Chapter 2 - Orbit Overview

Contents

Introduction to Chapter 2

This chapter gives an overview of the NIMS observations in the C10 Orbit.

The text on pages 3 and 4 summarizes the NIMS science objectives for C10. The NIMS calibrations are discussed on page 4. Early data return and C10 playback are also discussed on page 4.

The table on pages 5 through 7 is a time-ordered listing of the NIMS Oapels for C10.

The plot on page 8 shows the geometry of the NIMS C10 observations using a north trajectory pole view projection. The plots on pages 9 and 10 show the geometry of the NIMS Satellite and Jupiter observations. The plot on page 11 shows the geometry of the NIMS C10 calibrations. The plot on page 12 shows the geometry of the NIMS RAM Reloads and MROs.

The spreadsheet on pages 13 through 15 summarizes the various inputs for the NIMS C10 Observations. The spreadsheet on pages 16 through 19 summarizes the resource usage for the NIMS C10 observations.

The table on pages 20 through 23 lists various NIMS C10 observing parameters: target latitude/longitude, range, cone angle, incidence angle (light), emission angle (view) and phase angle.

The tapemap on pages 24 through 30 shows the placement of the C10 observations on the spacecraft's tape recorder. The NIMS observation names are written with a larger type.

The timeline on pages 31 through 37 shows the preliminary C10 playback schedule.

The NIMS C10 mosaic designs are summarized on pages 38 through 45 in time-order.

NIMS C10 SCIENCE OVERVIEW

Jupiter Science

NIMS atmospheric investigations concentrate on the Jovian poles during C10. Aurora and polar haze are the main thrusts, with the North polar auroral zone (170 degrees West longitude, 65 degrees North latitude) constituting the Feature Campaign (FEAxxx, where xxx is the approximate phase angle.) Auroral emissions within this feature are mapped three times on both day (NPAURD) and night sides (NPAURN). At the South pole (0 degrees West longitude, 65 degrees South latitude) aurora emissions are also mapped three times on both day (SPAURD) and night sides (SPAURN). In addition, the entire North and South poles are mosaiced from about 13 Jupiter radii distance (NPOLEM and SPOLEM).

Specific phase angles mapped for the North polar feature track include 21, 41, 74, 99, 114 and 124 degrees. Seventeen observations are acquired, including two expanded feature track observations (FNP041), a darkside 3 and 5 micron observations (FEA5UM) and one sub-spectral map (FEASUB).

The hotspot-laden North Equatorial Belt is imaged four times (THRCYL), covering half of the NEB circumference.

There are also three realtime observations of Jupiter's hotspots (RTHOTS) centered at 6.5 degrees North latitude.

Io Science

The NIMS Io observations include five CHEMIS, three THRMAL, two VOLCAN and two high spatial and spectral resolution observations which include one dayside observation (HRSPEC) and one nightside observation (NSPEC). The CHEMIS observations are designed to observe the dayside of Io to look for chemical changes and variations in SO2 distribution. The THRMAL observations will look at the nightside of Io to detect and map hotspots, thermal anomalies and outbursts on the surface. The HRSPEC and NSPEC observations are hight resolution observations that will observe the day and night side, respectively, of Io. Finally, the two VOLCAN observations will monitor variations in volcanic activity of selected regions (i.e. Loki, Pelee and Kanekehili) using selected wavelengths.

Europa Science

One real-time observation of Europa is planned (EUR15). This observation is designed to look at Europa at an orbital distance beyond 15 Jupiter radii where the heavy radiation environment is less. This will allow a better measurement of the low signals beyond about 2.5 microns.

Ganymede Science

No Ganymede obseravtions are planned for C10.

NIMS C10 SCIENCE OVERVIEW

Callisto Science

There are 10 NIMS observation of Callisto in C10. Two Callisto global observations (GLOBAL) will obtain spatial and spectral resolution that cover all lit longitudes and latitudes of the leading hemisphere for use in determining surface mineralogy and the distrubution of compositional units due to asteroidal and/or cometary impacts sometime in Callisto’s past. ASGARD will observe Callisto’s Asgard region to investigate and determine compositional units. PALIMP is designed to observe Valhalla’s palimpsest region. Comparison studies will be conducted to determine compositional differences between this region and the surrounding surface. SMTHPL will be used to measure compositon of the smooth plain region to investigate the possibility of ancient volcanic flows and/or upwelling of subsurface material that might have formed the smooth plain region. VALHAL will observe Valhalla’s ring structure to obtain the highest resolution data possible to analyze the surface composition at the ring scarp bases. CATENA will observe a region that contains a crater chain believed to have been caused by cometary impact ala SL9. Two realtime Callisto observations are also planned (CALLRT) centered on the equatorial region. BRTLMB is a UVS ride-along limb-scan of Callisto to search for any atmosphere.

Small Satellite Science

In C10 NIMS will observe Amalthea, Metis and Adrastea with single scans in Long Map.

Calibration

There are four NIMS calibration observations in C10: one PCT cal, two RCT cals and one OPCAL. The PCT cal (PCTRLT) calibrates NIMS in the visible bands. The RCT cals (RCTRLT) calibrate NIMS in the thermal bands. The OPCAL calibrates the NIMS grating.

Early Data Return

There are 16 realtime NIMS observations in C10: 3 Jupiter hotspot observations (RTHOTS), two Callisto observations (CALLRT), one Europa observation (EUR15), six instrument health checks (HEALTH), one PCT cal (PCTRLT), two RCT cals (RCTRLT) and one OPCAL.

C10 Playback

C10 playback is split into two passes through the tape. NIMS will not record during Cruise.

C10 Time-Ordered Listing

OAPEL	Start (UTC)	End (UTC)	Duration
10NNCHOPON01	97-259/17:19:46	97-259/17:24:49	000/00:05:03
10CNGLOBAL01-	97-259/17:33:55	97-259/18:08:18	000/00:34:22
10CNCALLRT02-	97-259/18:09:18	97-259/18:21:26	000/00:12:08
10CXMOVBLK01	97-259/18:29:32	97-259/18:34:35	000/00:05:03
10CNCALLRT01-	97-259/20:36:56	97-259/20:45:01	000/00:08:05
10CNASGARD01-	97-259/23:57:08	97-260/00:09:16	000/00:12:08
10CNBRTLMB01+	97-260/00:20:23	97-260/00:27:28	000/00:07:04
10CNPALIMP01-	97-260/00:27:28	97-260/00:34:32	000/00:07:04
10CNSMTHPL01-	97-260/00:35:33	97-260/00:49:42	000/00:14:09
10CNVALHAL01-	97-260/00:50:43	97-260/01:02:51	000/00:12:08
10CNCATENA01-	97-260/01:24:05	97-260/01:58:28	000/00:34:22
10CXMOVBLK02	97-260/05:26:45	97-260/05:31:48	000/00:05:03
10NNRELOAD01-	97-260/05:56:04	97-260/06:06:11	000/00:10:06
10ENEUR15_01-	97-260/06:17:18	97-260/06:40:33	000/00:23:15
10CNGLOBAL02-	97-260/06:42:35	97-260/07:13:56	000/00:31:20
10INCHEMIS01-	97-261/07:46:06	97-261/07:53:11	000/00:07:04
10INCHEMIS08-	97-261/07:54:11	97-261/08:00:02	000/00:05:50
10JNNPOLEM06-	97-261/08:21:29	97-261/08:39:41	000/00:18:12
10NNRELOAD02-	97-261/09:08:00	97-261/09:18:07	000/00:10:06
10JNSPOLEM08-	97-261/09:28:13	97-261/09:44:24	000/00:16:10
10JNNPOLEM01-	97-261/09:44:24	97-261/10:02:36	000/00:18:12
10JNSPOLEM01-	97-261/10:23:50	97-261/10:42:02	000/00:18:12
10JNNPOLEM02-	97-261/10:59:13	97-261/11:17:25	000/00:18:12
10JNSPOLEM02-	97-261/11:38:39	97-261/11:56:51	000/00:18:12
10JNFEA04101-	97-261/12:02:55	97-261/12:12:01	000/00:09:06
10JNNPOLEM03-	97-261/12:14:03	97-261/12:32:15	000/00:18:12
10NNHEALTH01-	97-261/12:33:15	97-261/12:36:17	000/00:03:02
10JNSPOLEM03-	97-261/12:36:17	97-261/12:53:29	000/00:17:11
10JNNPAURD01-	97-261/12:56:31	97-261/13:27:51	000/00:31:20
10NNRELOAD03-	97-261/13:29:53	97-261/13:39:59	000/00:10:06
10JNFNP04101-	97-261/13:46:03	97-261/14:02:14	000/00:16:10

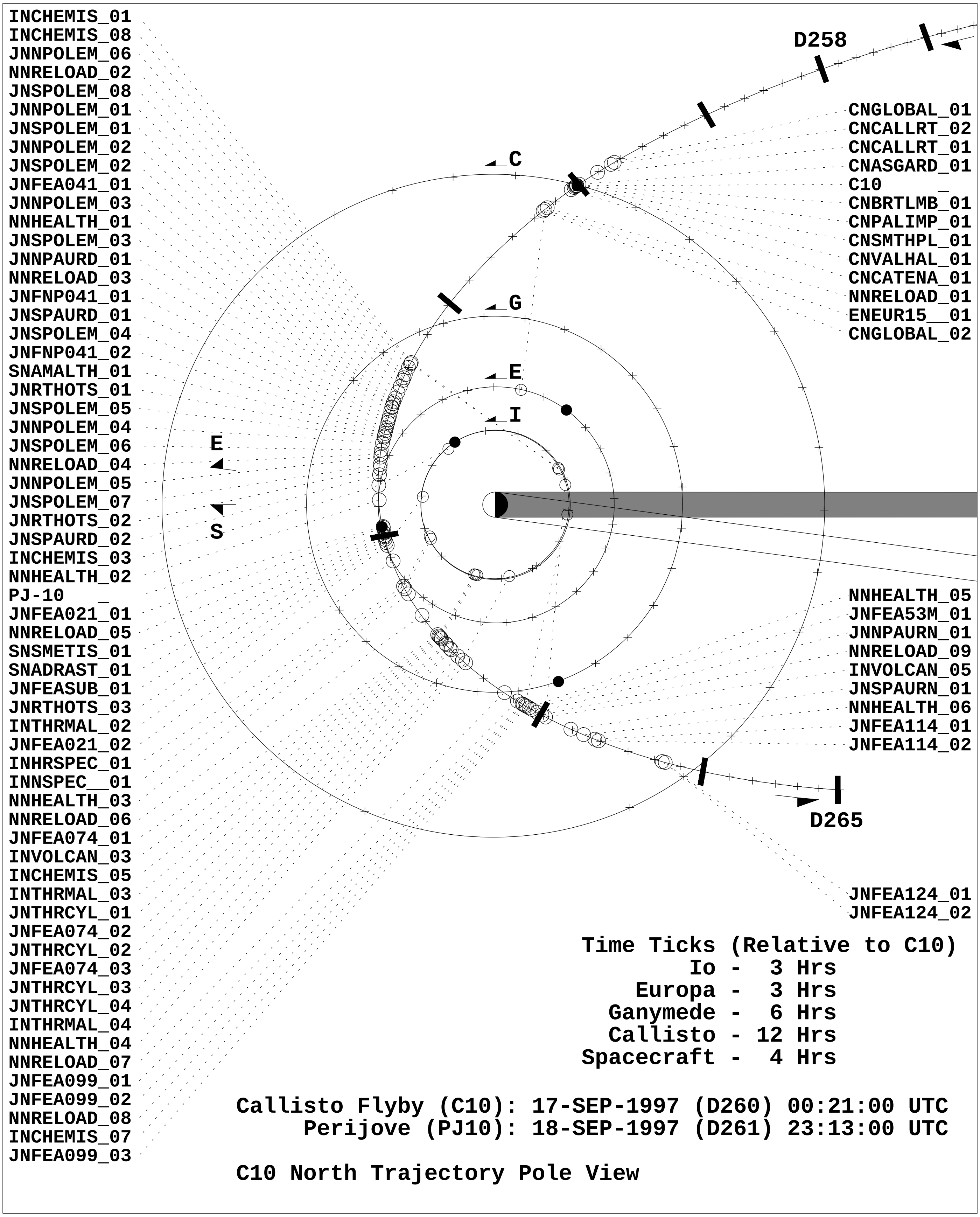
C10 Time-Ordered Listing

OAPEL	Start (UTC)	End (UTC)	Duration
10JNSPAURD01-	97-261/14:02:14	97-261/14:27:31	000/00:25:16
10JNSPOLEM04-	97-261/14:31:33	97-261/14:47:44	000/00:16:10
10JNFNP04102-	97-261/14:48:45	97-261/15:04:55	000/00:16:10
10SNAMALTH01-	97-261/15:04:55	97-261/15:10:59	000/00:06:04
10JNRTHOTS01-	97-261/15:18:04	97-261/15:25:09	000/00:07:04
10JNSPOLEM05-	97-261/15:25:09	97-261/15:42:20	000/00:17:11
10JNNPOLEM04-	97-261/15:58:31	97-261/16:16:43	000/00:18:12
10JNSPOLEM06-	97-261/16:38:57	97-261/16:57:09	000/00:18:12
10NNRELOAD04-	97-261/16:59:11	97-261/17:09:17	000/00:10:06
10JNNPOLEM05-	97-261/17:14:21	97-261/17:32:33	000/00:18:12
10JNSPOLEM07-	97-261/17:53:47	97-261/18:11:59	000/00:18:12
10JNRTHOTS02-	97-261/18:11:59	97-261/18:21:05	000/00:09:06
10JNSPAURD02-	97-261/18:46:21	97-261/19:11:38	000/00:25:16
10INCHEMIS03-	97-261/19:41:58	97-261/19:53:07	000/00:11:08
10NNHEALTH02-	97-261/20:57:48	97-261/21:02:51	000/00:05:03
10JNFEA02101-	97-261/23:18:21	97-261/23:27:27	000/00:09:06
10NNRELOAD05-	97-261/23:45:39	97-261/23:55:45	000/00:10:06
10SNSMETIS01-	97-262/00:00:49	97-262/00:05:52	000/00:05:03
10SNADRAST01-	97-262/00:06:53	97-262/00:11:56	000/00:05:03
10JNFEASUB01-	97-262/00:19:01	97-262/00:36:12	000/00:17:11
10JNRTHOTS03-	97-262/00:36:12	97-262/00:44:17	000/00:08:05
10INTHRMAL02-	97-262/00:52:23	97-262/01:00:24	000/00:08:01
10JNFEA02102-	97-262/02:17:19	97-262/02:26:25	000/00:09:06
10INHRSPEC01-	97-262/04:38:52	97-262/04:54:02	000/00:15:09
10INNSPEC_01-	97-262/04:54:02	97-262/05:03:39	000/00:09:37
10NNHEALTH03-	97-262/05:27:24	97-262/05:33:28	000/00:06:04
10NNRELOAD06-	97-262/07:43:54	97-262/07:54:01	000/00:10:06
10JNSCITRN01-	97-262/08:04:07	97-263/14:25:55	001/06:21:48
10JNFEA07401-	97-262/10:03:26	97-262/10:12:32	000/00:09:06
10INVOLCAN03-	97-262/10:14:33	97-262/10:19:03	000/00:04:30
10INCHEMIS05-	97-262/10:21:38	97-262/10:27:23	000/00:05:44

C10 Time-Ordered Listing

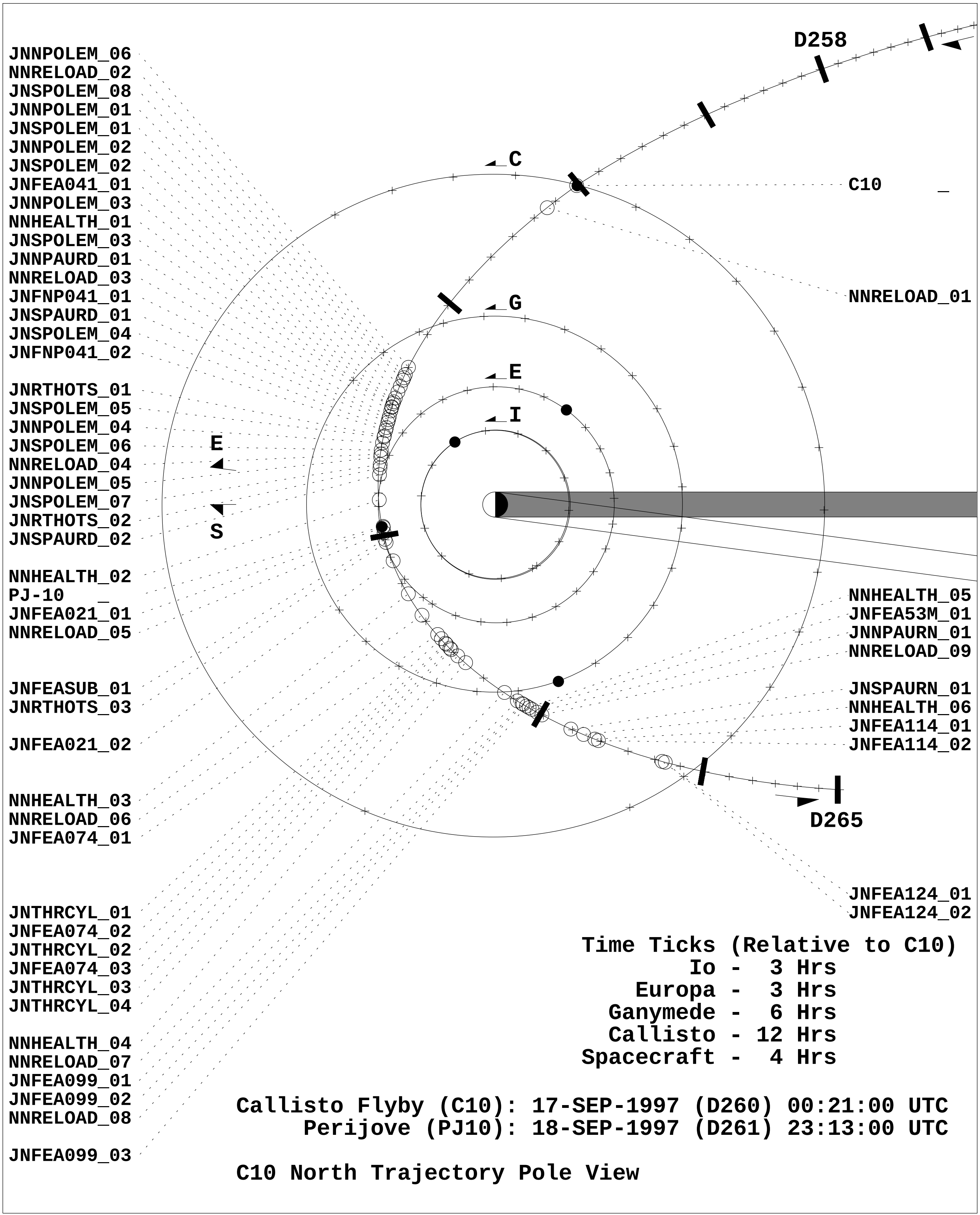
OAPEL	Start (UTC)	End (UTC)	Duration
10INTHRMAL03-	97-262/10:29:43	97-262/10:35:53	000/00:06:10
10JNTHRCYL01-	97-262/10:35:47	97-262/11:10:10	000/00:34:22
10JNFEA07402-	97-262/11:10:10	97-262/11:18:15	000/00:08:05
10JNTHRCYL02-	97-262/11:18:15	97-262/11:48:35	000/00:30:20
10JNFEA07403-	97-262/11:48:35	97-262/11:56:41	000/00:08:05
10JNTHRCYL03-	97-262/11:59:43	97-262/12:32:04	000/00:32:21
10JNTHRCYL04-	97-262/12:53:18	97-262/13:26:40	000/00:33:22
10INTHRMAL04-	97-262/13:32:44	97-262/13:36:47	000/00:04:02
10NNHEALTH04-	97-262/13:57:00	97-262/14:03:04	000/00:06:04
10NNRELOAD07-	97-262/19:09:26	97-262/19:19:33	000/00:10:06
10JNFEA09901-	97-262/20:52:34	97-262/21:01:40	000/00:09:06
10JNFEA09902-	97-262/21:30:59	97-262/21:42:07	000/00:11:07
10NNRELOAD08-	97-262/21:43:07	97-262/21:53:14	000/00:10:06
10INCHEMIS07-	97-262/21:54:15	97-262/22:00:52	000/00:06:37
10JNFEA09903-	97-262/22:05:22	97-262/22:14:28	000/00:09:06
10NNHEALTH05-	97-262/22:27:37	97-262/22:32:40	000/00:05:03
10JNFEA53M01-	97-262/22:50:52	97-262/23:21:12	000/00:30:20
10JNNPAURN01-	97-262/23:31:19	97-263/00:02:39	000/00:31:20
10NNRELOAD09-	97-263/00:10:45	97-263/00:20:51	000/00:10:06
10INVOLCAN05-	97-263/00:40:04	97-263/00:45:35	000/00:05:30
10JNSPAURN01-	97-263/04:09:22	97-263/04:56:53	000/00:47:31
10NNHEALTH06-	97-263/05:57:33	97-263/06:02:37	000/00:05:03
10JNFEA11401-	97-263/07:32:36	97-263/07:41:42	000/00:09:06
10JNFEA11402-	97-263/08:03:57	97-263/08:12:02	000/00:08:05
10JNSCITRN02-	97-263/14:25:55	97-263/17:01:55	000/02:36:00
10JNFEA12401-	97-263/17:33:12	97-263/17:42:18	000/00:09:06
10JNFEA12402-	97-263/18:02:31	97-263/18:11:37	000/00:09:06
10NNPCTRLT01-	97-264/13:55:38	97-264/21:45:48	000/07:50:10
10NNRCTRLT01-	97-266/02:51:59	97-266/16:07:44	000/13:15:44
10NNRCTRLT02-	97-292/09:49:59	97-292/23:05:44	000/13:15:44
10NNOPCAL_01-	97-302/11:54:37	97-302/12:12:49	000/00:18:12

NIMS C10 OBSERVATIONS



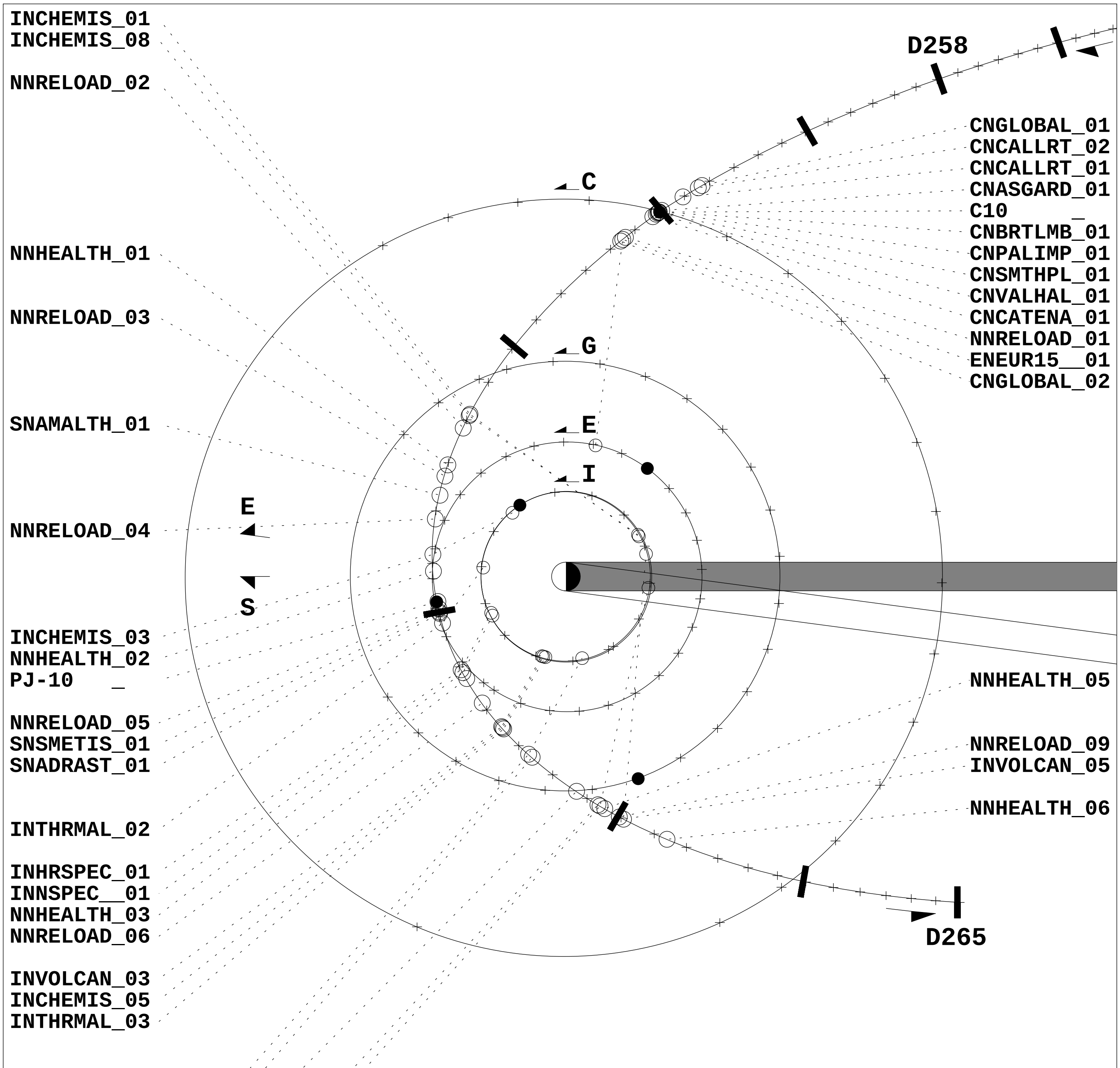
NIMS - FEL - 09/19/97

NIMS C10 JUPITER OBSERVATIONS



NIMS - FEL - 09/19/97

NIMS C10 SATELLITE OBSERVATIONS



Time Ticks (Relative to C10)
Io - 3 Hrs
Europa - 3 Hrs
Ganymede - 6 Hrs
Callisto - 12 Hrs
Spacecraft - 4 Hrs

Callisto Flyby (C10): 17-SEP-1997 (D260) 00:21:00 UTC
Perijove (PJ10): 18-SEP-1997 (D261) 23:13:00 UTC

C10 North Trajectory Pole View

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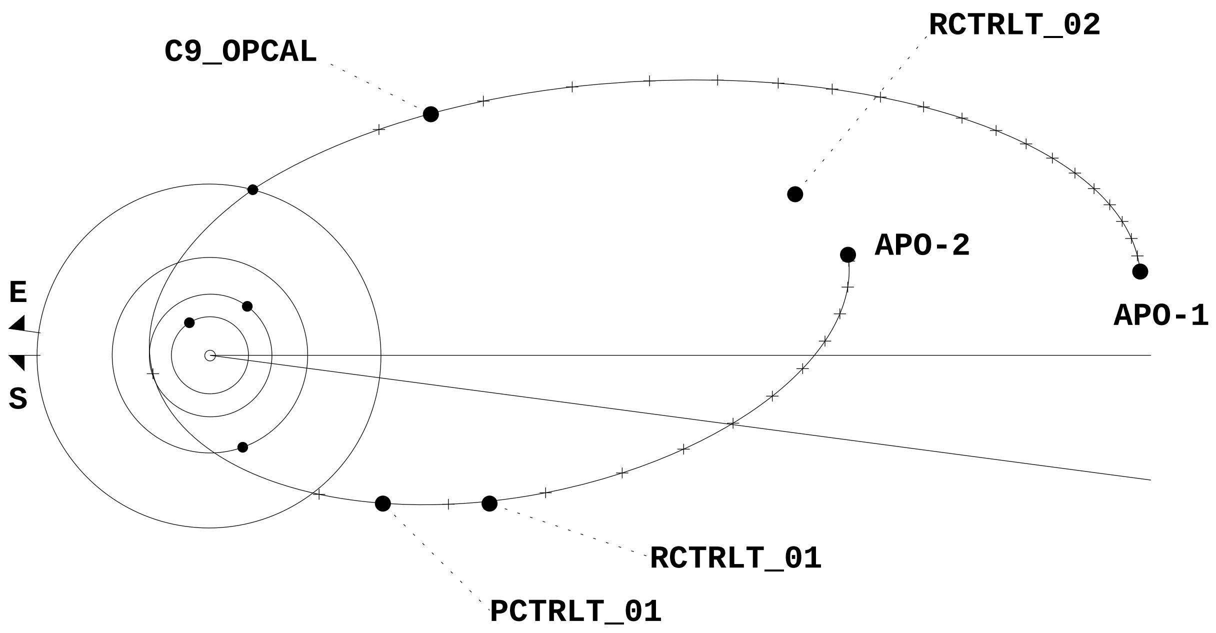
NIMS C10 CALIBRATIONS

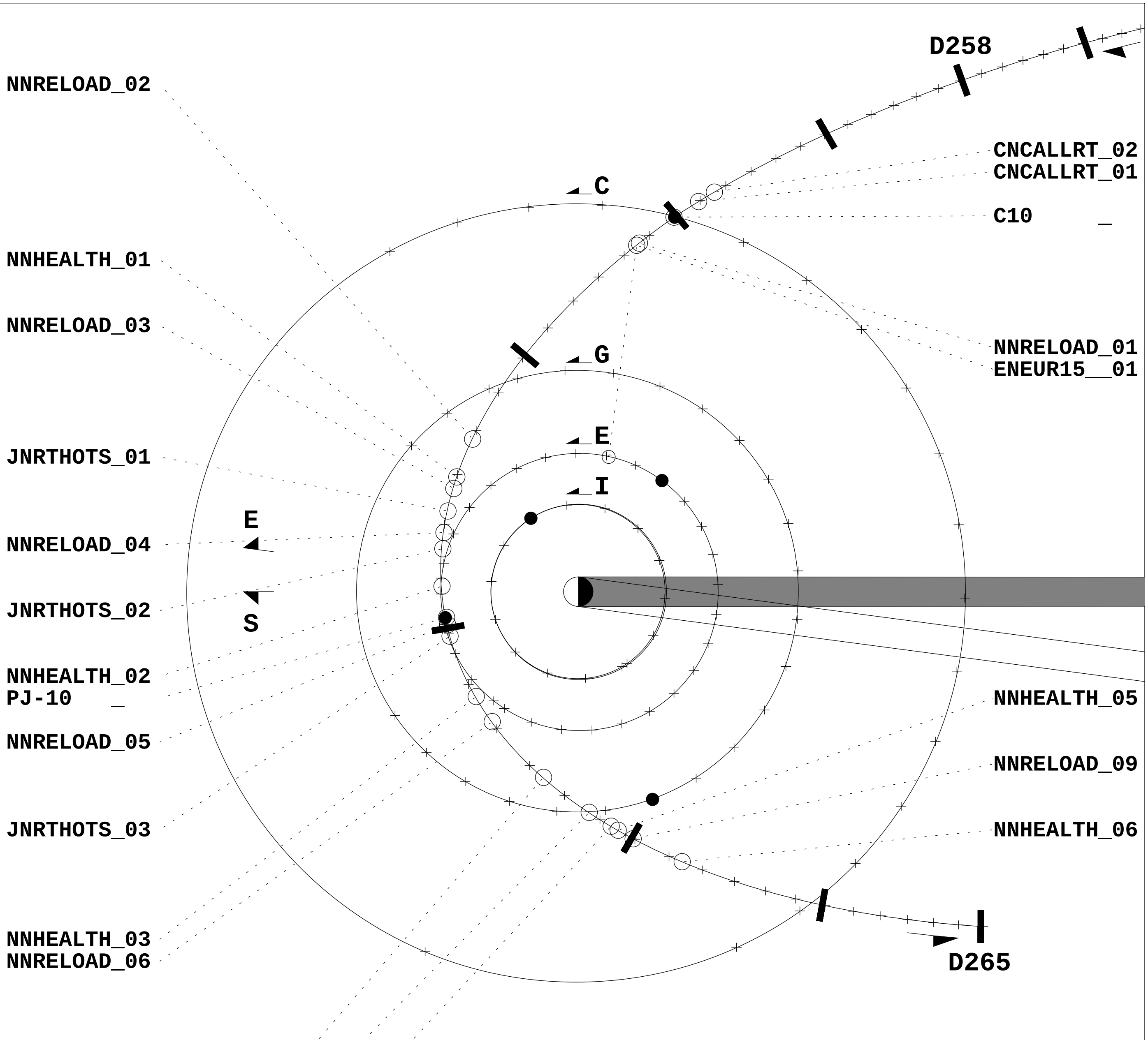
Callisto Flyby (C10): 17-SEP-1997 (D260) 00:21:00 UTC
Perijove (PJ10): 18-SEP-1997 (D261) 23:13:00 UTC

Time Ticks (Relative to C10)
Spacecraft - 2 Days



C10 North Trajectory Pole View, Apoapsis to Apoapsis

NIMS C10 RAM RELOADS



Time Ticks (Relative to C10)
Io - 3 Hrs
Europa - 3 Hrs
Ganymede - 6 Hrs
Callisto - 12 Hrs
Spacecraft - 4 Hrs

Callisto Flyby (C10): 17-SEP-1997 (D260) 00:21:00 UTC
Perijove (PJ10): 18-SEP-1997 (D261) 23:13:00 UTC

C10 North Trajectory Pole View

NIMS - FEL - 09/19/97

C10 NIMS INPUTS

Activity ID	Observation Title	NIMS Edit Table	NIMS PB Table	Mode	Gain	Grating start	Grating Offset	Record Format	PSID
10NCHOPON01-	NIMS Chopper On								LA
10CNGLOBAL01-	Callisto Global Coverage	C10CLM243C	CLM228C	LM	4	0	4	LPU	DA
10CNCALLRT02-	Callisto Real-Time Observation	C10CLM442/MB	R/T	LM	4	0	4	R/T	KH
10CNCALLRT01-	Callisto Real-Time Observation	C10CLM442/MB	R/T	LM	4	0	4	R/T	KG
10CNASGARD01-	ASGARD Basin observation	C10CFM221	CFM180	FM	4	0	4	MPW	DB
10CNBRTLIMB01+	UVS Ride-along	C10CFM221	CFM180	FM	4	0	4	MPW	N/A
10CNPALIMP01-	Valhalla Palimpsest Spectroscopy	C10CLM442	CLM360	LM	4	0	4	MPW	DC
10CNSMTHPL01	CNSMTHPL	C10CFM221	CFM180	FM	4	0	4	MPW	DD
10CNVALHAL01-	Valhalla Basin/Rings Observation	C10CLM243C	CLM228C	LM	4	0	4	LPU	DE
10CNCATENA01-	GIPUL Catena Coverage	C10CLM243C	CLM228C	LM	4	0	4	LPU	DF
10NNRELOAD01	NIMS Software Reload						4	N/A	EB
10ENEUR15_01-	Europa Real-Time Observation	C10ELMRT102/MB	R/T	LM	4	0	4	R/T	FZ
10CNGLOBAL02-	Callisto Global Coverage	C10CLM243C	CLM228C	LM	4	0	4	LPU	DG
10INCHEMIS01-	MONITORING OF IO'S DAYSIDE	C10ILM243C	ILM228C	LM	2	0	4	LPU	DJ
10INCHEMIS08-	MONITORING OF IO'S DAYSIDE	C10ILM442	C10ILM228C	LM	2	0	4	MPW	DK
10JNNPOLEM06-	Jupiter North Pole Map prt 6	C10JFT68C	C10JFT25A	SM	2	1	4	LPU	DL
10NNRELOAD02	NIMS Software Reload						4	N/A	ED
10JNSPOLEM08-	Jupiter South Pole Map prt 8	C10JFT68C	C10JFT25A	SM	2	1	4	LPU	DM
10JNNPOLEM01-	Jupiter North Pole Map prt 1	C10JFT68C	C10JFT25A	SM	2	1	4	LPU	DN
10JNSPOLEM01-	Jupiter South Pole Map prt 1	C10JFT68C	C10JFT25A	SM	2	1	4	LPU	DO
10JNNPOLEM02-	Jupiter North Pole Map prt 2	C10JFT68C	C10JFT25A	SM	2	1	4	LPU	DP
10JNSPOLEM02-	Jupiter South Pole Map prt 2	C10JFT68C	C10JFT25A	SM	2	1	4	LPU	DQ
10JNFEA04101-	Jupiter Feature Track 41 deg phase pt 1	C10JFT68C	C10JFT25A	SM	2	1	4	LPU	DR
10JNNPOLEM03-	Jupiter North Pole Map prt 3	C10JFT68C	C10JFT25A	SM	2	1	4	LPU	DS
10NNHEALTH01	NIMS Health Observation	C10RCVY3	R/T	LM	2	0	4	R/T	KA
10JNSPOLEM03-	Jupiter South Pole Map prt 3	C10JFT68C	C10JFT25A	SM	2	1	4	LPU	DU
10JNNPAURD01-	Jupiter North Pole Aurora Daytime prt 1	C10JAU253B	C10JAU40B	LM	2	0	4	LPU	DV
10NNRELOAD03	NIMS Software Reload						4	N/A	EC
10JNFNP04101-	Jup Expanded NP Ftr Trk 41 deg phse pt	C10JFT68C	C10JFT25A	SM	2	1	4	LPU	DW
10JNSPAURD01-	Jupiter South Pole Aurora Daytime prt 1	C10JAU253B	JAU40B	LM	2	0	4	LPU	DX
10JNSPOLEM04-	Jupiter South Pole Map prt 4	C10JFT68C	C10JFT25A	SM	2	1	4	LPU	DY
10JNFNP04102-	Jup Expanded Ftr Trk 41 deg phse pt 2	C10JFT68C	C10JFT25A	SM	2	1	4	LPU	EA
10SNAMALTH01-	Observation of Amalthea	C10SLM442	SLM360	LM	4	0	4	MPW	EB
10JNRTHOTS01	Jupiter Real-Time Observation	C10JLM442/MB	R/T	LM	4	0	4	R/T	KJ
10JNSPOLEM05-	Jupiter South Pole Map prt 5	C10JFT68C	C10JFT25A	SM	2	1	4	LPU	EC
10JNNPOLEM04-	Jupiter North Polar Map prt 4	C10JFT68C	C10JFT25A	SM	2	1	4	LPU	ED
10JNSPOLEM06-	Jupiter South Pole Map prt 6	C10JFT68C	C10JFT25A	SM	2	1	4	LPU	EG
10NNRELOAD04	NIMS Software Reload						4	N/A	EE
10JNNPOLEM05-	Jupiter North Pole Map prt 5	C10JFT68C	C10JFT25A	SM	2	1	4	LPU	EE
10JNSPOLEM07-	Jupiter South Pole Map prt 7	C10JFT68C	C10JFT25A	SM	2	1	4	LPU	EF
10JNRTHOTS02-	Jupiter Real-Time Observation	C10JLM442/MB	R/T	LM	4	0	4	R/T	KK
10JNSPAURD02-	Jupiter South Pole Aurora Daytime prt 2	C10JAU253B	C10JAU40B	LM	2	0	4	LPU	EH
10INCHEMIS03-	MONITORING OF IO'S DAYSIDE	C10ILM442	C10ILM228C	LM	2	0	4	MPW	EI

C10 NIMS INPUTS

Activity ID	Observation Title	NIMS Edit Table	NIMS PB Table	Mode	Gain	Grating start	Grating Offset	Record Format	PSID
10NNHEALTH02	NIMS Health Observation	C10RCVY3	R/T	LM	2	0	4	R/T	KB
10JNFEA02101-	Jupiter Feature Track 21 deg phase pt 1	C10JFT68C	C10JFT25A	SM	2	1	4	LPU	EJ
10NNRELOAD05	NIMS Software Reload						4	N/A	EF
10SNSMETIS01-	NIMS Small Satelite Obs. of Metis	C10SLM442	SLM360	LM	4	0	4	MPW	EK
10SNADRAST01-	NIMS Small satellite Obs. of Adrastea	C10SLM442	SLM360	LM	4	0	4	MPW	EL
10JNFEASUB01-	Jupiter Campaign Feature Sub-Spectra	C10JSB253A	JSB80A	LM	2	0	4	LPU	EM
10JNRTHOTS03	Jupiter Real-Time Observation	C10JLM442/MB	R/T	LM	4	0	4	R/T	KL
10INTHRMAL02-	MONITORING OF IO'S NIGHTSIDE	C10ILM442	C10ILM228C	LM	4	0	4	MPW	EO
10JNFEA02102-	Jupiter Feature Track 21 deg phase pt 2	C10JFT68C	C10JFT25A	SM	2	1	4	LPU	EP
10INHRSPEC01-	HIGH SPATIAL & SPECTRAL OBS. OF IO	C10ILM442	C10ILM360	LM	2	0	4	MPW	EQ
10INNSPEC 01-	NIGHTSIDE SPECTRA AT HIGH RESOLUTION	C10ILM442	C10ILM360	LM	4	0	4	MPW	ER
10NNHEALTH03-	NIMS Health Observation	C10RCVY3	R/T	LM	2	0	4	R/T	KC
10NNRELOAD06	NIMS Software Reload						4	N/A	EG
10JNSCITRN01-	NIMS AWG Science Turn						4	N/A	N/A
10JNFEA07401-	Jupiter Feature Track 74 deg phase pt 1	C10JFT68C	C10JFT25A	SM	2	1	4	LPU	ES
10INVOLCAN03-	MONITORING OF SELECTED VOLCANIC REGIONS	C10ILMDK243D	C10ILMDK102D	LM	4	0	4	LPU	ET
10INCHEMIS05-	MONITORING OF IO'S DAYSIDE	C10ILM243C	C10ILM228C	LM	2	0	4	LPU	EU
10INTHRMAL03-	MONITORING OF IO'S NIGHTSIDE	C10ILMDK243D	C10ILMDK228D	LM	4	0	4	LPU	EV
10JNTHRCYL01-	Jupiter Thermal Cylindrical Map prt 1	C10J5M253B	C10J5M253B	LM	4	0	4	LPU	EW
10JNFEA07402-	Jupiter Feature Track 74 deg phase pt 2	C10JFT68C	C10JFT25A	SM	2	1	4	LPU	EX
10JNTHRCYL02-	Jupiter Thermal Cylindrical Map prt 2	C10J5M253B	C10B_J5M127B	LM	4	0	4	LPU	EZ
10JNFEA07403-	Jupiter Feature Track 74 deg phase pt 3	C10JFT68C	C10JFT25A	SM	2	1	4	LPU	FA
10JNTHRCYL03-	Jupiter Thermal Cylindrical Map prt 3	C10J5M253B	C10J5M253B	LM	4	0	4	LPU	FB
10JNTHRCYL04-	Jupiter Thermal Cylindrical Map prt 4	C10J5M253B	C10J5M253B	LM	4	0	4	LPU	FE
10INTHRMAL04-	MONITORING OF IO'S NIGHTSIDE	C10ILMDK243D	C10ILMDK228D	LM	4	0	4	LPU	FD
10NNHEALTH04-	NIMS Health Observation	C10RCVY3	R/T	LM	2	0	4	R/T	KD
10NNRELOAD07-	NIMS Software Reload						4	N/A	EH
10JNFEA09901-	Jupiter Feature Track 99 deg phase pt 1	C10JFT68C	C10JFT25A	SM	2	1	4	LPU	FJ
10JNFEA09902-	Jupiter Feature Track 99 deg phase pt 2	C10JFT68C	C10JFT25A	SM	2	1	4	LPU	FL
10NNRELOAD08-	NIMS Software Reload						4	N/A	EI
10INCHEMIS07-	MONITORING OF IO'S DAYSIDE	C10ILM243C	C10ILM228C	LM	2	0	4	LPU	FI
10JNFEA09903-	Jupiter Feature Track 99 deg phase pt 3	JFT68C	C10JFT25A	SM	2	1	4	LPU	FM
10NNHEALTH05-	NIMS Health Observation	C10RCVY3	R/T	LM	2	0	4	R/T	KE
10JNFEA53M01-	Jupiter Campaign Feature 5 and 3 um Map	C10J35157	C10J35157	LM	4	0	4	LPU	FN
10JNNPAURN01-	Jup North Pole Aurora Nite Time prt 1	C10JAU253A	C10JAU40A	LM	4	0	4	LPU	FO
10NNRELOAD09-	NIMS Software Reload						4	N/A	EJ
10INVOLCAN05-	MONITORING OF SELECTED VOLCANIC REGIONS	C10ILMDK243D	C10ILMDK102D	LM	4	0	4	LPU	FQ
10JNSPAURN01-	Jupiter South Pole Aurora Night Time	C10JAU253A	C10JAU40A	LM	4	0	4	LPU	FS
10NNHEALTH06	NIMS Health Observation	C10RCVY3	R/T	LM	2	0	4	R/T	KF
10JNFEA11401-	Jupiter Feature Track 114 deg phase pt	C10JFT68C	C10JFT25A	SM	2	1	4	LPU	FV
10JNFEA11402-	Jupiter Feature Track 114 deg phase pt	C10JFT68C	C10JFT25A	SM	2	1	4	LPU	FW
10JNSCITRN02-	NIMS AWG Science Turn						4	N/A	N/A
10JNFEA12401-	Jupiter Feature Track 124 deg phase pt	C10JFT68C	C10JFT25A	SM	2	1	4	LPU	FX

C10 NIMS INPUTS

Activity ID	Observation Title	NIMS Edit Table	NIMS PB Table	Mode	Gain	Grating start	Grating Offset	Record Format	PSID
10JNFEA12402-	Jupiter Feature Track 124 deg phase pt :	C10JFT68C	C10JFT25A	SM	2	1	4	LPU	FY
10NNPCTRLT01	NIMS Real-Time PCT Calibration	C10PCT252	R/T	LM	4	0	4	R/T	FT
10NNRCTRLT01-	NIMS Real-Time RCT Calibration	C10RCT252	R/T	LM	1	0		R/T	XU
10NNRCTRLT02-	NIMS Real-Time RCT Calibration	C10RCT252	R/T	LM	1	0		R/T	XI
10NNOPCAL_01	NIMS OPCAL	C10OPCAL120	R/T	LM	4	0		R/T	LW

C10 NIMS RESOURCES

Activity ID	NIMS Mode	Record Mode	Obs. Cost (tracks)	Obs. Cost (ticks)	Number Wavelengths Returned	Observation Record Time (sec.)	Observation Playback Time (sec.)	Bits of Tape BOT (Mbit)	Selected Bits of Tape sBOT (Mbit)	Mode Cycle time (sec)
10CNGLOBAL01-	LM	LPU	0.0534	372	114	1580.00	1474.67	9.75	9.10	8.667
10CNCALLRT02	LM	R/T								
10CNCALLRT01	LM	R/T								
10CNASGARD01-	FM	MPW	0.0690	481	180	544.67	541.33	6.27	6.24	4.333
10CNBRTLMB01+	FM	MPW			180	364.00	364.00	4.19	4.19	4.333
10CNPALIMP01-	LM	MPW	0.0387	270	360	304.00	300.67	3.50	3.46	8.667
10CNSMTHPL01	FM	MPW	0.0848	591	180	670.00	663.00	7.72	7.64	4.333
10CNVALHAL01-	LM	LPU	0.0186	130	228	544.00	539.33	3.36	3.33	8.667
10CNCATENA01-	LM	LPU	0.0481	336	102	1423.33	1357.35	8.78	8.37	8.667
10ENEUR15_01	LM	R/T								
10CNGLOBAL02-	LM	LPU	0.0517	360	228	1529.00	1524.33	9.43	9.40	8.667
10INCHEMIS01-	LM	LPU	0.0062	43	228	174.67	170.00	1.08	1.05	8.667
10INCHEMIS08-	LM	MPW	0.0114	79	228	87.33	82.67	1.01	0.95	8.667
10JNNPOLEM06-	SM	LPU	0.0278	194	25	818.00	813.33	5.05	5.02	2.33
10JNSPOLEM08-	SM	LPU	0.0235	164	25	691.33	686.67	4.26	4.24	2.33
10JNNPOLEM01-	SM	LPU	0.0278	194	25	818.00	813.33	5.05	5.02	2.33
10JNSPOLEM01-	SM	LPU	0.0278	194	25	818.00	813.33	5.05	5.02	2.33
10JNNPOLEM02-	SM	LPU	0.0278	194	25	818.00	813.33	5.05	5.02	2.33
10JNSPOLEM02-	SM	LPU	0.0278	194	25	818.00	813.33	5.05	5.02	2.33
10JNFEA04101-	SM	LPU	0.0078	55	25	224.67	220.00	1.39	1.36	2.33
10JNNPOLEM03-	SM	LPU	0.0237	165	25	696.67	692.00	4.30	4.27	2.33
10NNHEALTH01	LM	R/T								
10JNSPOLEM03-	SM	LPU	0.0278	194	25	818.00	813.33	5.05	5.02	2.33
10JNNPAURD01-	LM	LPU	0.0587	410	40	1740.00	1735.33	10.73	10.70	8.667
10JNFNP04101-	SM	LPU	0.0291	203	25	857.33	813.33	5.29	5.02	2.33
10JNSPAURD01-	LM	LPU	0.0491	342	40	1452.00	1447.33	8.96	8.93	8.667
10JNSPOLEM04-	SM	LPU	0.0278	194	25	818.00	813.33	5.05	5.02	2.33
10JNFNP04102-	SM	LPU	0.0237	165	25	696.67	692.00	4.30	4.27	2.33
10SNAMALTH01-	LM	MPW	0.0051	36	360	38.00	33.33	0.44	0.38	8.667
10JNRTHOTS01-	LM	R/T								
10JNSPOLEM05-	SM	LPU	0.0278	194	25	818.00	813.33	5.05	5.02	2.33
10JNNPOLEM04-	SM	LPU	0.0278	194	25	818.00	813.33	5.05	5.02	2.33
10JNSPOLEM06-	SM	LPU	0.0278	194	25	818.00	813.33	5.05	5.02	2.33
10JNNPOLEM05-	SM	LPU	0.0278	194	25	818.00	813.33	5.05	5.02	2.33
10JNSPOLEM07-	SM	LPU	0.0278	194	25	818.00	813.33	5.05	5.02	2.33
10JNRTHOTS02-	LM	R/T								
10JNSPAURD02-	LM	LPU	0.0468	326	40	1384.00	1379.33	8.54	8.51	8.667
10INCHEMIS03-	LM	MPW	0.0384	268	228	302.00	297.33	3.48	3.43	8.667
10NNHEALTH02-	LM	R/T								
10JNFEA02101-	SM	LPU	0.0076	53	25	218.00	213.33	1.34	1.32	2.33

C10 NIMS RESOURCES

Activity ID	NIMS Mode	Record Mode	Obs. Cost (tracks)	Obs. Cost (ticks)	Number Wavelengths Returned	Observation Record Time (sec.)	Observation Playback Time (sec.)	Bits of Tape BOT (Mbit)	Selected Bits of Tape sBOT (Mbit)	Mode Cycle time (sec)
10SNSMETIS01-	LM	MPW	0.0051	36	360	38.00	33.33	0.44	0.38	8.667
10SNADRAST01-	LM	MPW	0.0051	36	360	38.00	33.33	0.44	0.38	8.667
10JNFEASUB01-	LM	LPU	0.0246	172	80	724.67	720.00	4.47	4.44	8.667
10JNRTHOTS03	LM	R/T								
10INTHRMAL02-	LM	MPW	0.0301	210	228	236.00	231.33	2.72	2.66	8.667
10JNFEA02102-	SM	LPU	0.0076	53	25	218.00	213.33	1.34	1.32	2.33
10INHRSPEC01-	LM	MPW	0.0785	547	180	620.00	616.67	7.14	7.10	8.667
10INNSPEC 01-	LM	MPW	0.0438	306	360	345.00	341.67	3.97	3.94	8.667
10NNHEALTH03	LM	R/T								
10JNFEA07401-	SM	LPU	0.0078	55	25	224.67	220.00	1.39	1.36	2.33
10INVOLCAN03-	LM	LPU	0.0028	20	102	74.67	70.00	0.46	0.43	8.667
10INCHEMIS05-	LM	LPU	0.0056	39	228	159.33	154.67	0.98	0.95	8.667
10INTHRMAL03-	LM	LPU	0.0045	32	228	126.00	121.33	0.78	0.75	8.667
10JNTHRCYL01-	LM	LPU	0.0406	283	253	1199.00	1194.33	7.40	7.37	8.667
10JNFEA07402-	SM	LPU	0.0045	31	25	124.67	120.00	0.77	0.74	2.33
10JNTHRCYL02-	LM	LPU	0.0406	283	127	1199.00	1194.33	7.40	7.37	8.667
10JNFEA07403-	SM	LPU	0.0078	55	25	224.67	220.00	1.39	1.36	2.33
10JNTHRCYL03-	LM	LPU	0.0441	308	253	1305.00	1300.33	8.05	8.02	8.667
10JNTHRCYL04-	LM	LPU	0.0463	323	253	1370.00	1365.30	8.45	8.42	8.667
10INTHRMAL04-	LM	LPU	0.0037	26	228	100.67	96.00	0.62	0.59	8.667
10NNHEALTH04	LM	R/T								
10JNFEA09901-	SM	LPU	0.0076	53	25	218.00	213.33	1.34	1.32	2.33
10JNFEA09902-	SM	LPU	0.0076	53	25	218.00	213.33	1.34	1.32	2.33
10INCHEMIS07-	LM	LPU	0.0034	23	228	91.33	86.67	0.56	0.53	8.667
10JNFEA09903-	SM	LPU	0.0078	55	25	224.67	220.00	1.39	1.36	2.33
10NNHEALTH05	LM	R/T								
10JNFEA53M01-	LM	LPU	0.0527	367	157	1559.00	1554.33	9.62	9.59	8.667
10JNNPAURN01-	LM	LPU	0.0592	413	40	1755.00	1750.33	10.82	10.80	8.667
10INVOLCAN05-	LM	LPU	0.0020	14	102	50.00	45.33	0.31	0.28	8.667
10JNSPAURN01-	LM	LPU	0.0592	413	62	1755.00	1750.33	10.82	10.80	8.667
10NNHEALTH06	LM	R/T								
10JNFEA11401-	SM	LPU	0.0078	55	25	224.67	220.00	1.39	1.36	2.33
10JNFEA11402-	SM	LPU	0.0076	53	25	218.00	213.33	1.34	1.32	2.33
10JNFEA12401-	SM	LPU	0.0078	55	25	224.67	220.00	1.39	1.36	2.33
10JNFEA12402-	SM	LPU	0.0078	55	25	224.67	220.00	1.39	1.36	2.33
10NNPCTRLT01-	LM	R/T								
10NNRCTRLT01-	LM	R/T								
10NNRCTRLT02-	LM	R/T								
Total			**1.6623**	**11598**						
Allocation			**1.6120**	**11247**						
Overage			**0.0503**	**351**						

C10 NIMS RESOURCES

Activity ID	AACS Mbits	RT BTG Mbits	Thold	Comp	Total BTG Mbits (4% Ohead)	Total BTG Mbits SWG	Total BTG Mbits AWG	Data Reduct. Factor (sBOT/BTG)	Pass
10CNGLOBAL01-	0.08			1.90	2.1234	2.1234		4.3	2
10CNCALLRT02		0.065							
10CNCALLRT01		0.016							
10CNASGARD01-	0.03			1.60	2.9234	2.9234		2.1	4
10CNBRTLMB01+				1.60	1.9658	1.9658		2.1	2
10CNPALIMP01-	0.02			1.60	1.6236	1.6236		2.1	2
10CNSMTHPL01	0.04			1.60	3.5805	3.5805		2.1	2
10CNVALHAL01-	0.03			1.60	1.8444	1.8444		1.8	2
10CNCATENA01-	0.08			1.70	1.9545	1.9545		4.3	4
10ENEUR15_01		0.065							
10CNGLOBAL02-	0.09			1.80	4.6338	4.6338		2.0	2
10INCHEMIS01-	0.01			2.20	0.4228	0.4228		2.5	2
10INCHEMIS08-	0.00			2.20	0.2056	0.2056		4.6	2
10JNNPOLEM06-	0.05			1.90	0.9553		0.9553	5.3	4
10JNSPOLEM08-	0.04			1.90	0.8066		0.8066	5.3	2
10JNNPOLEM01-	0.05			1.90	0.9553		0.9553	5.3	2
10JNSPOLEM01-	0.05			1.90	0.9553		0.9553	5.3	2
10JNNPOLEM02-	0.05			1.90	0.9553		0.9553	5.3	4
10JNSPOLEM02-	0.05			1.90	0.9553		0.9553	5.3	2
10JNFEA04101-	0.01			1.90	0.2584		0.2584	5.3	2
10JNNPOLEM03-	0.04			1.90	0.8128		0.8128	5.3	2
10NNHEALTH01		0.001		1.90					
10JNSPOLEM03-	0.05			1.90	0.9553		0.9553	5.3	4
10JNNPAURD01-	0.10			1.90	0.8768		0.8768	12.2	2
10JNFNP04101-	0.05			1.90	0.9553		0.9553	5.3	1
10JNSPAURD01-	0.08			1.90	0.7313		0.7313	12.2	1
10JNSPOLEM04-	0.05			1.90	0.9553		0.9553	5.3	1
10JNFNP04102-	0.04			1.90	0.8128		0.8128	5.3	1
10SNAMALTH01-	0.00			2.00	0.1440	0.1440		2.7	1
10JNRTHOTS01-		0.016							
10JNSPOLEM05-	0.05			1.90	0.9553		0.9553	5.3	1
10JNNPOLEM04-	0.05			1.90	0.9553		0.9553	5.3	1
10JNSPOLEM06-	0.05			1.90	0.9553		0.9553	5.3	1
10JNNPOLEM05-	0.05			1.90	0.9553		0.9553	5.3	1
10JNSPOLEM07-	0.05			1.90	0.9553		0.9553	5.3	1
10JNRTHOTS02-		0.016							
10JNSPAURD02-	0.08			1.90	0.6969		0.6969	12.2	1
10INCHEMIS03-	0.02			1.20	1.3558	1.3558		2.5	1
10NNHEALTH02-		0.001							
10JNFEA02101-	0.01			1.90	0.2506		0.2506	5.3	1

C10 NIMS RESOURCES

Activity ID	AACS Mbits	RT BTG Mbits	Thold	Comp	Total BTG Mbits (4% Ohead)	Total BTG Mbits SWG	Total BTG Mbits AWG	Data Reduct. Factor (sBOT/BTG)	Pass
10SNSMETIS01-	0.00			2.00	0.1440	0.1440		2.7	1
10SNADRAST01-	0.00			2.00	0.1440	0.1440		2.7	1
10JNFEASUB01-	0.04			1.80	0.7680		0.7680	5.8	1
10JNRTHOTS03		0.016							
10INTHRMAL02-	0.01			1.20	1.0548	1.0548		2.5	1
10JNFEA02102-	0.01			1.90	0.2506		0.2506	5.3	1
10INHRSPEC01-	0.04			1.20	2.2199	2.2199		3.2	1
10INNSPEC 01-	0.02			1.20	2.4599	2.4599		1.6	1
10NNHEALTH03		0.001							
10JNFEA07401-	0.01			1.90	0.2584		0.2584	5.3	1
10INVOLCAN03-	0.00			1.40	0.1224	0.1224		3.5	1
10INCHEMIS05-	0.01			1.30	0.6510	0.6510		1.5	3
10INTHRMAL03-	0.01			1.30	0.5107	0.5107		1.5	1
10JNTHRCYL01-	0.07			1.60	4.5323		4.5323	1.6	1
10JNFEA07402-	0.01			1.90	0.1410		0.1410	5.3	1
10JNTHRCYL02-	0.07			1.60	2.2751		2.2751	3.2	1
10JNFEA07403-	0.01			1.90	0.2584		0.2584	5.3	1
10JNTHRCYL03-	0.07			1.60	4.9346		4.9346	1.6	3
10JNTHRCYL04-	0.08			1.60	5.1811		5.1811	1.6	1
10INTHRMAL04-	0.01			1.40	0.3752	0.3752		1.6	1
10NNHEALTH04		0.001							
10JNFEA09901-	0.01			1.90	0.2506		0.2506	5.3	1
10JNFEA09902-	0.01			1.90	0.2506		0.2506	5.3	1
10INCHEMIS07-	0.00			2.10	0.2258	0.2258		2.4	1
10JNFEA09903-	0.01			1.90	0.2584		0.2584	5.3	1
10NNHEALTH05		0.001							
10JNFEA53M01-	0.09			1.30	4.5050		4.5050	2.1	3
10JNNPAURN01-	0.10			1.90	0.8843		0.8843	12.2	1
10INVOLCAN05-	0.00			2.20	0.0504	0.0504		5.5	1
10JNSPAURN01-	0.10			1.90	1.3707		1.3707	7.9	3
10NNHEALTH06		0.001							
10JNFEA11401-	0.01			1.90	0.2584		0.2584	5.3	1
10JNFEA11402-	0.01			1.90	0.2506		0.2506	5.3	1
10JNFEA12401-	0.01			1.90	0.2584		0.2584	5.3	1
10JNFEA12402-	0.01			1.90	0.2584		0.2584	5.3	1
10NNPCTRLT01-		0.2			0.2000		0.2000		
10NNRCTRLT01-		0.08			0.0800		0.0800		
10NNRCTRLT02-		0.08			0.0800		0.0800		
Total					75.9063	30.7358	45.1705		
Allocation					75.643	30.799	44.8440		
Overage					0.2633	-0.0632	0.3265		

NIMS C10 OBSERVING GEOMETRY

OAPEL	Latitude (deg)	Longitude (deg)	Range (km)	Cone (deg)	Light (deg)	View (deg)	Phase (deg)
10CNGLOBAL01	-90 to +90	75 to 170	184K	90	6 to 99	2 to 90	96
10CNCALLRT02	-10 to +10	130 to 158	170K	90	61 to 89	6 to 35	96
10CNCALLRT01	-5 to +5	144 to 162	109K	90	73 to 91	4 to 22	95
10CNASGARD01	+28 to +32	150 to 153	5.6K	106 to 128	77 to 81	37 to 50	56 to 79
10CNBRTLMB01	----------	----------	-------	95	----------	----------	----------
10CNPALIMP01	+8 to +12	66 to 75	6.0K	93	9 to 12	74 to 81	81
10CNSMTHPL01	+12 to +18	346 to 352	9.7K	101 to 110	82 to 88	20 to 27	64 to 73
10CNVALHAL01	+15 to +25	30 to 41	17K	91	38 to 47	42 to 54	83
10CNCATENA01	+12 to +30	4 to 29	35K	89	50 to 72	23 to 46	84
10ENEUR15_01	-50 to +50	89 to 165	1029K	87	9 to 84	13 to 90	98
10CNGLOBAL02	-90 to +90	345 to 75	1910K	87	2 to 92	0 to 90	86
10INCHEMIS01	-90 to +90	345 to 165	1034K	151	3 to 85	3 to 79	35
10INCHEMIS08	-90 to +90	19 to 99	1024K	151	1 to 69	1 to 46	35
10JNNPOLEM06	+50 to +90	300 to 50	900K	126	65 to 88	64 to 90	56
10JNSPOLEM08	-90 to -50	330 to 90	860K	131	58 to 85	59 to 90	52
10JNNPOLEM01	+50 to +90	330 to 90	854K	132	59 to 84	57 to 90	52
10JNSPOLEM01	-90 to -50	0 to 120	840K	134	60 to 86	61 to 90	49
10JNNPOLEM02	+50 to +90	26 to 126	821K	136	59 to 84	57 to 90	47

NIMS C10 OBSERVING GEOMETRY

OAPEL	Latitude (deg)	Longitude (deg)	Range (km)	Cone (deg)	Light (deg)	View (deg)	Phase (deg)
10JNSPOLEM02	-90 to -50	50 to 160	805K	139	60 to 87	61 to 91	45
10JNFEA04101	+50 to +90	154 to 211	798K	142	75 to 99	65 to 90	43
10JNNPOLEM03	+45 to +90	71 to 168	789K	141	59 to 82	57 to 90	43
10JNSPOLEM03	-90 to -50	80 to 200	782K	143	60 to 88	62 to 91	41
10JNNPAURD01	+45 to +90	140 to 200	764K	144	58 to 85	59 to 80	41
10JNFNP04101	+45 to +90	117 to 210	753K	147	60 to 78	58 to 91	37
10JNSPAURD01	-90 to -50	130 to 190	748K	147	59 to 76	62 to 91	37
10JNSPOLEM04	-90 to -50	140 to 240	737K	151	60 to 78	62 to 91	34
10JNFNP04102	+45 to +90	150 to 235	730K	151	59 to 78	58 to 91	33
10SNAMALTH01	-90 to +90	90 to 270	567K	153	57 to 122	90 to 90	31
10JNRTHOTS01	+5 to +10	238 to 241	672K	154	29 to 34	7 to 8	31
10JNSPOLEM05	-90 to -50	175 to 285	718K	154	61 to 81	62 to 91	29
10JNNPOLEM04	+45 to +90	195 to 300	707K	157	63 to 85	61 to 90	26
10JNSPOLEM06	-90 to -50	240 to 360	696K	162	62 to 95	63 to 91	22
10JNNPOLEM05	+45 to +90	240 to 340	684K	163	62 to 86	59 to 91	20
10JNSPOLEM07	-90 to -50	240 to 30	676K	168	65 to 84	65 to 91	16
10JNRTHOTS02	+5 to +10	329 to 330	620K	168	15 to 17	7 to 8	17
10JNSPAURD02	-90 to -50	270 to 30	652K	172	59 to 70	61 to 76	13

NIMS C10 OBSERVING GEOMETRY

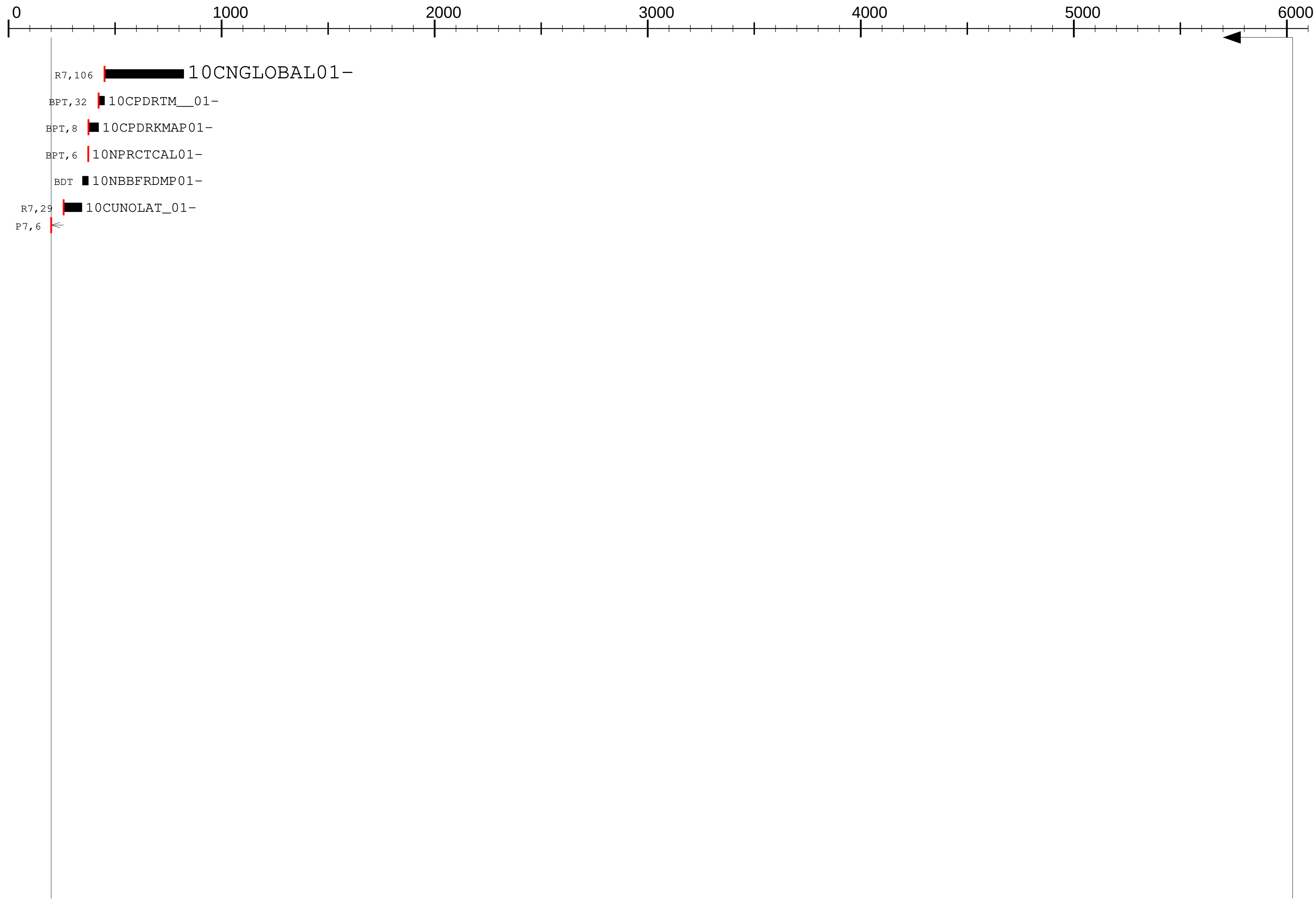
OAPEL	Latitude (deg)	Longitude (deg)	Range (km)	Cone (deg)	Light (deg)	View (deg)	Phase (deg)
10INCHEMIS03	-90 to +90	12 to 192	445K	144	1 to 119	0 to 90	29
10JNFEA02101	+50 to +90	150 to 200	636K	158	57 to 81	65 to 91	15
10SNSMETIS01	-90 to +90	----------	557K	165	99	90	15
10SNADRAST01	-90 to +90	----------	701K	167	97	90	15
10JNFEASUB01	+50 to +90	160 to 185	632K	154	61 to 72	65 to 80	20
10JNRTHOTS03	+5 to +10	166 to 167	588K	153	20	7	20
10INTHRMAL02	-90 to +90	30 to 110	344K	118	68 to 145	12 to 90	56
10JNFEA02102	+50 to +90	140 to 190	654K	145	73 to 96	67 to 91	28
10INHRSPEC01	-90 to +90	96 to 232	319K	109	17 to 107	18 to 90	64
10INNSPEC_01	-90 to +90	54 to 132	319K	109	77 to 147	21 to 90	64
10JNFEA07401	+45 to +85	132 to 182	797K	132	56 to 66	61 to 91	68
10INVOLCAN03	-90 to +90	136 to 164	403K	139	89 to 140	28 to 56	61
10INCHEMIS05	-90 to +90	187 to 253	407K	139	1 to 67	0 to 60	61
10INTHRMAL03	-90 to +90	105 to 180	412K	139	75 to 150	14 to 90	61
10JNTHRCYL01	+5 to +15	61 to 96	790K	134	91 to 137	26 to 73	66
10JNFEA07402	+50 to +90	158 to 204	825K	128	66 to 75	63 to 88	72
10JNTHRCYL02	+5 to +15	93 to 122	800K	132	91 to 131	23 to 65	68
10JNFEA07403	+50 to +90	161 to 188	835K	178	73 to 83	61 to 79	73

NIMS C10 OBSERVING GEOMETRY

OAPEL	Latitude (deg)	Longitude (deg)	Range (km)	Cone (deg)	Light (deg)	View (deg)	Phase (deg)
10JNTHRCYL03	+5 to +15	115 to 146	822K	129	90 to 134	21 to 65	71
10JNTHRCYL04	+5 to +15	133 to 176	858K	126	96 to 151	23 to 80	74
10INTHRMAL04	-90 to +90	130 to 200	545K	139	81 to 151	19 to 90	61
10JNFEA09901	+50 to +90	129 to 188	1108K	102	64 to 79	56 to 90	97
10JNFEA09902	+50 to +90	146 to 210	1128K	102	69 to 84	56 to 90	98
10INCHEMIS07	-90 to +90	250 to 360	1118K	123	5 to 94	2 to 90	77
10JNFEA09903	+45 to +90	155 to 190	1136K	101	77 to 91	54 to 77	99
10JNFEA53M01	+50 to +90	143 to 184	1170K	100	88 to 110	65 to 74	100
10JNNPAURN01	+40 to +90	119 to 195	1193K	100	93 to 124	53 to 90	101
10INVOLCAN05	-90 to +90	200 to 285	1331K	115	93 to 175	8 to 90	85
10JNSPAURN01	-90 to -40	270 to 60	1340K	91	79 to 127	51 to 90	108
10JNFEA11401	+35 to +85	139 to 183	1424K	86	69 to 91	49 to 82	114
10JNFEA11402	+35 to +85	155 to 188	1435K	86	74 to 91	49 to 76	114
10JNFEA12401	+35 to +85	135 to 195	1700K	49	69 to 94	49 to 86	124
10JNFEA12402	+35 to +85	152 to 202	1735K	49	69 to 94	49 to 86	124

Phase 2A Tapemap of c10aod.tapemap-c
Date: Mon Sep 8 13:12:18 1997   Page: 5

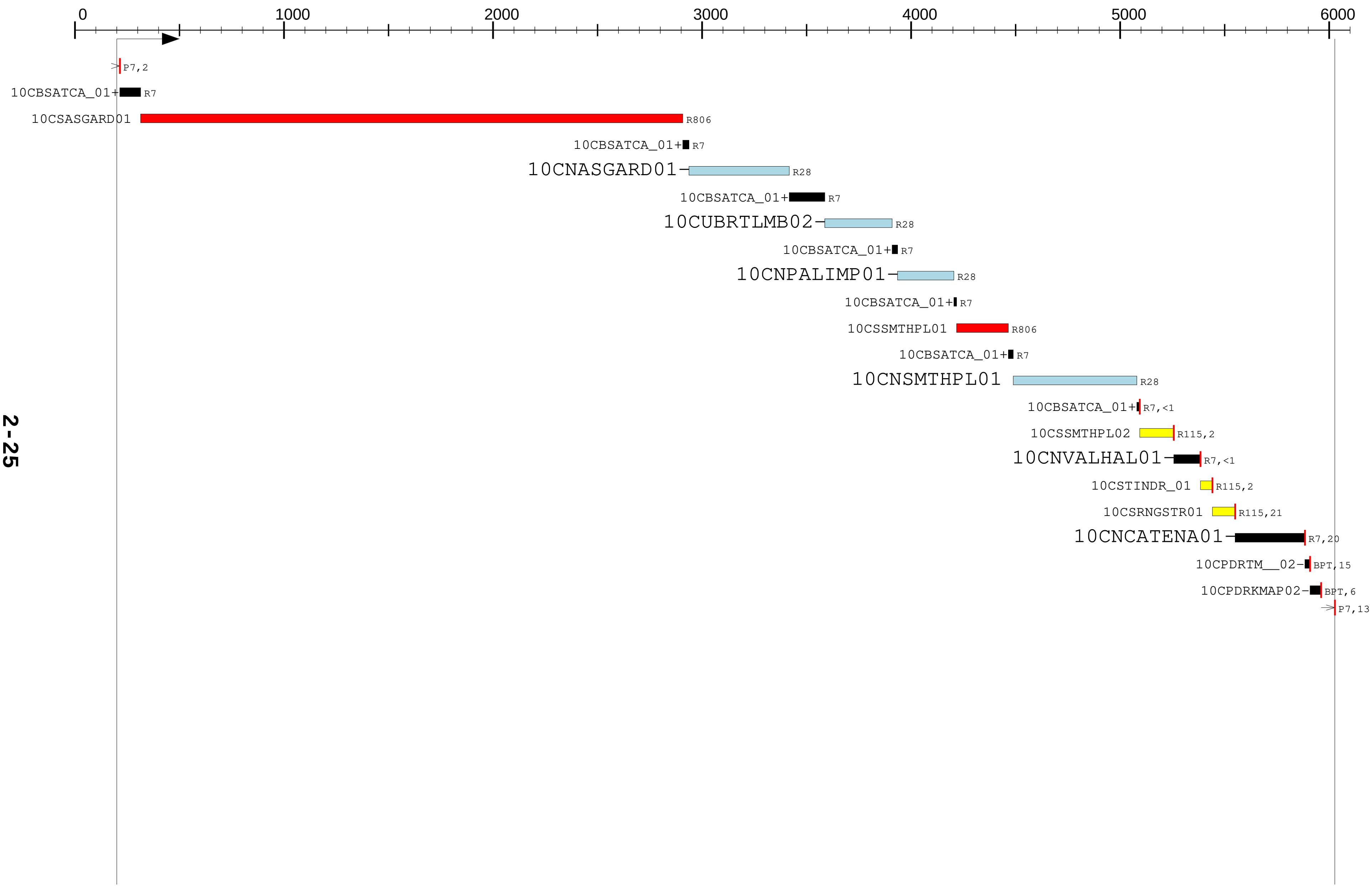
Track 4



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

Phase 2A Tapemap of c10aod.tapemap-c
Date: Mon Sep 8 13:12:18 1997   Page: 6

Track 1



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

Phase 2A Tapemap of c10aod.tapemap-c
Date: Mon Sep 8 13:12:18 1997   Page: 7

Track 2

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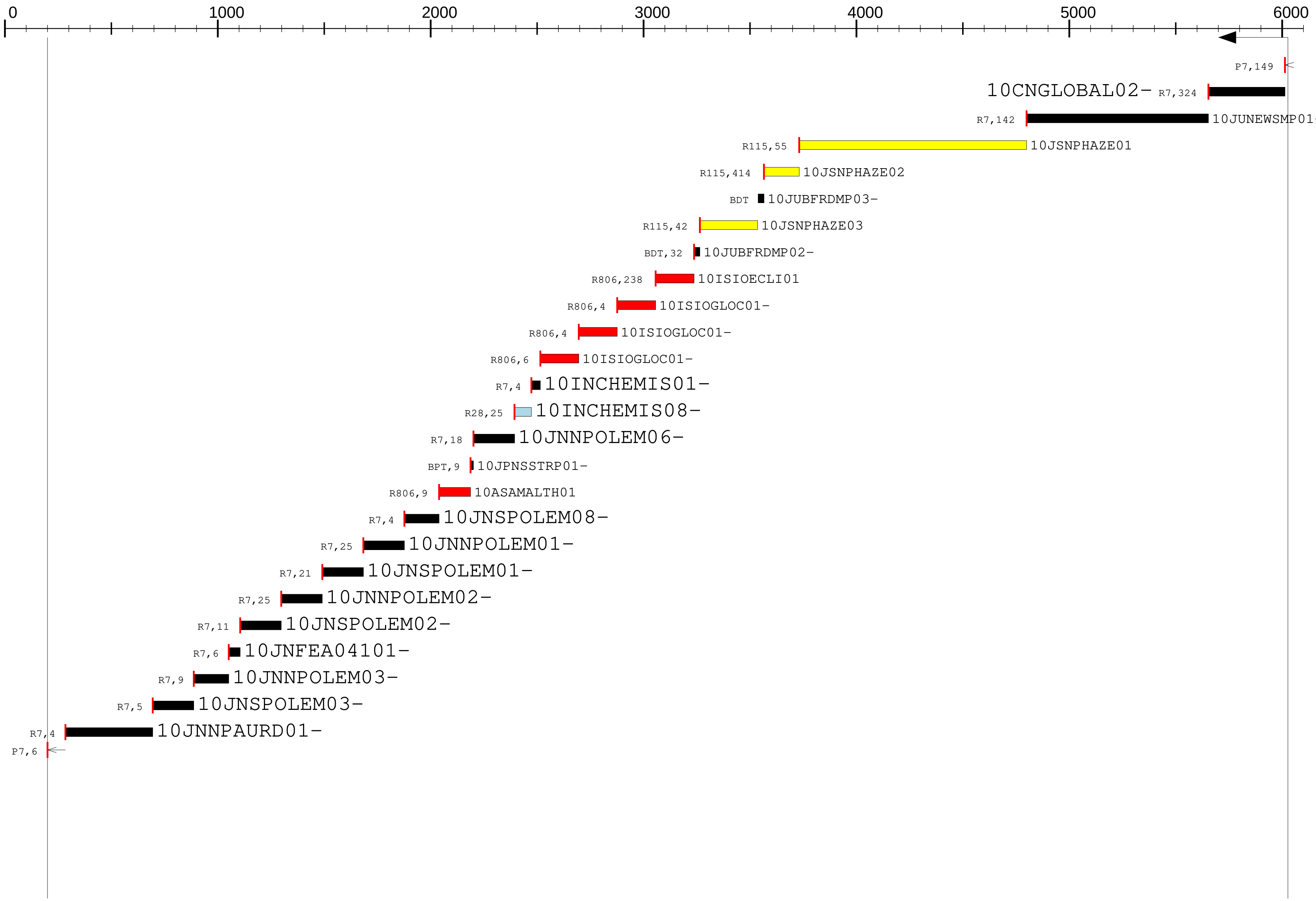

J.Culwell, 31-Dec-96, v0.02

Phase 2A Tapemap of c10aod.tapemap-c
Date: Mon Sep 8 13:12:18 1997 Page: 8

Track 3

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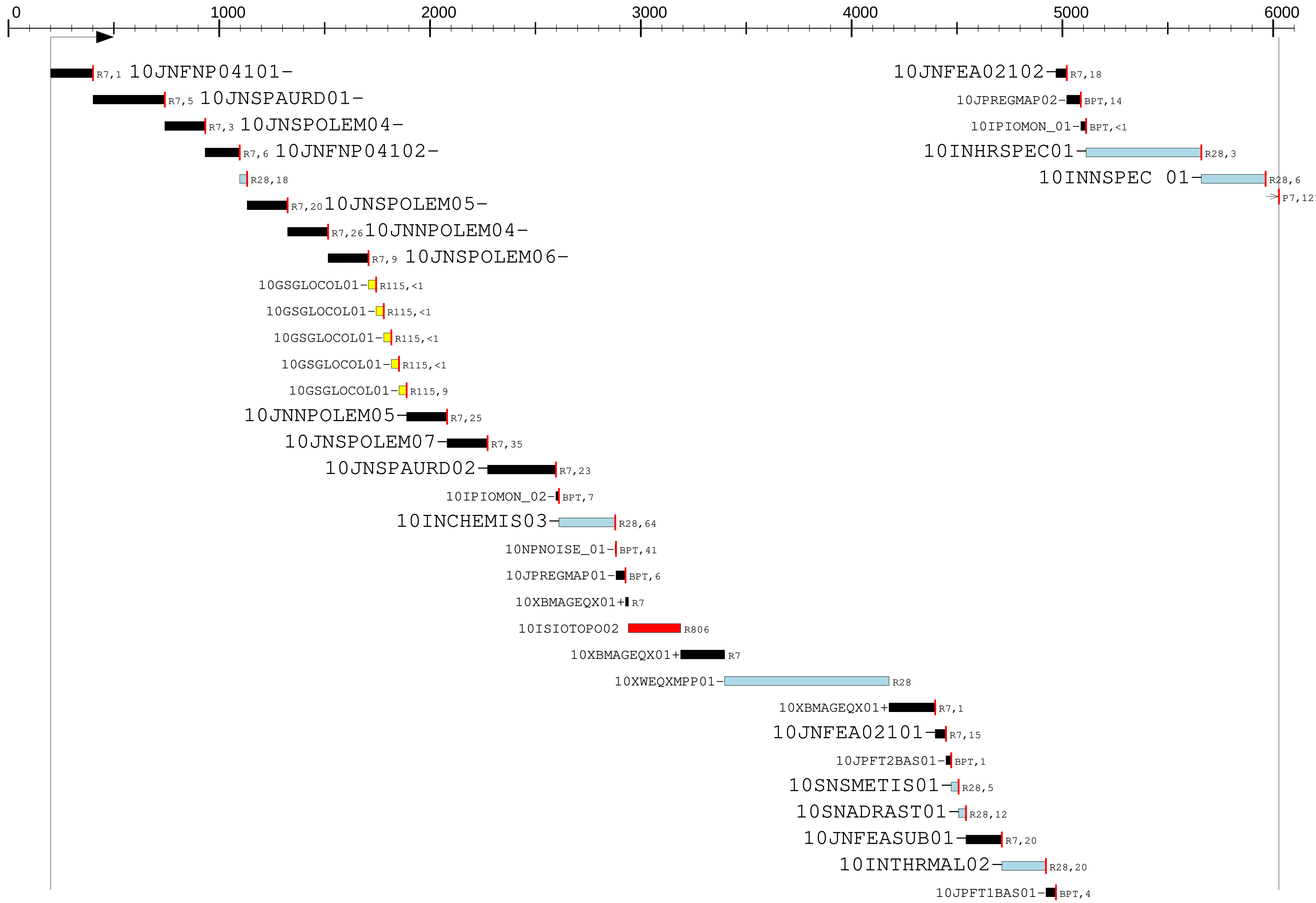

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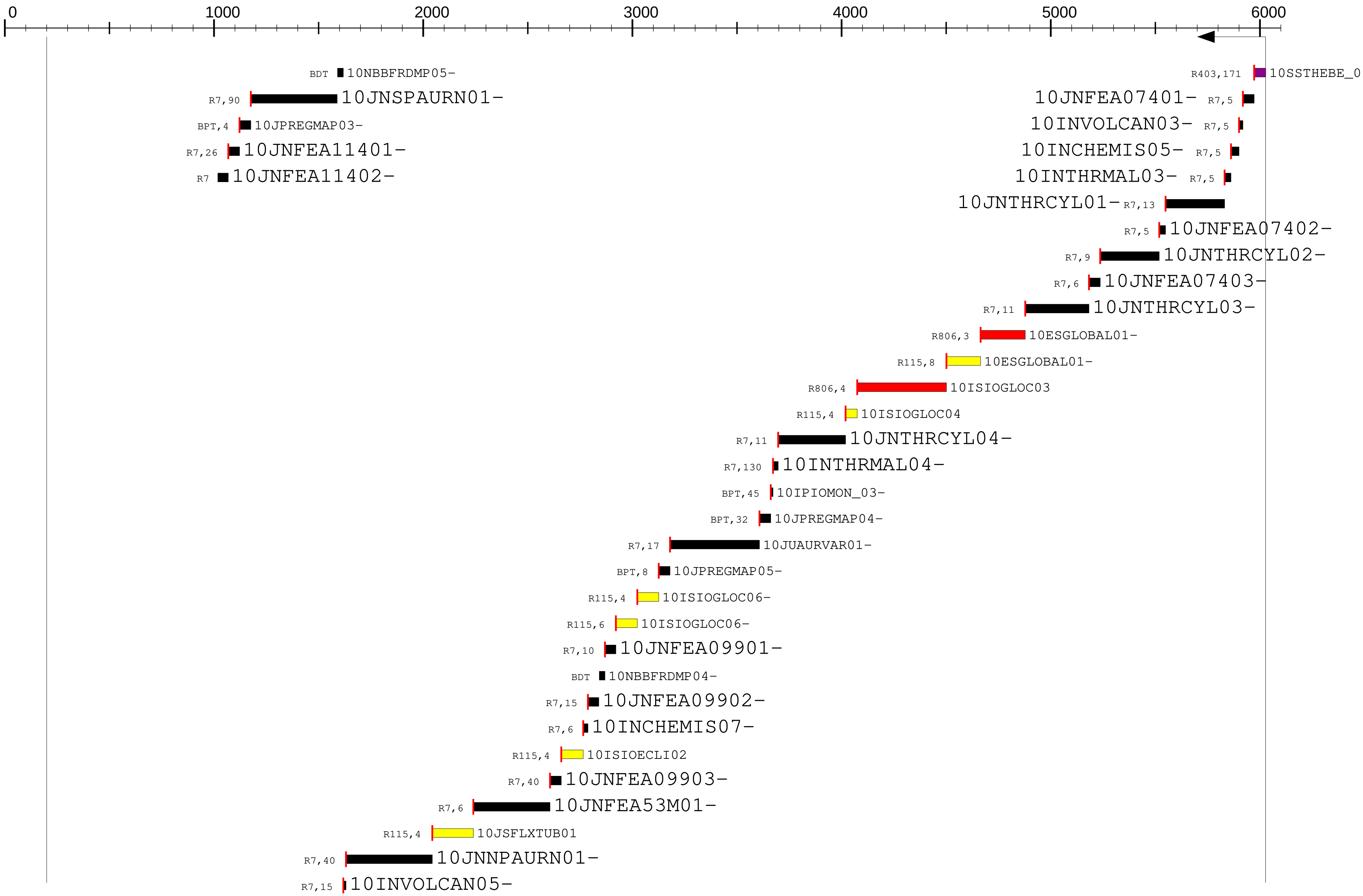

J.Culwell, 31-Dec-96, v0.02

Phase 2A Tapemap of c10bme.tapemap-c
Date: Mon Sep 8 12:52:46 1997 Page: 1

Track 4

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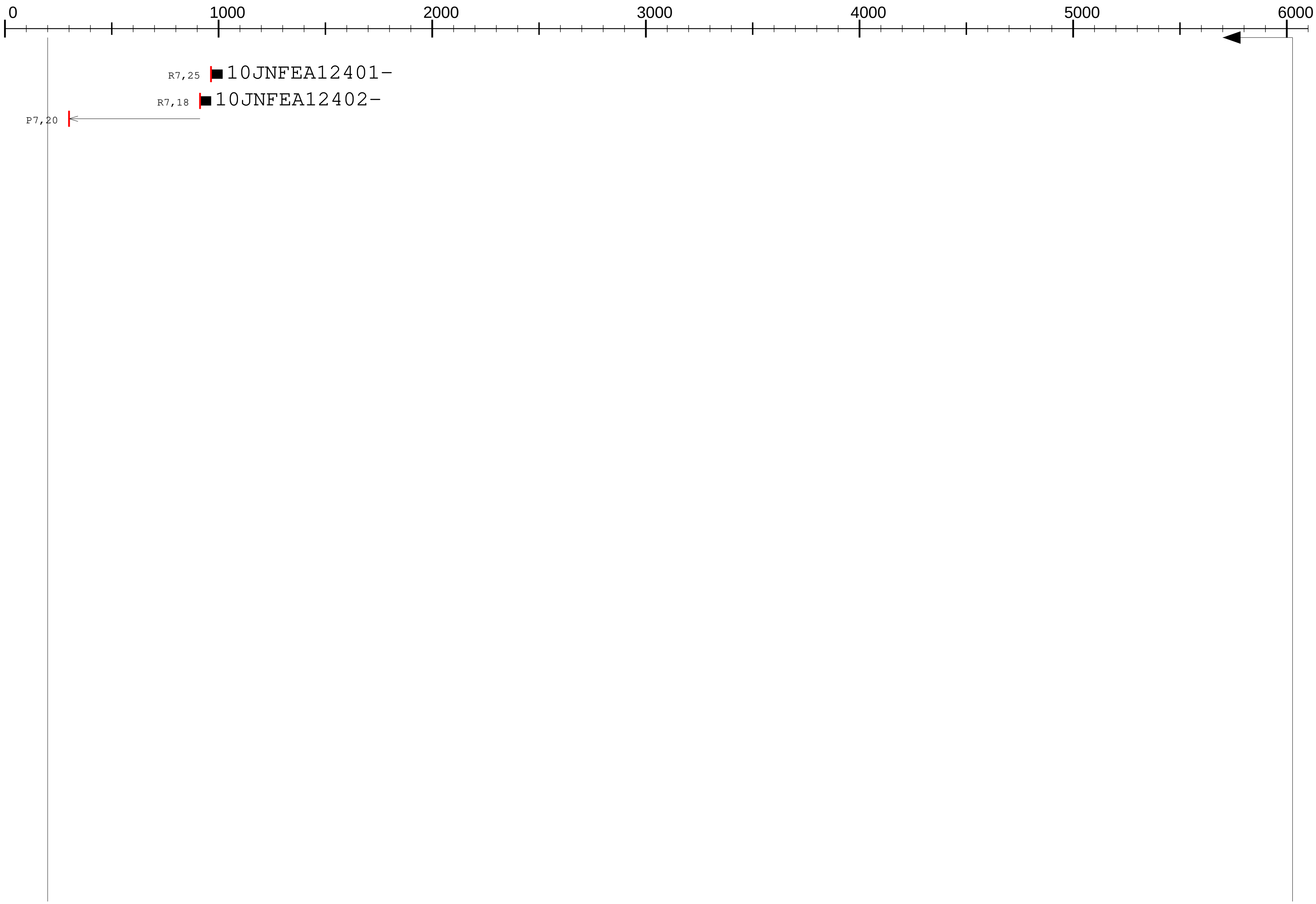

J.Culwell, 31-Dec-96, v0.02

Phase 2A Tapemap of c10bme.tapemap-c
Date: Mon Sep 8 12:52:46 1997 Page: 4

Track 3

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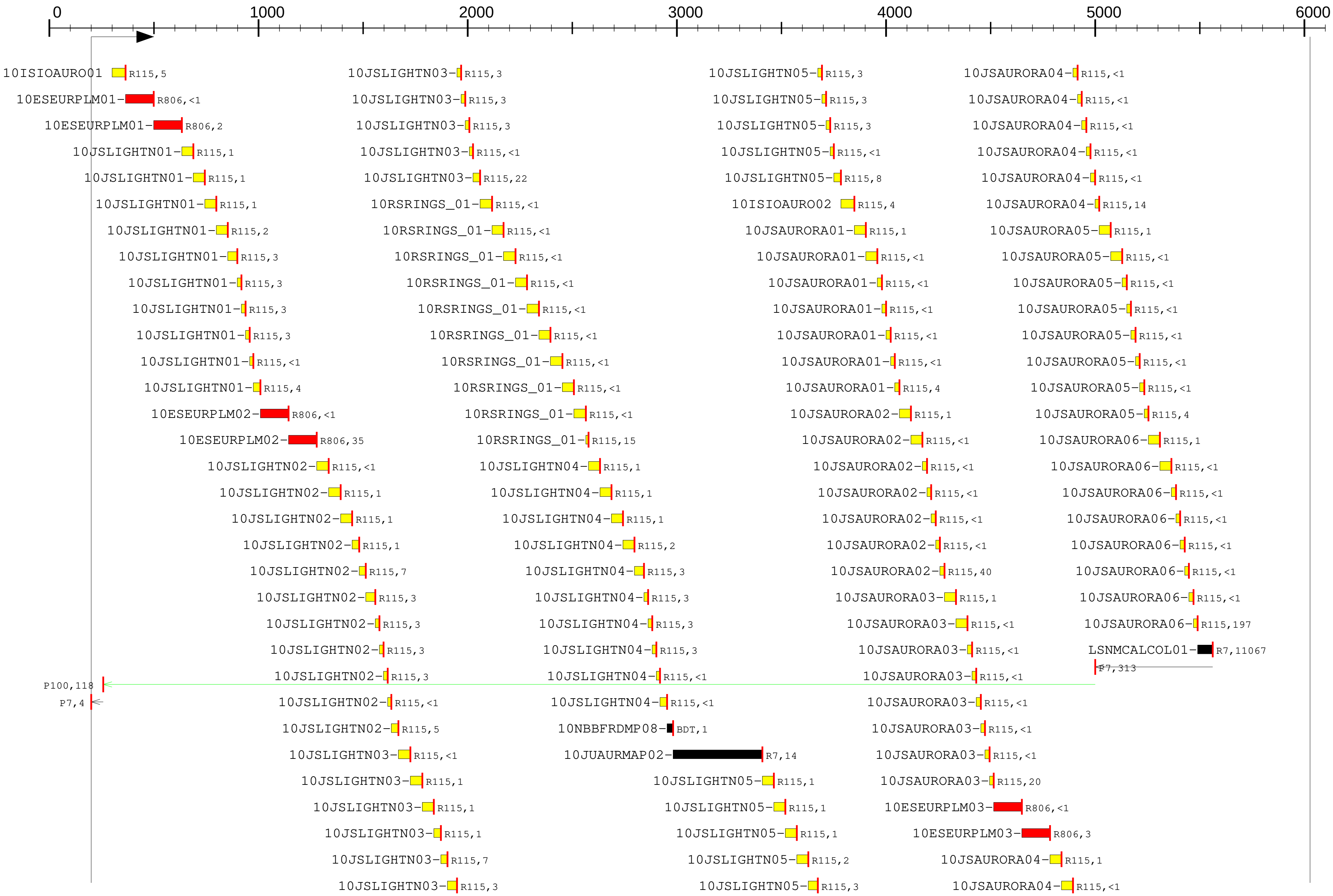

J.Culwell, 31-Dec-96, v0.02

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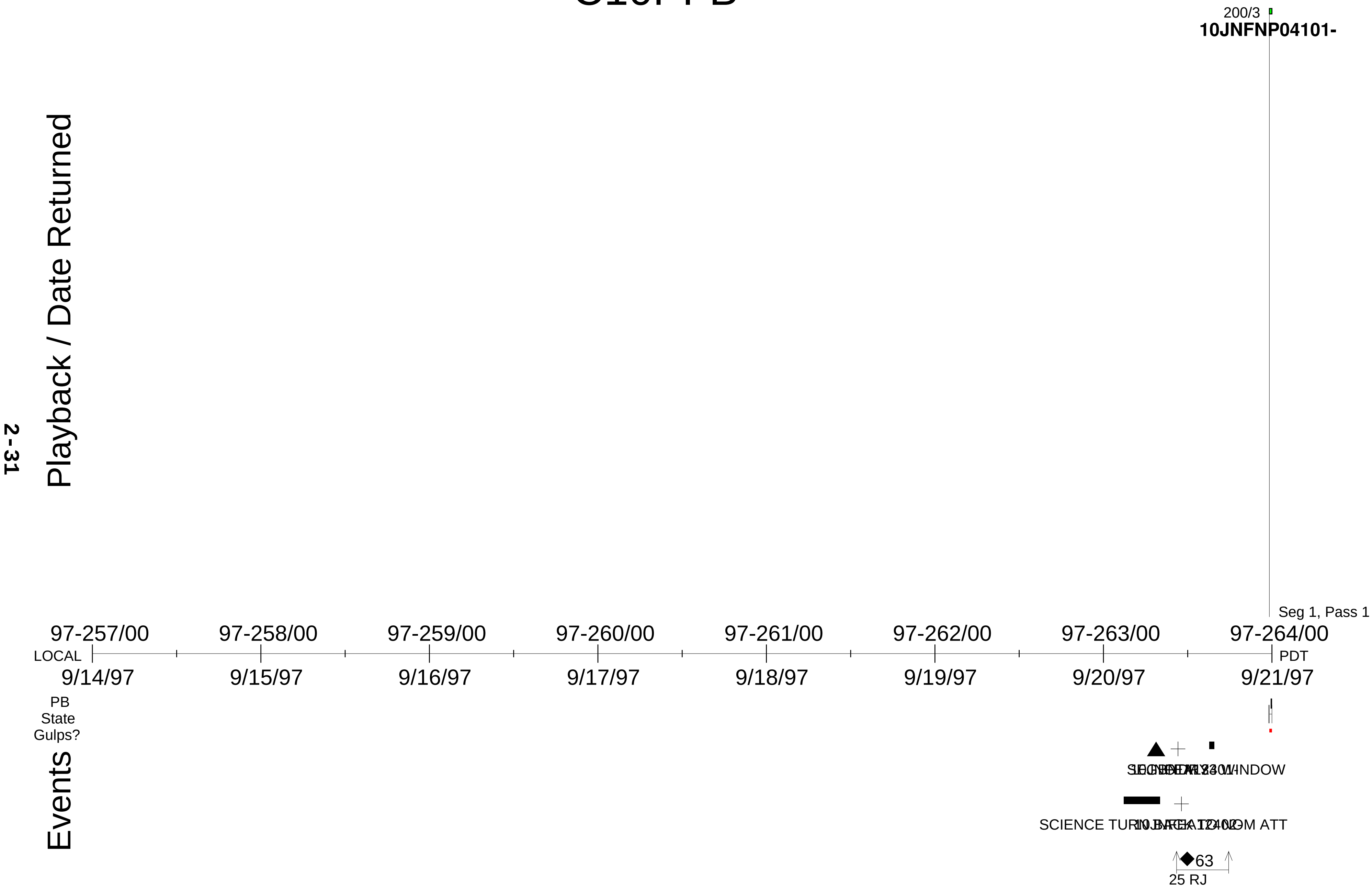

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97-264/00
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PDT
9/14/97
9/15/97
9/16/97
9/17/97
9/18/97
9/19/97
9/20/97
9/21/97
PB
State
Gulps?
Events
63
25 RJ

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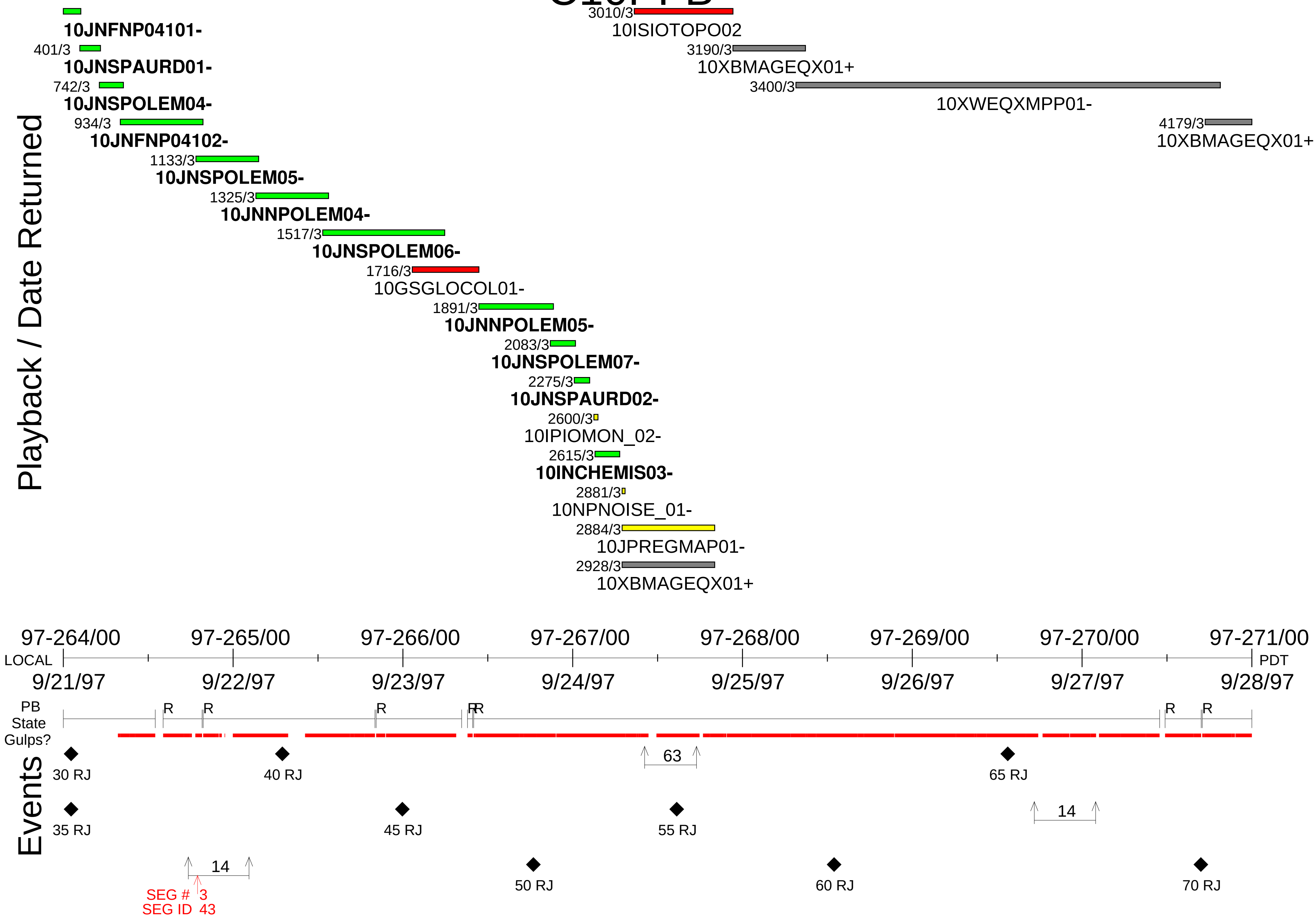

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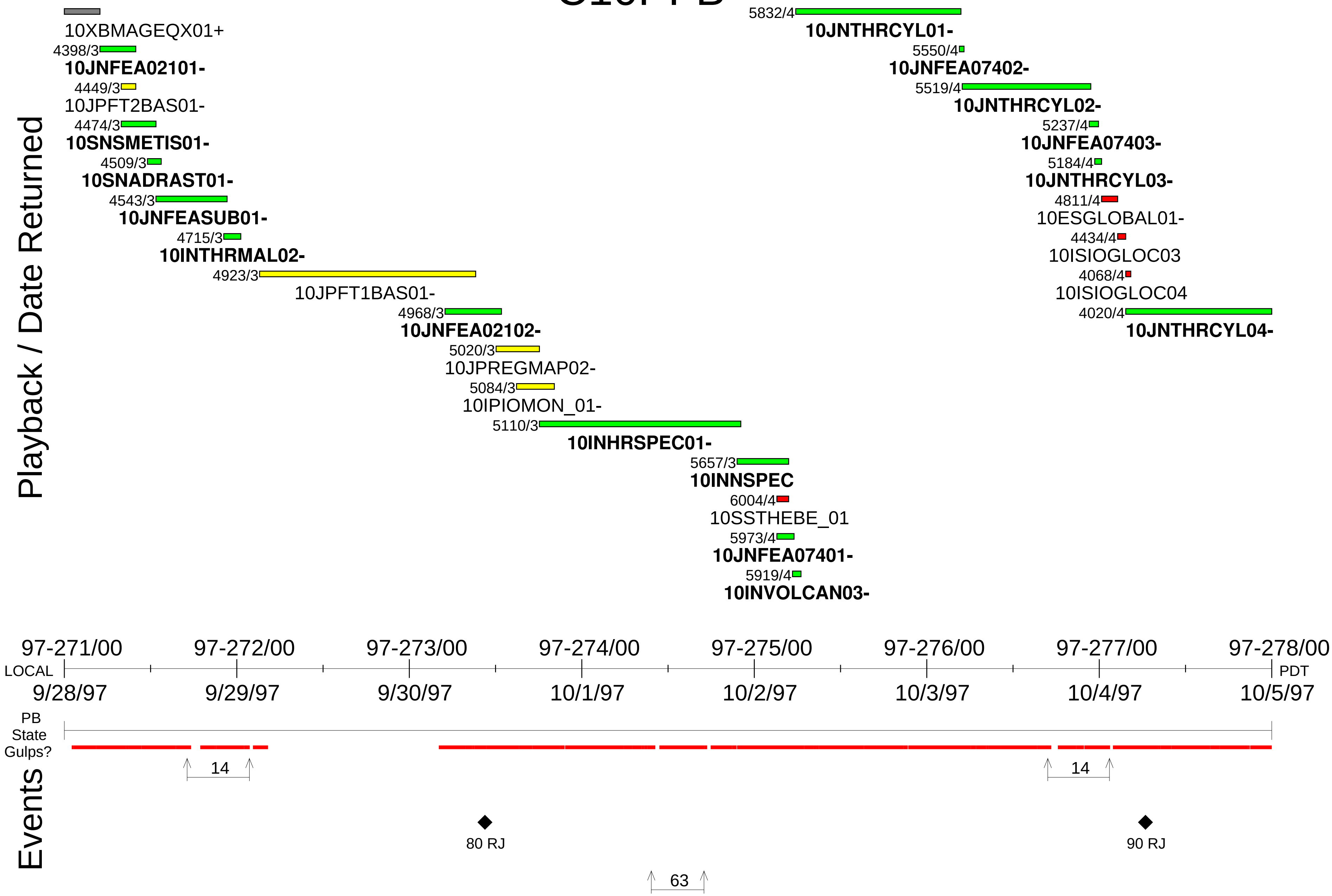
C10PFB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4509/3
10SNADRAST01-
4543/3
10JNFEASUB01-
4715/3
10INTHRMAL02-
4923/3
10JPFT1BAS01-
4968/3
10JNFEA02102-
5020/3
10JPREGMAP02-
5084/3
10IPIOMON_01-
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10INNSPEC
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5919/4
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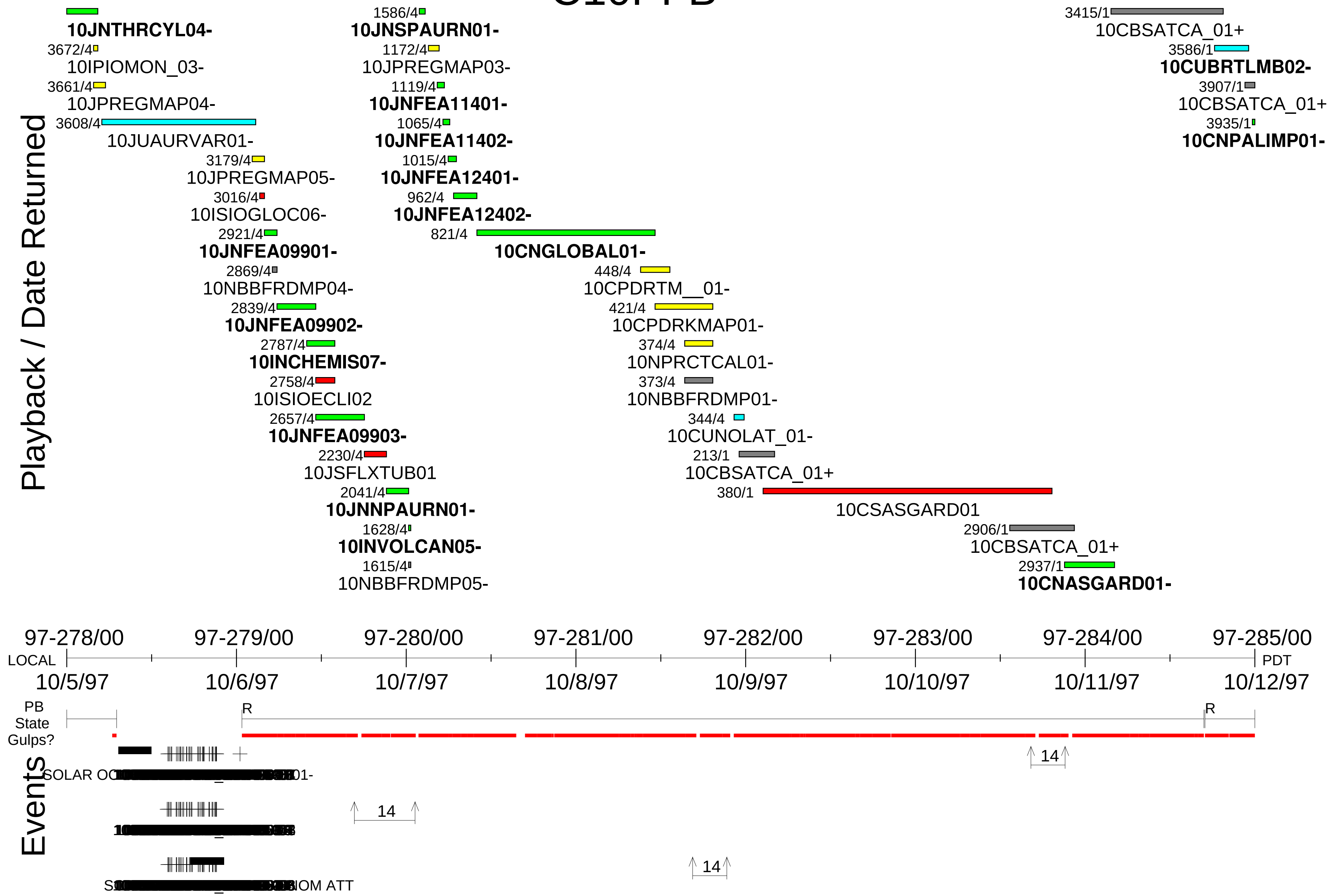
C10PFB



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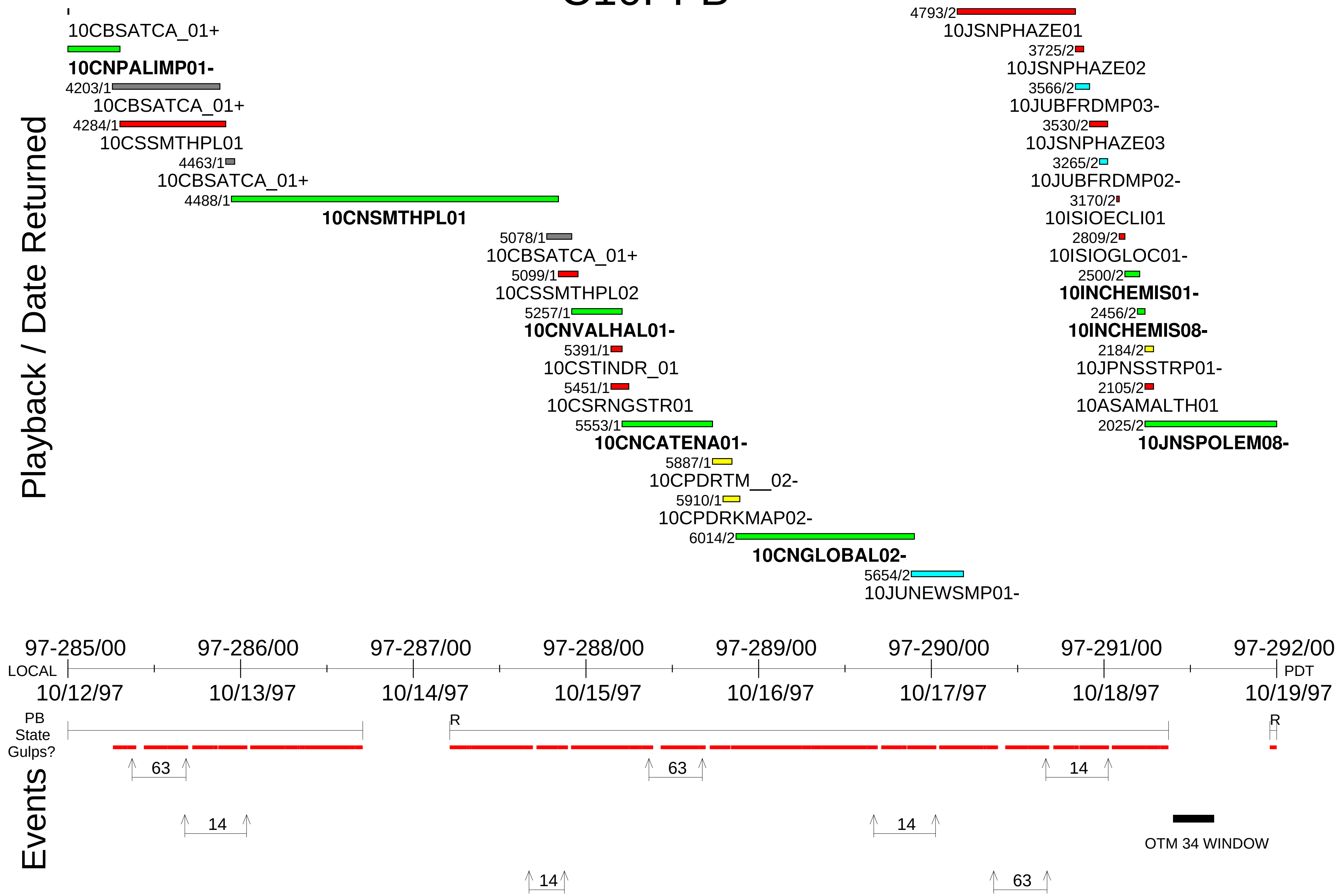
C10PFB



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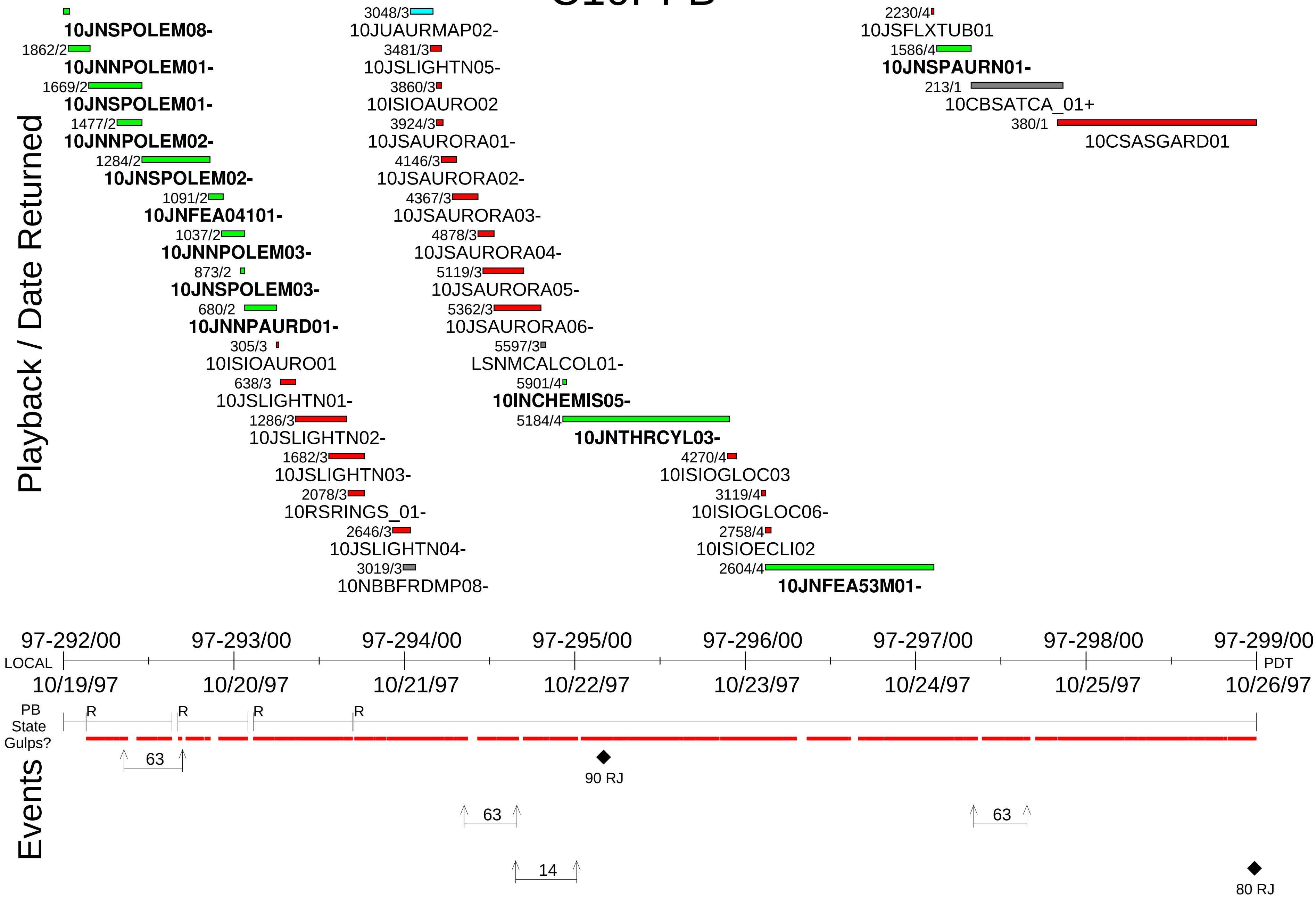

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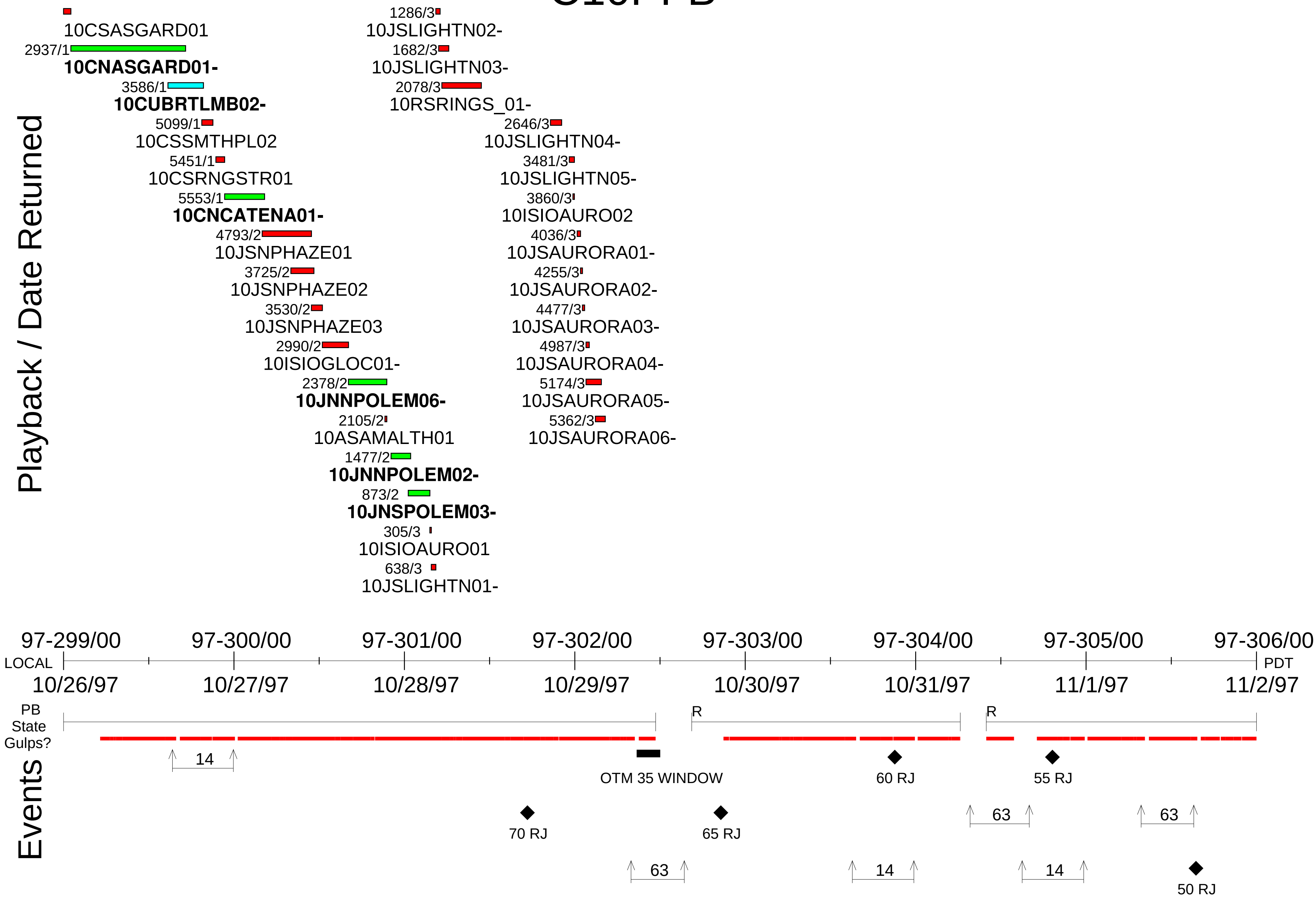
C10PFB



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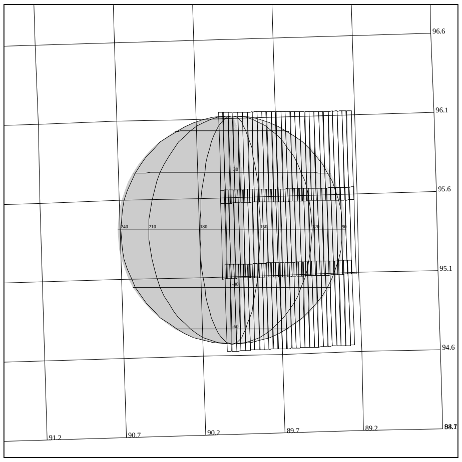
C10 NIMS A



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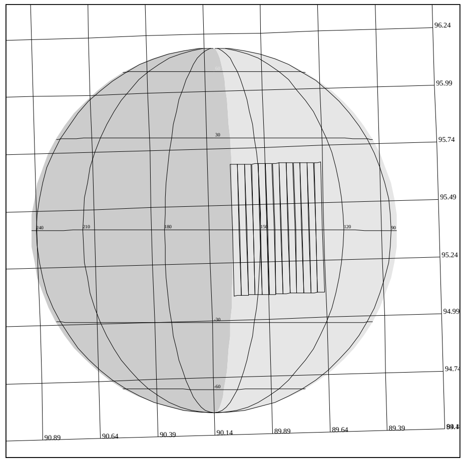

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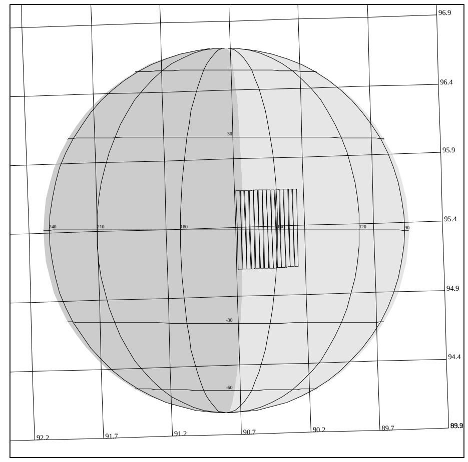

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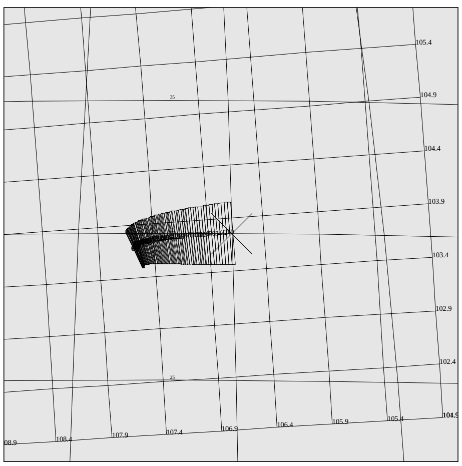

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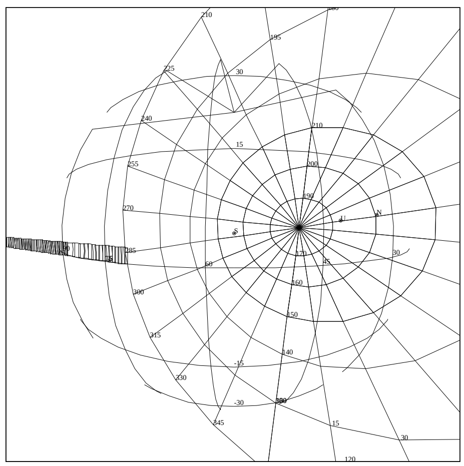

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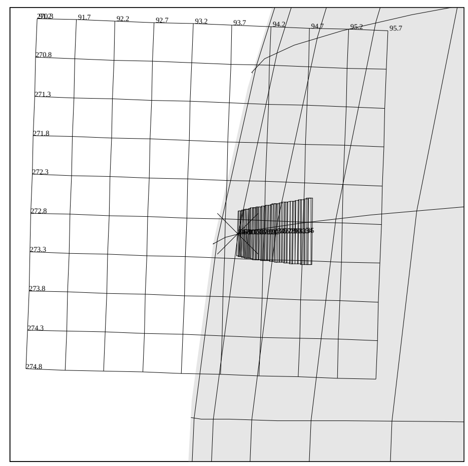

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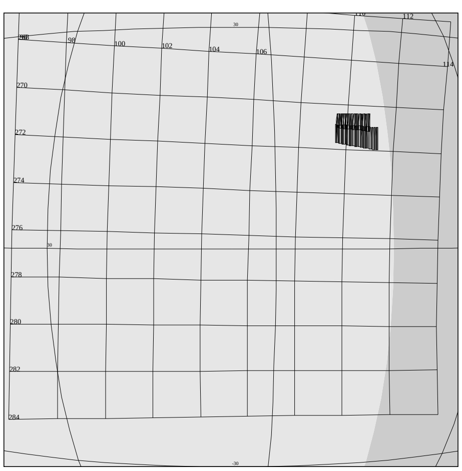

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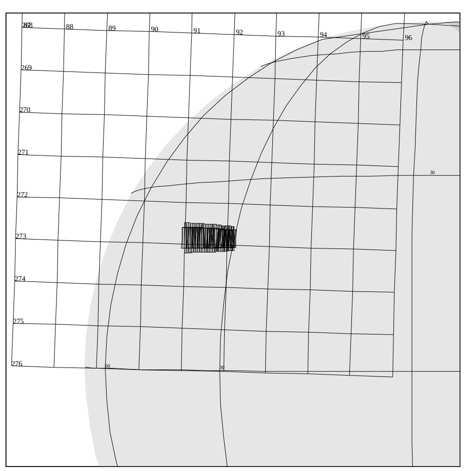

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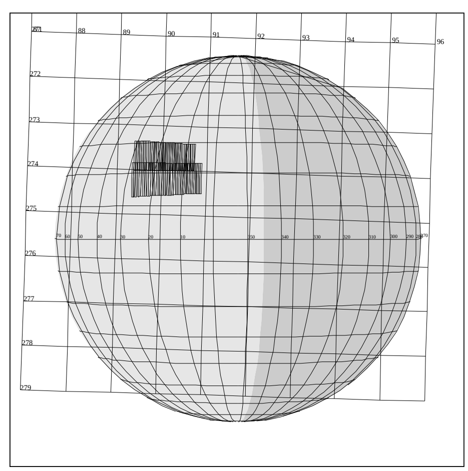

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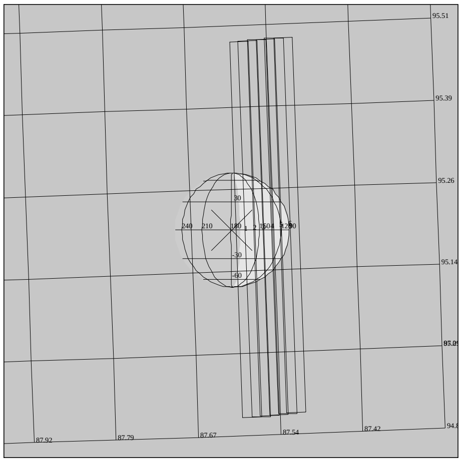
C10 NIMS B



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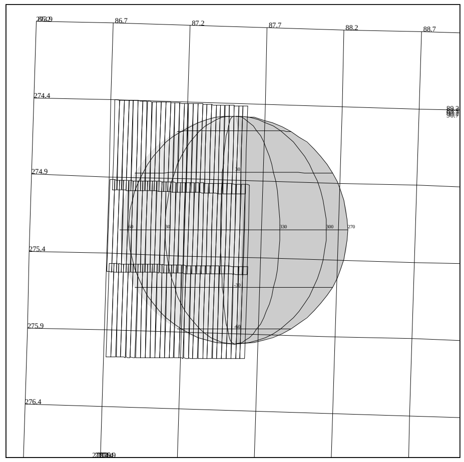

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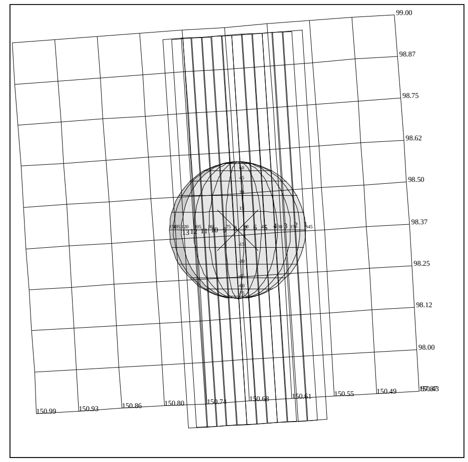

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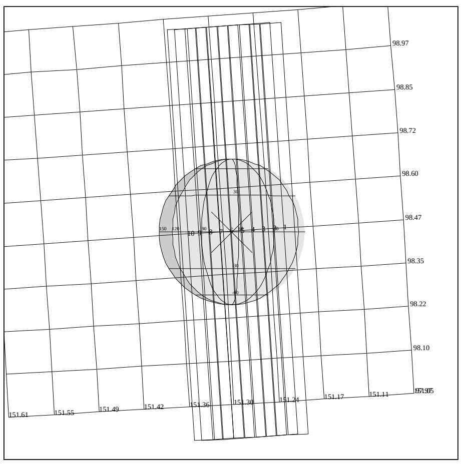

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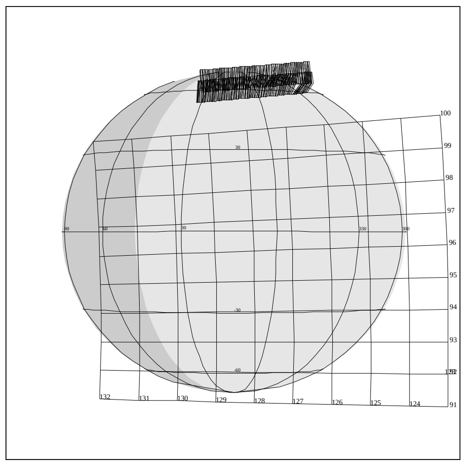

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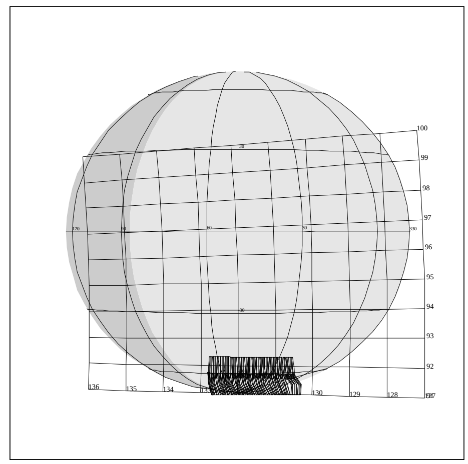

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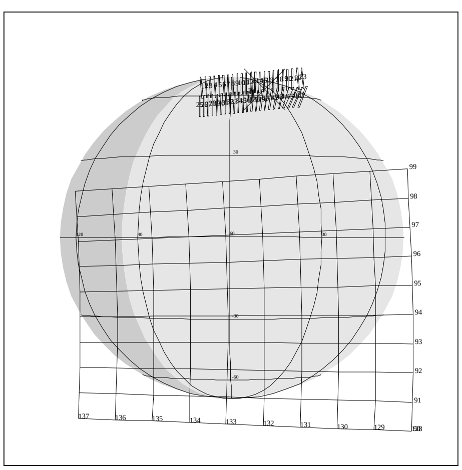

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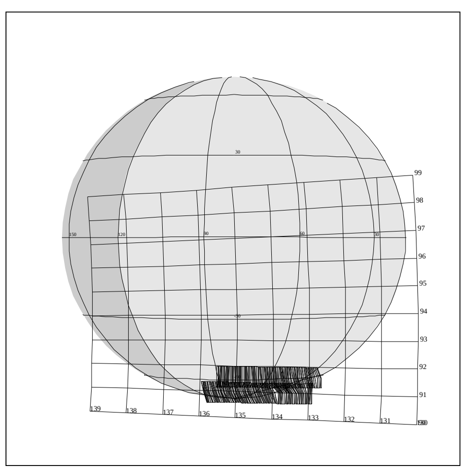

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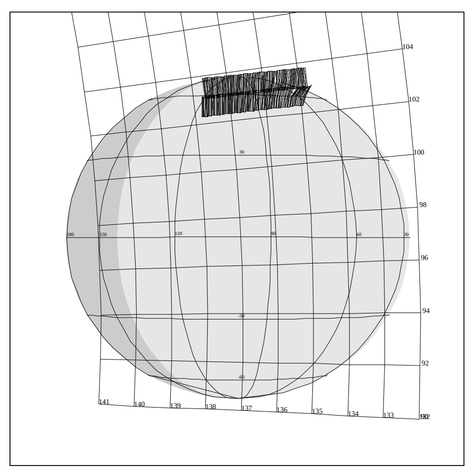

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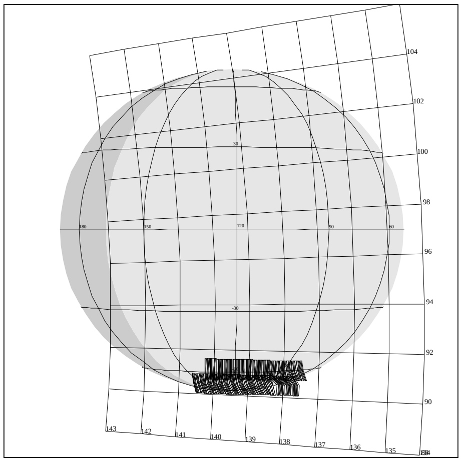

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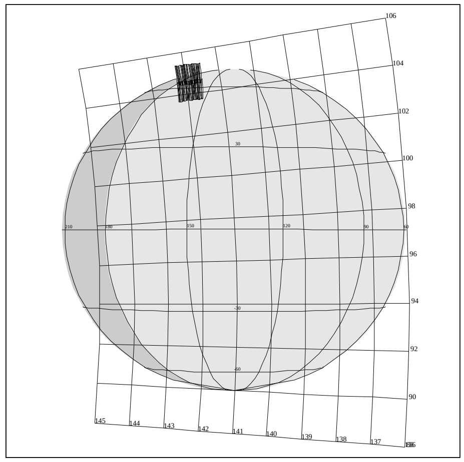

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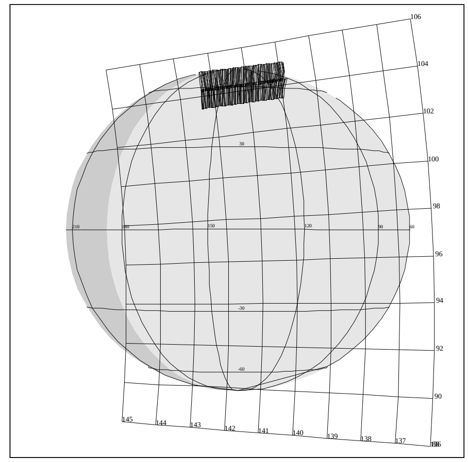

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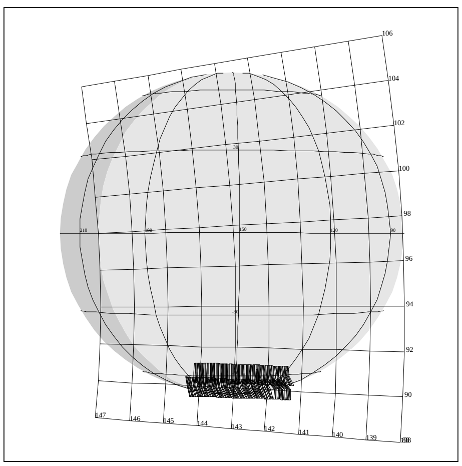

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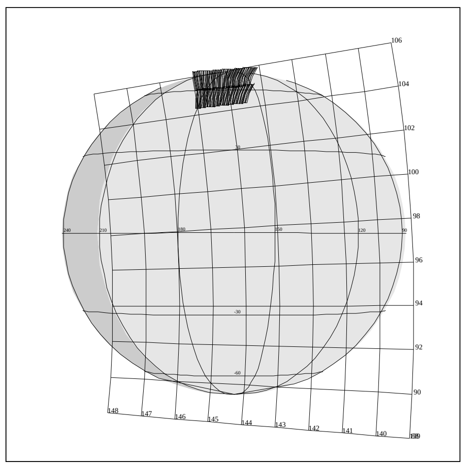

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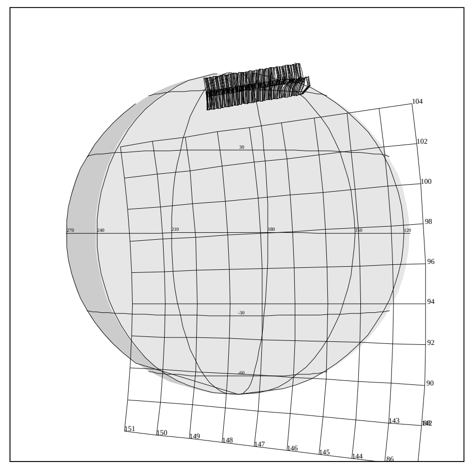

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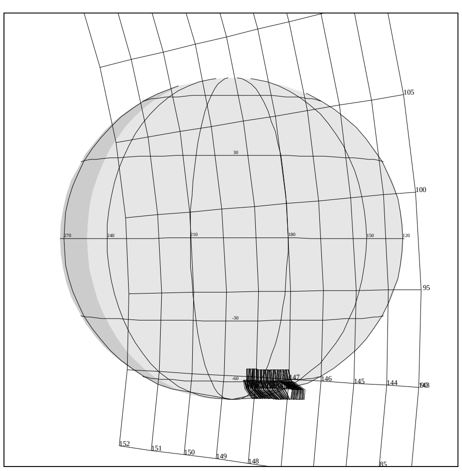

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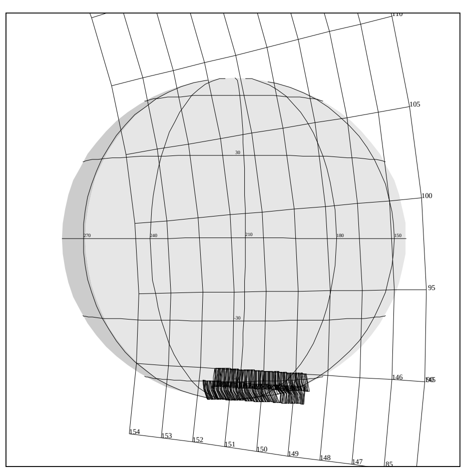

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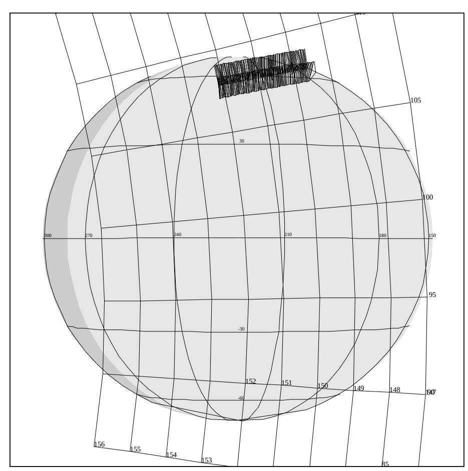
97-261/14:31:33



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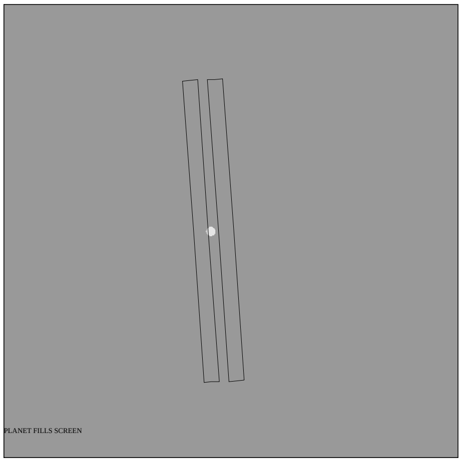

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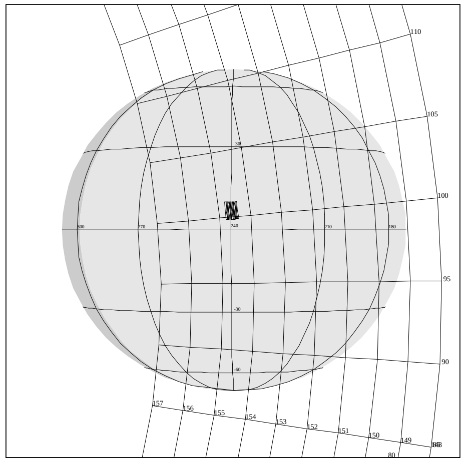
97-261/15:04:55



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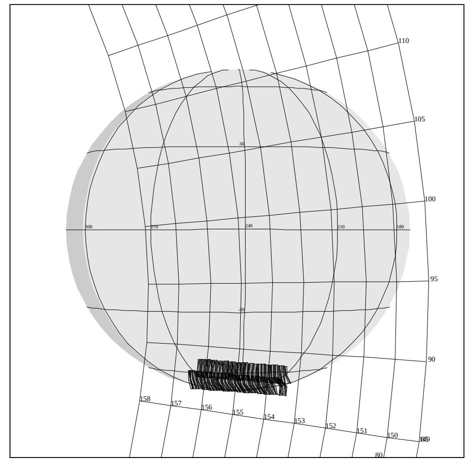

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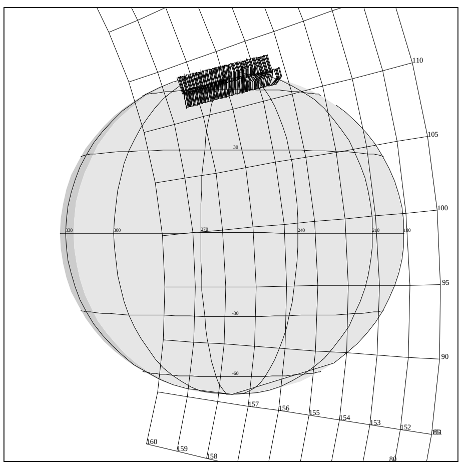

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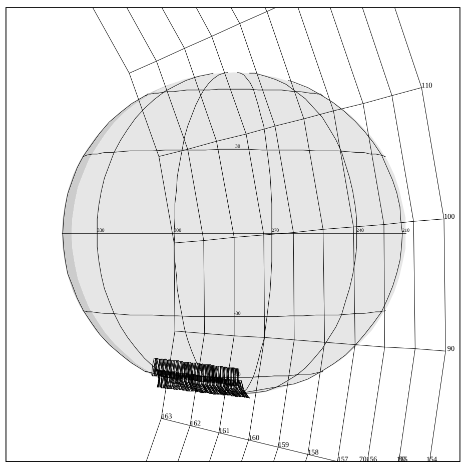

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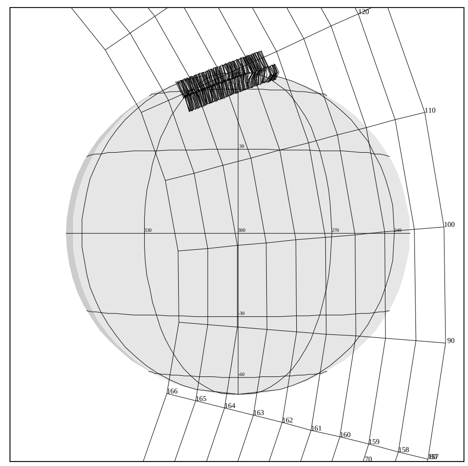

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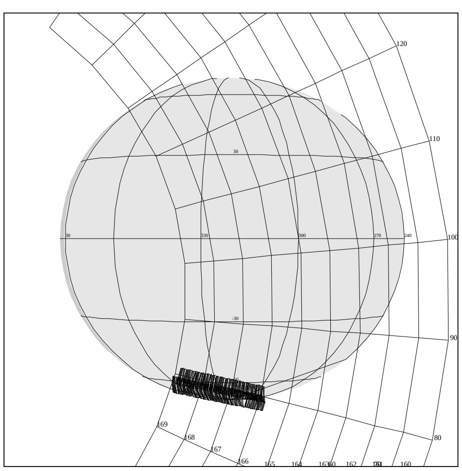

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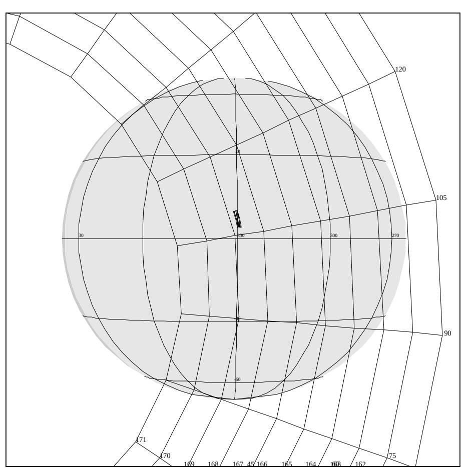

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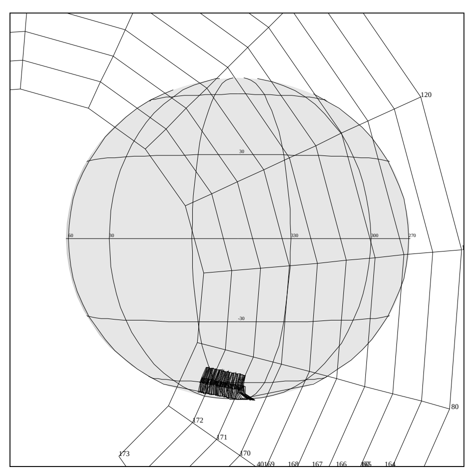

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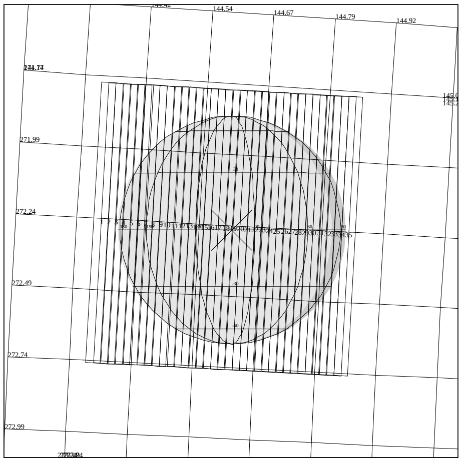
97-261/18:46:21

C10 NIMS E



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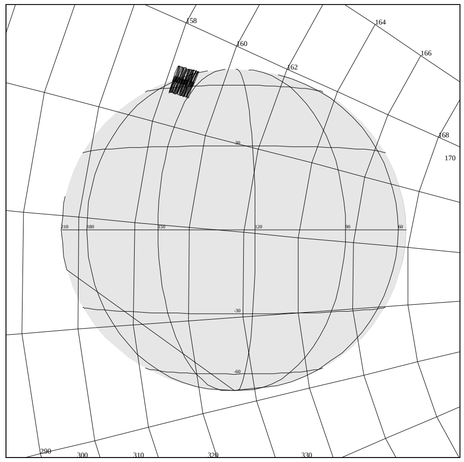
97-261/19:41:58



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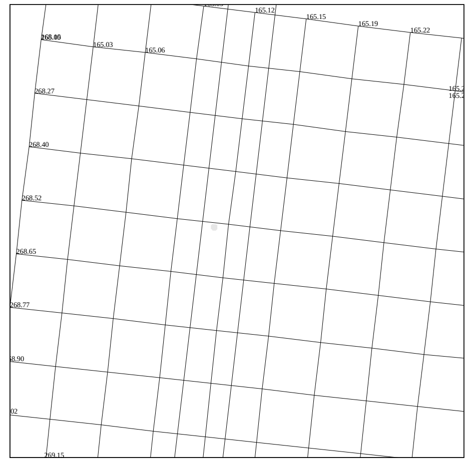
97-261/23:18:21



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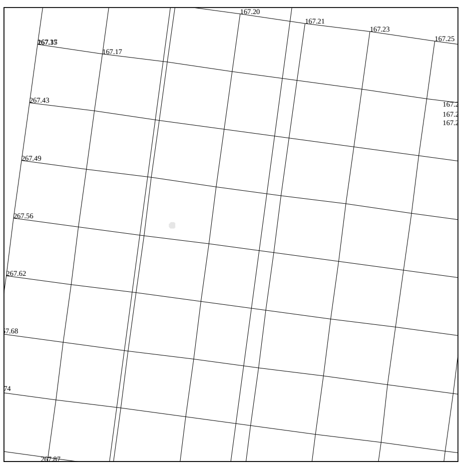

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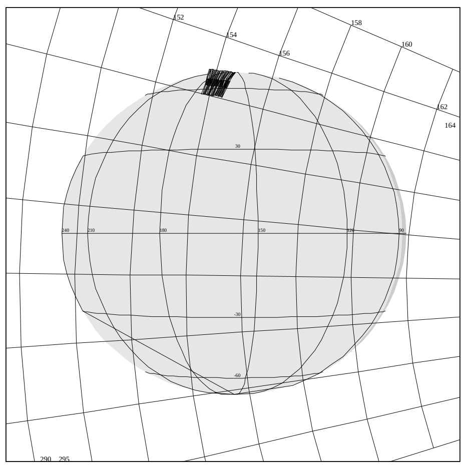

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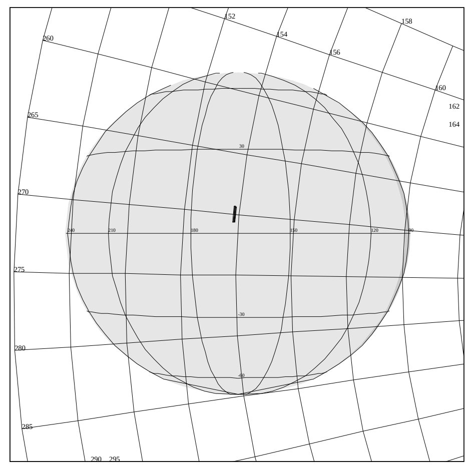

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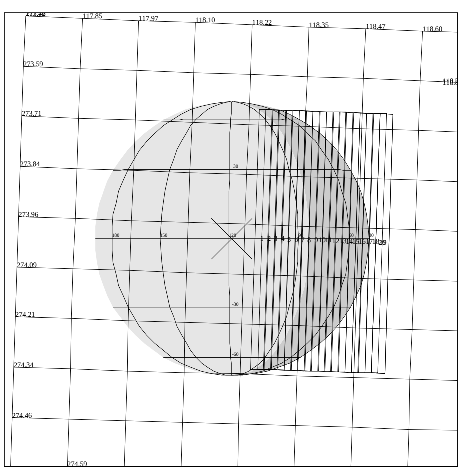

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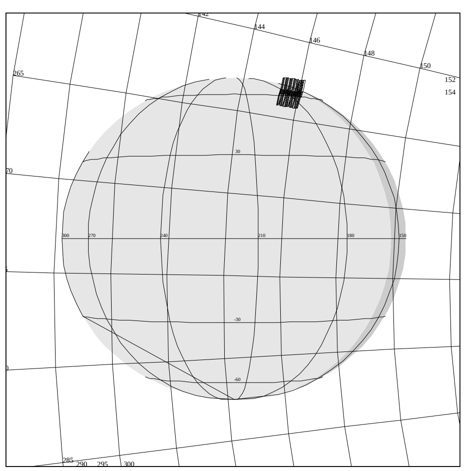

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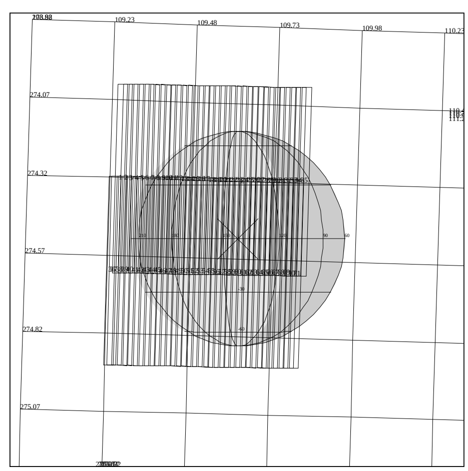

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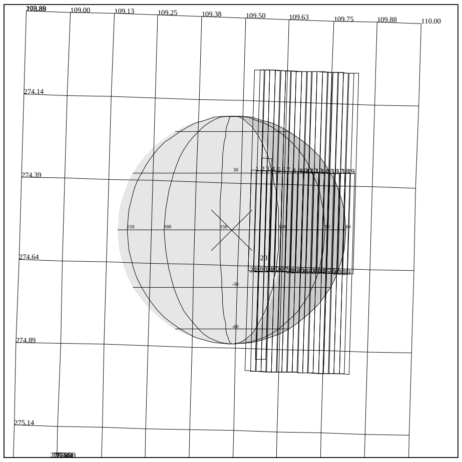

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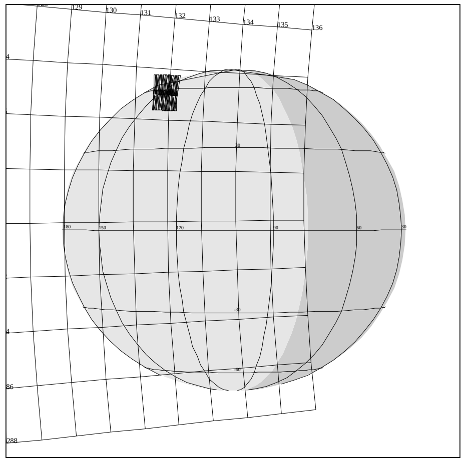

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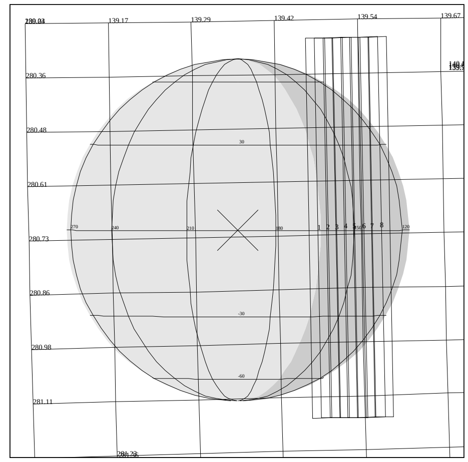

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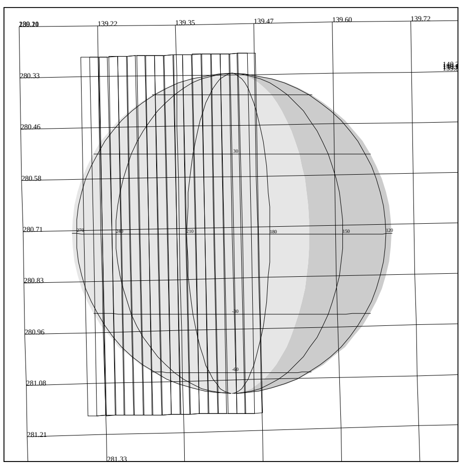

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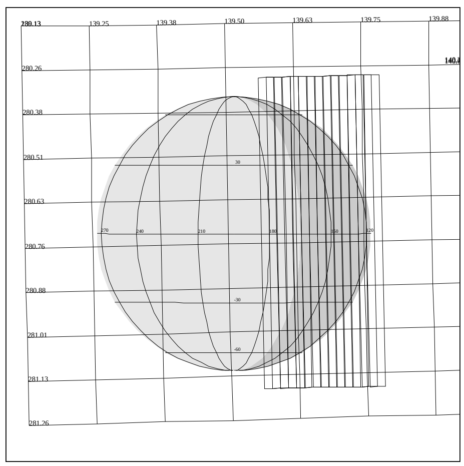

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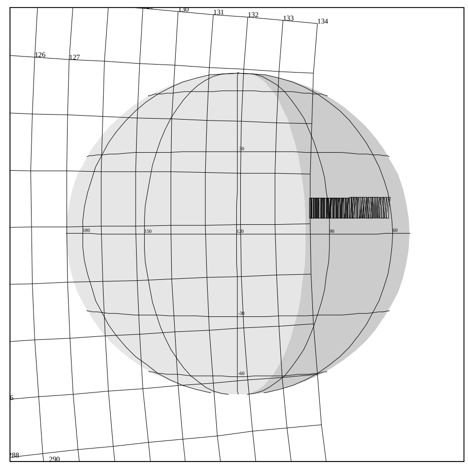

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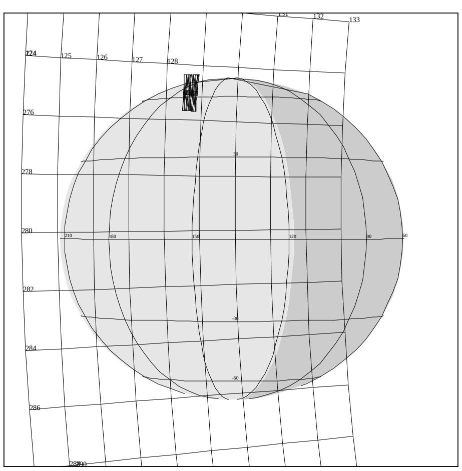

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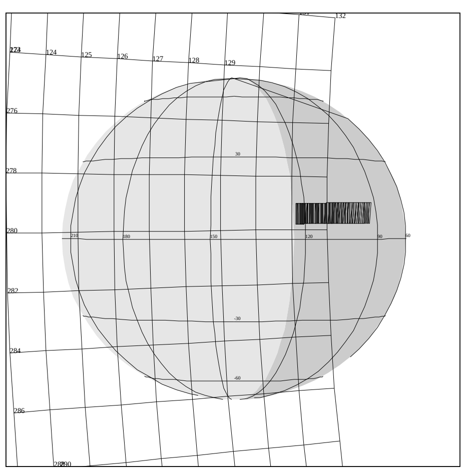

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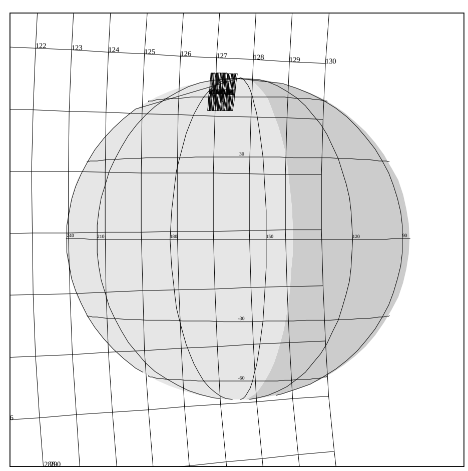

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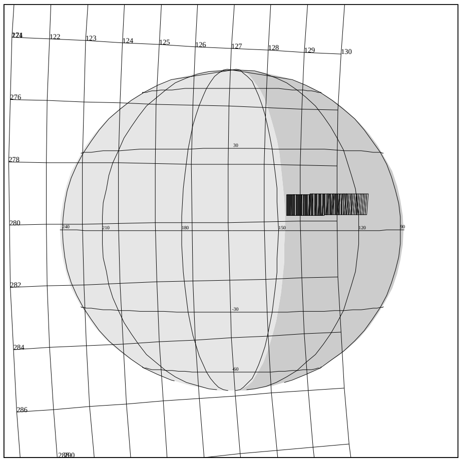

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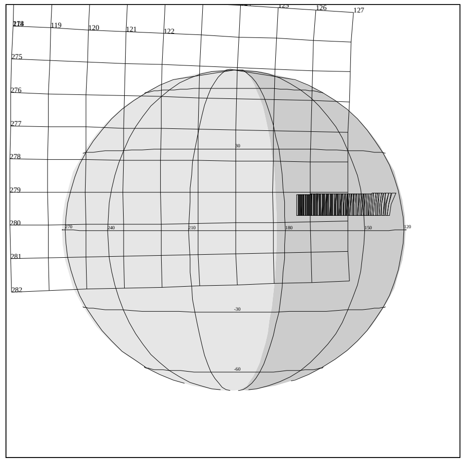

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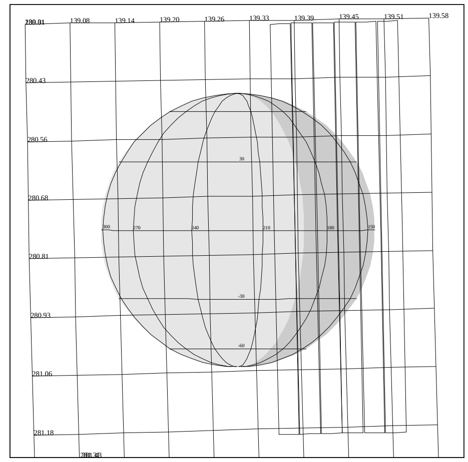

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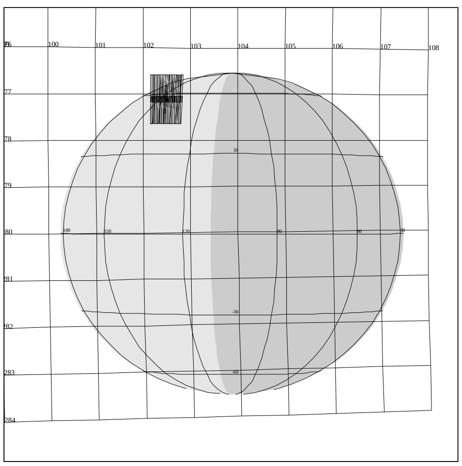

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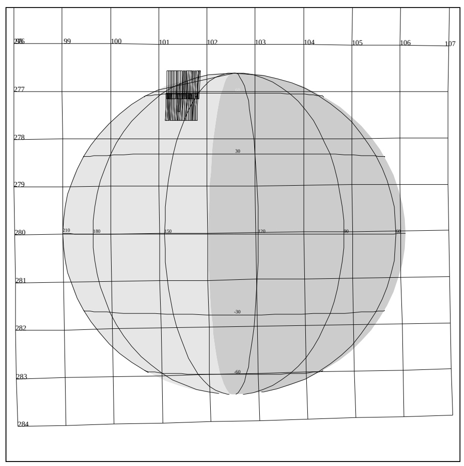

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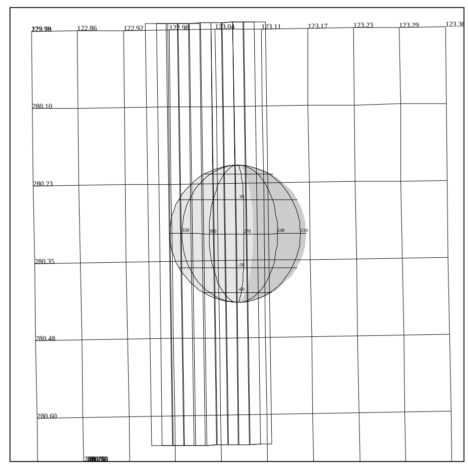

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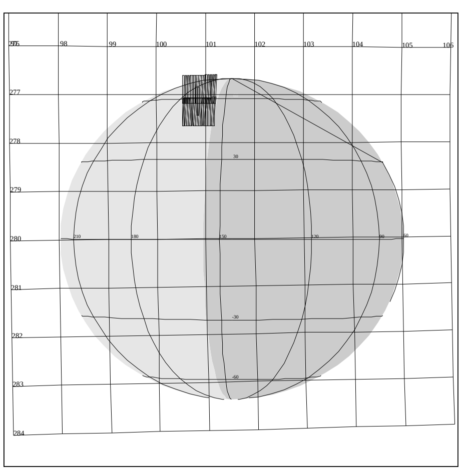

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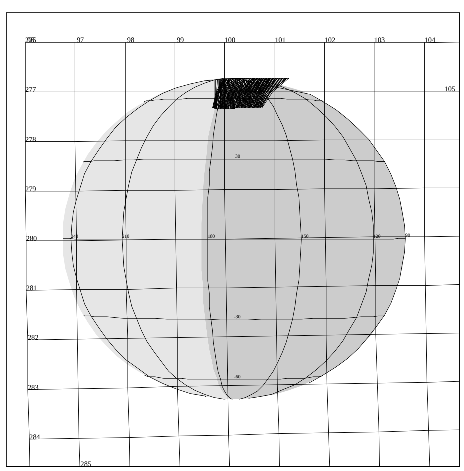

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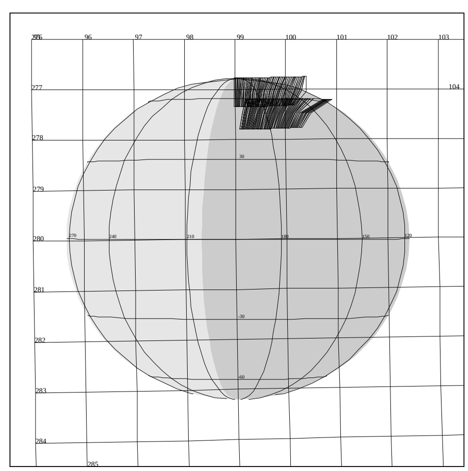

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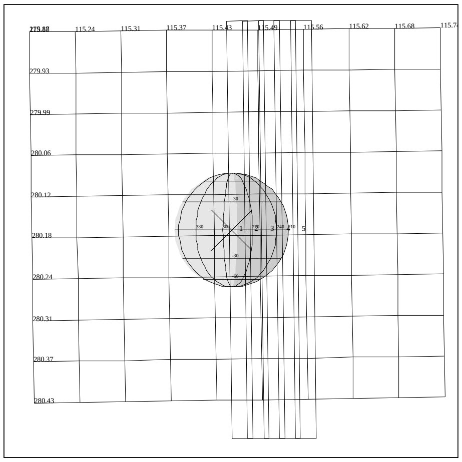

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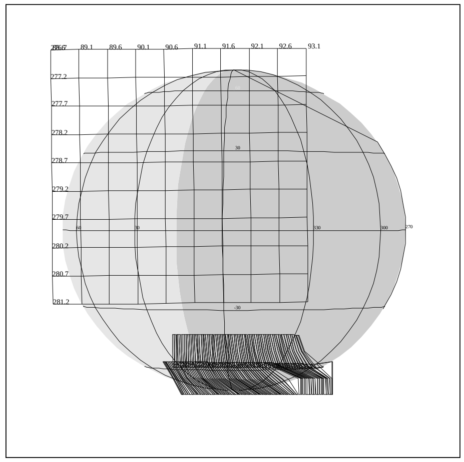

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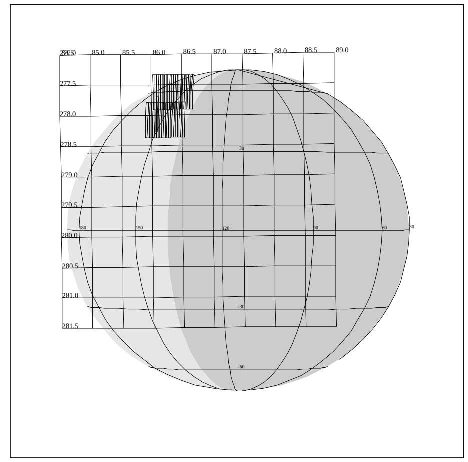

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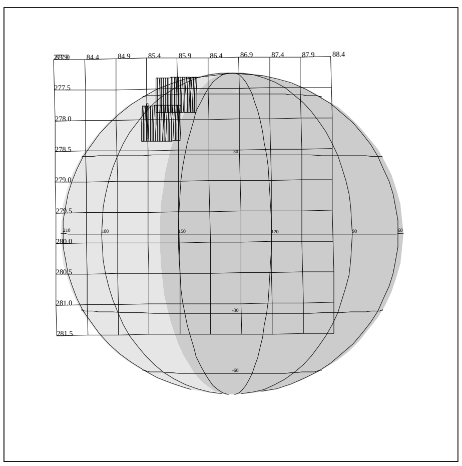

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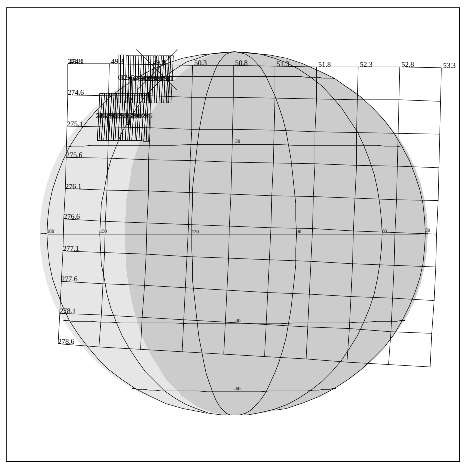

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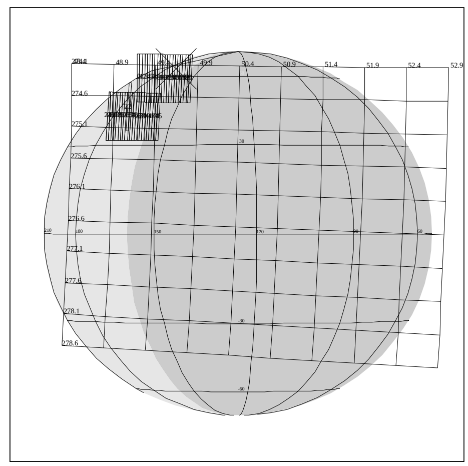

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