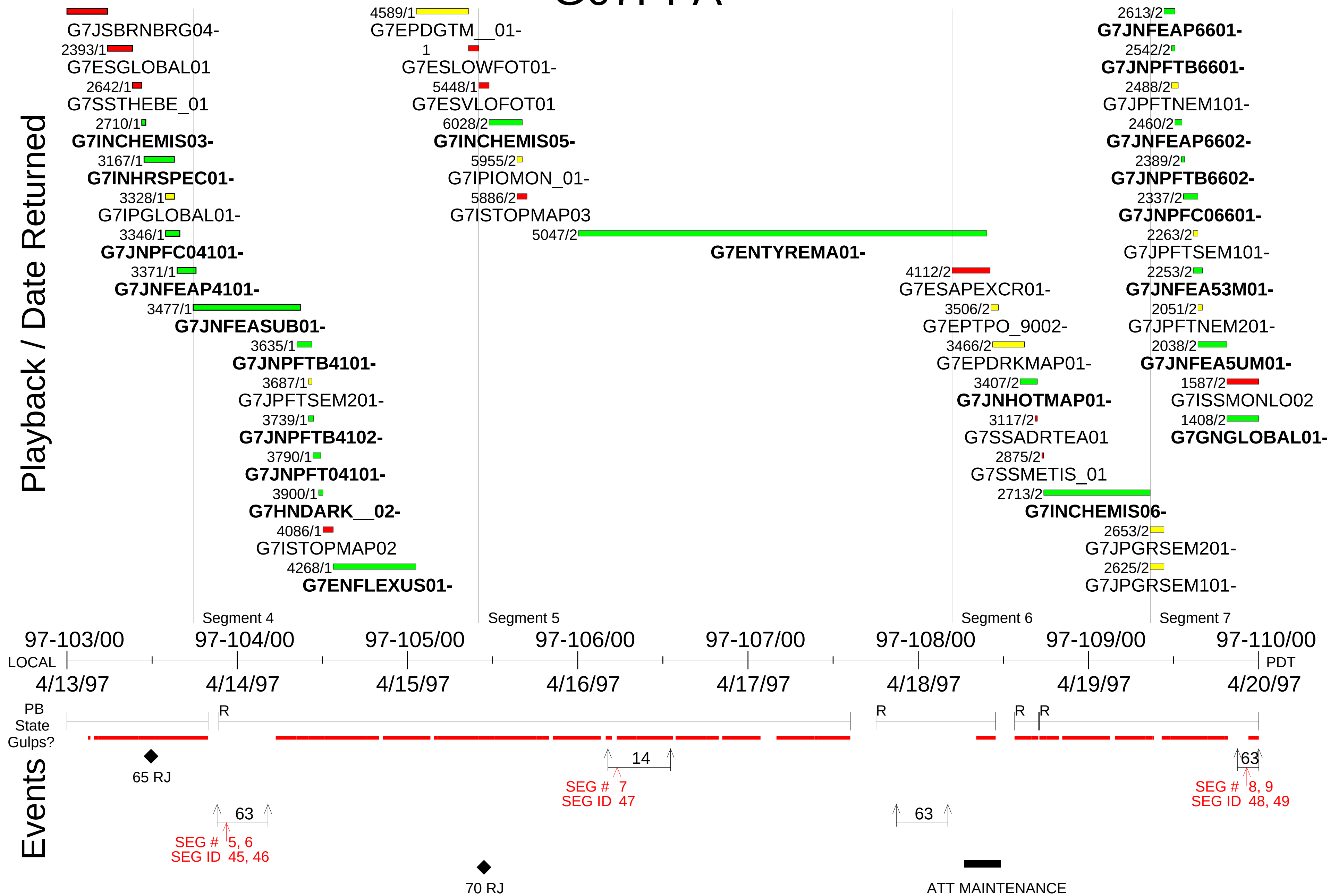
Mon Mar 31 12:18:40 1997, Page 1 of 4

G07PFA



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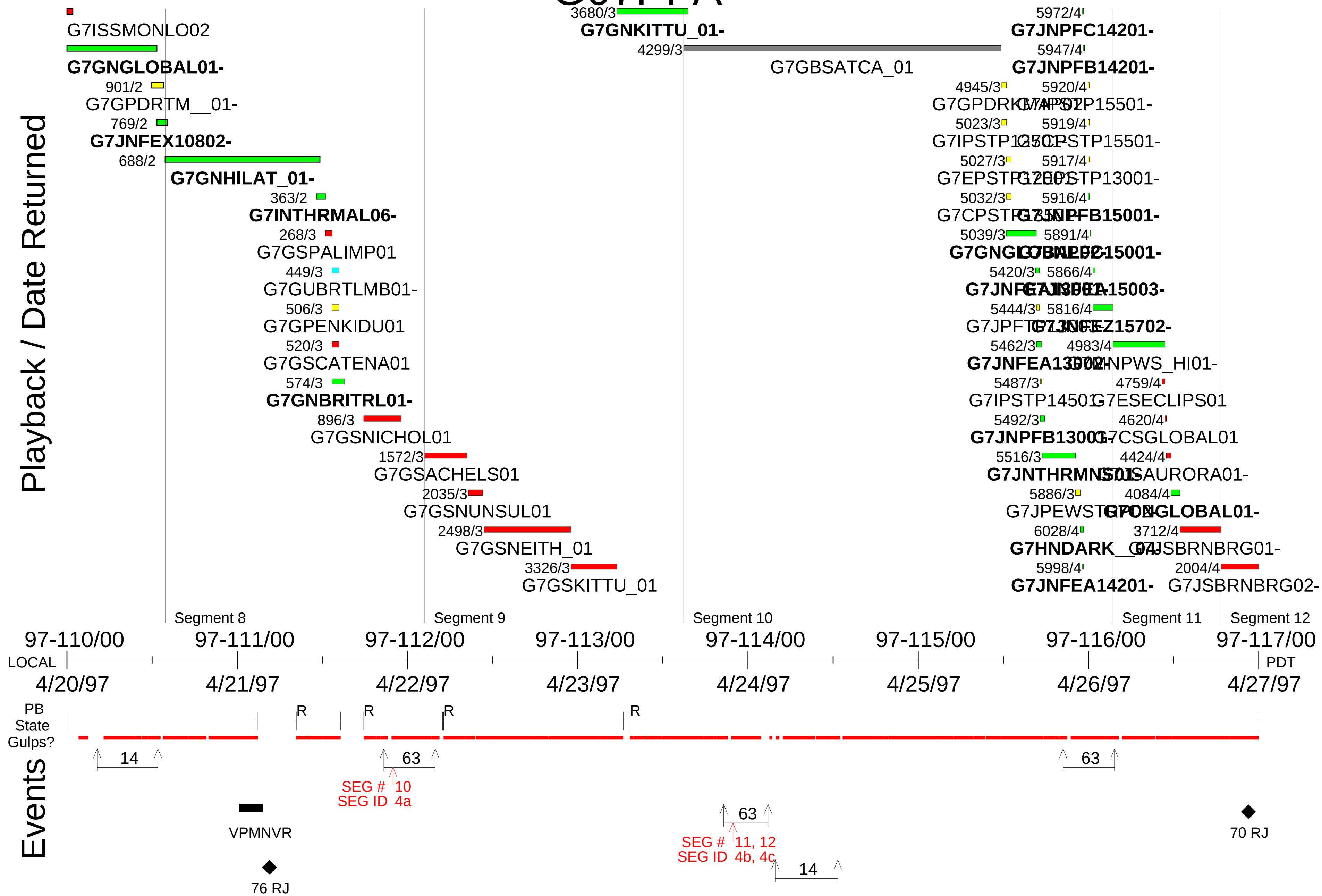
Mon Mar 31 12:18:40 1997, Page 2 of 4

G07PFA



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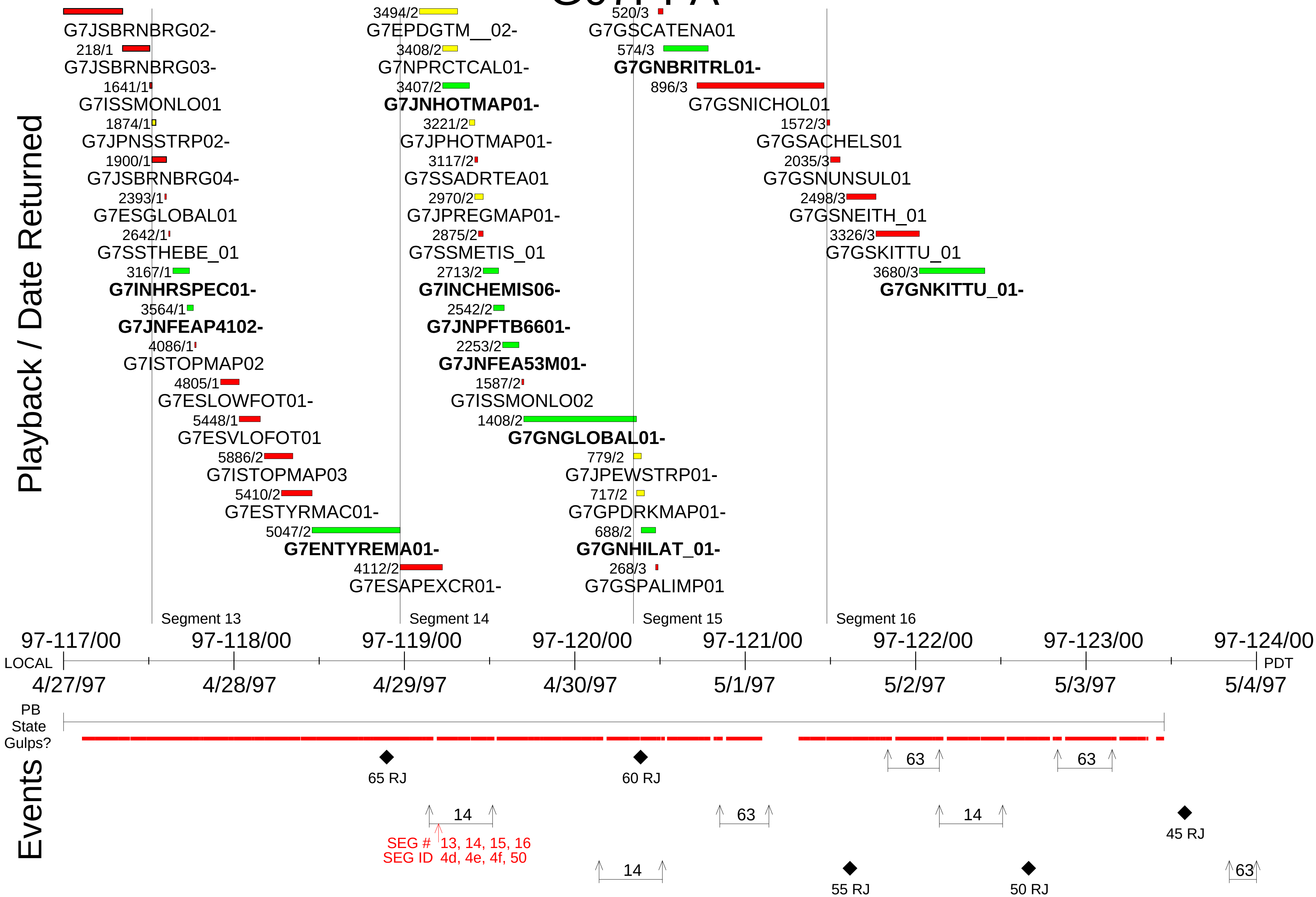
Mon Mar 31 12:18:40 1997, Page 3 of 4

G07PFA



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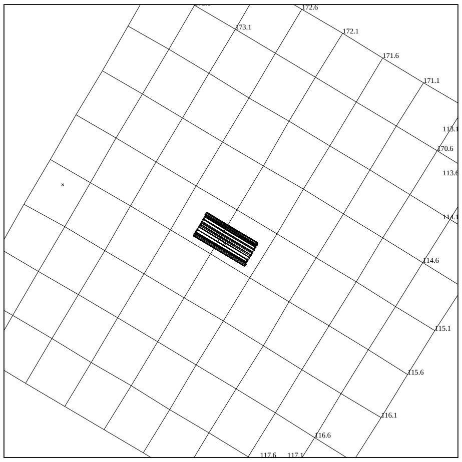
Mon Mar 31 12:18:40 1997, Page 4 of 4

G7 NIMS A



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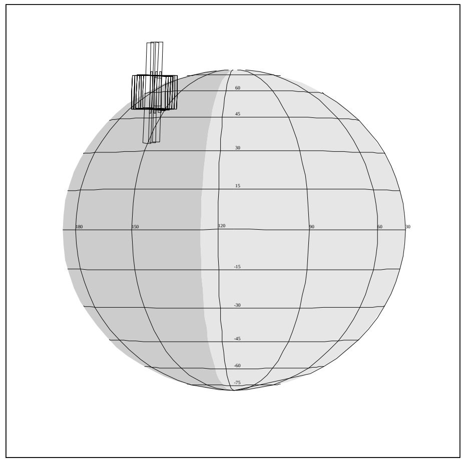

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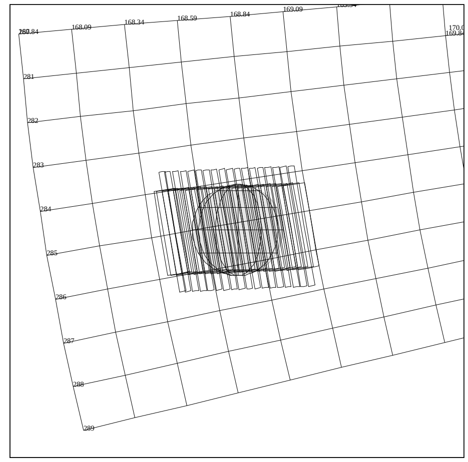

G7CNGLOBAL01
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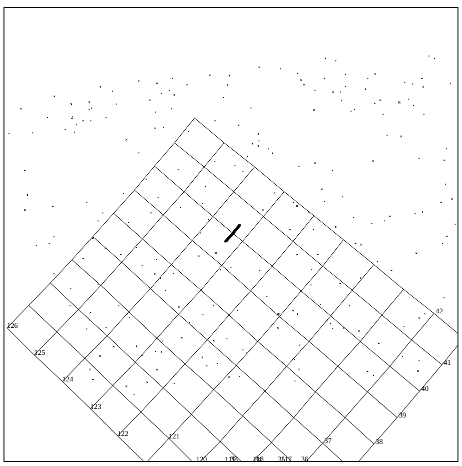

G7HNDARK__01
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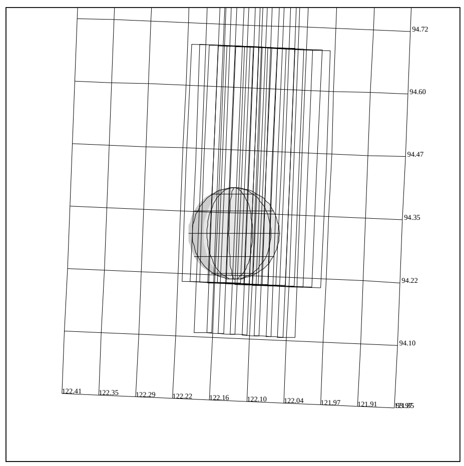

G7INCHEMIS01
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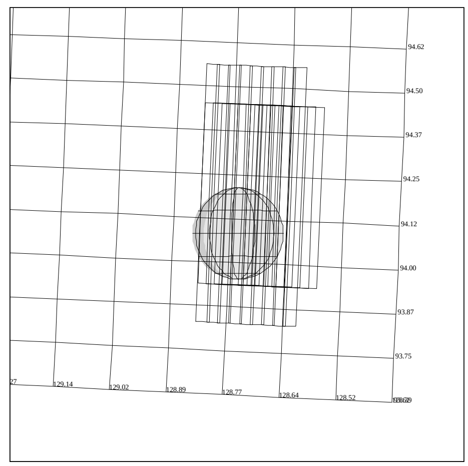
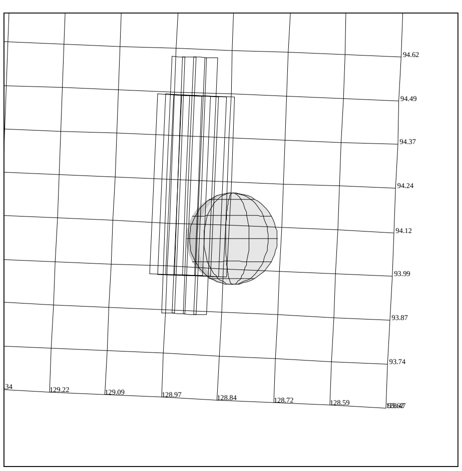


G7INCHEMIS02
97-093/09:11:45



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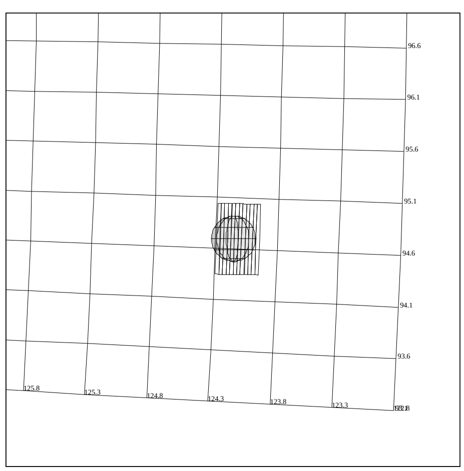

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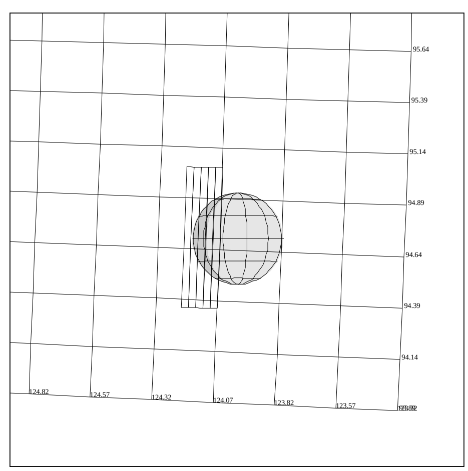
97-093/17:55:30



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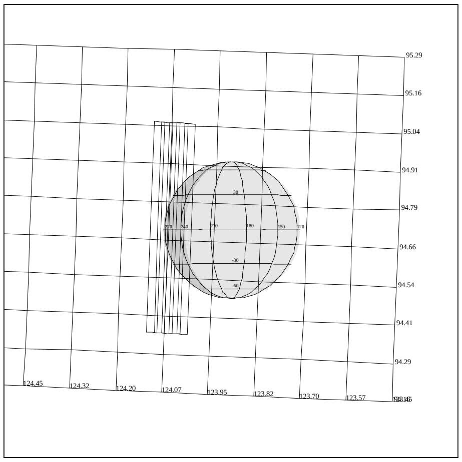
97-093/18:04:09

G7 NIMS B



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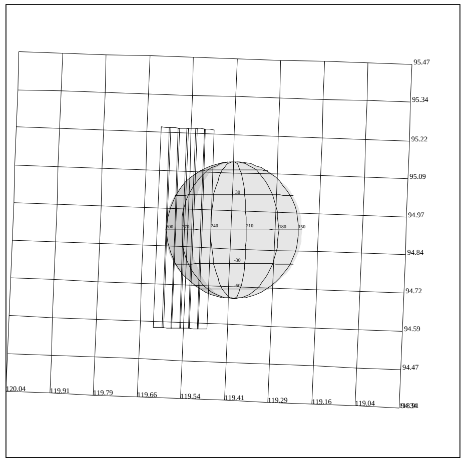
97-093/18:07:20



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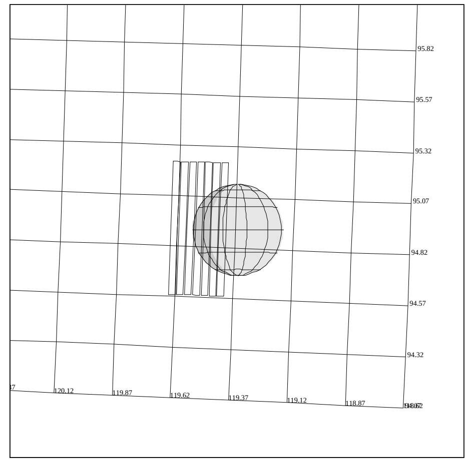
97-093/20:53:14



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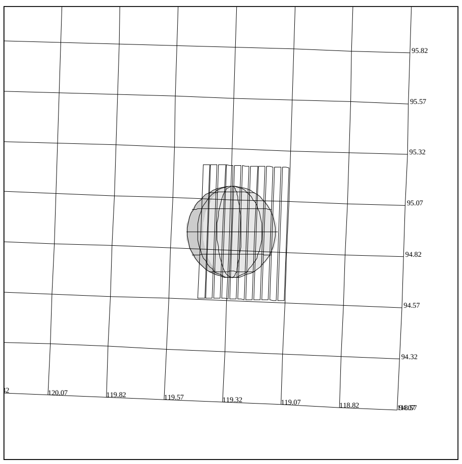
97-093/20:59:21



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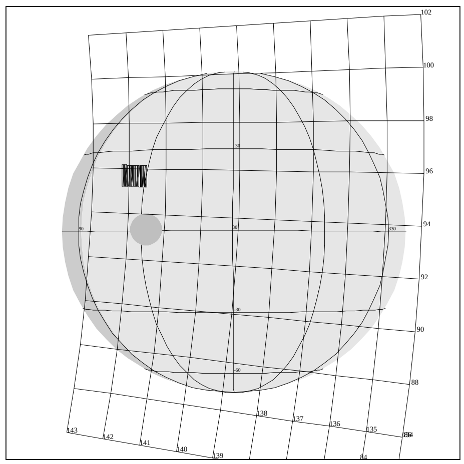

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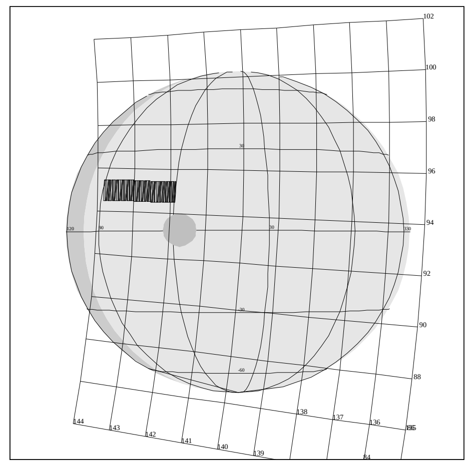

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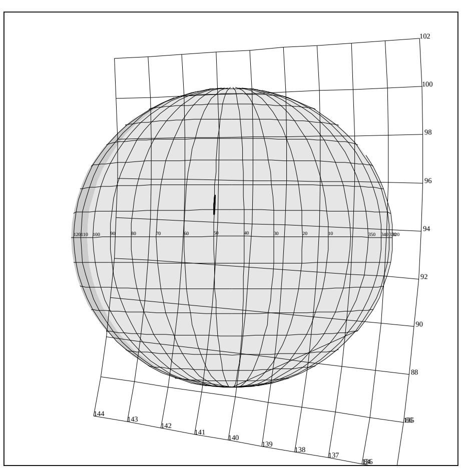

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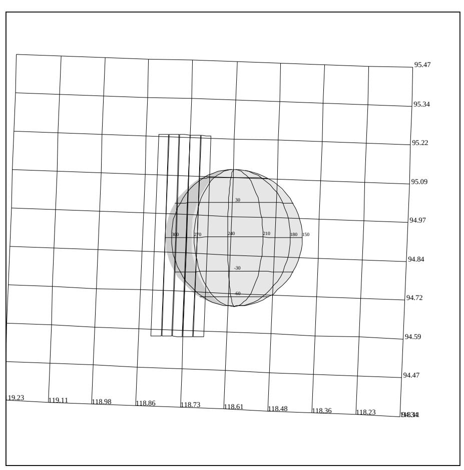

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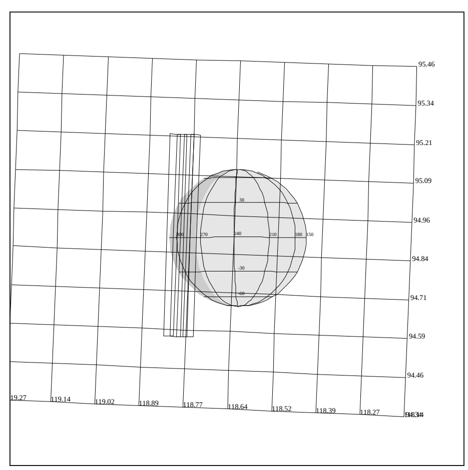

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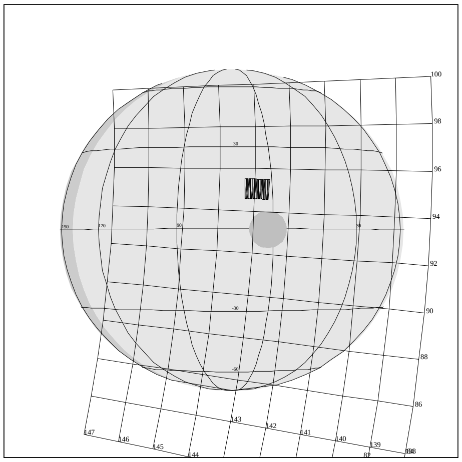
G7 NIMS C



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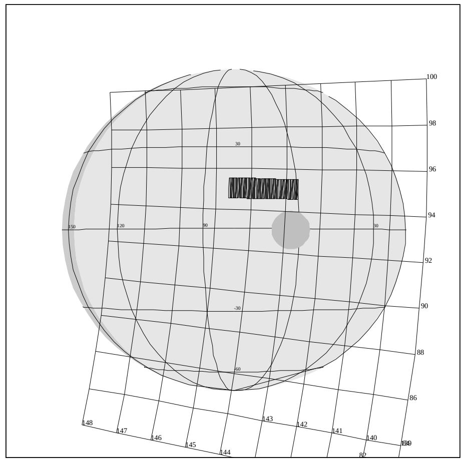

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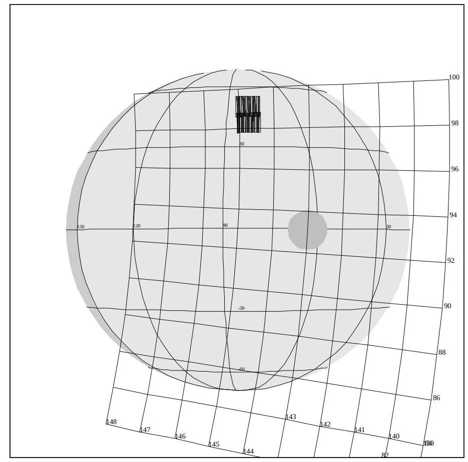

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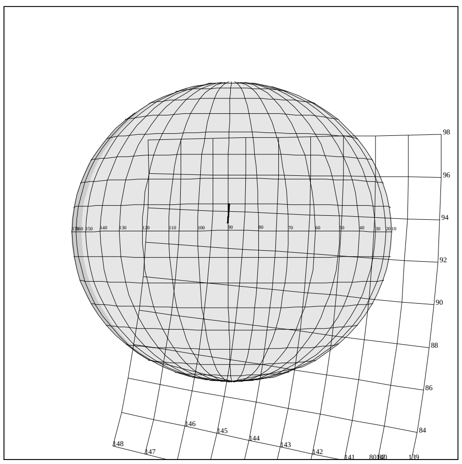

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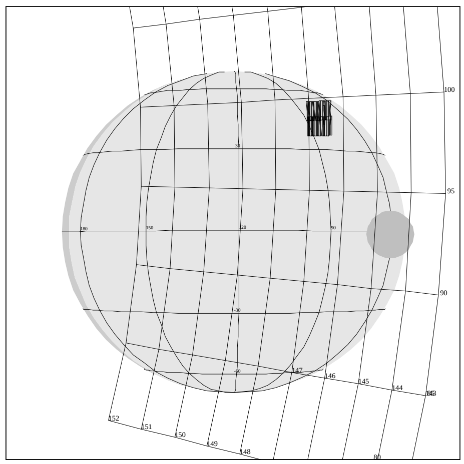

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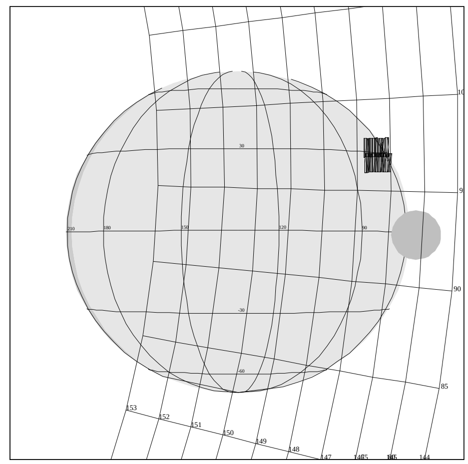

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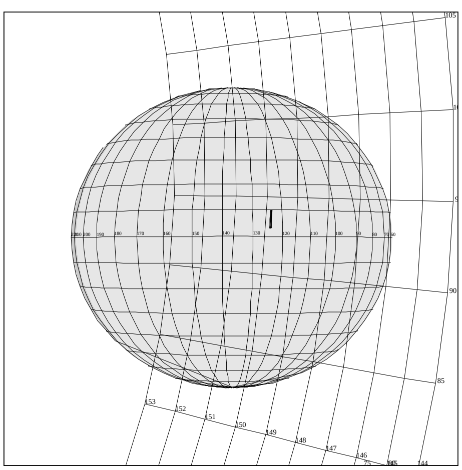

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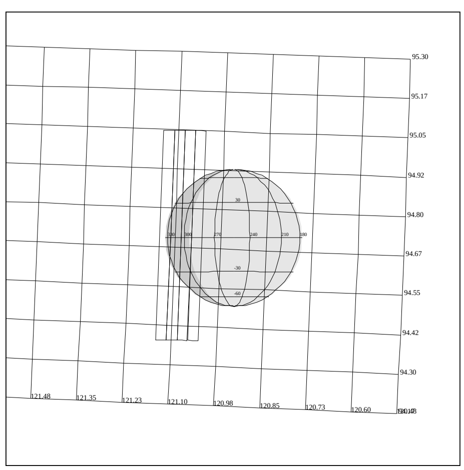

G7INVOLCAN05
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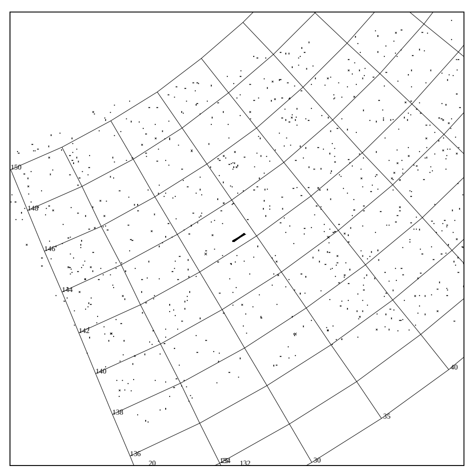

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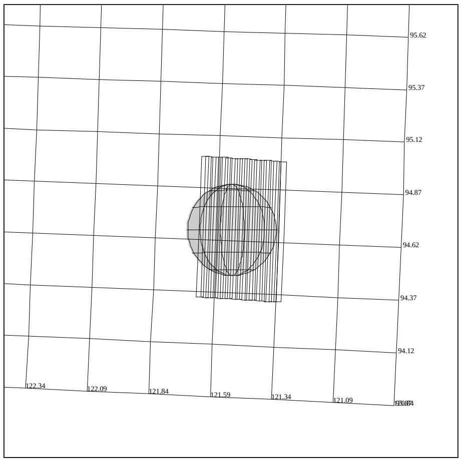
G7 NIMS D



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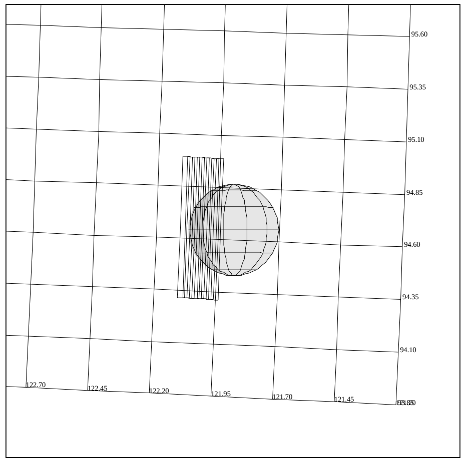
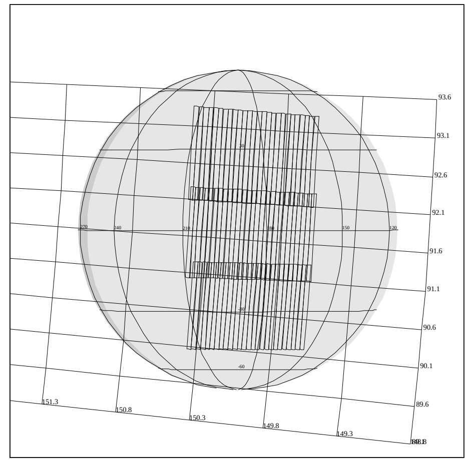


G7INTHRMAL05
97-094/01:27:21



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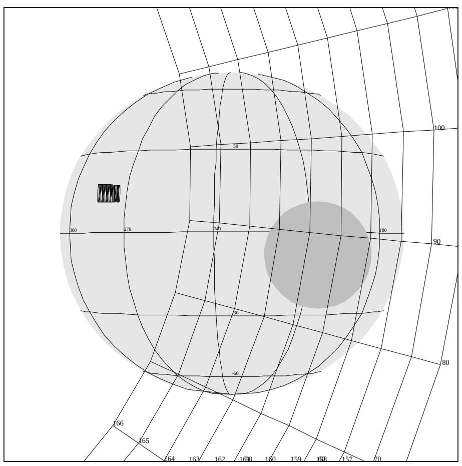

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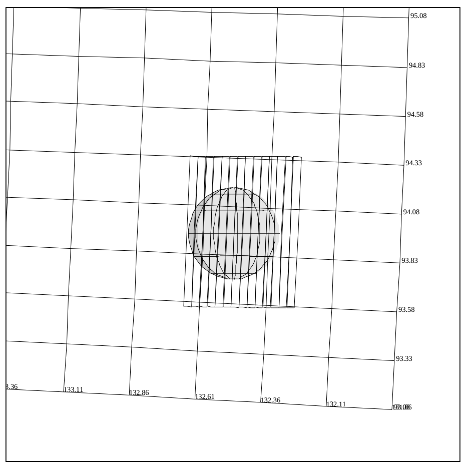
97-094/03:52:03



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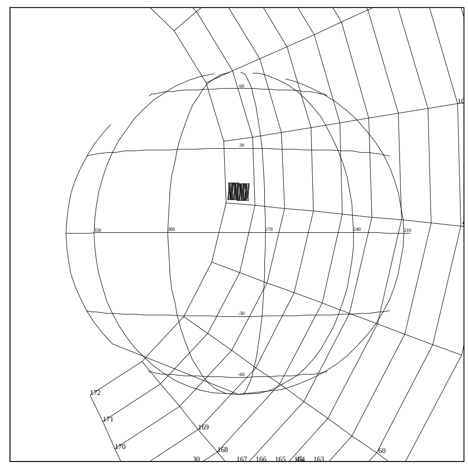
97-094/04:47:40



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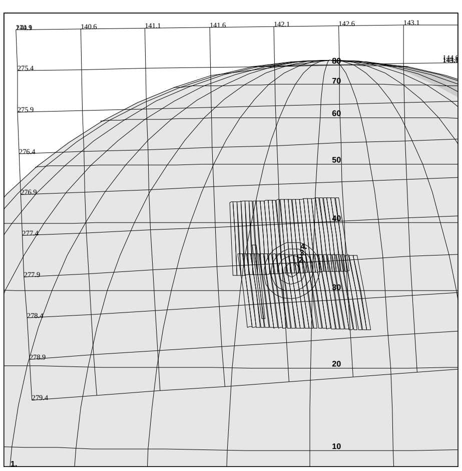

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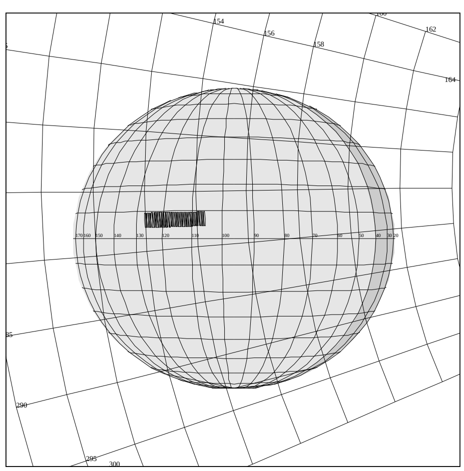

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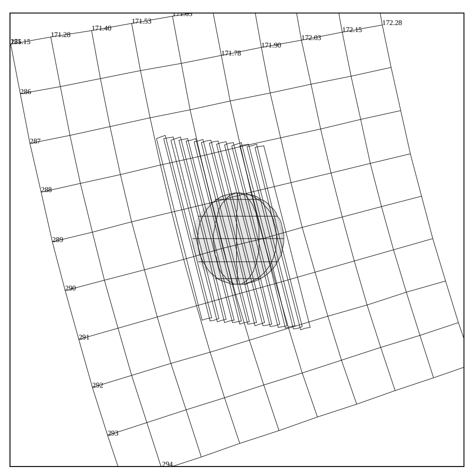
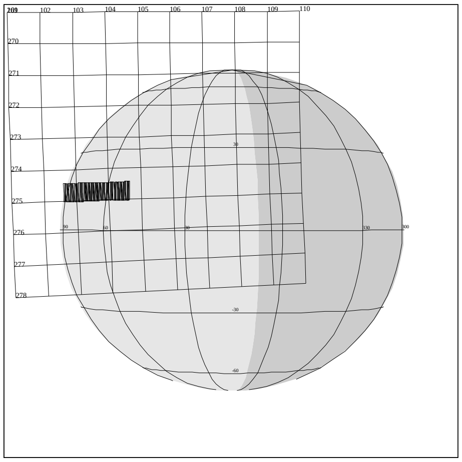
97-094/11:05:43



G7INCHEMIS06
97-094/14:08:43

G7 NIMS E



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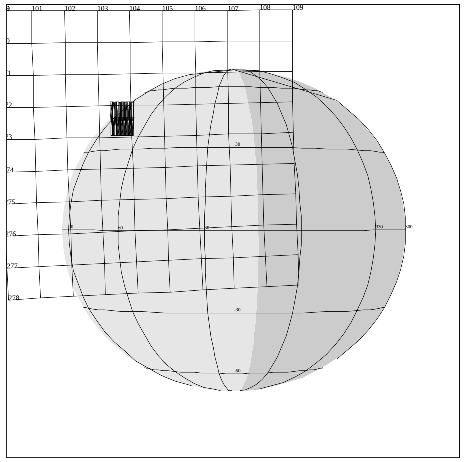
97-094/20:05:45



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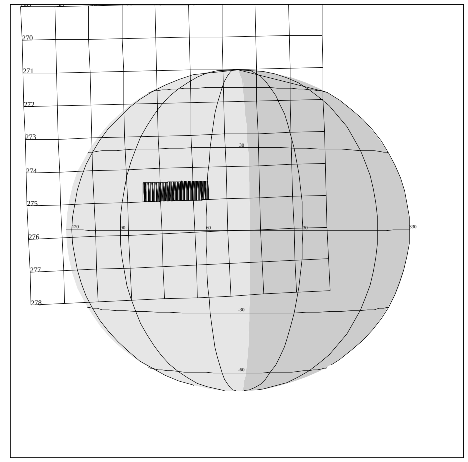
97-094/20:18:00



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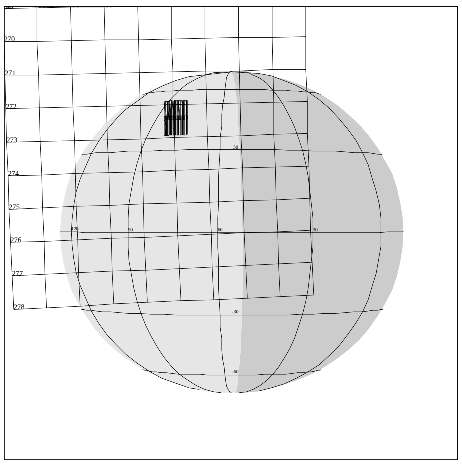
97-094/21:12:29



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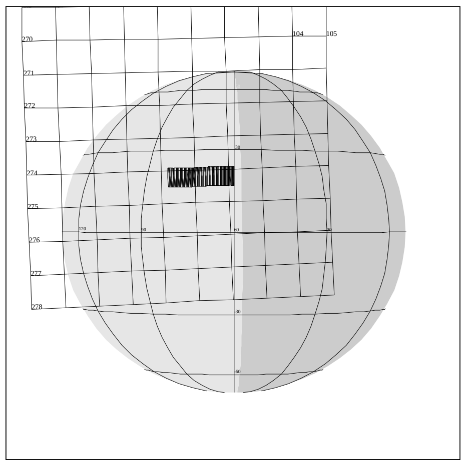

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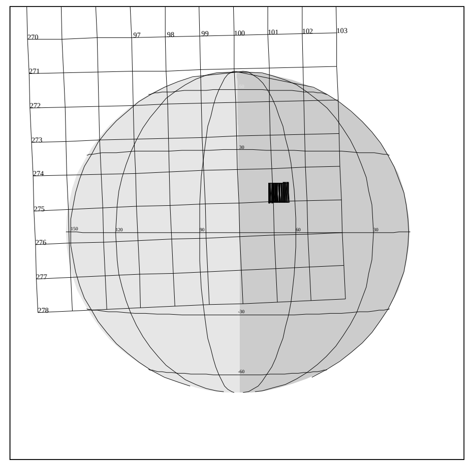

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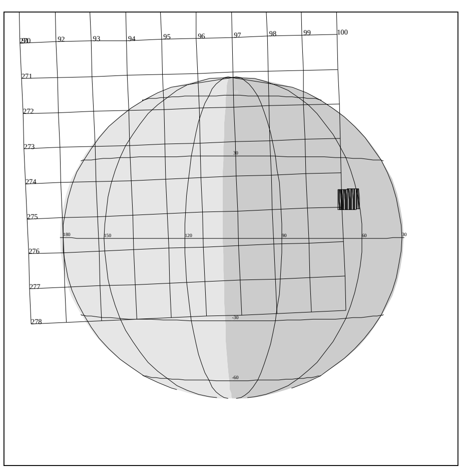
97-094/22:04:03



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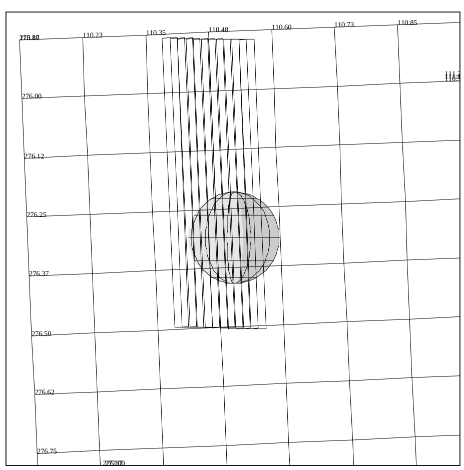

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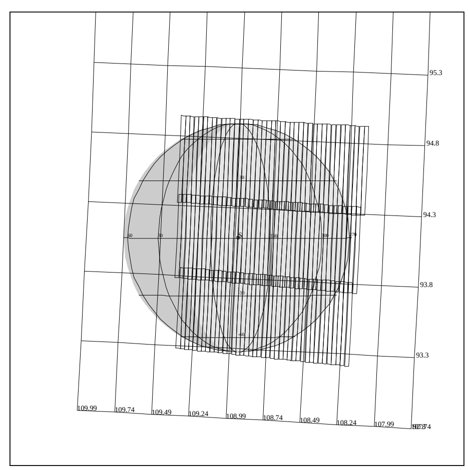

G7GNGLOBAL01
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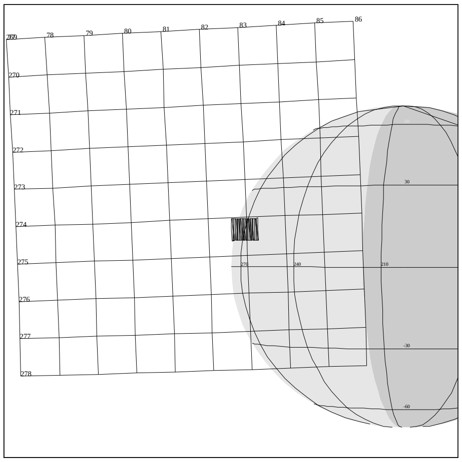
G7 NIMS F



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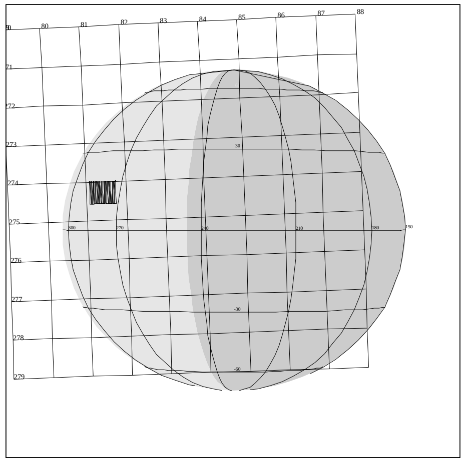

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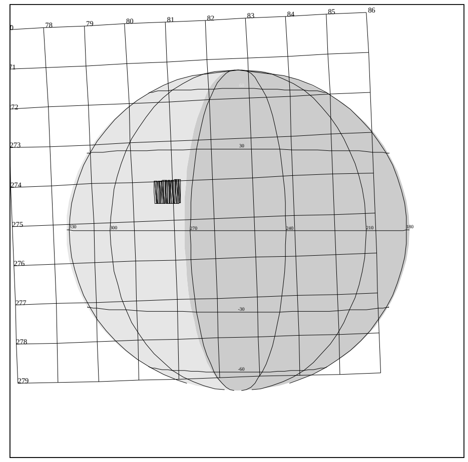

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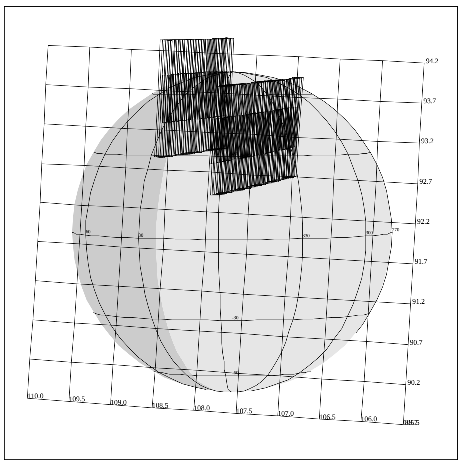

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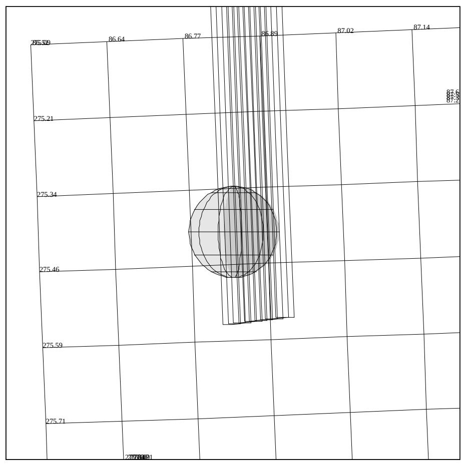

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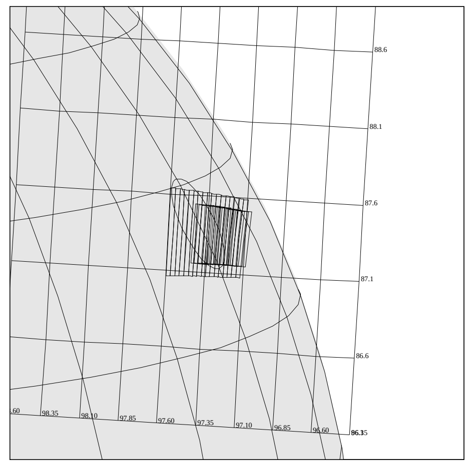

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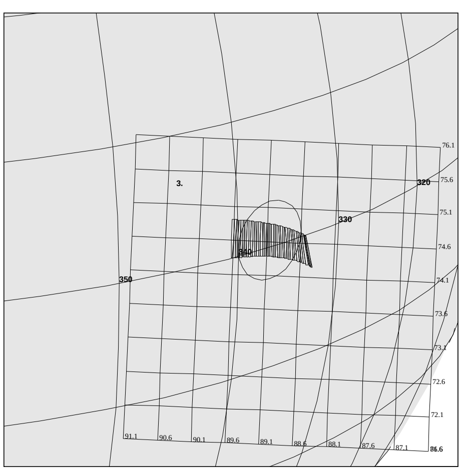

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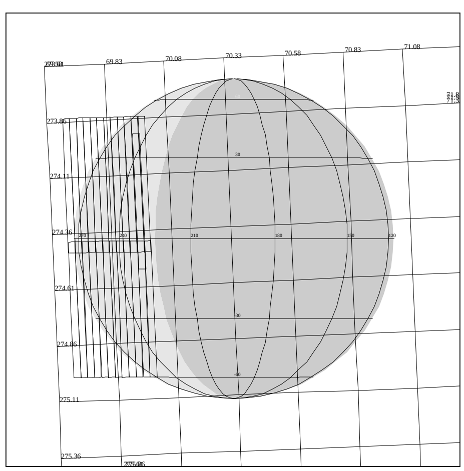

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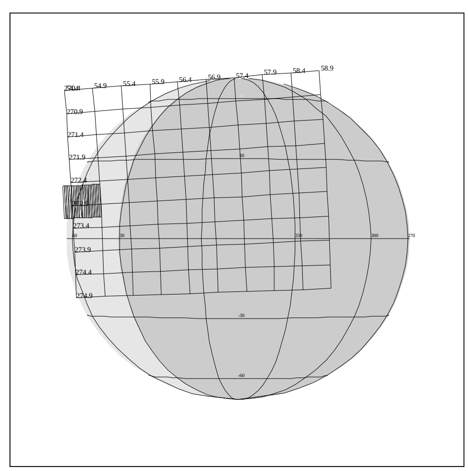

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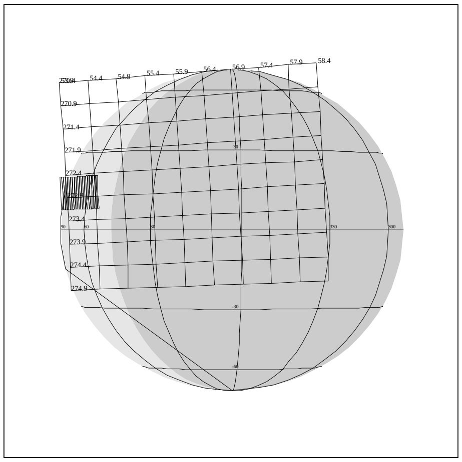

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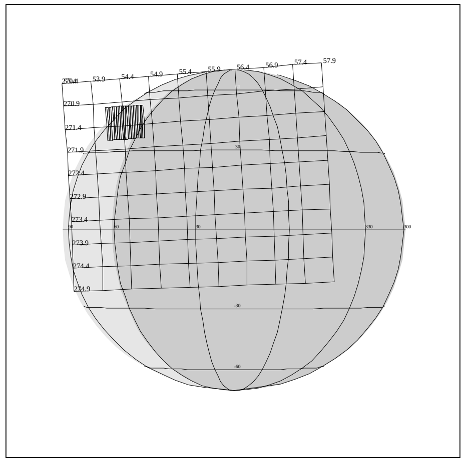

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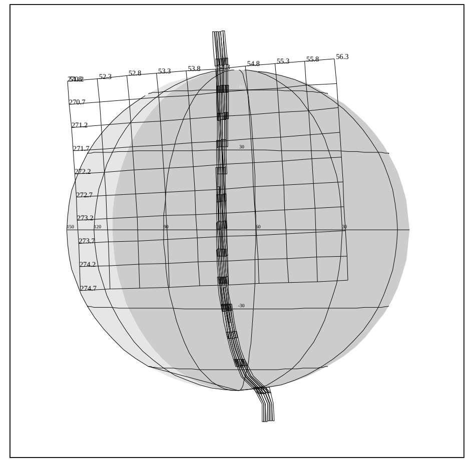

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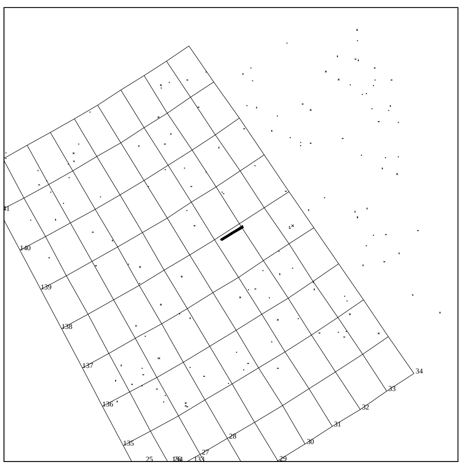
97-095/18:48:44



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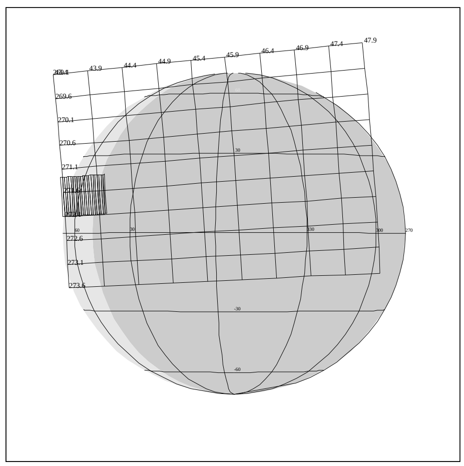

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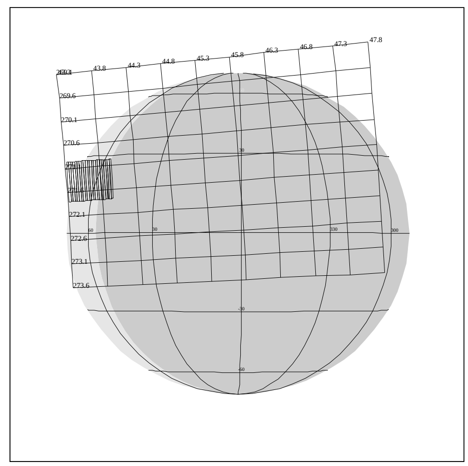

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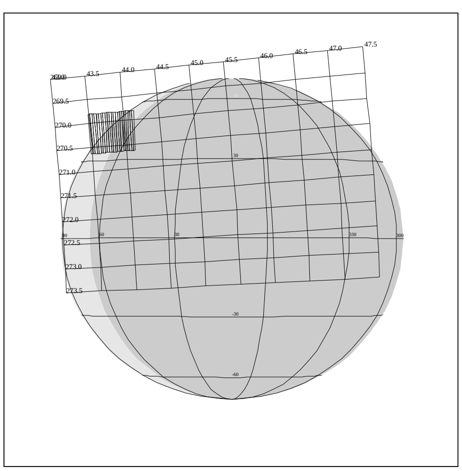

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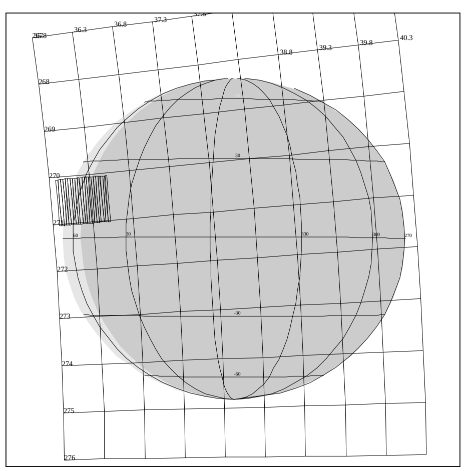

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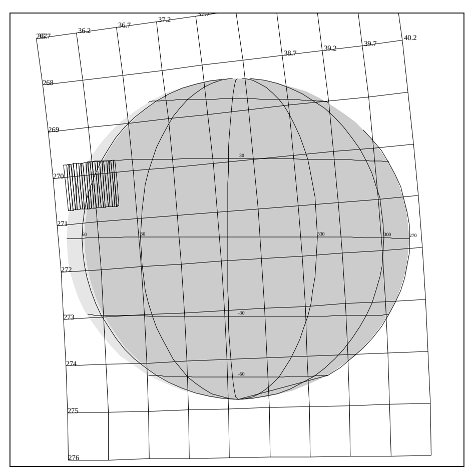

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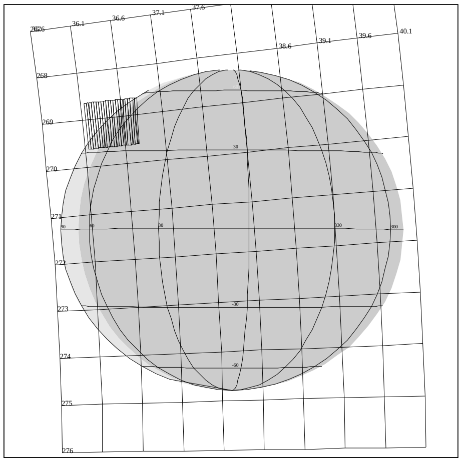
97-096/13:12:39

G7 NIMS H



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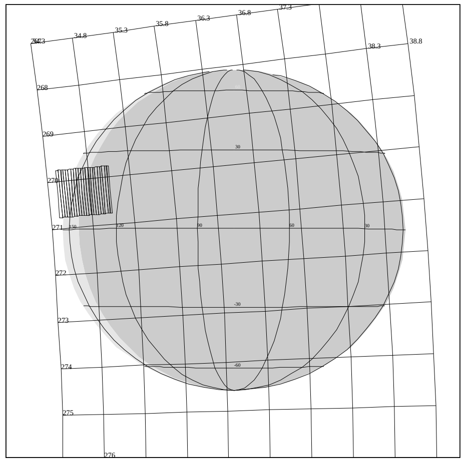

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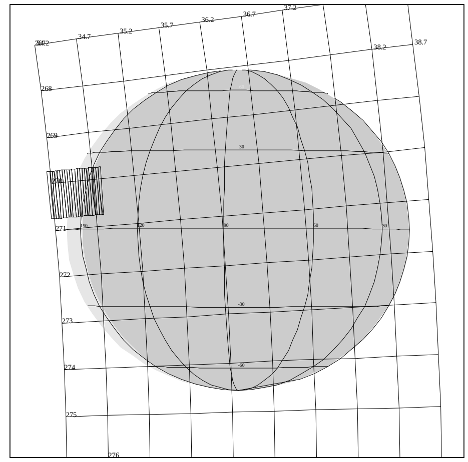

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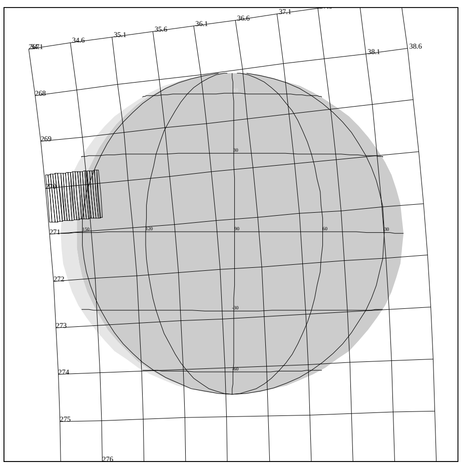

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