Chapter 2 - Orbit Overview

Contents

Introduction to Chapter 2

This chapter gives an overview of the NIMS observations in the C9 Orbit.

The text on pages 3, 4 and 5 summarizes the NIMS science objectives for C9. The NIMS calibrations are discussed on page 5. Early data return and C9 playback are also discussed on page 6.

The table on pages 7 through 10 is a time-ordered listing of the NIMS Oapels for C9.

The plot on page 11 shows the geometry of the NIMS C9 observations using a north trajectory pole view projection. The plot on page 12 shows the NIMS C9 Cruise observations. The plots on pages 13 and 14 show the geometry of the NIMS Satellite and Jupiter observations. The plot on page 15 shows the geometry of the NIMS C9 calibrations. The plot on page 16 shows the geometry of the NIMS RAM Reloads and MROs.

The spreadsheet on pages 17 through 19 summarizes the various inputs for the NIMS C9 Observations. The spreadsheet on pages 20 through 25 summarizes the resource usage for the NIMS C9 observations.

The table on pages 26 through 31 lists various NIMS C9 observing parameters: target latitude/longitude, range, cone angle, incidence angle (light), emission angle (view) and phase angle.

The tapemap on pages 32 through 44 shows the placement of the C9 observations on the spacecraft's tape recorder. The NIMS observation names are written with a larger type.

The timeline on pages 45 through 55 shows the preliminary C9 playback schedule.

The NIMS C9 mosaic designs are summarized on pages 56 through 67 in time-order.

NIMS C9 Science Overview

Io Science

The NIMS Io monitoring campaign for C9 include six CHEMIS, five VOLCAN, and two HIRES observations. Because of resource constraints, the THRMAL observations have been combined with the CHEMIS observations which will allow data being taken on the day and night sides of Io. In addition, three Io eclipse observations have been included. The first eclipse observation, INCOOLCV01, will investigate the cooling of hot spots on Io's surface as Io is entering (ingress) eclipsed. Eclipse entry time is 97-177/22:51:06. Secondly, INWARMCV01 will study the warming of the hot spots as Io is exiting eclipse (egress). The last eclipse observation will study the hotspots when Io is completely out of eclipse (post-egress).

Europa Science

Two Europa eclipse observations ,ENCLIPSE01 and ENCLIPSE03, are planned. The first and second NIMS observation of Europa will be taken during ingress and egress respectively. The objective of these observations is to determine a cooling and warming curve which will help assess the presence of temperature variabilities on Europa's surface. The begin and end times for ENCLIPSE01 are 97-177/15:53:19 and 97-177/16:12:32 respectively. Also, the begin and end times for ENCLIPSE03 are 97-177/18:45:13 and 97-177/19:05:26, respectively.

Ganymede Science

NIMS has planned four observations for Ganymede. Two global observations, GNGLOBAL01 and GNGLOBAL02, will obtain high spectral resolution maps of Ganymede's surface to study surface mineralogy and distribution of compositional units. This data will also be used to compare with other satellites to look for similarities and differences in surface structure and compositional units. The third observation, GNDRKLIT01, will study dark and light transition area near the Galileo Regio. The fourth observation,GNDARLED01 will take two sets of data. It was combined with GNBRILED01 to conserve CDS bytes. GNDARLED01 will study the bright and dark endmembers in the leading hemisphere to identify narrow mineralogic features or those associated with ices other than water at a phase angle of 85 degrees.

NIMS C9 Science Overview

Callisto Science

Six observations of Callisto are planned for NIMS. CNGLOBAL01 will obtain combined spectral and spatial resolution data of Callisto's surface to determine compositional variations. Both ANARR and SKULD observations are high spatial-resolution observations designed to observe small surface features to search for subsurface materials which have welled up in the crater centers. The north latitude observation, CNNOLAT01, will obtain high spatial and spectral data to determine compositional variations as well as investigate the dark material in the Northern regions. Two separate observations will study the Valhalla crater. CNVALSPC01 will do a spectral scan of Valhalla's Palimpsest and ring structure to determine compositional differences, as well as identify minor constituents. CNVALHAL01 will observe Callisto's largest multi-ring structure, Valhalla, to determine the composition and albedo of the Palimpsest and surrounding surface.

Jupiter Science

NIMS has planned a total of sixty-eight atmospheric observations for C9. These include nineteen Great Red Spot (GRS) observations at phase angles of (in time order) 51, 11, 39, 75, 95, 156 and 145 degrees. In addition, twelve feature track observations are included that will study an interesting hotspot/plume area at phase angles of 15, 57, 85, 102, 156 and 145 degrees. JNGRS53M01 and JNGRS5UM01 observations are special night-time high spectral resolution measurements covering the 3 and 5 micron windows designed to map trace species within the GRS feature campaign. Similarily, JNFEA53M01 and JNFEA5UM01 observations combine 5 and 3 micron night-time observations to map of trace species for the hotspot/plume.

Apart from such feature track observations, four south polar observations will cover South polar latitudes over a hemisphere from 260 to 150 degrees. Moreover, four thermal cycle maps constitute a partial Jupiter Cylindrical map spanning half the planet centered on the 7-degree north latitude hotspot region to assess lower-tropospheric properties such as phosphine and water abundance variation with longitude, and 5-micron variability of ammonia cloud opacity. The first two OAPels (JNTHRCYL03 and JNTHRCYL04), cover 130-200 degrees West longitude (System III) while the last two OAPels (JNTHRCYL06 and JNTHRCYL07) cover 240-360 degrees West longitude.

Jupiter Science (continued)

Full spectra of the GRS and Hotspot/Plume feature are acquired during the JNGRSFUL01 and JNFEAFUL01 observations. Approximately a dozen "jailbar" full spectral samples are acquired of these targets at a low phase angle. Three real-time night-time hotmap spectra of the hotspot region are acquired for four NIMSels during OAPels JNRTHOTS01, JNRTHOTS02 and JNRTHOTS03, longitudes sampled are approximately 0, 125 and 280 degrees West longitude.

Aurora are the subject of 15 OAPels, encompassing both real-time and recorded spectra and recorded maps. NIMS takes part in the FPSG aurora campaign B, acquiring a map at the Southern auroral region (55 degrees South, approximately 310 degrees West) at the begining and end of the campaign (OAPels JNAUCAMB01-02) and 5 real-time, 4-NIMSel spectra at various longitudes during the campaign (OAPels JNAURRTB01-05). Additional real-time spectra of the Southern auroral region at 310, 345, 45 and 210 degrees West longitude are acquired in OAPels JNSRTAUR01-03 and 06. Finally, four real-time spectral observations are acquired in ride-along with UVS (OAPels JNAURMAP01-03 and JNAURVAR01). The last of these (JNAURVAR01) occurs during the FPSG campaign A, and targets the Io fluxtube, searching for short-term variability.

Finally, nearly pole-to-pole limb views of Jupiter at 145 and 156 degrees phase angles are acquired amongst OAPels JNGRS14501, JNFEA14503, JNSOU14501, JNNOR14501, JNEQU14501 (for 145 degrees phase) and JNGRS15601, JNSOU15601 and JNNOR15601 (for 156 degrees phase).

Ring Science

There is one NIMS Ring observation in C9. This observation is different from previous ring observations in that NIMS stares at the same location for 4 Rims instead of scanning across the ring area. The objective is to add the spectra to increase the signal-to-noise ratio.

Calibration

There are nine NIMS calibration observations in C9: two starcals, three darkcals, two RCT cals, one PCT Cal and one OPCAL. The starcals (STRCAL) looks at the star Vega. The darkcal observations (DARK) 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. The NIMS C9 PCT calibration takes place during the PCT-CAL science turn when the spacecraft sun angle is zero degrees.

NIMS C9 Science Overview

Early Data Return

There are 19 realtime NIMS observations in C9: 8 Jupiter Aurora observations (SRTAUR, AURMAP and AURVAR), 3 Jupiter Hotspot observations (RTHOTS), 2 Europa observations (RTECLI01-03), 2 Ganymede observations (RTSULC and RTGLOB), 1 PCT calibration, 2 RCT calibrations, and 1 OPCAL. The times for when these realtime observations will be returned can be found on page 1-05 of the NIMS Guide, but these observations are subject to buffer dumps to tape.

C9 Playback

C9 playback is split into three passes, but with only two complete passes through the tape. There are also three Record During Cruise sections where data taken during Cruise are recorded over data that have already been played back.

C9 Time-Ordered Listing

OAPEL	Start (UTC)	End (UTC)	Duration
C9NNCHOPON01-	97-176/05:12:27	97-176/05:22:34	000/00:10:06
C9CNGLOBAL01-	97-176/06:22:13	97-176/07:26:26	000/01:04:13
C9CNANARR 01-	97-176/13:54:11	97-176/14:12:00	000/00:17:48
C9CNSKULD 01-	97-176/14:24:31	97-176/14:41:59	000/00:17:28
C9CNNOLAT 01-	97-176/14:56:52	97-176/15:11:00	000/00:14:07
C9CNVALSPC01-	97-176/15:14:04	97-176/15:39:00	000/00:24:56
C9CNVALHAL01-	97-176/17:46:44	97-176/18:21:00	000/00:34:15
C9HNDARK__01-	97-176/18:20:57	97-176/18:26:10	000/00:05:13
C9JNSRTAUR01-	97-176/21:31:12	97-176/21:40:18	000/00:09:06
C9JNSRTAUR02-	97-176/21:47:23	97-176/21:56:29	000/00:09:06
C9JNRTHOTS01-	97-176/22:04:34	97-176/22:11:03	000/00:06:28
C9JNSRTAUR03-	97-176/22:17:43	97-176/22:26:49	000/00:09:06
C9JNRTHOTS02-	97-177/01:34:53	97-177/01:40:03	000/00:05:10
C9JNSRTAUR06-	97-177/03:27:07	97-177/03:36:13	000/00:09:06
C9JNRTHOTS03-	97-177/05:52:43	97-177/05:58:03	000/00:05:20
C9JNAURMAP01+	97-177/07:33:50	97-177/07:52:02	000/00:18:12
C9NNRELOAD01-	97-177/11:21:20	97-177/11:31:26	000/00:10:06
C9GNGLOBAL01-	97-177/11:47:37	97-177/12:40:12	000/00:52:34
C9JNAURMAP02+	97-177/13:20:38	97-177/13:53:00	000/00:32:21
C9ENCLIPSE01-	97-177/15:55:20	97-177/16:06:28	000/00:11:07
C9ENRTECLI01-	97-177/16:06:28	97-177/16:11:31	000/00:05:03
C9HNDARK__02-	97-177/16:35:47	97-177/16:41:51	000/00:06:04
C9GNDRKLIT01-	97-177/16:47:55	97-177/17:22:18	000/00:34:22
C9GNBRILED01-	97-177/17:22:18	97-177/17:39:29	000/00:17:11
C9GNRTSULC01+	97-177/17:55:00	97-177/17:57:00	000/00:02:00
C9ENCLIPSE03-	97-177/18:45:12	97-177/18:55:19	000/00:10:06
C9ENRTECLI03-	97-177/18:55:19	97-177/19:01:23	000/00:06:04
C9NNRELOAD02-	97-177/20:07:06	97-177/20:17:13	000/00:10:06
C9JNGRS05101-	97-177/20:19:14	97-177/20:28:20	000/00:09:06
C9JNGRS05102-	97-177/20:39:28	97-177/20:48:34	000/00:09:06
C9JNGRS05103-	97-177/21:45:11	97-177/21:54:17	000/00:09:06
C9GNGLOBAL02-	97-177/21:54:17	97-177/22:19:34	000/00:25:16

C9 Time-Ordered Listing

OAPEL	Start (UTC)	End (UTC)	Duration
C9INCOOLCV01-	97-177/22:43:50	97-177/22:57:59	000/00:14:09
C9GNRTGLOB01+	97-177/23:20:00	97-177/23:22:00	000/00:02:00
C9INWARMCV01-	97-178/00:59:19	97-178/01:12:28	000/00:13:08
C9INWARMCV02-	97-178/01:38:45	97-178/01:50:53	000/00:12:08
C9NNRELOAD03-	97-178/05:53:33	97-178/06:03:40	000/00:10:06
C9JNGRS01102-	97-178/06:32:59	97-178/06:43:06	000/00:10:06
C9JNGRS01103-	97-178/08:19:09	97-178/08:28:15	000/00:09:06
C9INCHEMIS01-	97-178/10:31:36	97-178/10:42:00	000/00:10:23
C9JNWINDOW01-	97-178/12:08:40	97-178/16:34:36	000/04:25:55
C9NNRELOAD04-	97-178/14:12:02	97-178/14:17:05	000/00:05:03
C9JNFEAFUL01-	97-178/14:18:06	97-178/14:28:12	000/00:10:06
C9JNFEA01504-	97-178/15:31:54	97-178/15:41:00	000/00:09:06
C9JNSPOLEM04-	97-178/15:56:10	97-178/16:13:16	000/00:17:05
C9JNSPOLEM05-	97-178/16:44:42	97-178/17:03:55	000/00:19:12
C9JNGRS03901-	97-178/17:03:55	97-178/17:13:01	000/00:09:06
C9NNRELOAD05-	97-178/17:55:29	97-178/18:05:36	000/00:10:06
C9JNSPOLEM06-	97-178/18:05:36	97-178/18:24:48	000/00:19:12
C9JNGRSFUL01-	97-178/19:27:30	97-178/19:38:37	000/00:11:07
C9JNGRS03902-	97-178/20:07:56	97-178/20:14:00	000/00:06:04
C9JNGRS03903-	97-178/20:19:04	97-178/20:31:12	000/00:12:08
C9JNSPOLEM08-	97-178/20:41:18	97-178/20:54:27	000/00:13:08
C9NNRELOAD06-	97-178/21:16:42	97-178/21:26:48	000/00:10:06
C9INVOLCAN01-	97-178/21:31:52	97-178/21:38:56	000/00:07:04
C9INCHEMIS03-	97-178/22:26:28	97-178/22:36:34	000/00:10:06
C9JNFEA05701-	97-178/22:41:38	97-178/22:58:49	000/00:17:11
C9JNWINDOW02-	97-178/23:56:27	97-179/03:46:59	000/03:50:32
C9NNRELOAD07-	97-179/00:17:41	97-179/00:27:48	000/00:10:06
C9JNFEA05702-	97-179/00:28:48	97-179/00:36:54	000/00:08:05
C9JNFEA05703-	97-179/01:08:14	97-179/01:17:20	000/00:09:06
C9JNFEA05704-	97-179/01:57:47	97-179/02:06:15	000/00:08:28
C9INHRSPEC01-	97-179/02:28:07	97-179/02:35:12	000/00:07:04
C9INNSPEC 01-	97-179/02:41:16	97-179/02:47:20	000/00:06:04

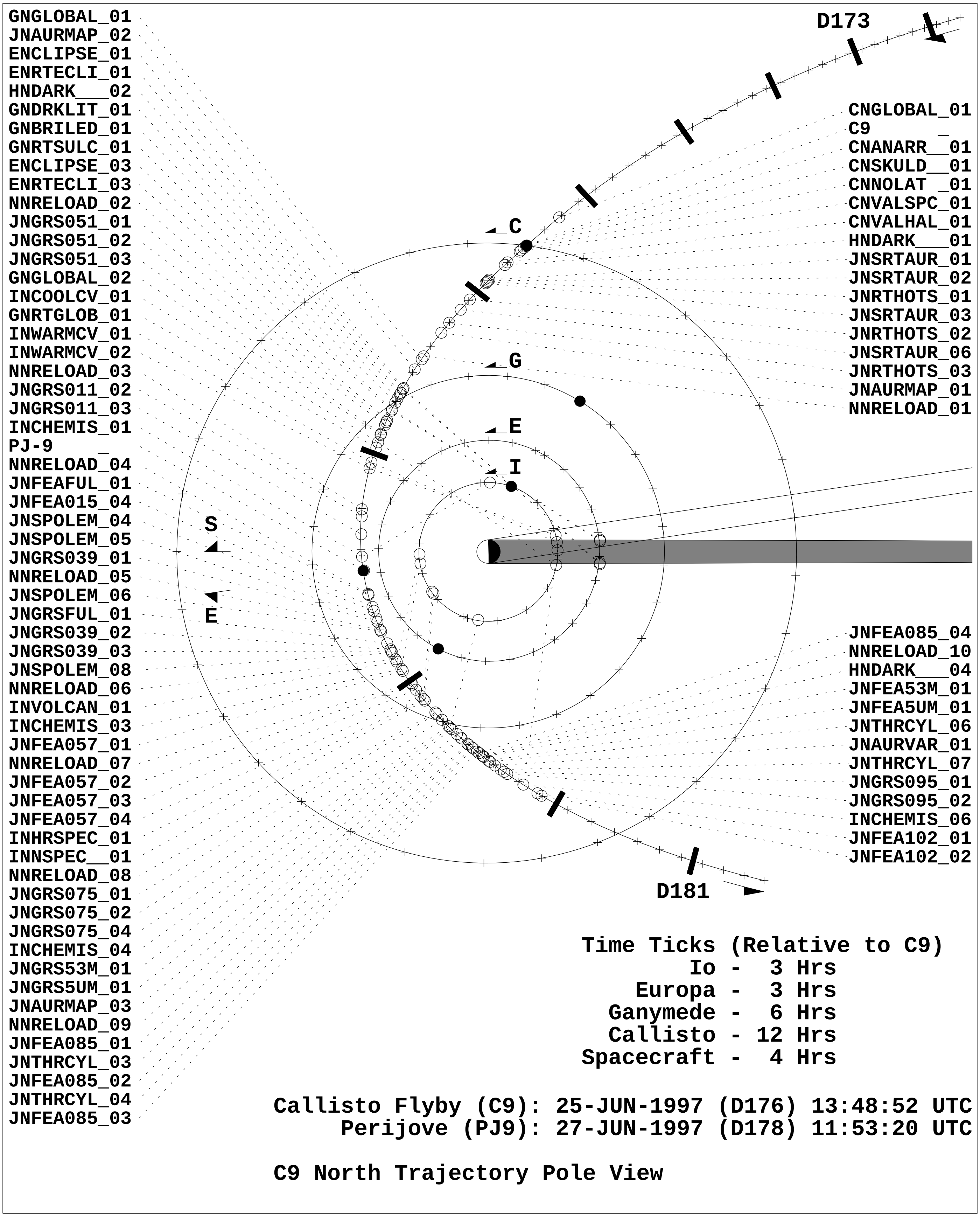
C9 Time-Ordered Listing

OAPEL	Start (UTC)	End (UTC)	Duration
C9NNRELOAD08-	97-179/04:28:26	97-179/04:38:33	000/00:10:06
C9JNGRS07501-	97-179/04:39:34	97-179/04:47:39	000/00:08:05
C9JNGRS07502-	97-179/05:34:10	97-179/05:42:15	000/00:08:05
C9JNGRS07504-	97-179/06:38:52	97-179/06:47:02	000/00:08:10
C9INCHEMIS04-	97-179/06:53:02	97-179/07:03:08	000/00:10:06
C9JNGRS53M01-	97-179/07:09:02	97-179/07:40:33	000/00:31:30
C9JNGRS5UM01-	97-179/08:00:46	97-179/08:14:56	000/00:14:09
C9JNAURMAP03+	97-179/08:37:10	97-179/08:45:16	000/00:08:05
C9NNRELOAD09-	97-179/08:46:16	97-179/08:56:23	000/00:10:06
C9JNFEA08501-	97-179/09:42:55	97-179/09:50:02	000/00:07:07
C9JNTHRCYL03-	97-179/09:52:02	97-179/10:14:03	000/00:22:00
C9JNFEA08502-	97-179/10:26:02	97-179/10:36:02	000/00:10:00
C9JNTHRCYL04-	97-179/10:37:02	97-179/10:59:02	000/00:22:00
C9JNFEA08503-	97-179/11:14:54	97-179/11:24:00	000/00:09:06
C9JNFEA08504-	97-179/11:34:02	97-179/11:42:02	000/00:08:00
C9NNRELOAD10-	97-179/12:04:27	97-179/12:14:34	000/00:10:06
C9HNDARK__04-	97-179/12:12:32	97-179/12:18:36	000/00:06:04
C9JNFEA53M01-	97-179/12:19:37	97-179/12:50:02	000/00:30:25
C9JNFEA5UM01-	97-179/13:04:06	97-179/13:18:16	000/00:14:09
C9JNTHRCYL06-	97-179/13:20:02	97-179/13:46:03	000/00:26:00
C9JNAURVAR01+	97-179/14:05:47	97-179/14:40:10	000/00:34:22
C9JNTHRCYL07-	97-179/15:00:23	97-179/15:34:46	000/00:34:22
C9JNGRS09501-	97-179/15:33:45	97-179/15:43:52	000/00:10:06
C9JNGRS09502-	97-179/16:03:04	97-179/16:16:13	000/00:13:08
C9INCHEMIS06-	97-179/18:37:46	97-179/18:47:53	000/00:10:06
C9JNWINDOW03-	97-179/20:06:45	97-179/21:29:40	000/01:22:54
C9JNFEA10201-	97-179/20:55:17	97-179/21:04:23	000/00:09:06
C9JNFEA10202-	97-179/21:35:44	97-179/21:48:52	000/00:13:08
C9NNCHOPOF01-	97-179/21:52:55	97-179/22:04:02	000/00:11:07
C9NNINERTL01-	97-185/12:43:48	97-185/13:34:21	000/00:50:33
C9NNCHOPON02-	97-185/13:39:25	97-185/13:49:31	000/00:10:06
C9JNAUCAMB01-	97-185/13:54:35	97-185/14:04:41	000/00:10:06

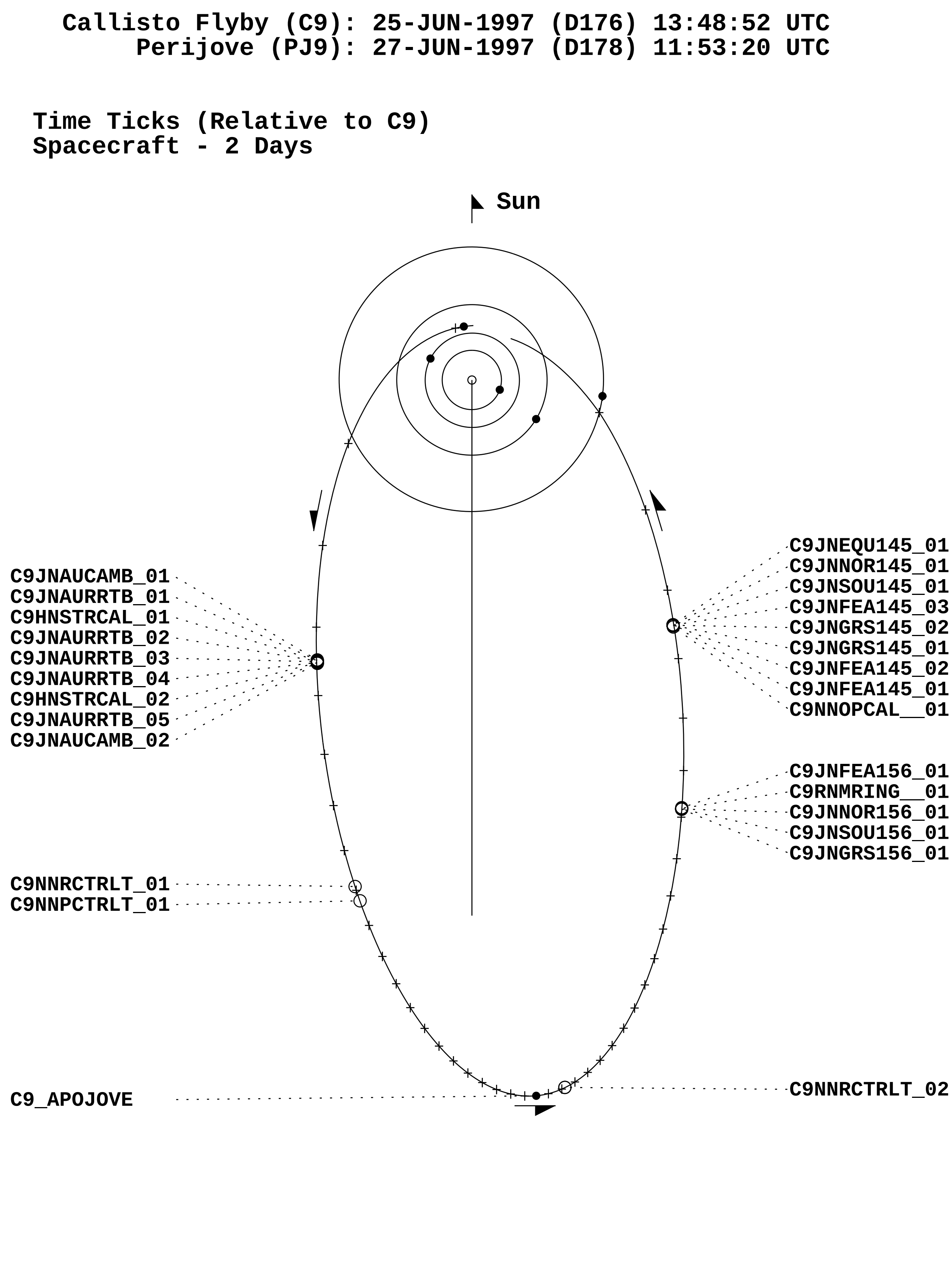
C9 Time-Ordered Listing

OAPEL	Start (UTC)	End (UTC)	Duration
C9JNAURRTB01-	97-185/14:09:45	97-185/14:18:51	000/00:09:06
C9HNSTRCAL01-	97-185/14:19:41	97-185/14:36:02	000/00:16:20
C9JNAURRTB02-	97-185/14:39:04	97-185/14:49:11	000/00:10:06
C9JNAURRTB03-	97-185/15:10:25	97-185/15:19:31	000/00:09:06
C9JNAURRTB04-	97-185/15:30:38	97-185/15:39:44	000/00:09:06
C9HNSTRCAL02-	97-185/15:40:35	97-185/15:56:55	000/00:16:20
C9JNAURRTB05-	97-185/16:00:58	97-185/16:10:04	000/00:09:06
C9JNAUCAMB02-	97-185/16:12:05	97-185/16:21:11	000/00:09:06
C9NNCHOPOF02-	97-185/16:22:12	97-185/16:33:19	000/00:11:07
C9NNCRUISE01-	97-185/16:23:13	97-185/16:38:23	000/00:15:10
C9NNRCTRLT01-	97-194/09:13:54	97-194/22:29:39	000/13:15:44
C9NNPCTRLT01-	97-195/04:04:56	97-195/11:28:49	000/07:23:52
C9NNRCTRLT02-	97-223/01:00:21	97-223/14:16:06	000/13:15:44
C9NNCHOPON04-	97-246/21:39:55	97-246/21:50:02	000/00:10:06
C9JNGRS15601-	97-246/22:01:09	97-246/22:07:13	000/00:06:04
C9JNSOU15601-	97-246/22:08:04	97-246/22:13:17	000/00:05:13
C9JNNOR15601-	97-246/22:14:08	97-246/22:19:21	000/00:05:13
C9RNMRING_01-	97-246/22:59:48	97-246/23:08:54	000/00:09:06
C9JNFEA15601-	97-246/23:35:11	97-246/23:41:15	000/00:06:04
C9NNCHOPOF04-	97-246/23:41:56	97-246/23:52:22	000/00:10:26
C9NNCHOPON05-	97-253/11:45:08	97-253/11:55:15	000/00:10:06
C9NNOPCAL_01-	97-253/12:04:21	97-253/12:27:36	000/00:23:15
C9JNFEA14501-	97-253/12:53:54	97-253/12:59:58	000/00:06:04
C9JNFEA14502-	97-253/13:01:59	97-253/13:08:03	000/00:06:04
C9JNGRS14501-	97-253/13:09:04	97-253/13:15:08	000/00:06:04
C9JNGRS14502-	97-253/13:17:09	97-253/13:23:13	000/00:06:04
C9JNFEA14503-	97-253/13:24:04	97-253/13:29:17	000/00:05:13
C9JNSOU14501-	97-253/13:29:17	97-253/13:33:20	000/00:04:02
C9JNNOR14501-	97-253/13:33:20	97-253/13:38:23	000/00:05:03
C9JNEQU14501-	97-253/13:38:23	97-253/13:43:26	000/00:05:03
C9NNCHOPOF05-	97-253/13:47:29	97-253/13:58:36	000/00:11:07

NIMS C9 OBSERVATIONS

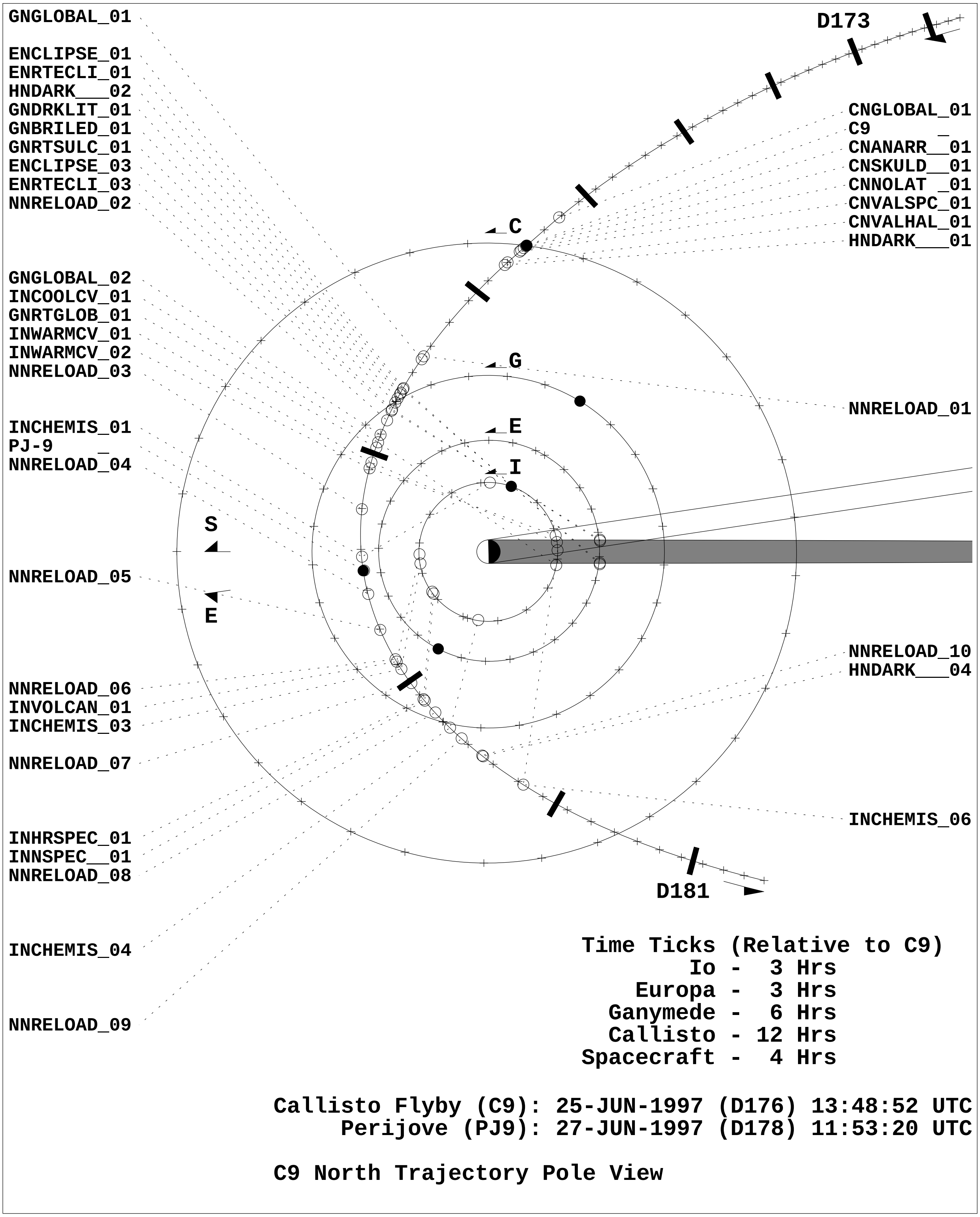


NIMS C9 CRUISE OBSERVATIONS



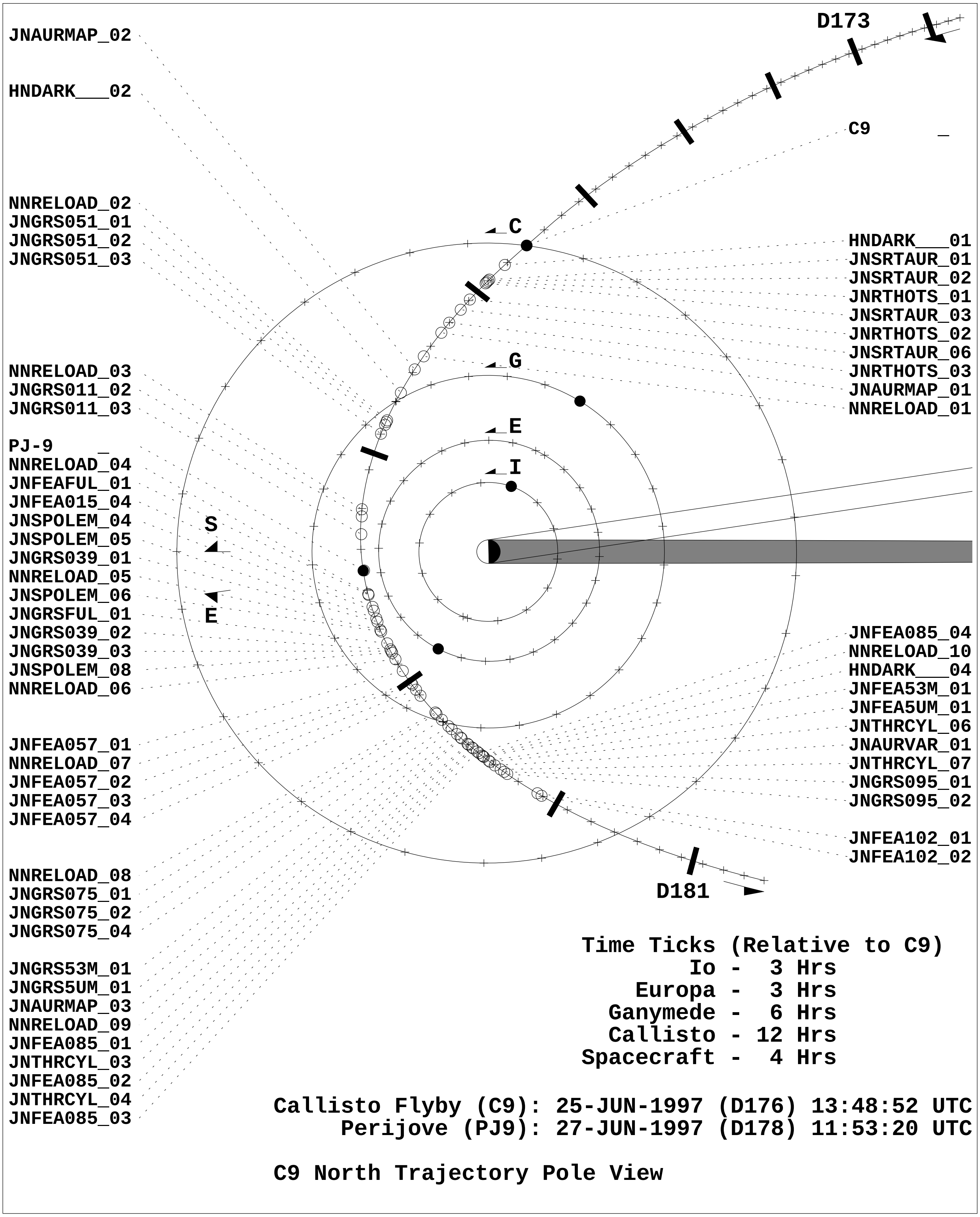
C9 North Trajectory Pole View, Perijove to Perijove

NIMS C9 SATELLITE OBSERVATIONS



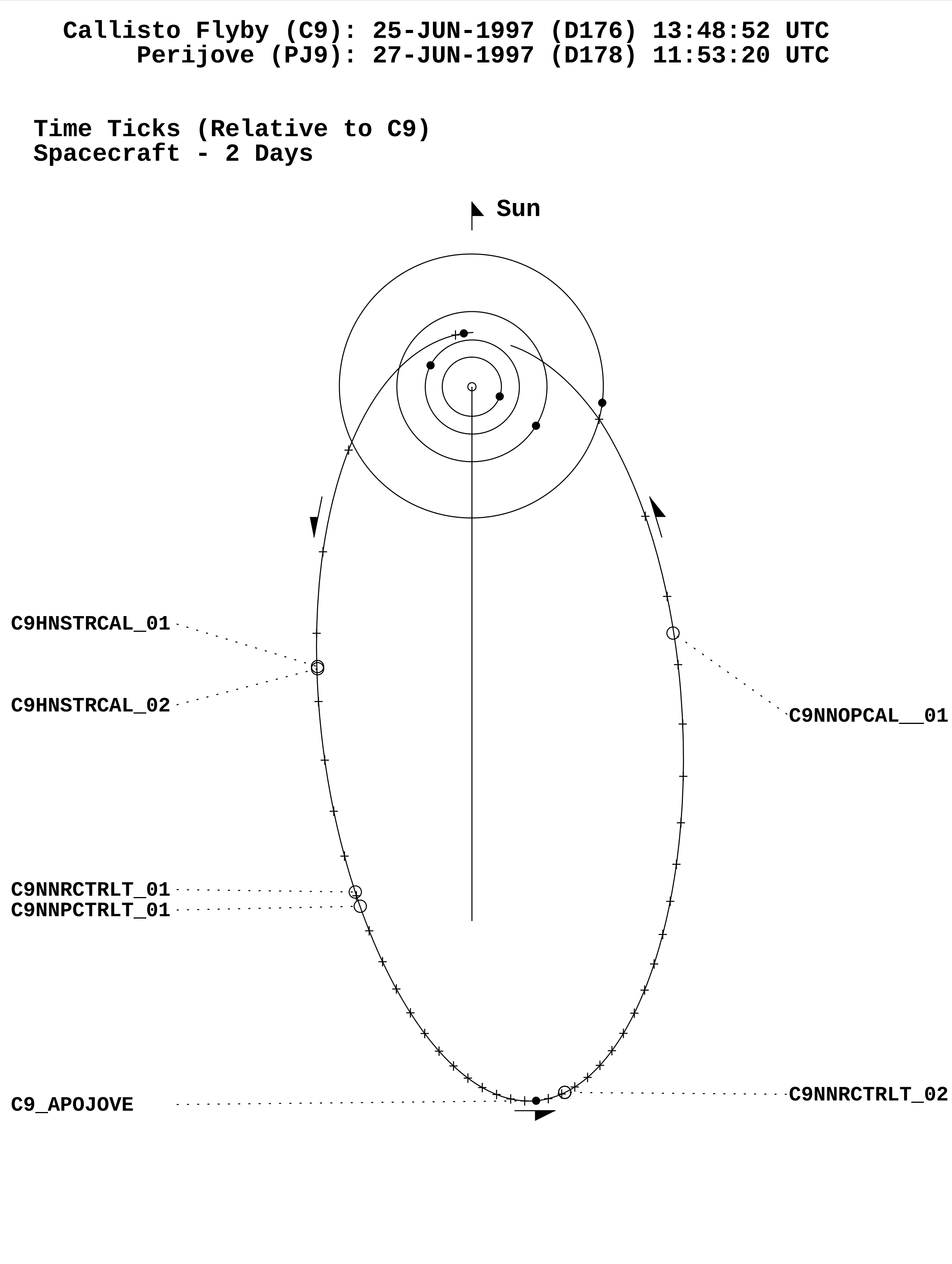
NIMS - FEL - 05/21/97

NIMS C9 JUPITER OBSERVATIONS



NIMS - FEL - 05/21/97

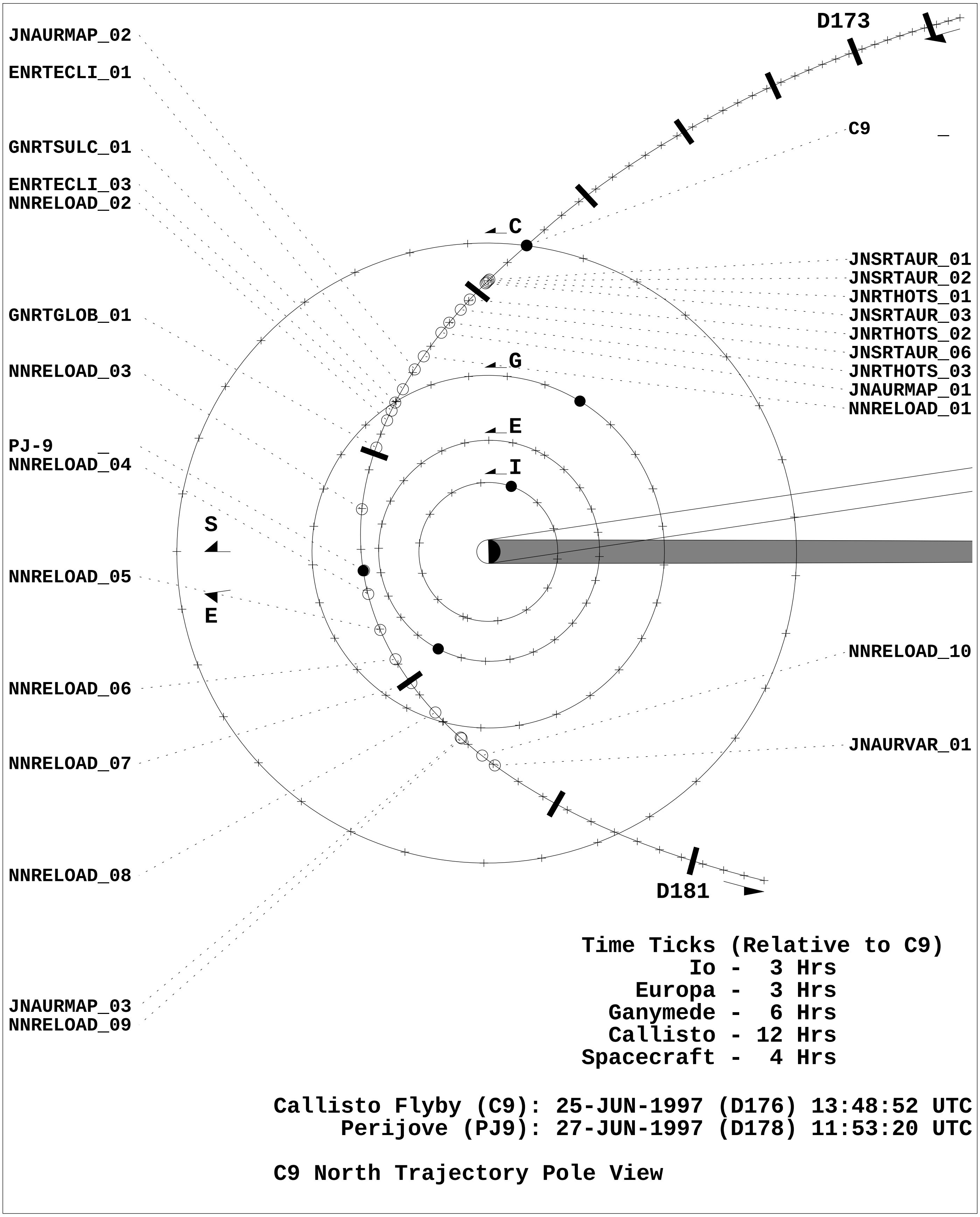
NIMS C9 CALIBRATIONS



C9 North Trajectory Pole View, Perijove to Perijove

NIMS - FEL - 05/21/97

NIMS C9 RAM RELOADS



C9 NIMS INPUTS

Activity ID	Observation Title	NIMS Edit Table	NIMS PB Table	Mode	Gain	Grating start	Grating offset	Record format	PSID
C9NNCHOPON01-	NIMS Chopper On								DA
C9CNGLOBAL01-	CALLISTO GLOBAL COVERAGE	C9CLM243C	C9CLM228C	LM	4	0	4	LPU	DC
C9CNANARR 01-	Anarr Crater Coverage	C9CLM442	C9CLM360	LM	4	0	4	MPW	DD
C9CNSKULD 01-	STUDY OF A BRIGHT CRATER	C9CLM243C	C9CLM228C	LM	4	0	4	LPU	DE
C9CNNOLAT 01-	North Latitude Coverage	C9CLM243C	C9CLM228C	LM	4	0	4	LPU	DF
C9CNVALSPC01-	Valhalla Spectral Scan	C9CLM243C	C9CLM228C	LM	4	0	4	LPU	DG
C9CNVALHAL01-	Valhalla Multi-Ring Structure Obs	C9CLM243C	C9CLM228C	LM	4	0	4	LPU	DH
C9NHNDARK_01-	NIMS Dark Observation	C9DRK252	C9DRK252	LM	4	0	4	LPU	DB
C9JNSRTAUR01-	NIMS Jupiter Real-Time Aurora Obs	C9JLM442/MB	R/T	LM	4	0	4	R/T	FE
C9JNSRTAUR02-	NIMS Jupiter Real-Time Aurora Obs	C9JLM442/MB	R/T	LM	4	0	4	R/T	FQ
C9JNRTHOTS01-	NIMS Real-Time Hotspot Obs	C9JLM442/MB	R/T	LM	4	0	4	R/T	MB
C9JNSRTAUR03-	NIMS Jupiter Real-Time Aurora Obs	C9JLM442/MB	R/T	LM	4	0	4	R/T	FU
C9JNRTHOTS02-	NIMS Real-Time Hotspot Obs	C9JLM442/MB	R/T	LM	4	0	4	R/T	MC
C9JNSRTAUR06-	NIMS Jupiter Real-Time Aurora Obs	C9JLM442/MB	R/T	LM	4	0	4	R/T	DM
C9JNRTHOTS03-	NIMS Real-Time Hotspot Obs	C9JLM442/MB	R/T	LM	4	0	4	R/T	MD
C9JNAURMAP01+	Jupiter UVS Ride RT	C9JLM442/MB	R/T	LM	4	0	4	R/T	EI
C9NNRELOAD01	NIMS Software Reload								EB
C9GNGLOBAL01-	Global Surface Map	GLM243K	GLM228K	LM	3	0	4	LPU	DI
C9JNAURMAP02+	Jupiter UVS Ride RT	C9JLM442/MB	R/T	LM	4	0	4	R/T	EO
C9ENCLIPSE01-	Europa Eclipse part 1	C9EFM126B	C9EFM126B	FM	4	0	4	LPU	DJ
C9ENRTECLI01-	NIMS Europa Real-Time Observation	C9EFM204/MB	R/T	FM	4	0	4	R/T	ME
C9NHNDARK_02-	NIMS Dark Observation	C9DRK252	C9DRK252	LM	2	0	4	LPU	DK
C9GNDRKLIT01-	Dark and Light transition	C9GLM243K	C9GLM228K	LM	3	0	4	LPU	DL
C9GNBRILED01-	Bright endmember lead hemisphere	C9GLM243K	C9GLM228K	LM	3	0	4	LPU	DN
C9GNRTSULC01+	SSI Ride-along	C9GLM442/MB	R/T	LM	3	0	4	R/T	EQ
C9ENCLIPSE03-	Europa Eclipse part 3	C9EFM126B	C9EFM126B	FM	4	0	4	LPU	DO
C9ENRTECLI03-	NIMS Europa Real-Time Eclipse Obs	C9EFM204/MB	R/T	FM	4	0	4	R/T	EY
C9NNRELOAD02-	NIMS Software Reload								EC
C9JNGRS05101-	Jupiter Great Red Spot 51 degrees prt 1	C9JFT68C	C9JFT25A	SM	2	1	4	LPU	DP
C9JNGRS05102-	Jupiter Great Red Spot 51 degrees prt 2	C9JFT68C	C9JFT25A	SM	2	1	4	LPU	DQ
C9JNGRS05103-	Jupiter Great Red Spot 51 degrees prt 3	C9JFT68C	C9JFT25A	SM	2	1	4	LPU	DR
C9GNGLOBAL02-	Global Surface Map	C9GLM243K	C9GLM228K	LM	4	0	4	LPU	DS
C9INCOOLCV01-	NIMS Io Eclipse Observation (ingress)	C9B_ISM68A	C9B_ISM68A	SM	2	1	4	LPU	DT
C9GNRTGLOB01+	SSI Ride-along	C9GLM442/MB	R/T	LM	4	0		R/T	ES
C9INWARMCV01-	NIMS Io Eclipse Observation (egress)	C9B_ISM68A	C9B_ISM68A	SM	2	1	4	LPU	DU
C9INWARMCV02-	NIMS Io Eclipse Obs. (post-egress)	C9B_ISM68A	C9B_ISM68A	SM	2	1	4	LPU	DV
C9NNRELOAD03-	NIMS Software Reload								ED
C9JNGRS01102-	Jupiter Great Red Spot 11 degrees prt 2	C9JFT68C	C9JFT68C	SM	2	1	4	LPU	DX
C9JNGRS01103-	Jupiter Great Red Spot 11 degrees prt 3	C9JFT68C	C9JFT68C	SM	2	1	4	LPU	DY
C9INCHEMIS01-	MONITORING OF IO'S DAYSIDE	C9ILM243C	C9ILM228C	LM	2	0	4	LPU	EA
C9JNWINDOW01-	Jupiter Feature Track Window								
C9NNRELOAD04-	NIMS Software Reload								EE
C9JNFEAFUL01-	Jupiter Ftr Trk Full Spectra	C9JFE253A	C9JFE253A	LM	2	0	4	LPU	EG

C9 NIMS INPUTS

Activity ID	Observation Title	NIMS Edit Table	NIMS PB Table	Mode	Gain	Grating start	Grating offset	Record format	PSID
C9JNFEA01504-	Jupiter Ftr Trk 15 degrees Phase part 4	C9JFT68C	C9JFT68C	SM	2	1	4	LPU	EK
C9JNSPOLEM04-	Jupiter South Pole Map part 4	C9JFT68C	C9JFT68C	SM	2	1	4	LPU	EL
C9JNSPOLEM05-	Jupiter South Pole Map part 5	C9JFT68C	C9JFT68C	SM	2	1	4	LPU	EM
C9JNGRS03901-	Jupiter Great Red Spot 39 degrees prt 1	C9JFT68C	C9JFT68C	SM	2	1	4	LPU	EN
C9NNRELOAD05-	NIMS Software Reload								EF
C9JNSPOLEM06-	Jupiter South Pole Map part 6	C9JFT68C	C9JFT68C	SM	2	1	4	LPU	EO
C9JNGRSFUL01-	Jupiter Great Red Spot Full-Spectra	C9JFE442A	C9JFE360A	LM	2	0	4	MPW	ET
C9JNGRS03902-	Jupiter Great Red Spot 39 degrees prt 2	C9JFT68C	C9JFT68C	SM	2	1	4	LPU	EU
C9JNGRS03903-	Jupiter Great Red Spot 39 degrees prt 3	C9JFT68C	C9JFT68C	SM	2	1	4	LPU	EV
C9JNSPOLEM08-	Jupiter South Pole Map part 8	C9JFT68C	C9JFT68C	SM	2	1	4	LPU	EX
C9NNRELOAD06-	NIMS Software Reload								EG
C9INVOLCAN01-	MONITORING OF SELECTED VOLCANIC REGIONS	C9ILMDK243D	C9ILMDK228D	LM	4	0	4	LPU	EZ
C9INCHEMIS03-	MONITORING OF IO'S DAYSIDE	C9ILM243C	C9ILM228C	LM	2	0		LPU	FB
C9JNFEA05701-	Jupiter Ftr Trk 57 degrees Phase part	C9JFT68C	JFT68C	SM	2	1	4	LPU	FC
C9JNWINDOW02-	Jupiter Feature Track Window								FA
C9NNRELOAD07-	NIMS Software Reload								EH
C9JNFEA05702-	Jupiter Ftr Trk 57 degrees Phase part 2	C9JFT68C	C9JFT68C	SM	2	1	4	LPU	FF
C9JNFEA05703-	Jupiter Ftr Trk 57 degrees Phase part 3	C9JFT68C	C9JFT68C	SM	2	1	4	LPU	FG
C9JNFEA05704-	Jupiter Ftr Trk 57 degrees Phase part 4	C9JFT68C	C9JFT68C	SM	2	1	4	LPU	FH
C9INHRSPEC01-	HIGH SPATIAL & SPECTRAL OBS. OF IO	C9ILM442	C9ILM360	LM	2	0	4	MPW	FI
C9INNSPEC 01-	NIGHTSIDE SPECTRA AT HIGH RESOLUTION	C9ILM442	C9ILM360	LM	4	0	4	MPW	FJ
C9NNRELOAD08-	NIMS Software Reload								EI
C9JNGRS07501-	Jupiter Great Red Spot 75 degrees prt 1	C9JFT68B	C9_BJFT40A	SM	2	1	4	LPU	FK
C9JNGRS07502-	Jupiter Great Red Spot 75 degrees prt 2	C9JFT68B	C9_BJFT40A	SM	2	1	4	LPU	FL
C9JNGRS07504-	Jupiter Great Red Spot 75 degrees prt 4	C9JFT68B	C9_BJFT40A	SM	2	1	4	LPU	FN
C9INCHEMIS04-	Monitoring of Io's Dayside and Nightsid	C9ILM243C	C9ILM228C	LM	2	0	4	LPU	FO
C9JNGRS53M01-	Jupiter Great Red Spot 5 and 3 Microns	C9J35157	C9J35157	LM	4	0	4	LPU	FP
C9JNGRS5UM01-	Jupiter Great Red Spot 5 Micron Map	C9J35157	C9J35157	LM	4	0	4	LPU	FR
C9JNAURMAP03+	Jupiter UVS Ride RT	C9JLM442/MB	R/T	LM	4	0		R/T	EK
C9NNRELOAD09-	NIMS Software Reload								EJ
C9JNFEA08501-	Jupiter Ftr Trk 85 degrees Phase part 1	C9JFT68B	C9_BJFT40A	SM	2	1	4	LPU	FS
C9JNTHRCYL03-	Jupiter Thermal Cylindrical Map part 3	C9J5M253B	C9_BJ5M127B	LM	4	0	4	LPU	FT
C9JNFEA08502-	Jupiter Ftr Trk 85 degrees Phase part 2	C9JFT68B	C9_BJFT40A	SM	2	1	4	LPU	FV
C9JNTHRCYL04-	Jupiter Thermal Cylindrical Map part 4	C9J5M253B	C9_BJ5M127B	LM	4	0	4	LPU	FW
C9JNFEA08503-	Jupiter Ftr Trk 85 degrees Phase part 3	C9JFT68B	C9_BJFT40A	SM	2	1	4	LPU	FY
C9JNFEA08504-	Jupiter Ftr Trk 85 degrees Phase part 4	C9JFT68B	C9_BJFT40A	SM	2	1	4	LPU	FZ
C9NNRELOAD10-	NIMS Software Reload								EK
C9NHNDARK_04-	NIMS Dark Observation	C9DRK252	C9DRK252	LM	3	0	4	LPU	LB
C9JNFEA53M01-	Jupiter Ftr Trk 5 and 3 Micron Map	C9J35157	C9J35157	LM	4	0	4	LPU	LC
C9JNFEA5UM01-	Jupiter Ftr Trk 5 Micron Map	C9J35157	C9J35157	LM	4	0	4	LPU	LD
C9JNTHRCYL06-	Jupiter Thermal Cylindrical Map part 6	C9J5M253B	C9_BJ5M127B	LM	4	0	4	LPU	LE
C9JNAURVAR01+	Jupiter UVS Ride RT	C9JLM442/MB	R/T	LM	4	0	4	R/T	EM
C9JNTHRCYL07-	Jupiter Thermal Cylindrical Map part 7	C9J5M253B	C9_BJ5M127B	LM	4	0	4	LPU	LF
C9JNGRS09501-	Jupiter Great Red Spot 95 degrees prt 1	C9JFT68C	C9JFT68C	SM	2	1	4	LPU	LG

C9 NIMS INPUTS

Activity ID	Observation Title	NIMS Edit Table	NIMS PB Table	Mode	Gain	Grating start	Grating offset	Record format	PSID
C9JNGRS09502-	Jupiter Great Red Spot 95 degrees prt 2	C9JFT68C	C9JFT68C	SM	2	1	4	LPU	LI
C9INCHEMIS06-	Monitoring of Io's Dayside and Nightsid	C9ILM243C	C9ILM228C	LM	2	0	4	LPU	LK
C9JNWINDOW03-	Jupiter Feature Track Window								ED
C9JNFEA10201-	Jupiter Ftr Trk 102 deg Phase part 1	C9JFT68C	C9JFT68C	SM	2	1	4	LPU	LQ
C9JNFEA10202-	Jupiter Ftr Trk 102 deg Phase part 2	C9JFT68C	C9JFT68C	SM	2	1	4	LPU	LR
C9NNCHOPOF01-	NIMS Chopper Off								EE
C9NNCHOPON02-	NIMS Chopper On								DZ
C9JNAUCAMB01-	Auroral Campaign B Map No. 1	C9B_JAU126A	C9B_JAU126A	FM	4	0	4	LPU	MR
C9JNAURRTB01	Auroral Campaign B Real-Time No. 1	C9JLM442/MB	R/T	LM	4	0	4	R/T	MS
C9HNSTRCAL01-	Star Calibration	C9SXM17/MB	R/T	XM	4	0-11	4	R/T	KK
C9JNAURRTB02-	Auroral Campaign B Real-Time No. 2	C9JLM442/MB	R/T	LM	4	0	4	R/T	MU
C9JNAURRTB03-	Auroral Campaign B Real-Time No. 3	C9JLM442/MB	R/T	LM	4	0	4	R/T	MV
C9JNAURRTB04-	Auroral Campaign B Real-Time No. 4	C9JLM442/MB	R/T	LM	4	0	4	R/T	MW
C9HNSTRCAL02-	Star Calibration	C9SXM17/MB	R/T	XM	4	12-23	4	R/T	KC
C9JNAURRTB05-	Auroral Campaign B Real-Time No. 5	C9JLM442/MB	R/T	LM	4	0	4	R/T	MX
C9JNAUCAMB02-	Auroral Campaign B Map No. 2	C9B_JAU126A	C9B_JAU126A	FM	4	0	4	LPU	MT
C9NNCHOPOF02-	NIMS Chopper Off								FZ
C9NNRCTRLT01-	NIMS RCT Real Time	C9RCT252	R/T	LM	1	0	4	R/T	LT
C9NNPCTRLT01-	NIMS PCT Calibration	C9PCT252	R/T	LM	4	0	4	R/T	LU
C9NNRCTRLT02-	NIMS RCT Real-Time Calibration	C9RCT252	R/T	LM	1	0	4	R/T	LW
C9NNCHOPON04-	NIMS Chopper On								EE
C9JNGRS15601-	Jupiter Great Red Spot 156 Degrees	C9JFT68C	C9JFT68C	SM	2	1	4	LPU	LJ
C9JNSOU15601-	Jupiter Southern Hemisphere 156 Degrees	C9JFT68C	C9JFT68C	SM	2	1	4	LPU	LL
C9JNNOR15601-	Jupiter Northern Hemisphere 156 Degrees	C9JFT68C	C9JFT68C	SM	2	1	4	LPU	LM
C9RNMRING_01-	Sit and Stare Ring Observation	C9RFM126B	C9RFM126B	FM	4	0	4	LPU	DZ
C9JNFEA15601-	Jupiter Feature 156 Degrees Phase	C9JFT68C	C9JFT68C	SM	2	1	4	LPU	LO
C9NNCHOPOF04-	NIMS Chopper Off								LV
C9NNCHOPON05-	NIMS Chopper On								FA
C9NNOPCAL_01	NIMS OPCAL	C9OPCAL48	R/T	LM	4	0	4	R/T	DA
C9JNFEA14501-	Jupiter Feature 145 Degrees Phase prt 1	C9JFT68C	C9JFT68C	SM	2	1	4	LPU	LP
C9JNFEA14502-	Jupiter Feature 145 Degrees Phase prt 2	C9JFT68C	C9JFT68C	SM	2	1	4	LPU	LS
C9JNGRS14501-	Jupiter GRS 145 Degree Phase prt 1	C9JFT68C	C9JFT68C	SM	2	1	4	LPU	FB
C9JNGRS14502-	Jupiter GRS 145 Degrees Phase prt 2	C9JFT68C	C9JFT68C	SM	2	1	4	LPU	LU
C9JNFEA14503-	Jupiter Feature 145 Degrees Phase prt 3	C9JFT68C	C9JFT68C	SM	2	1	4	LPU	MG
C9JNSOU14501-	Jupiter South Hemisphere 145 Deg Phase	C9JFT68C	C9JFT68C	SM	2	1	4	LPU	MH
C9JNNOR14501-	Jupiter North Hemisphere 145 Deg Phase	C9JFT68C	C9JFT68C	SM	2	1	4	LPU	LZ
C9JNEQU14501-	Jupiter Equatorial 145 Degrees Phase	C9JFT68C	C9JFT68C	SM	2	1	4	LPU	MA
C9NNCHOPOF05-	NIMS Chopper Off								LX

C9 NIMS Resources

Activity ID	Mode	Record format	Tracks	Tics	Number Wavelengths Returned	Record Time (sec)	Playback Time (sec.)	Selected Bits of Tape sBOT (MBITS)	Total Bits of Tape BOT (Mbit)	Mode Cycle time (sec)
C9CNGLOBAL01-	LM	LPU	0.0676	472	228	2004	2000	12.34	12.36	8.667
C9CNANARR 01-	LM	MPW	0.0764	533	360	604	600	6.91	6.96	8.667
C9CNSKULD 01-	LM	LPU	0.0206	144	228	604	600	3.70	3.73	8.667
C9CNNOLAT 01-	LM	LPU	0.0221	154	228	649	645	3.98	4.00	8.667
C9CNVALSPC01-	LM	LPU	0.0139	97	228	404	400	2.47	2.49	8.667
C9CNVALHAL01-	LM	LPU	0.0581	405	228	1720	1716	10.58	10.61	8.667
C9HNDARK__01	LM	LPU	0.0024	17	252	64	60	0.37	0.39	8.667
C9JNSRTAUR01-	LM	R/T			408					
C9JNSRTAUR02-	LM	R/T			408					
C9JNRTHOTS01-	LM	R/T			408					
C9JNSRTAUR03-	LM	R/T			408					
C9JNRTHOTS02-	LM	R/T			408					
C9JNSRTAUR06-	LM	R/T			408					
C9JNRTHOTS03-	LM	R/T			408					
C9JNAURMAP03+	LM	R/T			408					
C9GNGLOBAL01-	LM	LPU	0.0973	679	228	2887	2883	17.78	17.81	8.667
C9JNAURMAP02+	LM	R/T			408					
C9ENCLIPSE01-	FM	LPU	0.0000	75	126	312	308	1.90	1.92	4.333
C9ENRTECLI01-	FM	R/T			204					
C9HNDARK__02	LM	LPU	0.0024	17	252	64	60	0.37	0.39	8.667
C9GNDRKLIT01-	LM	LPU	0.0592	413	228	1753	1749	10.79	10.81	8.667
C9GNBRILED01-	LM	LPU	0.0232	162	228	682	678	4.18	4.21	8.667
C9GNRTSULC01+	LM	R/T			408					
C9ENCLIPSE03-	FM	LPU	0.0000	75	126	312	308	1.90	1.92	4.333
C9ENRTECLI03-	FM	R/T			204					
C9JNGRS05101-	SM	LPU	0.0071	49	25	202	198	1.22	1.25	2.33
C9JNGRS05102-	SM	LPU	0.0071	49	25	202	198	1.22	1.25	2.33
C9JNGRS05103-	SM	LPU	0.0071	50	25	203	199	1.23	1.25	2.33
C9GNGLOBAL02-	LM	LPU	0.0409	286	228	1210	1206	7.44	7.46	8.667
C9INCOOLCV01-	SM	LPU	0.0180	126	68	527	523	3.23	3.25	2.33
C9GNRTGLOB01+	LM	R/T			408					
C9INWARMCV01-	SM	LPU	0.0163	114	68	476	472	2.91	2.94	2.33
C9INWARMCV02-	SM	LPU	0.0104	73	68	302	298	1.84	1.86	2.33
C9JNGRS01102-	SM	LPU	0.0071	50	68	204	200	1.23	1.26	2.33
C9JNGRS01103-	SM	LPU	0.0071	50	68	204	200	1.23	1.26	2.33
C9INCHEMIS01-	LM	LPU	0.0045	31	228	125	121	0.75	0.77	8.667
C9JNFEAFUL01-	LM	LPU	0.0091	63	253	262	258	1.59	1.62	8.667
C9JNFEA01504-	SM	LPU	0.0071	50	68	204	200	1.23	1.26	2.33
C9JNSPOLEM04-	SM	LPU	0.0135	94	68	393	389	2.40	2.42	2.33

C9 NIMS Resources

Activity ID	Mode	Record format	Tracks	Tics	Number Wavelengths Returned	Record Time (sec)	Playback Time (sec.)	Selected Bits of Tape sBOT (MBITS)	Total Bits of Tape BOT (Mbit)	Mode Cycle time (sec)
C9JNSPOLEM05-	SM	LPU	0.0135	94	68	393	389	2.40	2.42	2.33
C9JNGRS03901-	SM	LPU	0.0071	50	68	204	200	1.23	1.26	2.33
C9JNSPOLEM06-	SM	LPU	0.0135	94	68	393	389	2.40	2.42	2.33
C9JNGRSFUL01-	LM	MPW	0.0334	233	360	262	258	2.97	3.02	8.667
C9JNGRS03902-	SM	LPU	0.0071	50	68	204	200	1.23	1.26	2.33
C9JNGRS03903-	SM	LPU	0.0071	50	68	204	200	1.23	1.26	2.33
C9JNSPOLEM08-	SM	LPU	0.0135	94	68	393	389	2.40	2.42	2.33
C9INVOLCAN01-	LM	LPU	0.0035	25	228	97	93	0.57	0.60	8.667
C9INCHEMIS03-	LM	LPU	0.0071	50	228	204	200	1.23	1.26	8.667
C9JNFEA05701-	SM	LPU	0.0236	165	68	694	690	4.26	4.28	2.33
C9JNFEA05702-	SM	LPU	0.0071	50	68	204	200	1.23	1.26	2.33
C9JNFEA05703-	SM	LPU	0.0071	50	68	204	200	1.23	1.26	2.33
C9JNFEA05704-	SM	LPU	0.0073	51	68	209	205	1.26	1.29	2.33
C9INHRSPEC01-	LM	MPW	0.0199	139	360	155	151	1.74	1.79	8.667
C9INNSPEC 01-	LM	MPW	0.0161	112	360	125	121	1.39	1.44	8.667
C9JNGRS07501-	SM	LPU	0.0071	50	40	204	200	1.23	1.26	2.33
C9JNGRS07502-	SM	LPU	0.0071	50	40	204	200	1.23	1.26	2.33
C9JNGRS07504-	SM	LPU	0.0105	73	40	304	200	1.23	1.88	2.33
C9INCHEMIS04-	LM	LPU	0.0105	73	228	304	300	1.85	1.88	8.667
C9JNGRS53M01-	LM	LPU	0.0188	131	157	550	546	3.37	3.39	8.667
C9JNGRS5UM01-	LM	LPU	0.0188	131	157	550	546	3.37	3.39	8.667
C9JNAURMAP04+	LM	R/T								
C9JNFEA08501-	SM	LPU	0.0071	50	40	204	200	1.23	1.26	2.33
C9JNTHRCYL03-	LM	LPU	0.0404	282	127	1195	1191	7.35	7.37	8.667
C9JNFEA08502-	SM	LPU	0.0071	50	40	204	200	1.23	1.26	2.33
C9JNTHRCYL04-	LM	LPU	0.0404	282	127	1195	1191	7.35	7.37	8.667
C9JNFEA08503-	SM	LPU	0.0071	50	40	204	200	1.23	1.26	2.33
C9JNFEA08504-	SM	LPU	0.0071	50	40	204	200	1.23	1.26	2.33
C9HNDARK__04	LM	LPU	0.0024	17	252	64	60	0.37	0.39	8.667
C9JNFEA53M01-	LM	LPU	0.0243	170	157	715	711	4.39	4.41	8.667
C9JNFEA5UM01-	LM	LPU	0.0188	131	157	550	546	3.37	3.39	8.667
C9JNTHRCYL06-	LM	LPU	0.0453	316	127	1339	1335	8.23	8.26	8.667
C9JNAURVAR01+	LM	R/T								
C9JNTHRCYL07-	LM	LPU	0.0438	306	127	1295	1291	7.96	7.99	8.667
C9JNGRS09501-	SM	LPU	0.0071	50	68	204	200	1.23	1.26	2.33
C9JNGRS09502-	SM	LPU	0.0134	94	68	391	387	2.39	2.41	2.33
C9INCHEMIS06-	LM	LPU	0.0078	55	228	224	220	1.36	1.38	8.667
C9JNFEA10201-	SM	LPU	0.0071	50	68	204	200	1.23	1.26	2.33
C9JNFEA10202-	SM	LPU	0.0071	50	68	204	200	1.23	1.26	2.33

C9 NIMS Resources

Activity ID	Mode	Record format	Tracks	Tics	Number Wavelengths Returned	Record Time (sec)	Playback Time (sec.)	Selected Bits of Tape sBOT (MBITS)	Total Bits of Tape BOT (Mbit)	Mode Cycle time (sec)
C9JNAUCAMB01	FM	LPU	0.0108	75	126	312	308	1.90	1.92	4.333
C9JNAURRTB01	LM	R/T			408					
C9HNSTRCAL01-	LM	R/T			17					
C9JNAURRTB02	LM	R/T			408					
C9JNAURRTB03	LM	R/T			408					
C9JNAURRTB04	LM	R/T			408					
C9HNSTRCAL02-	LM	R/T			17					
C9JNAURRTB05	LM	R/T			408					
C9JNAUCAMB02	FM	LPU	0.0108	75	126	312	308	1.90	1.92	4.333
C9NNRCTRLT01-	LM	R/T			252					
C9NNPCTRLT01-	LM	R/T			252					
C9NNRCTRLT02-	LM	R/T			252					
C9JNGRS15601-	SM	LPU	0.0021	15	68	54	50	0.31	0.33	2.33
C9JNSOU15601-	SM	LPU	0.0021	15	68	54	50	0.31	0.33	2.33
C9JNNOR15601-	SM	LPU	0.0021	15	68	54	50	0.31	0.33	2.33
C9RNMRING_01-	FM	LPU	0.0085	59	126	244	240	1.48	1.50	4.333
C9JNFEA15601-	SM	LPU	0.0021	15	68	54	50	0.31	0.33	2.33
C9NNOPCAL_01-	LM	R/T								
C9JNFEA14501-	SM	LPU	0.0021	15	68	54	50	0.31	0.33	2.33
C9JNFEA14502-	SM	LPU	0.0021	15	68	54	50	0.31	0.33	2.33
C9JNGRS14501-	SM	LPU	0.0021	15	68	54	50	0.31	0.33	2.33
C9JNGRS14502-	SM	LPU	0.0021	15	68	54	50	0.31	0.33	2.33
C9JNFEA14503-	SM	LPU	0.0021	15	68	54	50	0.31	0.33	2.33
C9JNSOU14501-	SM	LPU	0.0021	15	68	54	50	0.31	0.33	2.33
C9JNNOR14501-	SM	LPU	0.0021	15	68	54	50	0.31	0.33	2.33
C9JNEQU14501-	SM	LPU	0.0021	15	68	54	50	0.31	0.33	2.33
Total			**1.2004**	**8525**						
Allocation			**1.2225**	**7767**						
Overage			**-0.0221**	**758**						

C9 NIMS Resources

Activity ID	Mode	Record format	Tracks	Tics	Number Wavelengths Returned	Record Time (sec)	Playback Time (sec.)	Selected Bits of Tape sBOT (MBITS)	Total Bits of Tape BOT (Mbit)	Mode Cycle time (sec)
C9CNGLOBAL01-	LM	LPU	0.0676	472	228	2004	2000	12.34	12.36	8.667
C9CNANARR 01-	LM	MPW	0.0764	533	360	604	600	6.91	6.96	8.667
C9CNSKULD 01-	LM	LPU	0.0206	144	228	604	600	3.70	3.73	8.667
C9CNNOLAT 01-	LM	LPU	0.0221	154	228	649	645	3.98	4.00	8.667
C9CNVALSPC01-	LM	LPU	0.0139	97	228	404	400	2.47	2.49	8.667
C9CNVALHAL01-	LM	LPU	0.0581	405	228	1720	1716	10.58	10.61	8.667
C9HNDARK__01	LM	LPU	0.0024	17	252	64	60	0.37	0.39	8.667
C9JNSRTAUR01-	LM	R/T			408					
C9JNSRTAUR02-	LM	R/T			408					
C9JNRTHOTS01-	LM	R/T			408					
C9JNSRTAUR03-	LM	R/T			408					
C9JNRTHOTS02-	LM	R/T			408					
C9JNSRTAUR06-	LM	R/T			408					
C9JNRTHOTS03-	LM	R/T			408					
C9JNAURMAP03+	LM	R/T			408					
C9GNGLOBAL01-	LM	LPU	0.0973	679	228	2887	2883	17.78	17.81	8.667
C9JNAURMAP02+	LM	R/T			408					
C9ENCLIPSE01-	FM	LPU	0.0000	75	126	312	308	1.90	1.92	4.333
C9ENRTECLI01-	FM	R/T			204					
C9HNDARK__02	LM	LPU	0.0024	17	252	64	60	0.37	0.39	8.667
C9GNDRKLIT01-	LM	LPU	0.0592	413	228	1753	1749	10.79	10.81	8.667
C9GNBRILED01-	LM	LPU	0.0232	162	228	682	678	4.18	4.21	8.667
C9GNRTSULC01+	LM	R/T			408					
C9ENCLIPSE03-	FM	LPU	0.0000	75	126	312	308	1.90	1.92	4.333
C9ENRTECLI03-	FM	R/T			204					
C9JNGRS05101-	SM	LPU	0.0071	49	25	202	198	1.22	1.25	2.33
C9JNGRS05102-	SM	LPU	0.0071	49	25	202	198	1.22	1.25	2.33
C9JNGRS05103-	SM	LPU	0.0071	50	25	203	199	1.23	1.25	2.33
C9GNGLOBAL02-	LM	LPU	0.0409	286	228	1210	1206	7.44	7.46	8.667
C9INCOOLCV01-	SM	LPU	0.0180	126	68	527	523	3.23	3.25	2.33
C9GNRTGLOB01+	LM	R/T			408					
C9INWARMCV01-	SM	LPU	0.0163	114	68	476	472	2.91	2.94	2.33
C9INWARMCV02-	SM	LPU	0.0104	73	68	302	298	1.84	1.86	2.33
C9JNGRS01102-	SM	LPU	0.0071	50	68	204	200	1.23	1.26	2.33
C9JNGRS01103-	SM	LPU	0.0071	50	68	204	200	1.23	1.26	2.33
C9INCHEMIS01-	LM	LPU	0.0045	31	228	125	121	0.75	0.77	8.667
C9JNFEAFUL01-	LM	LPU	0.0091	63	253	262	258	1.59	1.62	8.667
C9JNFEA01504-	SM	LPU	0.0071	50	68	204	200	1.23	1.26	2.33
C9JNSPOLEM04-	SM	LPU	0.0135	94	68	393	389	2.40	2.42	2.33

C9 NIMS Resources

Activity ID	Mode	Record format	Tracks	Tics	Number Wavelengths Returned	Record Time (sec)	Playback Time (sec.)	Selected Bits of Tape sBOT (MBITS)	Total Bits of Tape BOT (Mbit)	Mode Cycle time (sec)
C9JNSPOLEM05-	SM	LPU	0.0135	94	68	393	389	2.40	2.42	2.33
C9JNGRS03901-	SM	LPU	0.0071	50	68	204	200	1.23	1.26	2.33
C9JNSPOLEM06-	SM	LPU	0.0135	94	68	393	389	2.40	2.42	2.33
C9JNGRSFUL01-	LM	MPW	0.0334	233	360	262	258	2.97	3.02	8.667
C9JNGRS03902-	SM	LPU	0.0071	50	68	204	200	1.23	1.26	2.33
C9JNGRS03903-	SM	LPU	0.0071	50	68	204	200	1.23	1.26	2.33
C9JNSPOLEM08-	SM	LPU	0.0135	94	68	393	389	2.40	2.42	2.33
C9INVOLCAN01-	LM	LPU	0.0035	25	228	97	93	0.57	0.60	8.667
C9INCHEMIS03-	LM	LPU	0.0071	50	228	204	200	1.23	1.26	8.667
C9JNFEA05701-	SM	LPU	0.0236	165	68	694	690	4.26	4.28	2.33
C9JNFEA05702-	SM	LPU	0.0071	50	68	204	200	1.23	1.26	2.33
C9JNFEA05703-	SM	LPU	0.0071	50	68	204	200	1.23	1.26	2.33
C9JNFEA05704-	SM	LPU	0.0073	51	68	209	205	1.26	1.29	2.33
C9INHRSPEC01-	LM	MPW	0.0199	139	360	155	151	1.74	1.79	8.667
C9INNSPEC 01-	LM	MPW	0.0161	112	360	125	121	1.39	1.44	8.667
C9JNGRS07501-	SM	LPU	0.0071	50	40	204	200	1.23	1.26	2.33
C9JNGRS07502-	SM	LPU	0.0071	50	40	204	200	1.23	1.26	2.33
C9JNGRS07504-	SM	LPU	0.0105	73	40	304	200	1.23	1.88	2.33
C9INCHEMIS04-	LM	LPU	0.0105	73	228	304	300	1.85	1.88	8.667
C9JNGRS53M01-	LM	LPU	0.0188	131	157	550	546	3.37	3.39	8.667
C9JNGRS5UM01-	LM	LPU	0.0188	131	157	550	546	3.37	3.39	8.667
C9JNAURMAP04+	LM	R/T								
C9JNFEA08501-	SM	LPU	0.0071	50	40	204	200	1.23	1.26	2.33
C9JNTHRCYL03-	LM	LPU	0.0404	282	127	1195	1191	7.35	7.37	8.667
C9JNFEA08502-	SM	LPU	0.0071	50	40	204	200	1.23	1.26	2.33
C9JNTHRCYL04-	LM	LPU	0.0404	282	127	1195	1191	7.35	7.37	8.667
C9JNFEA08503-	SM	LPU	0.0071	50	40	204	200	1.23	1.26	2.33
C9JNFEA08504-	SM	LPU	0.0071	50	40	204	200	1.23	1.26	2.33
C9HNDARK__04	LM	LPU	0.0024	17	252	64	60	0.37	0.39	8.667
C9JNFEA53M01-	LM	LPU	0.0243	170	157	715	711	4.39	4.41	8.667
C9JNFEA5UM01-	LM	LPU	0.0188	131	157	550	546	3.37	3.39	8.667
C9JNTHRCYL06-	LM	LPU	0.0453	316	127	1339	1335	8.23	8.26	8.667
C9JNAURVAR01+	LM	R/T								
C9JNTHRCYL07-	LM	LPU	0.0438	306	127	1295	1291	7.96	7.99	8.667
C9JNGRS09501-	SM	LPU	0.0071	50	68	204	200	1.23	1.26	2.33
C9JNGRS09502-	SM	LPU	0.0134	94	68	391	387	2.39	2.41	2.33
C9INCHEMIS06-	LM	LPU	0.0078	55	228	224	220	1.36	1.38	8.667
C9JNFEA10201-	SM	LPU	0.0071	50	68	204	200	1.23	1.26	2.33
C9JNFEA10202-	SM	LPU	0.0071	50	68	204	200	1.23	1.26	2.33

C9 NIMS Resources

Activity ID	Mode	Record format	Tracks	Tics	Number Wavelengths Returned	Record Time (sec)	Playback Time (sec.)	Selected Bits of Tape sBOT (MBITS)	Total Bits of Tape BOT (Mbit)	Mode Cycle time (sec)
C9JNAUCAMB01	FM	LPU	0.0108	75	126	312	308	1.90	1.92	4.333
C9JNAURRTB01	LM	R/T			408					
C9HNSTRCAL01-	LM	R/T			17					
C9JNAURRTB02	LM	R/T			408					
C9JNAURRTB03	LM	R/T			408					
C9JNAURRTB04	LM	R/T			408					
C9HNSTRCAL02-	LM	R/T			17					
C9JNAURRTB05	LM	R/T			408					
C9JNAUCAMB02	FM	LPU	0.0108	75	126	312	308	1.90	1.92	4.333
C9NNRCTRLT01-	LM	R/T			252					
C9NNPCTRLT01-	LM	R/T			252					
C9NNRCTRLT02-	LM	R/T			252					
C9JNGRS15601-	SM	LPU	0.0021	15	68	54	50	0.31	0.33	2.33
C9JNSOU15601-	SM	LPU	0.0021	15	68	54	50	0.31	0.33	2.33
C9JNNOR15601-	SM	LPU	0.0021	15	68	54	50	0.31	0.33	2.33
C9RNMRING_01-	FM	LPU	0.0085	59	126	244	240	1.48	1.50	4.333
C9JNFEA15601-	SM	LPU	0.0021	15	68	54	50	0.31	0.33	2.33
C9NNOPCAL_01-	LM	R/T								
C9JNFEA14501-	SM	LPU	0.0021	15	68	54	50	0.31	0.33	2.33
C9JNFEA14502-	SM	LPU	0.0021	15	68	54	50	0.31	0.33	2.33
C9JNGRS14501-	SM	LPU	0.0021	15	68	54	50	0.31	0.33	2.33
C9JNGRS14502-	SM	LPU	0.0021	15	68	54	50	0.31	0.33	2.33
C9JNFEA14503-	SM	LPU	0.0021	15	68	54	50	0.31	0.33	2.33
C9JNSOU14501-	SM	LPU	0.0021	15	68	54	50	0.31	0.33	2.33
C9JNNOR14501-	SM	LPU	0.0021	15	68	54	50	0.31	0.33	2.33
C9JNEQU14501-	SM	LPU	0.0021	15	68	54	50	0.31	0.33	2.33
Total			**1.2004**	**8525**						
Allocation			**1.2225**	**7767**						
Overage			**-0.0221**	**758**						

NIMS C9 OBSERVING GEOMETRY

OAPEL	Latitude (deg)	Longitude (deg)	Range (km)	Cone (deg)	Light (deg)	View (deg)	Phase (deg)
C9CNGLOBAL01	-90 to +90	70 to 170	201K	86	3 to 94	1 to 90	86
C9CNANARR_01	+22 to +28	2 to 9	7K	74 to 98	75 to 81	46 to 66	111 to 134
C9CNSKULD_01	+3 to +13	32 to 44	22K	104 to 108	39 to 50	51 to 67	101 to 105
C9CNNOLAT_01	+32 to +50	354 to 12	35K	113	76 to 90	40 to 51	95
C9CNVALSPC01	+5 to +15	23 to 50	46K	113	34 to 60	36 to 64	95
C9CNVALHAL01	-35 to +50	8 to 83	122K	117	8 to 77	16 to 91	91
C9HNDARK__01	----------	----------	-------	120	----------	----------	----------
C9JNSRTAUR01	-65	310	1622K	82	79	70	91
C9JNSRTAUR02	-65	345	1611K	82	89	67	90
C9JNRTHOTS01	+6.5	1	1563K	83	95	9	90
C9JNSRTAUR03	-65	45	1605K	84	106	73	89
C9JNRTHOTS02	+6.5	126	1463K	87	94	11	85
C9JNSRTAUR06	-65	210	1450K	89	97	70	82
C9JNRTHOTS03	+6.5	286	1340K	93	98	20	79
C9JNAURMAP01	-75	342 to 355	1350K	95	95	74	77
C9GNGLOBAL01	-60 to +75	60 to 240	176K	129	2 to 125	2 to 90	42
C9JNAURMAP02	+60	160 to 170	1150K	105	81	63	4
C9ENCLIPSE01	-90 to +90	270 to 120	1592K	131	5 to 132	3 to 90	42

NIMS C9 OBSERVING GEOMETRY

OAPEL	Latitude (deg)	Longitude (deg)	Range (km)	Cone (deg)	Light (deg)	View (deg)	Phase (deg)
C9ENRTECLI01	-90 to +90	270 to 120	1587K	131	12 to 131	5 to 90	41
C9HNDARK__02	----------	----------	-------	120	----------	----------	----------
C9GNDRKLIT01	+15 to +52	55 to 136	81K	168 to 177	24 to 66	24 to 50	10 to 19
C9GNBRILED01	-22 to +7	65 to 85	80K	162 to 165	34 to 55	12 to 31	22 to 25
C9GNRTSULC01	+20 to +35	60 to 110	82K	155	31 to 64	36 to 40	32
C9ENCLIPSE03	-90 to +90	300 to 120	1486K	141	1 to 123	3 to 90	32
C9ENRTECLI03	-90 to +90	300 to 120	1483K	141	2 to 122	9 to 90	32
C9JNGRS05101	-27 to -20	57 to 77	942K	122	65 to 85	28 to 42	50
C9JNGRS05102	-27 to -20	60 to 79	930K	123	57 to 75	25 to 34	50
C9JNGRS05103	-27 to -20	33 to 78	919K	122	24 to 40	28 to 68	50
C9GNGLOBAL02	-90 to +90	26 to 80	166K	106	62 to 97	8 to 61	81
C9INCOOLCV01	-90 to +90	300 to 120	1310K	139	1 to 124	1 to 90	33
C9GNRTGLOB01	-90 to +90	54 to 113	200K	100	38 to 79	20 to 73	87
C9INWARMCV01	-90 to +90	300 to 120	1220K	150	1 to 112	0 to 90	22
C9INWARMCV02	-90 to +90	300 to 120	1195K	153	1 to 109	0 to 90	19
C9JNGRS01102	-27 to -20	56 to 81	760K	160	54 to 78	45 to 69	12
C9JNGRS01103	-27 to -20	61 to 76	719K	164	22 to 26	23 to 32	8
C9INCHEMIS01	-90 to +90	330 to 150	890K	156	3 to 121	3 to 90	31

NIMS C9 OBSERVING GEOMETRY

OAPEL	Latitude (deg)	Longitude (deg)	Range (km)	Cone (deg)	Light (deg)	View (deg)	Phase (deg)
C9JNFEAFUL01	+3 to +10	256 to 270	707K	167	15 to 32	6 to 14	20
C9JNFEA01504	+1 to +14	251 to 272	736K	165	56 to 81	34 to 59	22
C9JNSPOLEM04	-90 to -50	243 to 344	771K	159	64 to 98	62 to 90	27
C9JNSPOLEM05	-90 to -50	300 to 30	778K	155	61 to 81	60 to 91	31
C9JNGRS03901	-27 to -20	20 to 77	770K	151	19 to 55	34 to 90	35
C9JNSPOLEM06	-90 to -50	330 to 60	793K	150	62 to 88	61 to 88	37
C9JNGRSFUL01	-27 to -20	48 to 76	774K	145	42 to 70	25 to 32	42
C9JNGRS03902	-27 to -20	60 to 77	786K	144	61 to 78	29 to 41	43
C9JNGRS03903	-27 to -20	57 to 79	797K	144	66 to 91	29 to 54	44
C9JNSPOLEM08	-90 to -50	30 to 180	840K	139	69 to 97	67 to 91	46
C9INVOLCAN01	-90 to +90	30 to 105	656K	109	81 to 155	3 to 77	78
C9INCHEMIS03	-90 to +90	20 to 200	641K	107	10 to 170	0 to 90	80
C9JNFEA05701	+2 to +13	190 to 260	862K	130	7 to 45	14 to 90	56
C9JNFEA05702	+2 to +13	190 to 260	862K	130	7 to 45	14 to 90	56
C9JNFEA05703	+2 to +13	255 to 270	882K	124	47 to 65	7 to 18	63
C9JNFEA05704	+2 to +13	257 to 274	905K	124	73 to 92	12 to 30	64
C9INHRSPEC01	-90 to +90	135 to 235	606K	107	9 to 90	0 to 90	81
C9INNSPEC_01	-90 to +90	60 to 140	606K	107	87 to 171	7 to 90	81

NIMS C9 OBSERVING GEOMETRY

OAPEL	Latitude (deg)	Longitude (deg)	Range (km)	Cone (deg)	Light (deg)	View (deg)	Phase (deg)
C9JNGRS07501	-27 to -20	44 to 75	999K	112	25 to 47	39 to 68	75
C9JNGRS07502	-27 to -20	42 to 80	1004K	112	43 to 79	23 to 46	75
C9JNGRS07504	-27 to -20	67 to 87	1027K	110	72 to 92	25 to 29	77
C9INCHEMIS04	-90 to +90	100 to 280	678K	112	7 to 165	1 to 90	75
C9JNGRS53M01	-29 to -18	44 to 80	1068K	110	95 to 140	30 to 73	77
C9JNGRS5UM01	-29 to -18	45 to 80	1108K	110	123 to 154	54 to 90	77
C9JNAURMAP03	+60	165 to 170	1107K	106	72	67	82
C9JNFEA08501	+2 to +13	221 to 271	1147K	101	7 to 49	38 to 90	86
C9JNTHRCYL03	+2 to +13	118 to 177	1145K	105	95 to 164	14 to 85	82
C9JNFEA08502	+2 to +13	248 to 296	1168K	100	7 to 49	39 to 90	88
C9JNTHRCYL04	+2 to +13	139 to 204	1169K	104	95 to 169	13 to 90	83
C9JNFEA08503	+2 to +13	252 to 275	1158K	100	49 to 74	15 to 40	88
C9JNFEA08504	+2 to +13	252 to 273	1162K	100	63 to 86	7 to 27	88
C9HNDARK__04	----------	----------	-------	120	----------	----------	----------
C9JNFEA53M01	+2 to +13	252 to 274	1183K	100	89 to 127	6 to 40	88
C9JNFEA5UM01	+2 to +13	250 to 274	1214K	100	117 to 145	29 to 59	88
C9JNTHRCYL06	+2 to +13	234 to 302	1250K	100	97 to 171	10 to 90	88
C9JNAURVAR01	-50 to -60	250 to 254	1300K	98	122 to 132	90 to 91	----------

NIMS C9 OBSERVING GEOMETRY

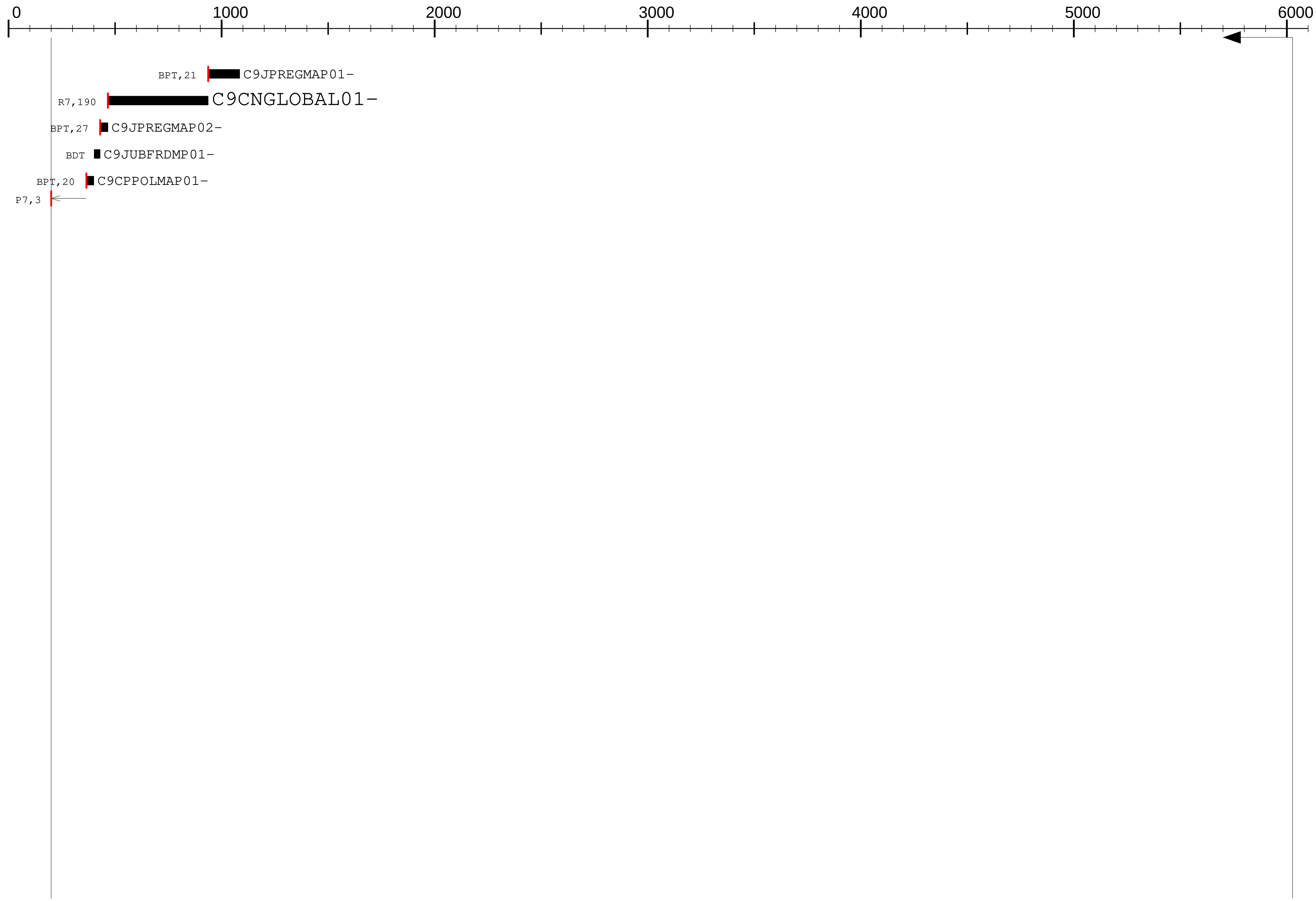
OAPEL	Latitude (deg)	Longitude (deg)	Range (km)	Cone (deg)	Light (deg)	View (deg)	Phase (deg)
C9JNTHRCYL07	+2 to +13	300 to 5	1295K	96	96 to 169	8 to 82	93
C9JNGRS09501	-29 to -18	49 to 81	1295K	92	45 to 75	31 to 60	96
C9JNGRS09502	-32 to -15	53 to 81	1300K	92	62 to 90	19 to 46	96
C9INCHEMIS06	-90 to +90	200 to 10	1449K	106	8 to 172	3 to 90	82
C9JNFEA10201	+0 to +15	246 to 301	1468K	84	15 to 71	32 to 90	103
C9JNFEA10202	-7 to +22	250 to 280	1460K	84	61 to 94	9 to 45	103
C9JNAUCAMB01	-90 to -35	6 to 182	4574K	35	70 to 124	56 to 90	150
C9JNAURRTB01	-65	83	4570K	36	114	67	151
C9JNAURRTB02	-65	95	4580K	36	114	68	151
C9JNAURRTB03	-65	108	4590K	36	115	69	151
C9JNAURRTB04	-65	117	4597K	36	115	70	151
C9JNAURRTB05	-65	121	4610K	36	113	74	151
C9JNAUCAMB02	-90 to -35	88 to 264	4614K	35	70 to 124	56 to 90	151
C9JNGRS15601	-60 to +10	62 to 114	7163K	91	67 to 116	42 to 90	156
C9JNSOU15601	-90 to -10	65 to 122	7164K	92	71 to 113	53 to 90	156
C9JNNOR15601	+10 to +90	69 to 122	7160K	92	70 to 112	53 to 90	156
C9RNMRING_01	----------	----------	-------	93	----------	----------	----------
C9JNFEA15601	-35 to +45	118 to 164	7140K	92	66 to 112	44 to 90	156

NIMS C9 OBSERVING GEOMETRY

OAPEL	Latitude (deg)	Longitude (deg)	Range (km)	Cone (deg)	Light (deg)	View (deg)	Phase (deg)
C9JNFEA14501	-15 to +30	53 to 104	5080K	91	55 to 106	39 to 90	145
C9JNFEA14502	-15 to +30	58 to 109	5080K	91	55 to 106	39 to 90	145
C9JNGRS14501	-55 to -5	62 to 108	5090K	91	57 to 101	48 to 90	145
C9JNGRS14502	-55 to -5	67 to 120	5090K	91	58 to 106	42 to 90	145
C9JNFEA14503	-15 to +30	71 to 118	5090K	91	56 to 102	43 to 90	145
C9JNSOU14501	-90 to -20	73 to 119	5090K	91	64 to 99	58 to 90	145
C9JNNOR14501	+20 to +90	76 to 120	5090K	91	63 to 97	60 to 90	145
C9JNEQU14501	-23 to +23	79 to 126	5090K	91	55 to 102	42 to 90	145

Phase 2A Tapemap of c09ajm.tapemap-c
Date: Fri Jun 20 9:26:33 1997 Page: 1

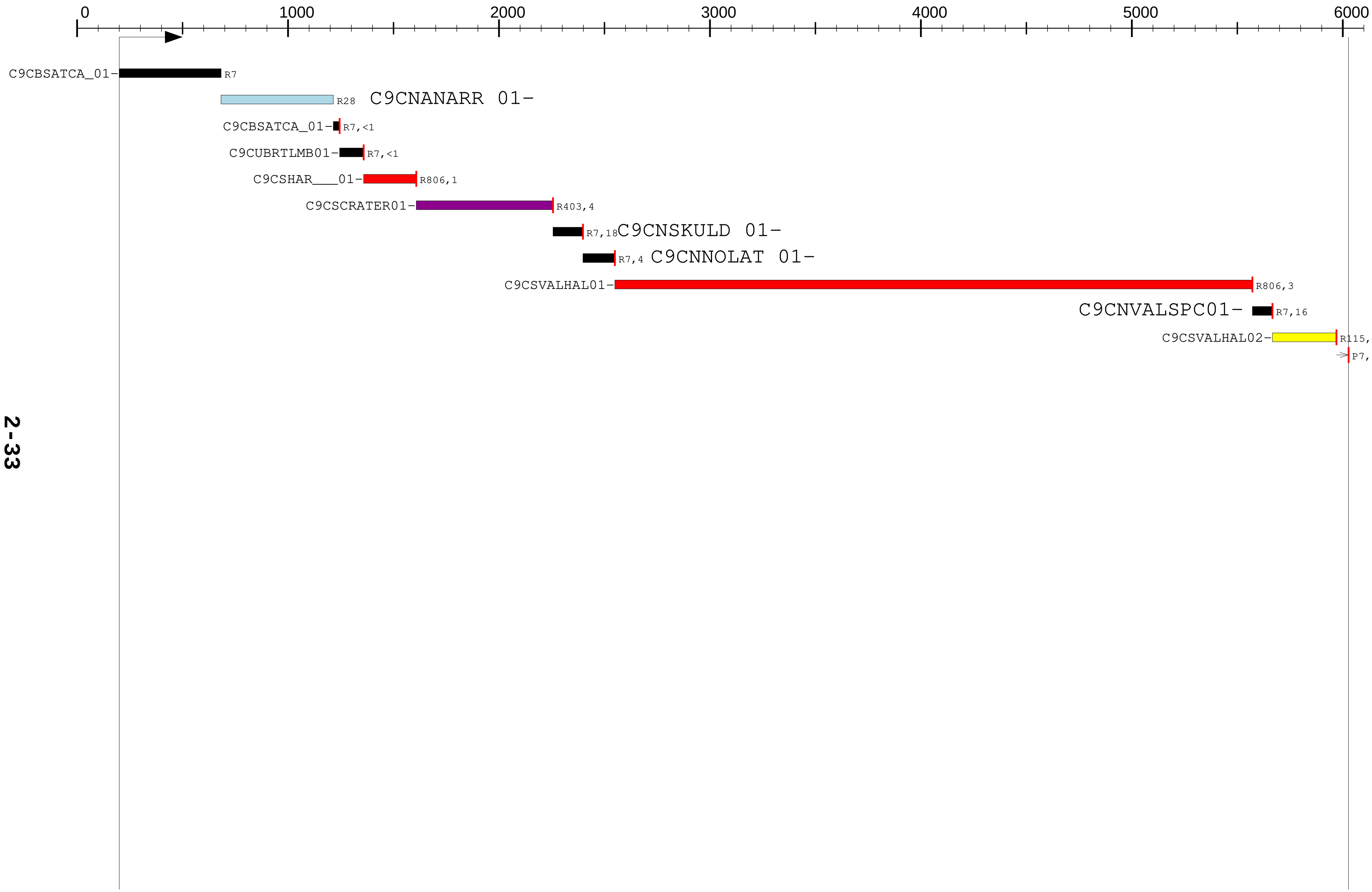
Track 4



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

Phase 2A Tapemap of c09ajm.tapemap-c
Date: Fri Jun 20 9:26:33 1997 Page: 2

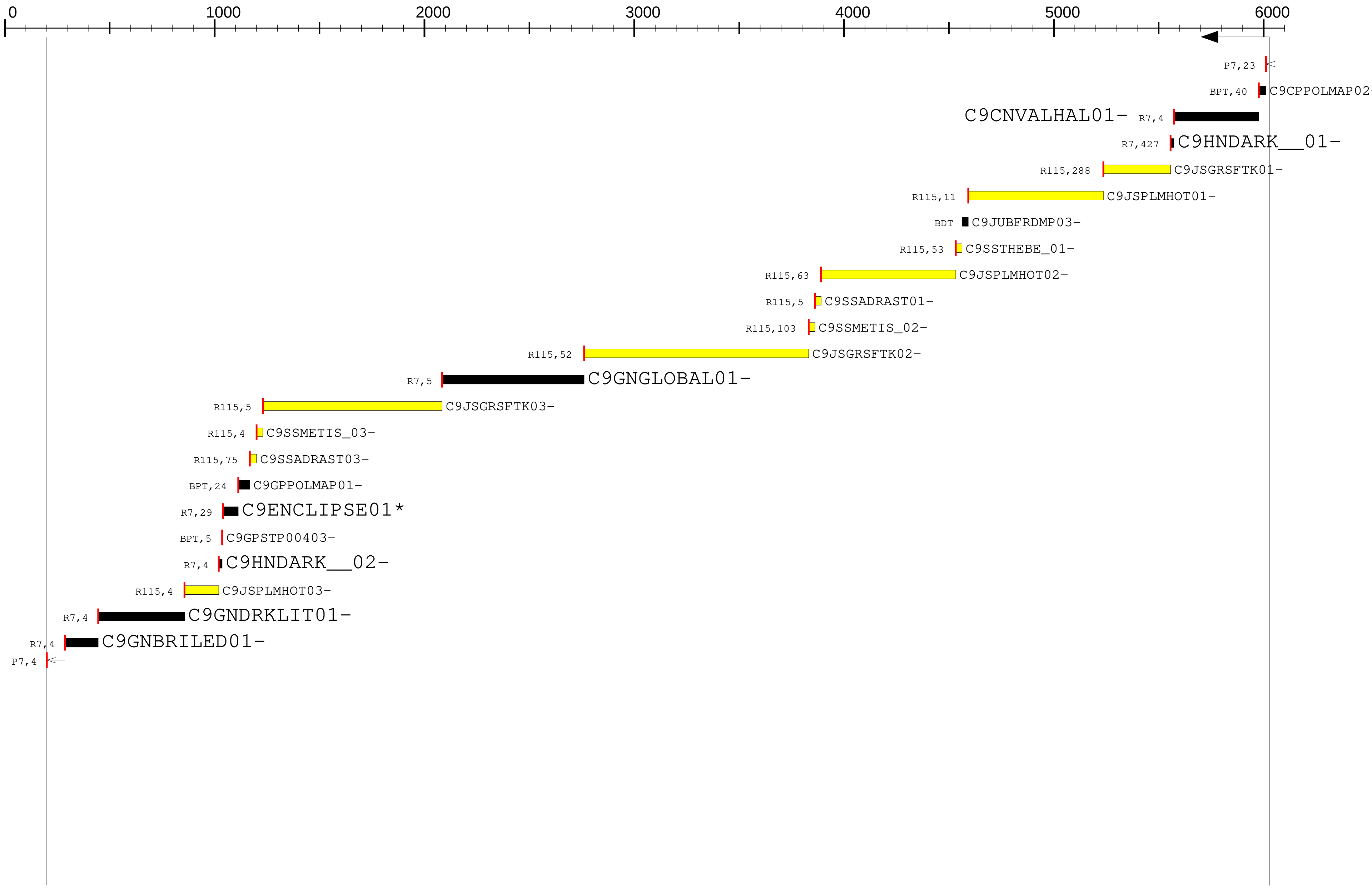
Track 1



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

Phase 2A Tapemap of c09ajm.tapemap-c
Date: Fri Jun 20 9:26:33 1997 Page: 3

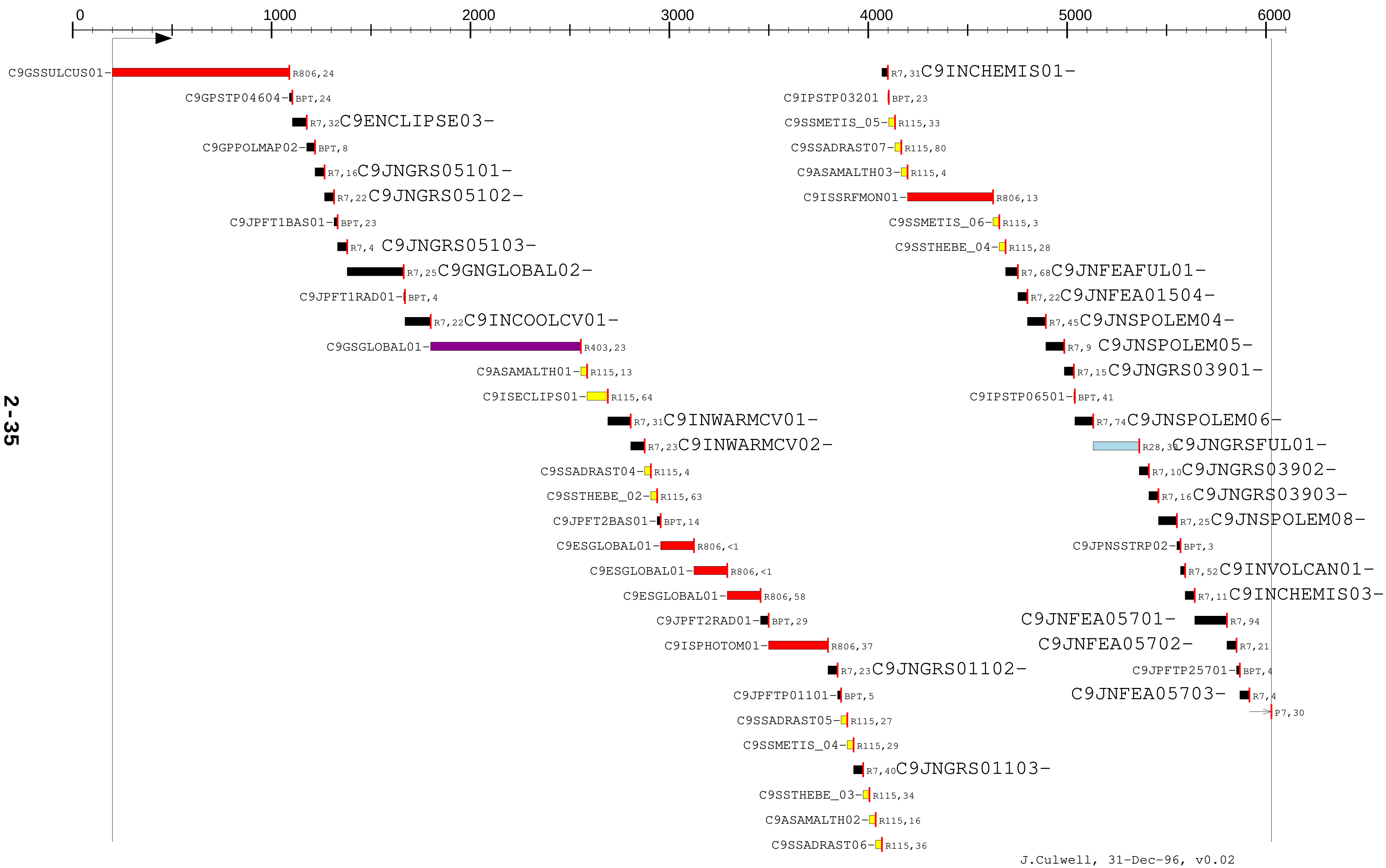
Track 2



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

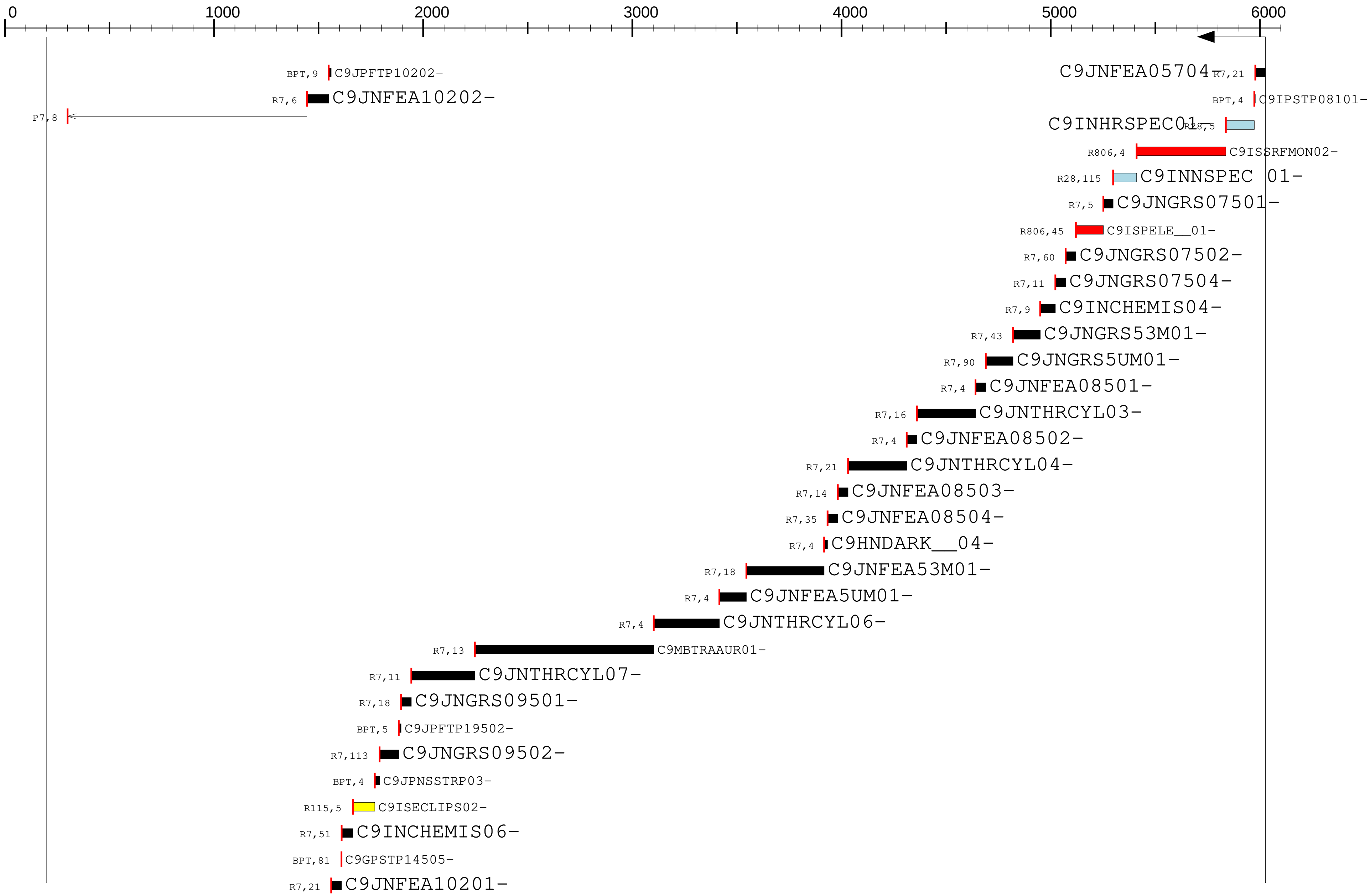
Phase 2A Tapemap of c09ajm.tapemap-c
Date: Fri Jun 20 9:26:33 1997 Page: 4

Track 3



Phase 2A Tapemap of c09ajm.tapemap-c
Date: Fri Jun 20 9:26:33 1997 Page: 5

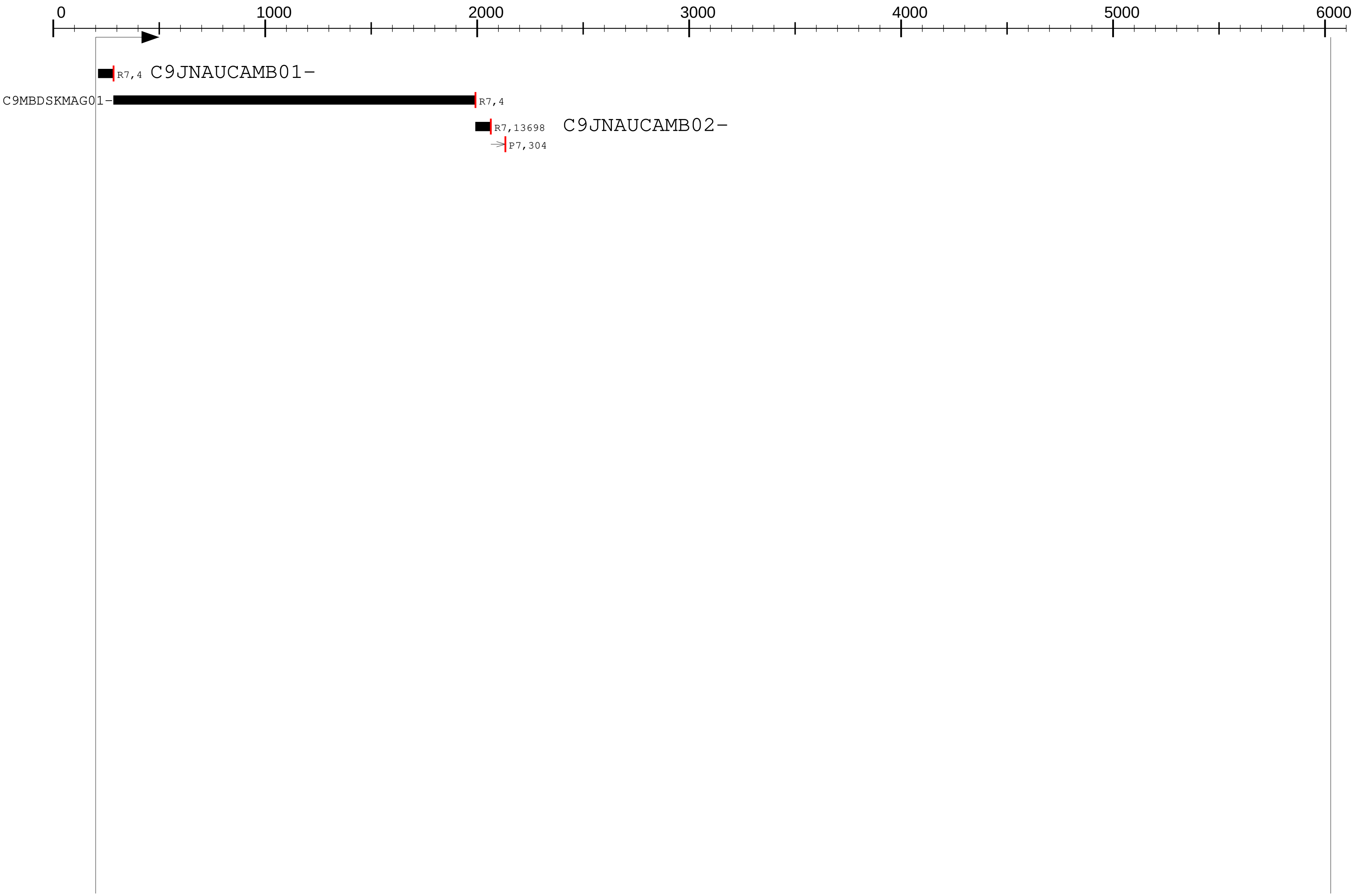
Track 4



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

Phase 2A Tapemap of c09buh.tapemap-c
Date: Mon Sep 8 13:12:49 1997 Page: 1

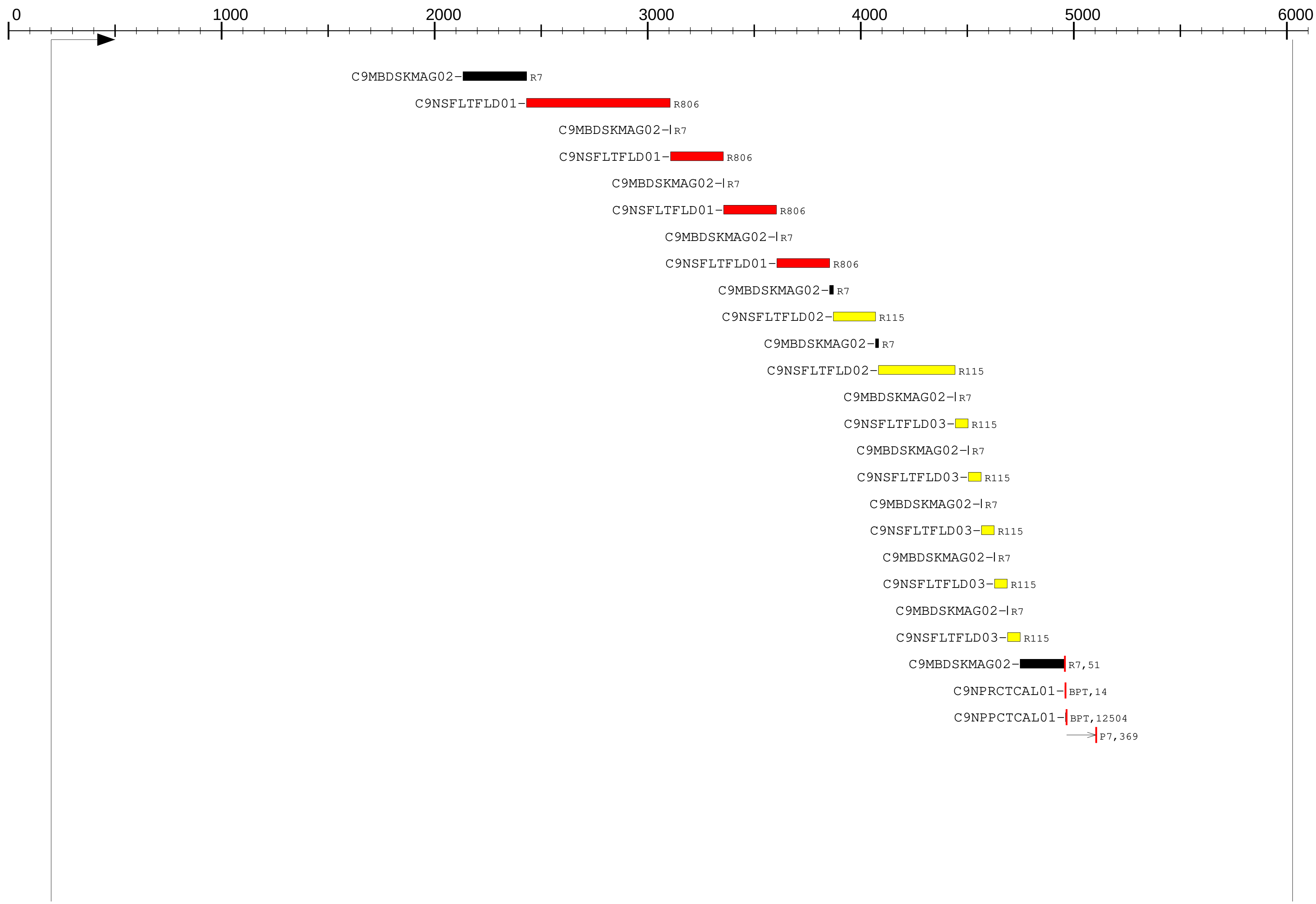
Track 3



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

Phase 2A Tapemap of c09buh.tapemap-c
Date: Mon Sep 8 13:12:49 1997   Page: 2

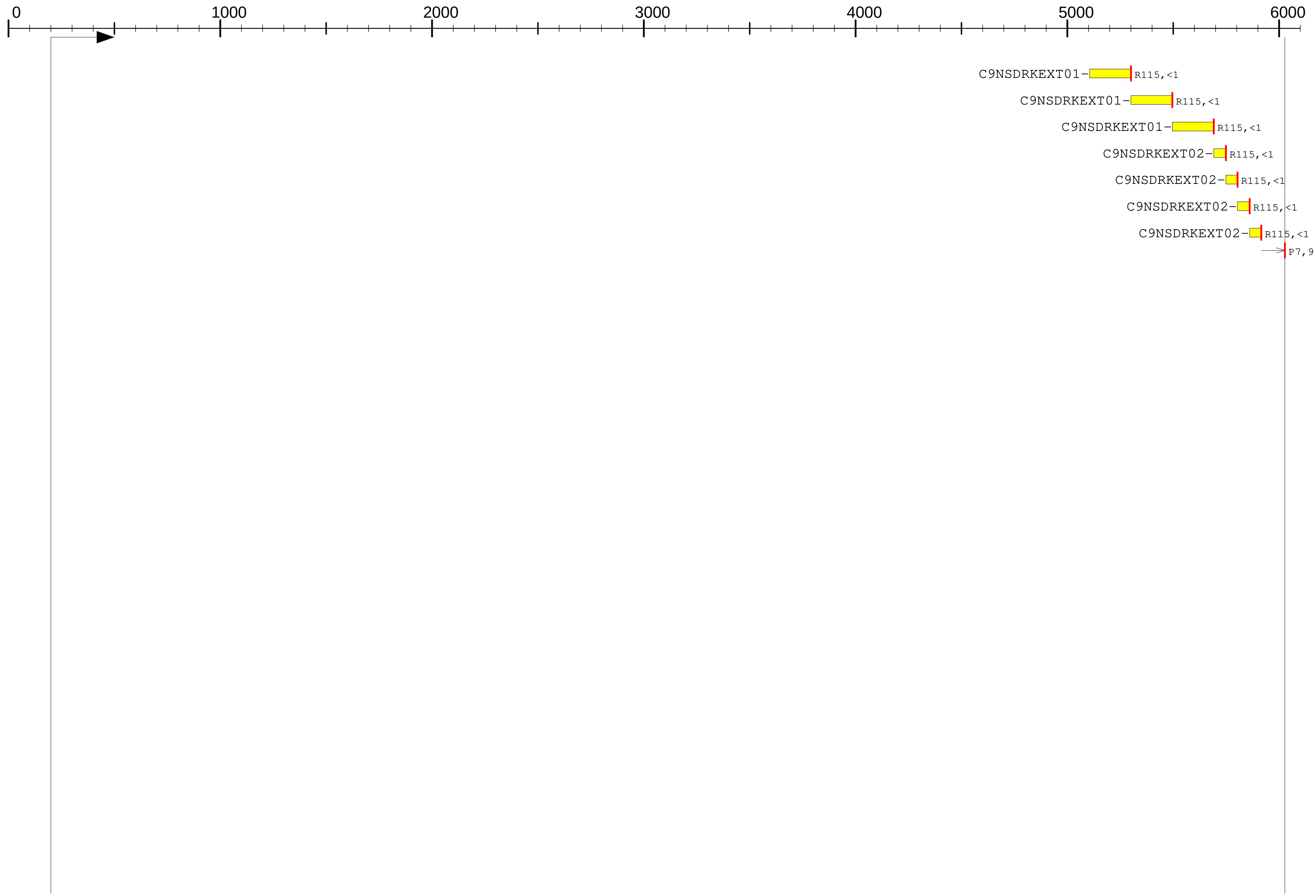
Track 3



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

Phase 2A Tapemap of c09buh.tapemap-c
Date: Mon Sep 8 13:12:49 1997 Page: 3

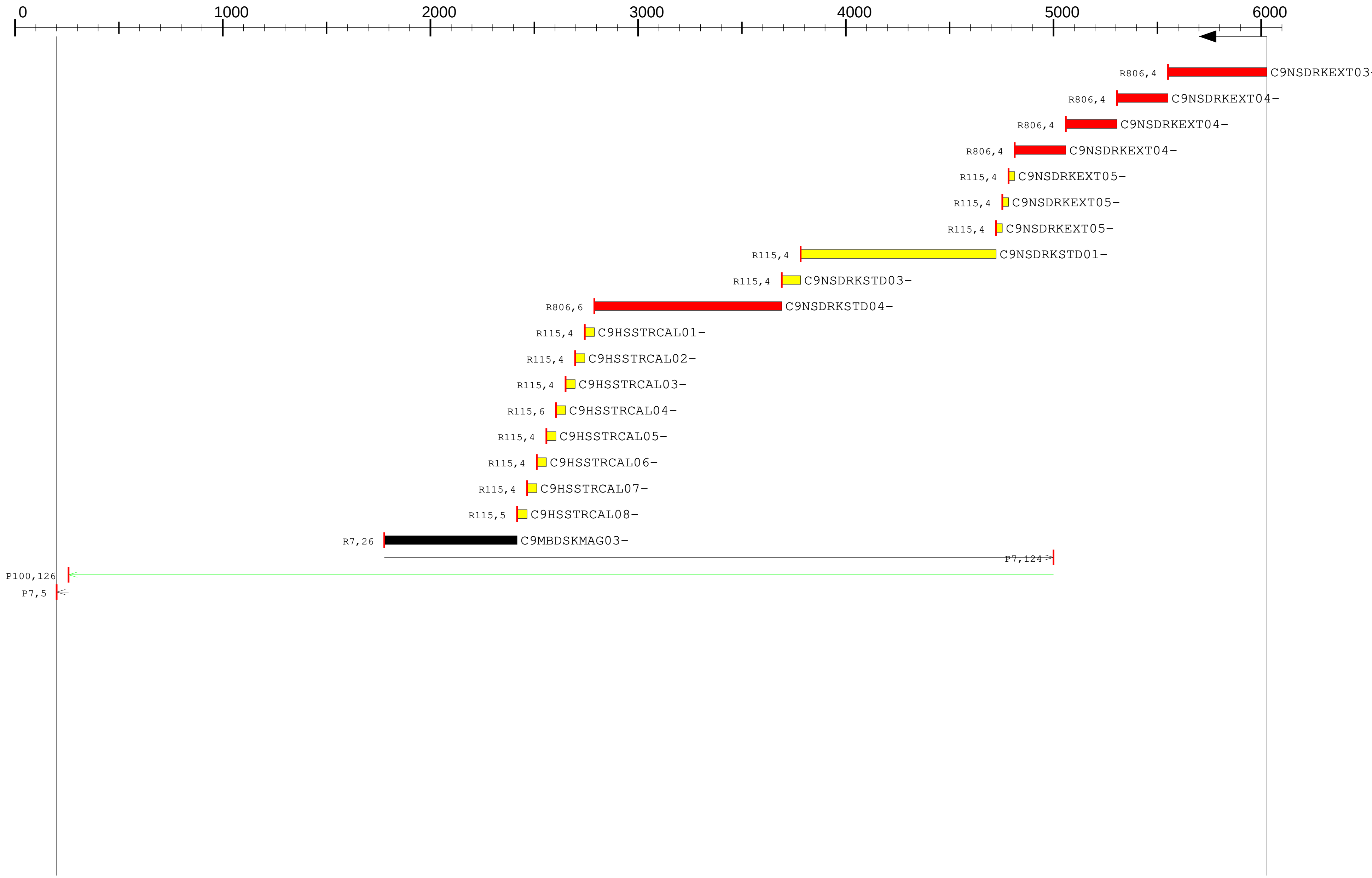
Track 3



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

Phase 2A Tapemap of c09buh.tapemap-c
Date: Mon Sep 8 13:12:49 1997 Page: 4

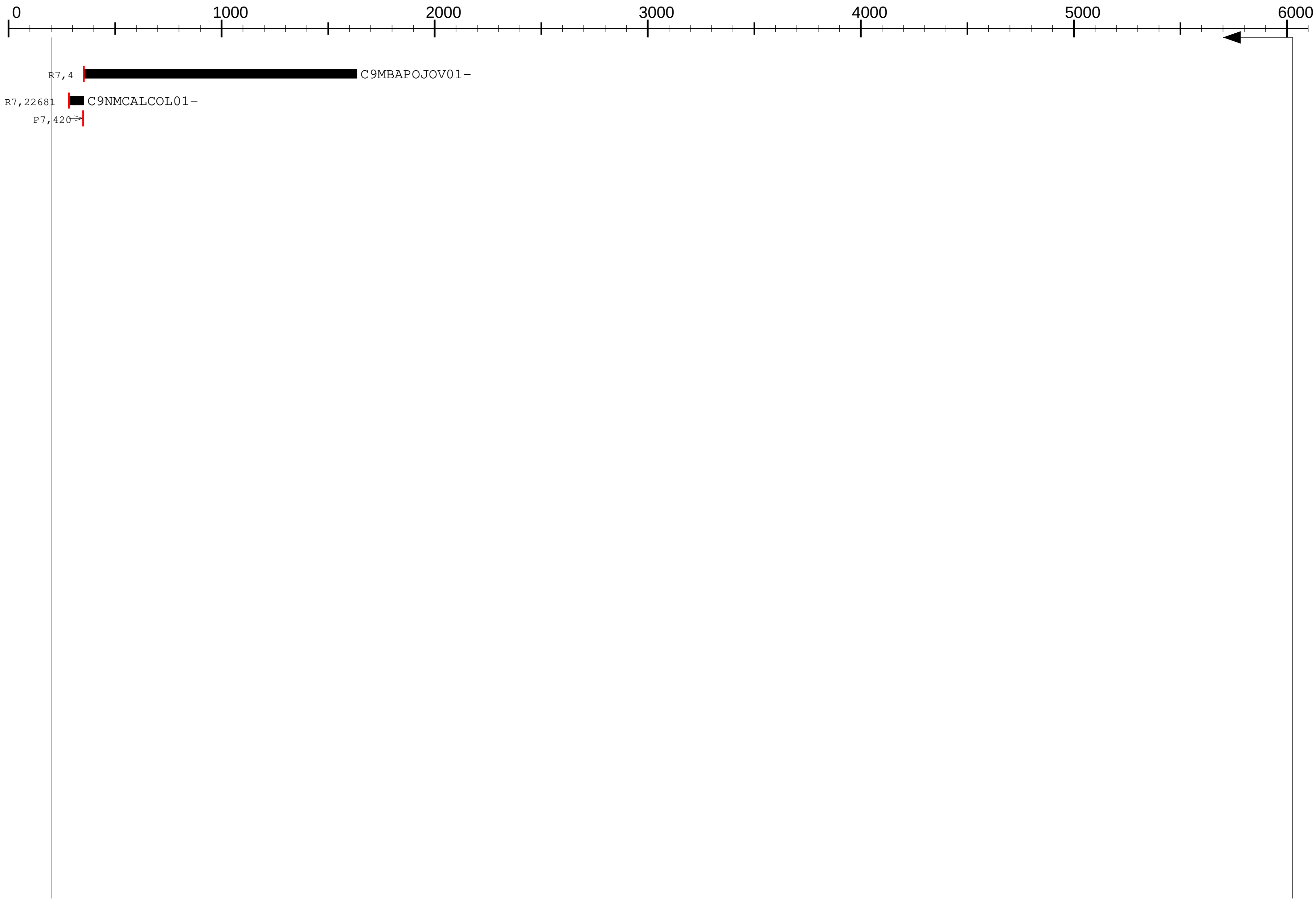
Track 4



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

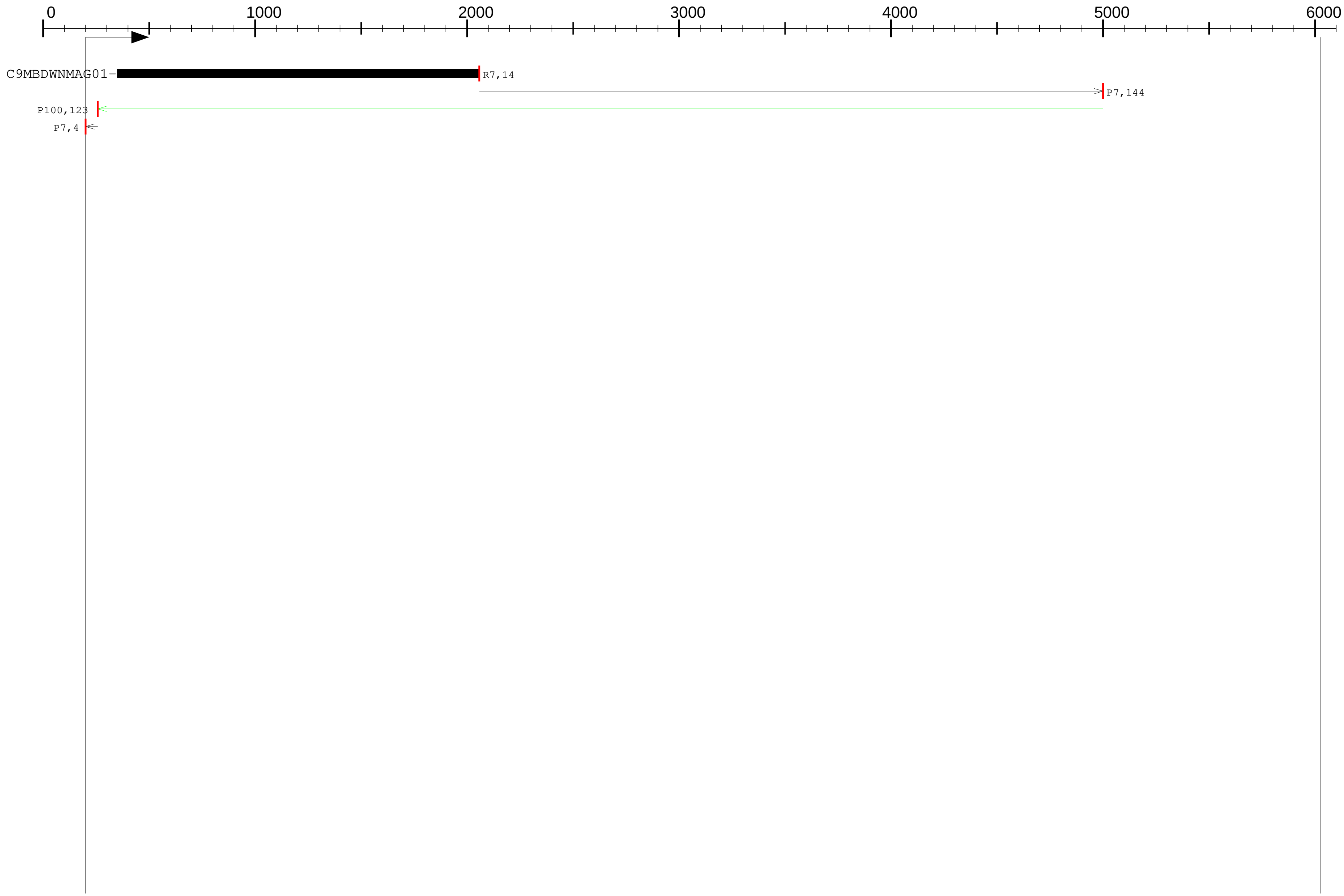
Phase 2A Tapemap of c09cgi.tapemap-c
Date: Mon Sep 8 13:13:01 1997 Page: 2

Track 4



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

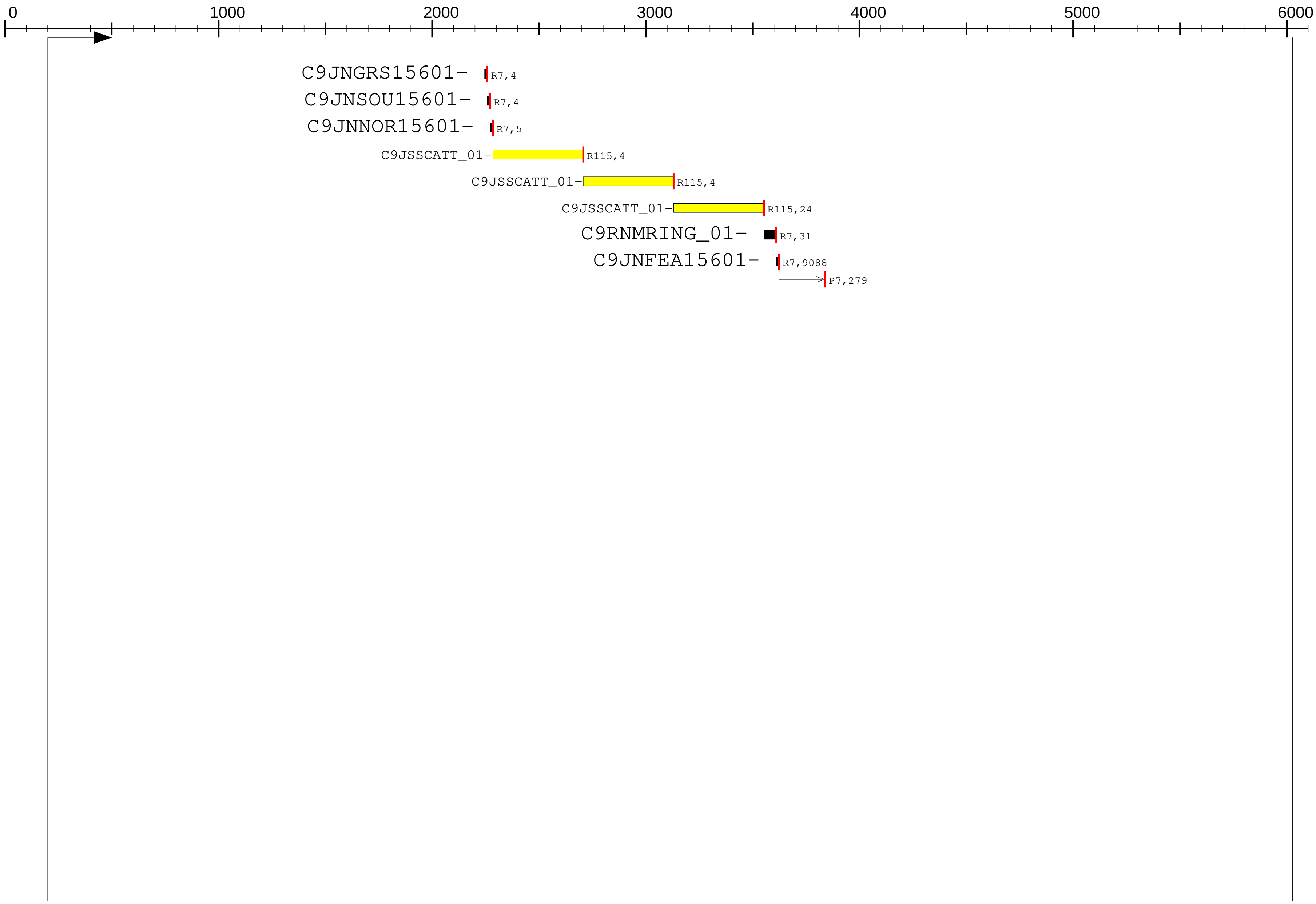
Track 3



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

Track 3

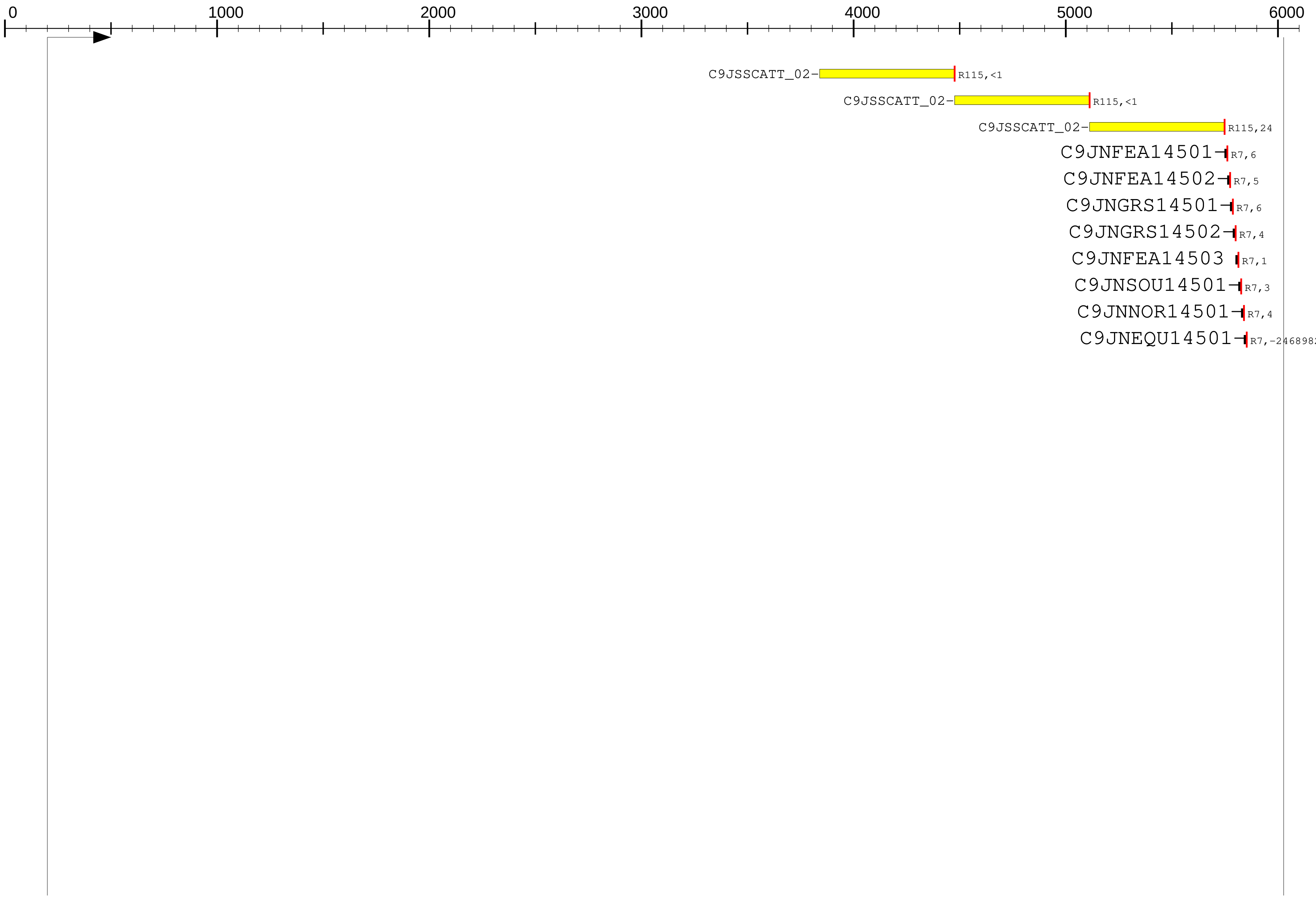
SLT



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

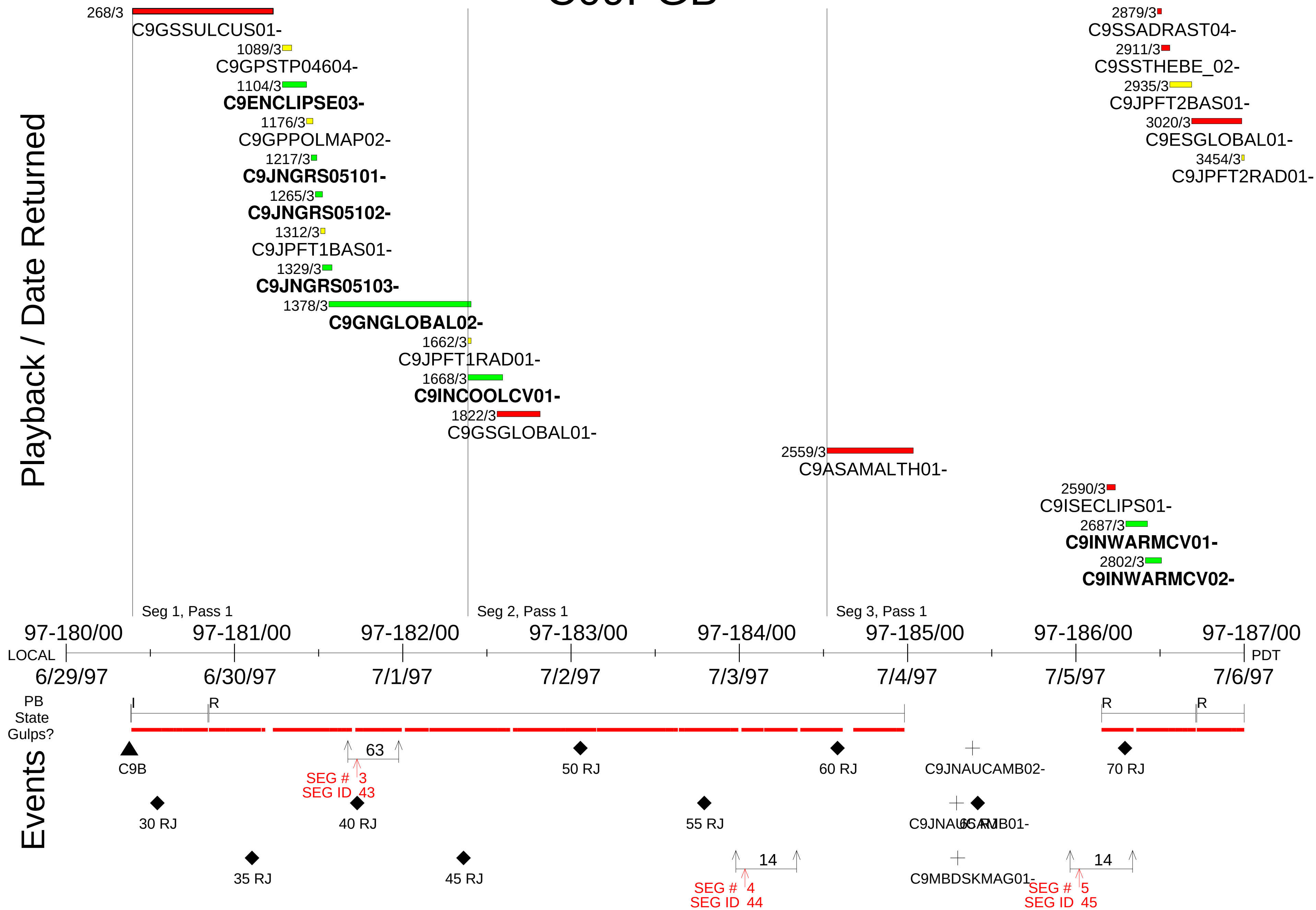
Phase 2A Tapemap of c09cgi.tapemap-c
Date: Mon Sep 8 13:13:01 1997 Page: 8

Track 3



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

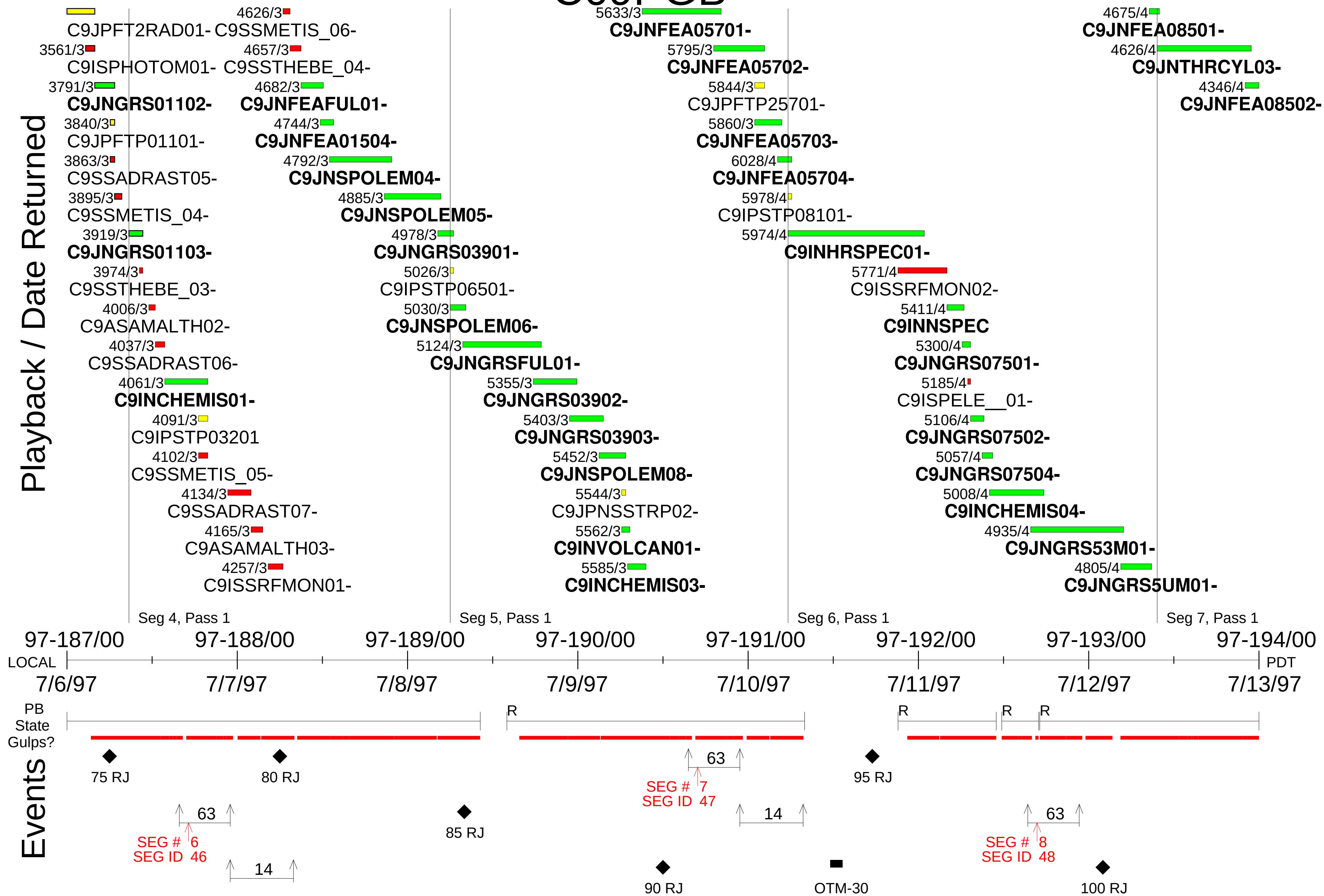
C09PGB



ORPROs Loaded: inputs/orpro.c09buh inputs/orpro.c09cga

Fri Jun 20 16:23:15 1997, Page 1 of 11

C09PGB



ORPROs Loaded: inputs/orpro.c09buh inputs/orpro.c09cga

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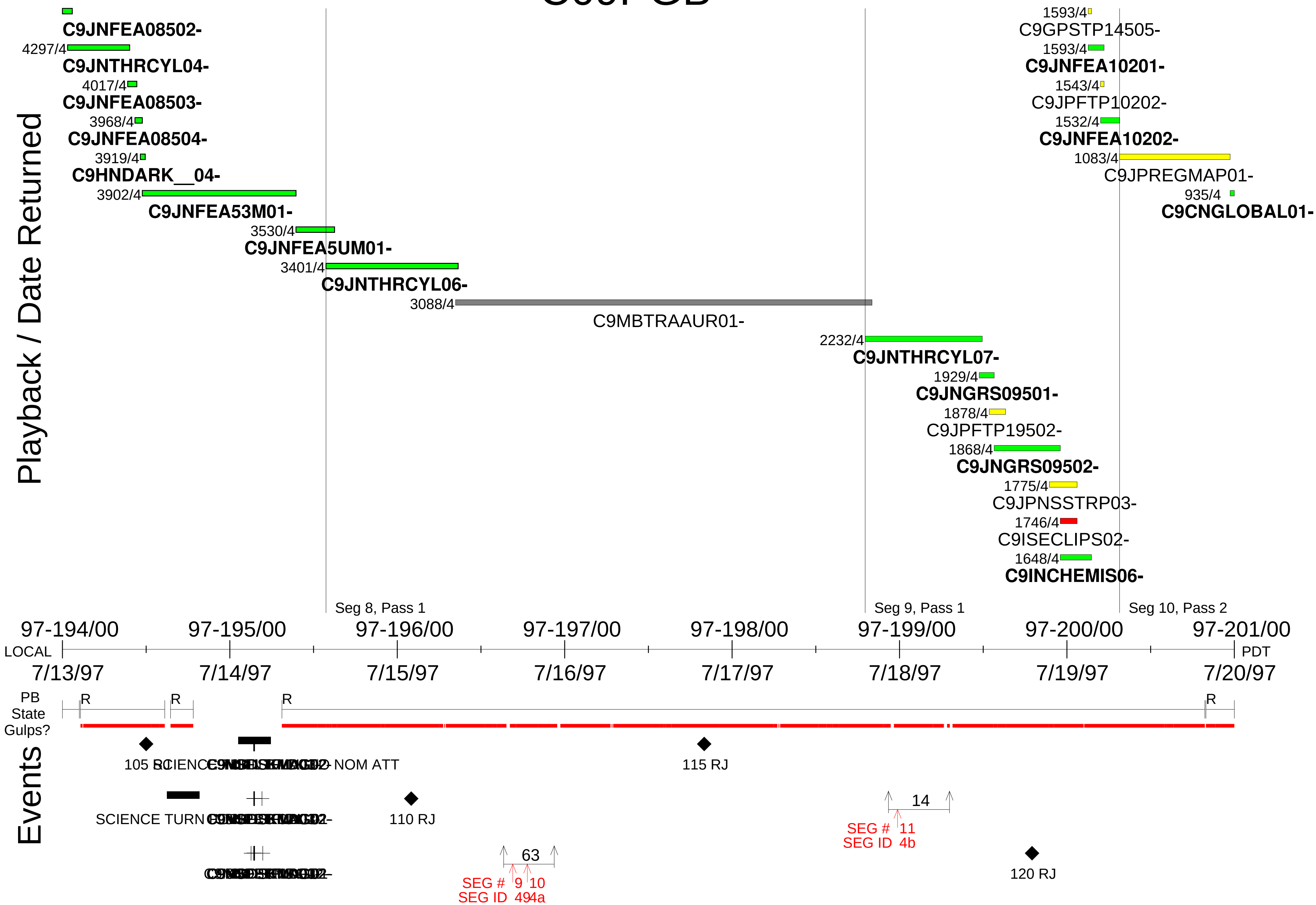
C09PGB



ORPROs Loaded: inputs/orpro.c09buh inputs/orpro.c09cga

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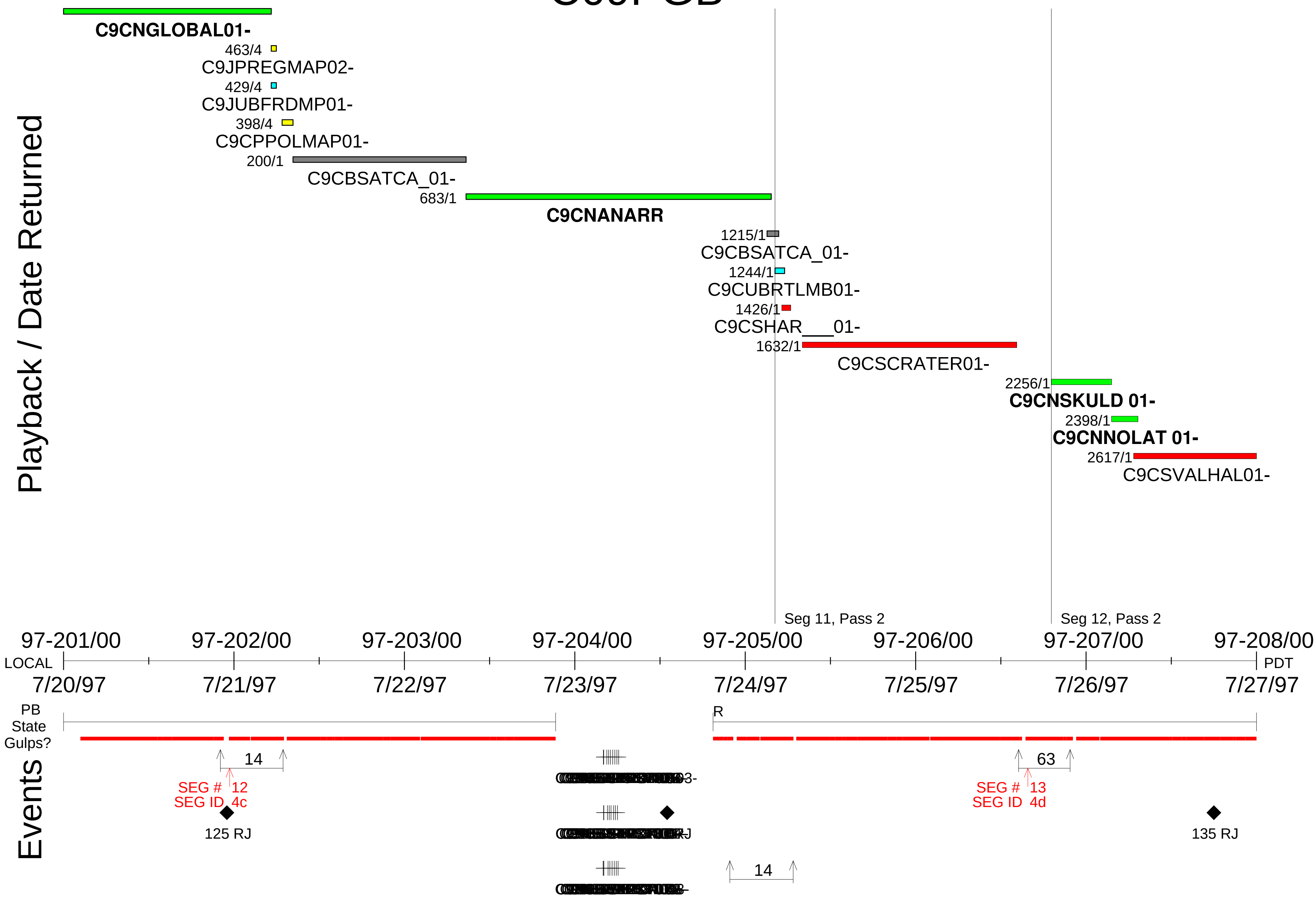
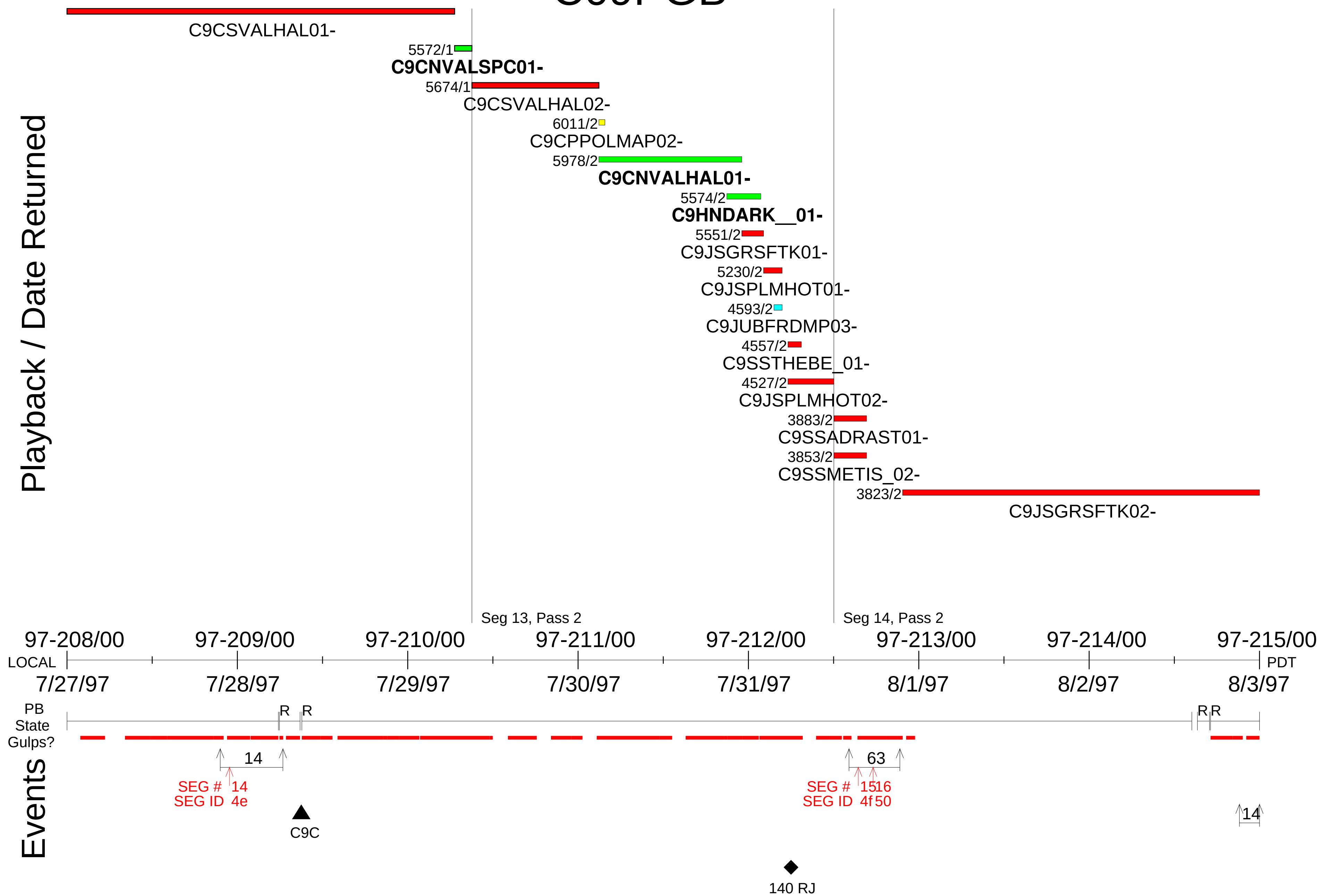
C09PGB



Playback / Date Returned
C9CNGLOBAL01-
463/4
C9JPREGMAP02-
429/4
C9JUBFRDMP01-
398/4
C9CPPOLMAP01-
200/1
C9CBSATCA_01-
683/1
C9CNANARR
1215/1
C9CBSATCA_01-
1244/1
C9CUBRTLMB01-
1426/1
C9CSHAR___01-
1632/1
C9CSCRATER01-
2256/1
C9CNSKULD 01-
2398/1
C9CNNOLAT 01-
2617/1
C9CSVALHAL01-
Seg 11, Pass 2
Seg 12, Pass 2
97-201/00
97-202/00
97-203/00
97-204/00
97-205/00
97-206/00
97-207/00
97-208/00
LOCAL
PDT
7/20/97
7/21/97
7/22/97
7/23/97
7/24/97
7/25/97
7/26/97
7/27/97
PB
State
Gulps?
R
14
SEG # 12
SEG ID 4c
125 RJ
63
SEG # 13
SEG ID 4d
135 RJ
14
Events

C09PGB



ORPROs Loaded: inputs/orpro.c09buh inputs/orpro.c09cga

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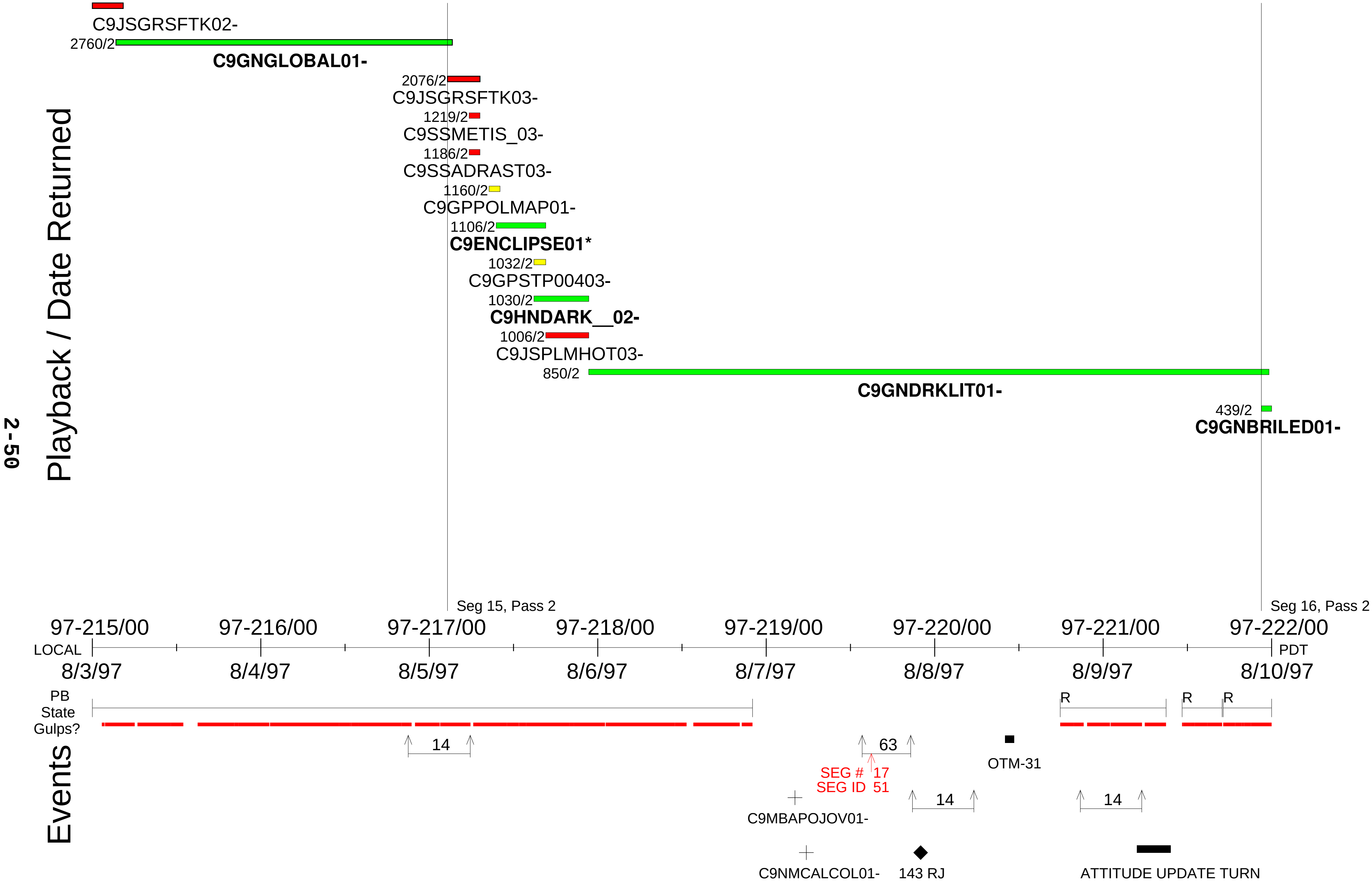
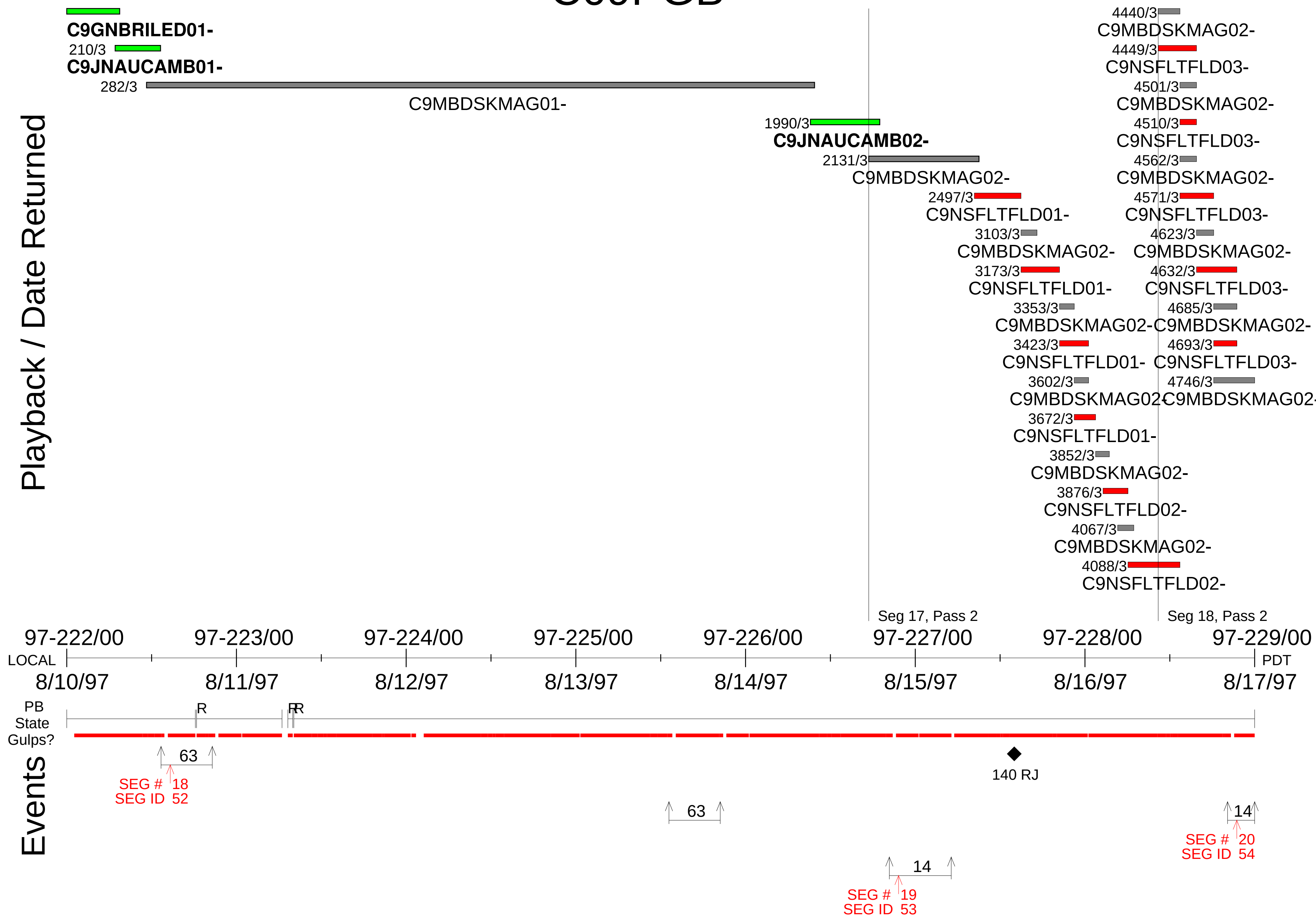
C09PGB



Playback / Date Returned
C9JSGRSFTK02-
2760/2
C9GNGLOBAL01-
2076/2
C9JSGRSFTK03-
1219/2
C9SSMETIS_03-
1186/2
C9SSADRAST03-
1160/2
C9GPPOLMAP01-
1106/2
C9ENCLIPSE01*
1032/2
C9GPSTP00403-
1030/2
C9HNDARK__02-
1006/2
C9JSPLMHOT03-
850/2
C9GNDRKLIT01-
439/2
C9GNBRILED01-
Seg 15, Pass 2
Seg 16, Pass 2
97-215/00
97-216/00
97-217/00
97-218/00
97-219/00
97-220/00
97-221/00
97-222/00
LOCAL
PDT
8/3/97
8/4/97
8/5/97
8/6/97
8/7/97
8/8/97
8/9/97
8/10/97
PB
State
Gulps?
R
R
R
Events
14
63
SEG # 17
SEG ID 51
OTM-31
14
14
C9MBAPOJOV01-
C9NMCALCOL01-
143 RJ
ATTITUDE UPDATE TURN

C09PGB



ORPROs Loaded: inputs/orpro.c09buh inputs/orpro.c09cga

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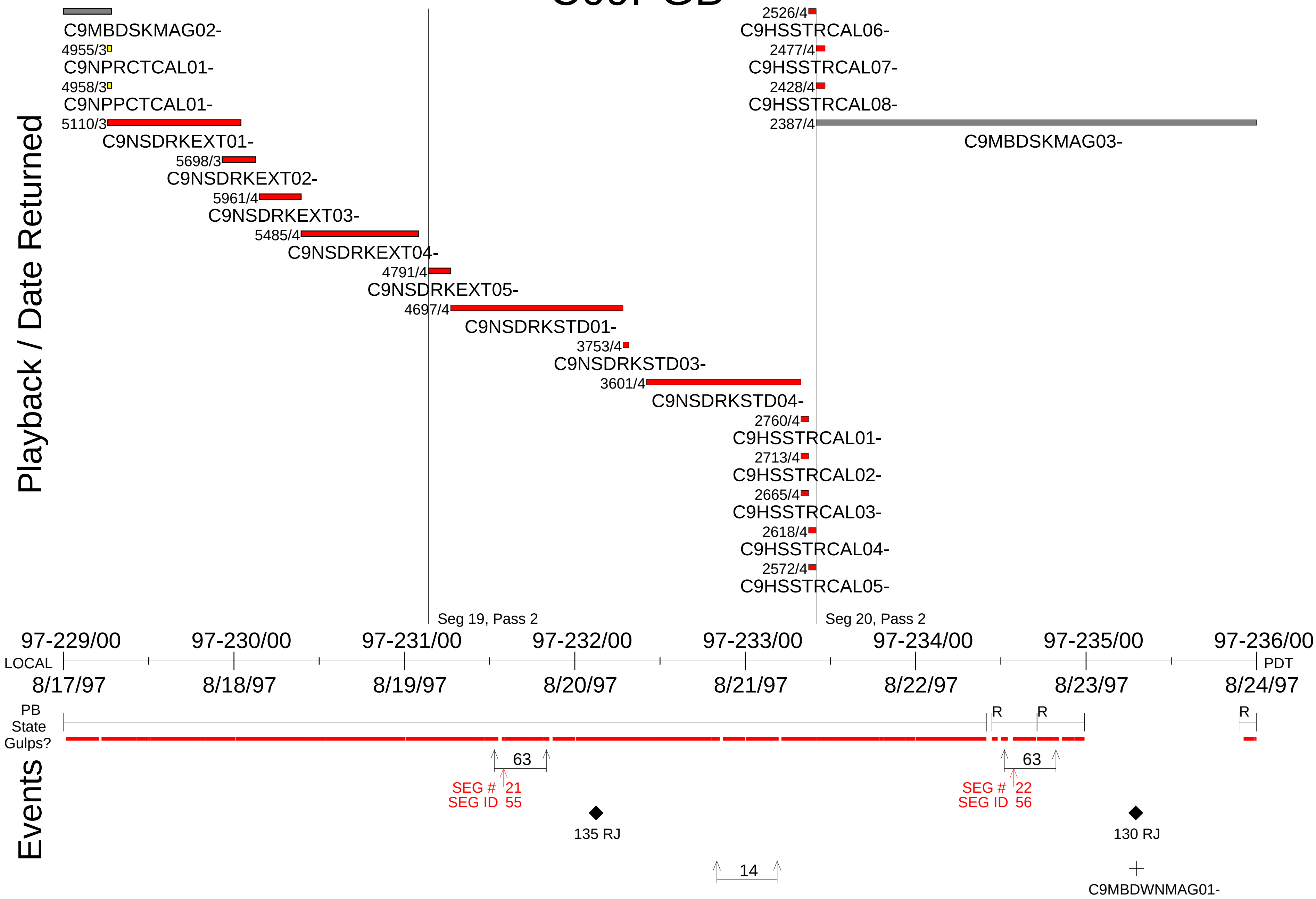
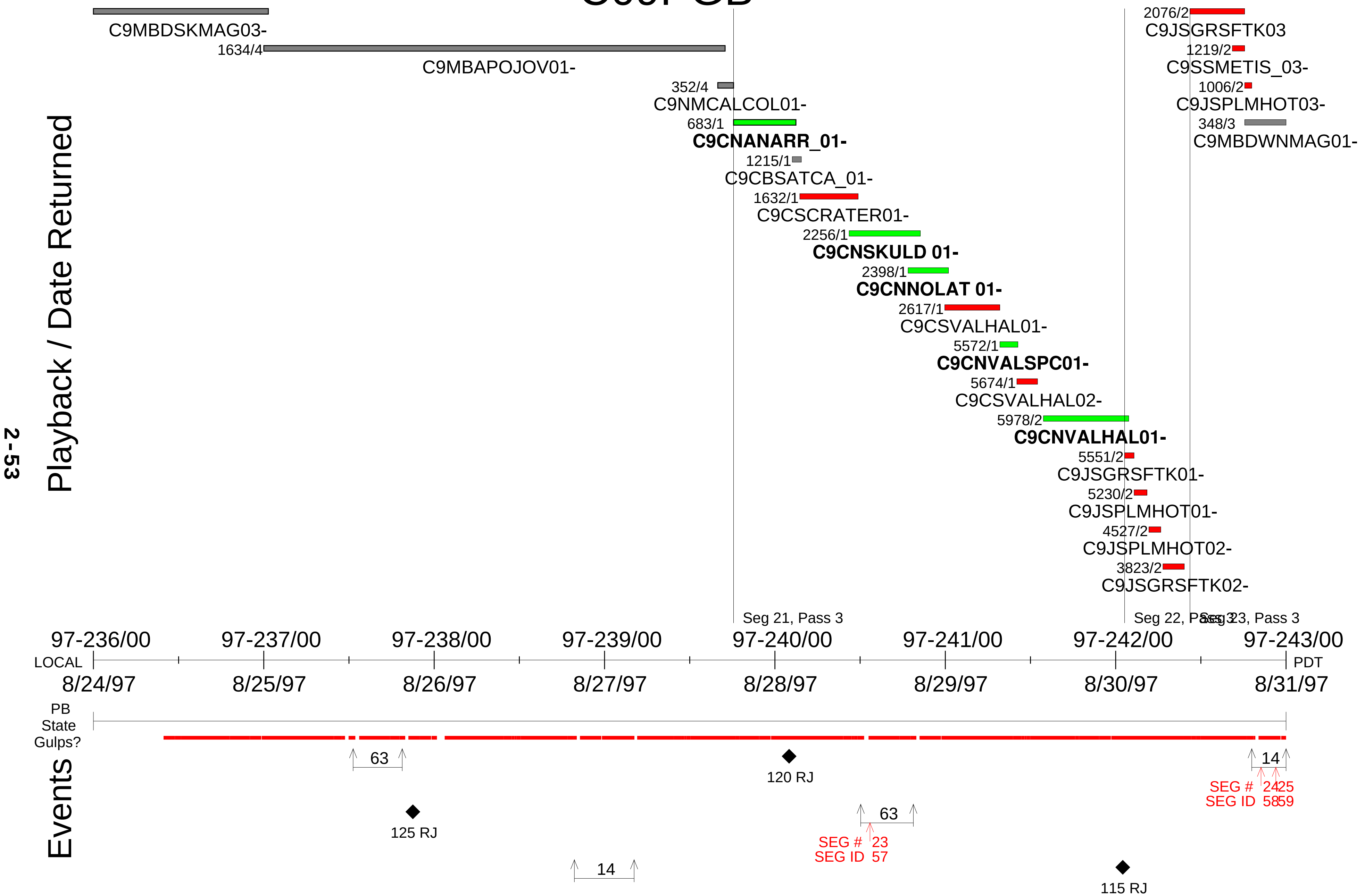
C09PGB



Playback / Date Returned
C9MBDSKMAG02-
4955/3
C9NPRCTCAL01-
4958/3
C9NPPCTCAL01-
5110/3
C9NSDRKEXT01-
5698/3
C9NSDRKEXT02-
5961/4
C9NSDRKEXT03-
5485/4
C9NSDRKEXT04-
4791/4
C9NSDRKEXT05-
4697/4
C9NSDRKSTD01-
3753/4
C9NSDRKSTD03-
3601/4
C9NSDRKSTD04-
2760/4
C9HSSTRCAL01-
2713/4
C9HSSTRCAL02-
2665/4
C9HSSTRCAL03-
2618/4
C9HSSTRCAL04-
2572/4
C9HSSTRCAL05-
2526/4
C9HSSTRCAL06-
2477/4
C9HSSTRCAL07-
2428/4
C9HSSTRCAL08-
2387/4
C9MBDSKMAG03-
Seg 19, Pass 2
Seg 20, Pass 2
97-229/00
97-230/00
97-231/00
97-232/00
97-233/00
97-234/00
97-235/00
97-236/00
LOCAL
PDT
8/17/97
8/18/97
8/19/97
8/20/97
8/21/97
8/22/97
8/23/97
8/24/97
PB State
Gulps?
R
R
R
Events
63
SEG # 21
SEG ID 55
63
SEG # 22
SEG ID 56
135 RJ
130 RJ
14
C9MBDWNMAG01-

C09PGB



ORPROs Loaded: inputs/orpro.c09buh inputs/orpro.c09cga

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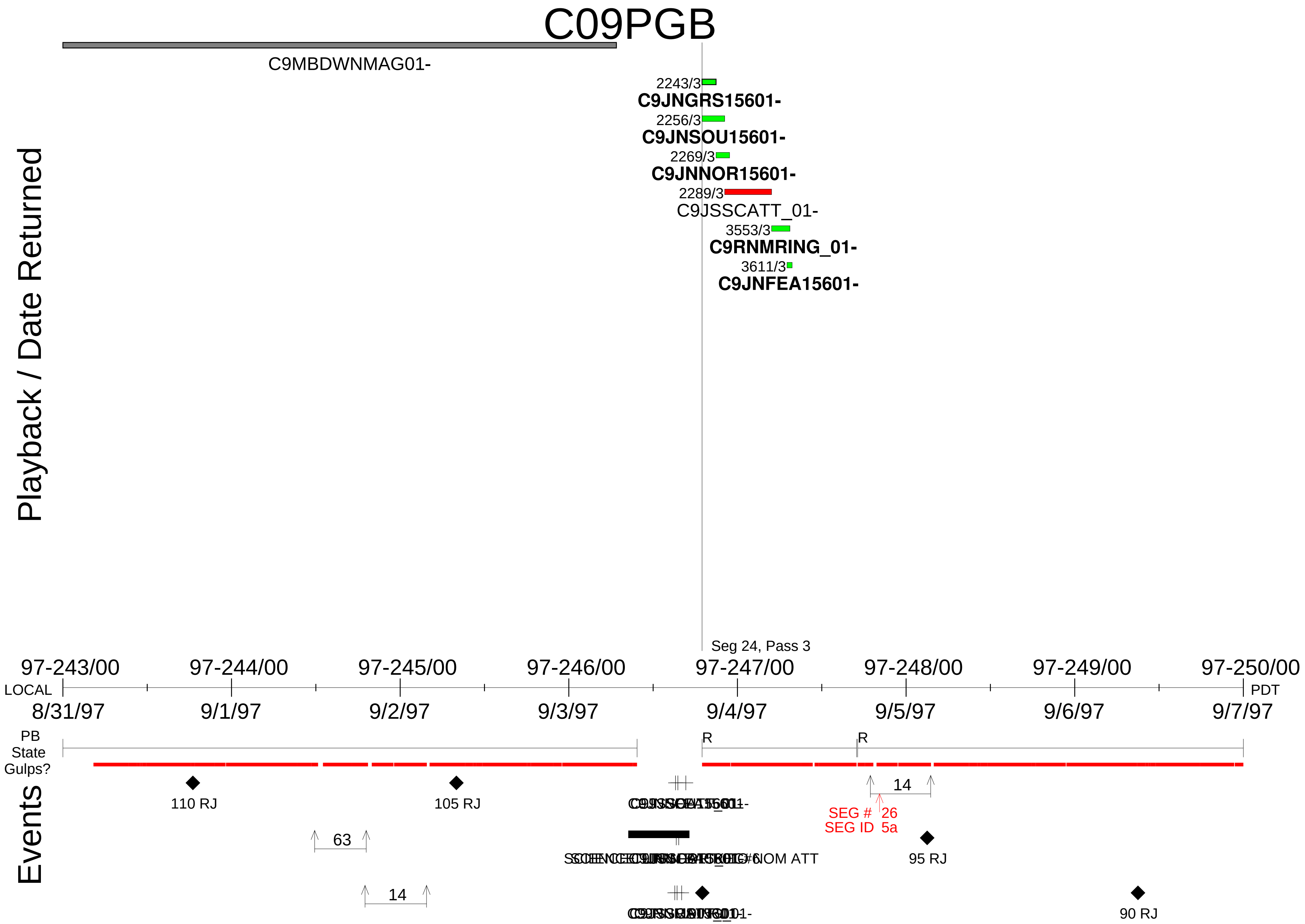
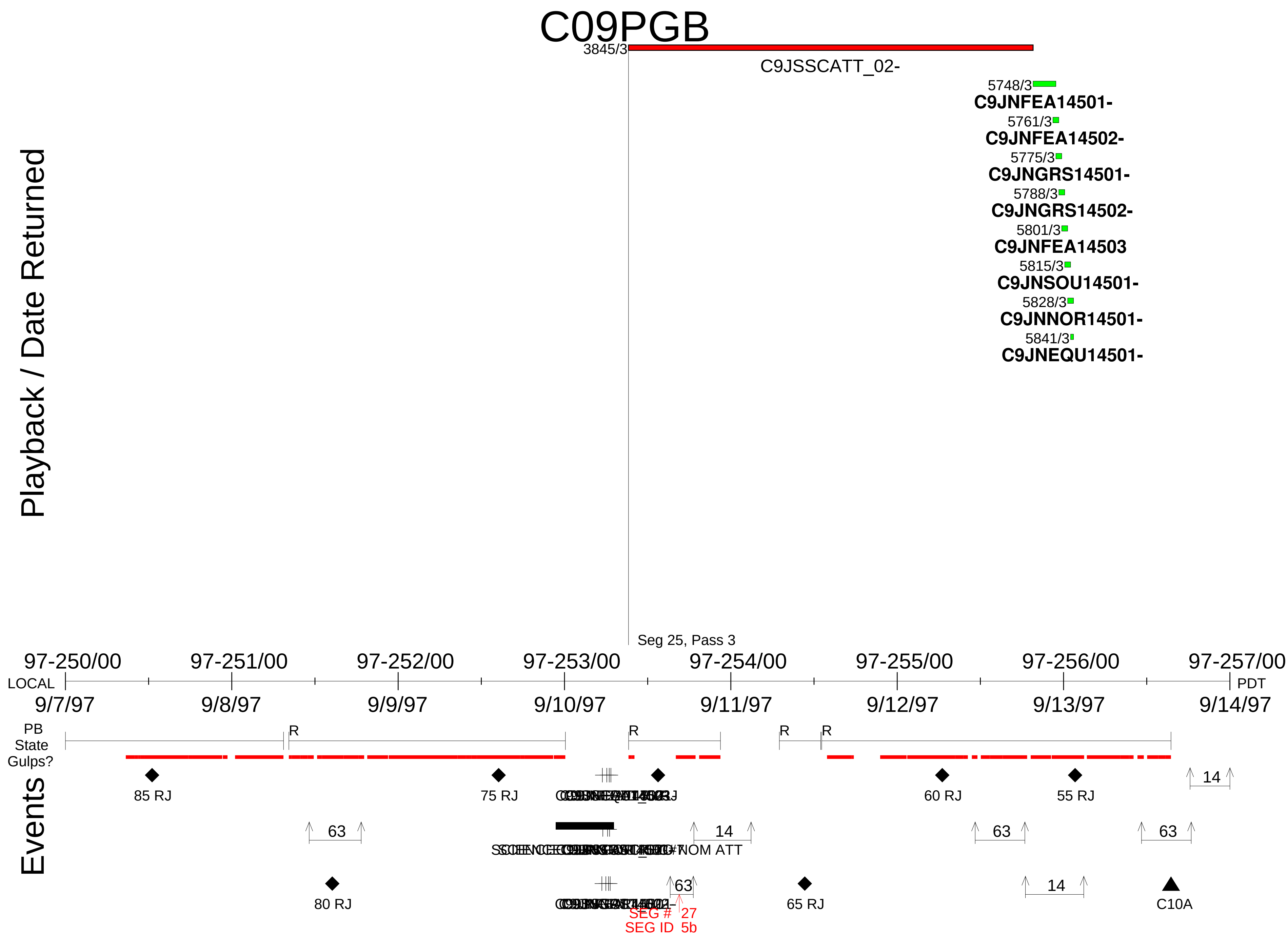


C09PGB
C9MBDWNMAG01-
2243/3
C9JNGRS15601-
2256/3
C9JNSOU15601-
2269/3
C9JNNOR15601-
2289/3
C9JSSCATT_01-
3553/3
C9RNMRING_01-
3611/3
C9JNFEA15601-
Playback / Date Returned
Seg 24, Pass 3
97-243/00
97-244/00
97-245/00
97-246/00
97-247/00
97-248/00
97-249/00
97-250/00
LOCAL
PDT
8/31/97
9/1/97
9/2/97
9/3/97
9/4/97
9/5/97
9/6/97
9/7/97
PB
State
Gulps?
R
R
Events
110 RJ
105 RJ
14
SEG # 26
SEG ID 5a
63
95 RJ
14
90 RJ



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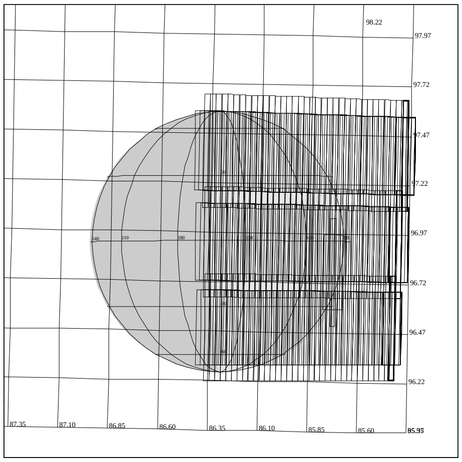
C9 NIMS A



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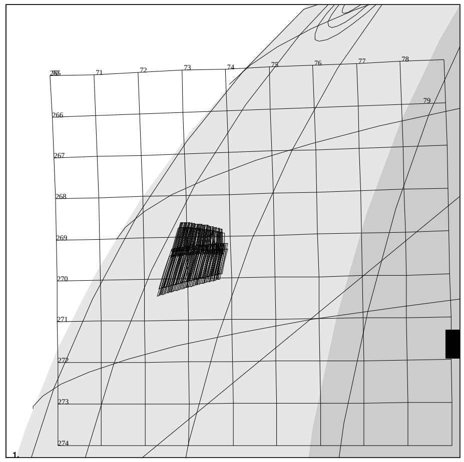
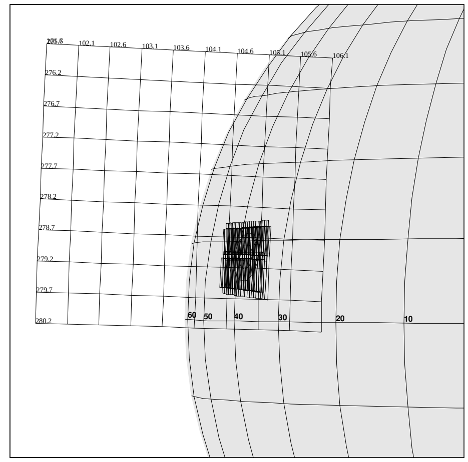
97-176/06:23:14



C9CNANARR_01
97-176/13:55:12



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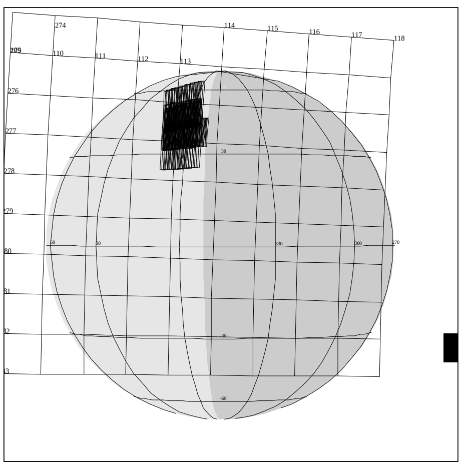
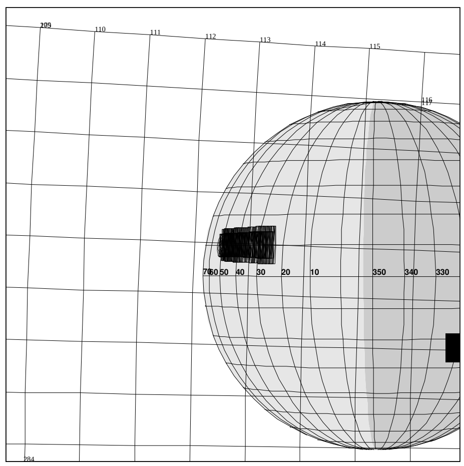
97-176/14:25:32



C9CNNOLAT_01
97-176/14:56:52



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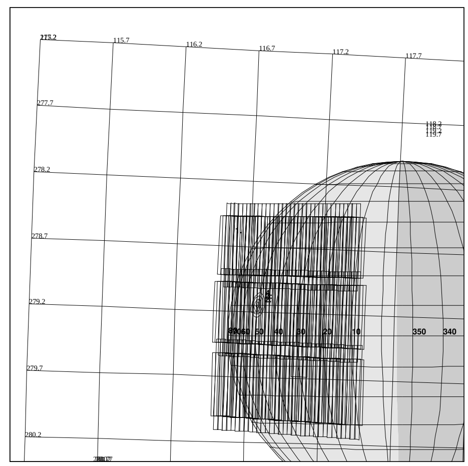
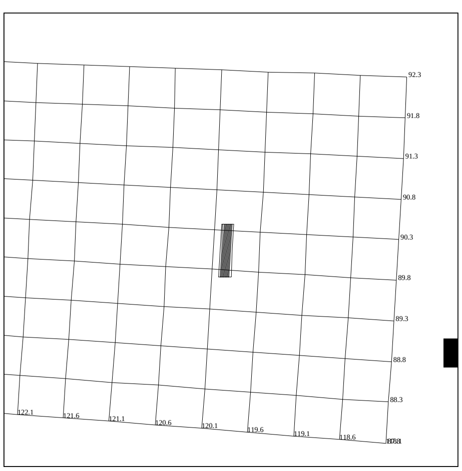
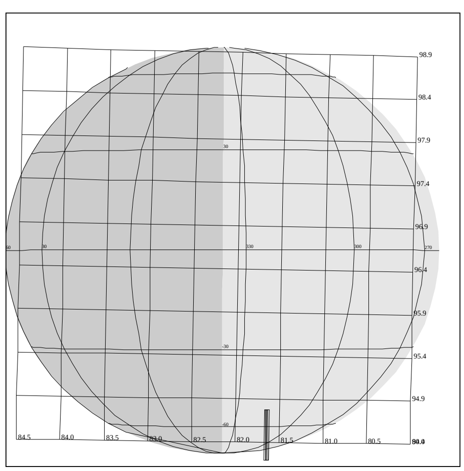
97-176/15:15:04



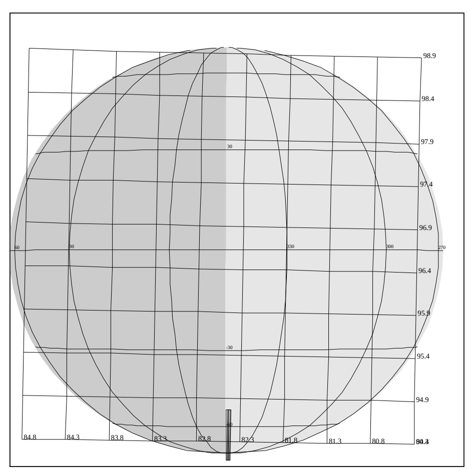
C9CNVALHAL01
97-176/17:47:45



C9HNDARK__01
97-176/18:21:07

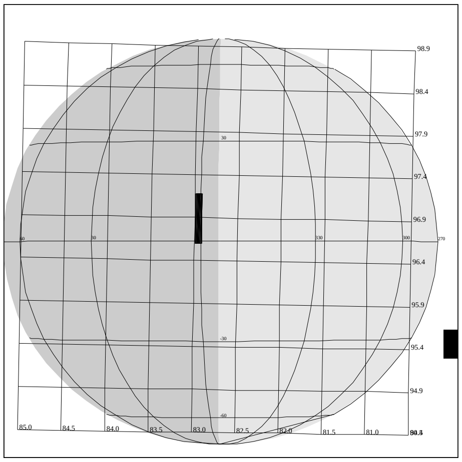


C9JNSRTAUR01
97-176/21:33:14

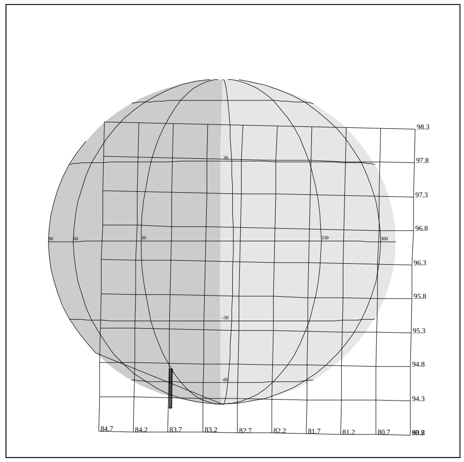


C9JNSRTAUR02
97-176/21:49:24

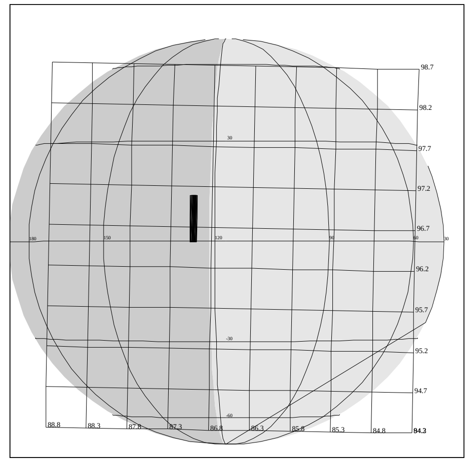
C9 NIMS B



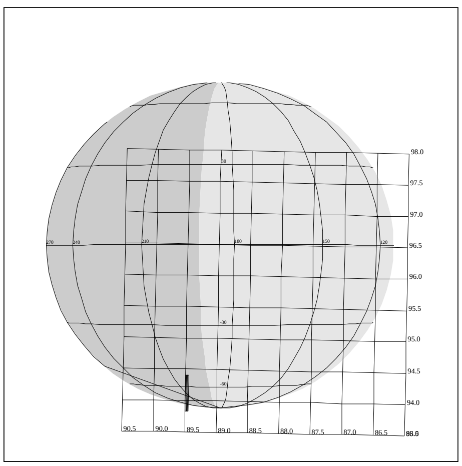
C9JNRTHOTS01
97-176/22:05:35



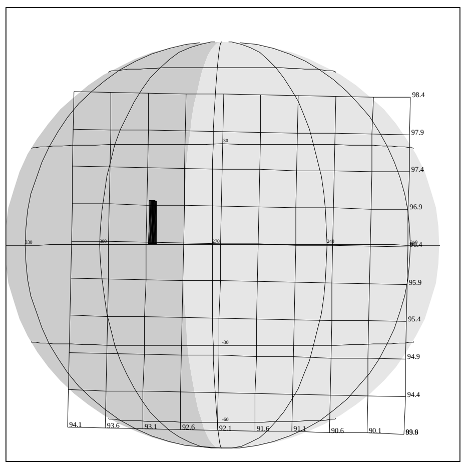
C9JNSRTAUR03
97-176/22:19:44



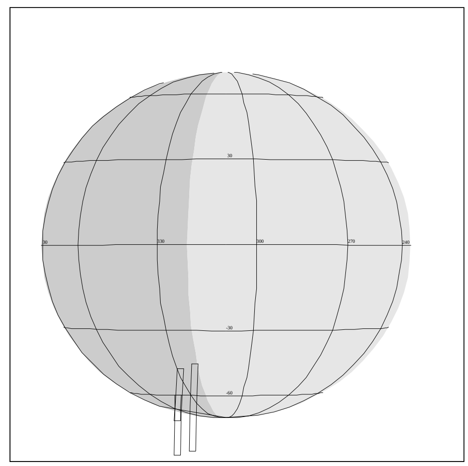
C9JNRTHOTS02
97-177/01:35:54



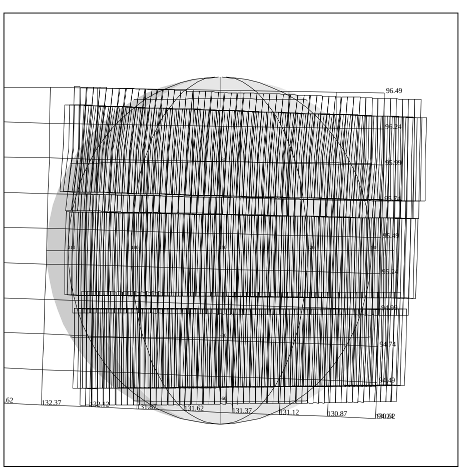
C9JNSRTAUR06
97-177/03:29:08



C9JNRTHOTS03
97-177/05:52:43



C9JNAURMAP01
97-177/07:33:50



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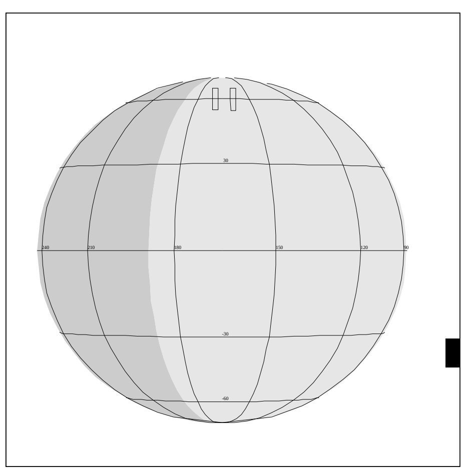
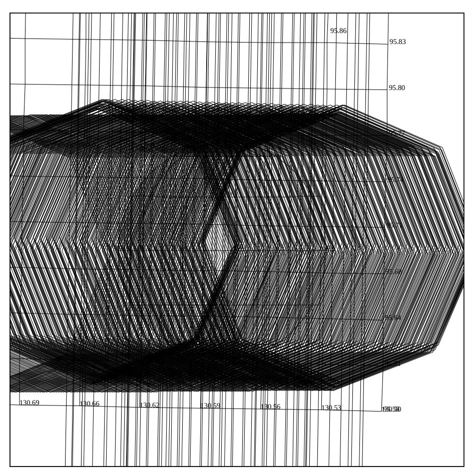
97-177/11:48:38



C9JNAURMAP02
97-177/13:20:38



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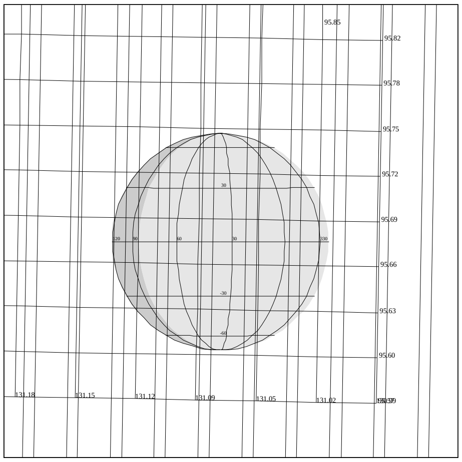
97-177/15:57:22



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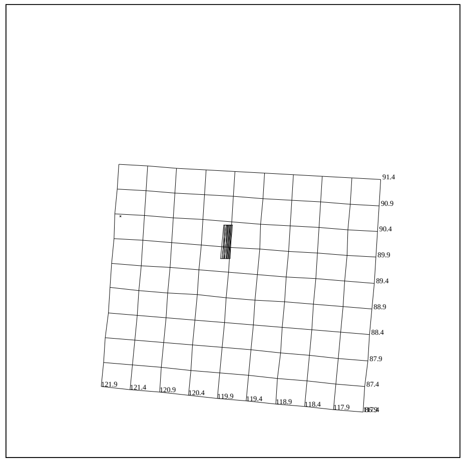

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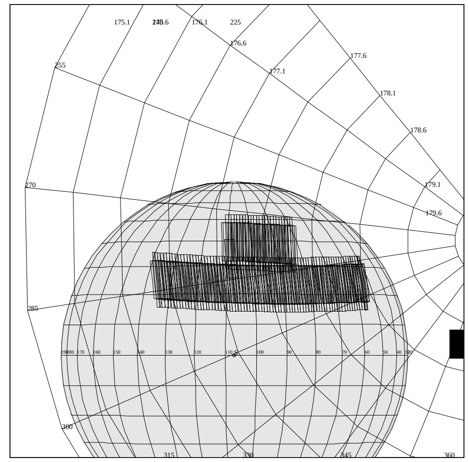

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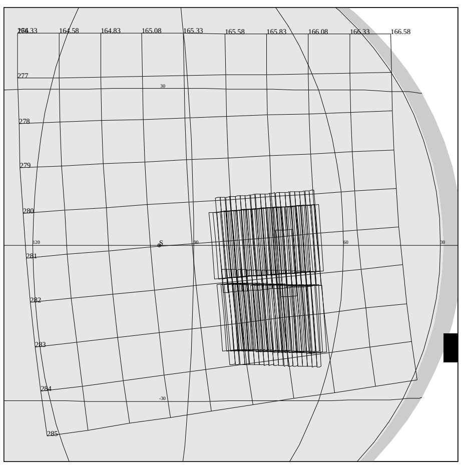

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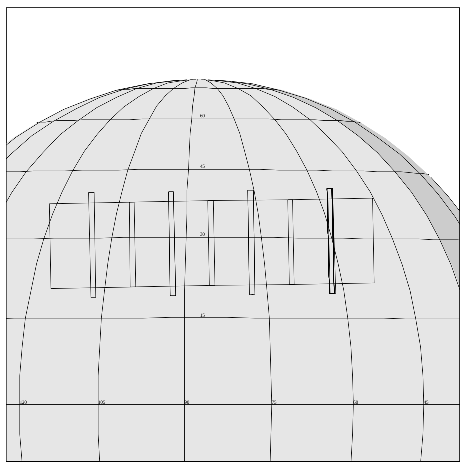

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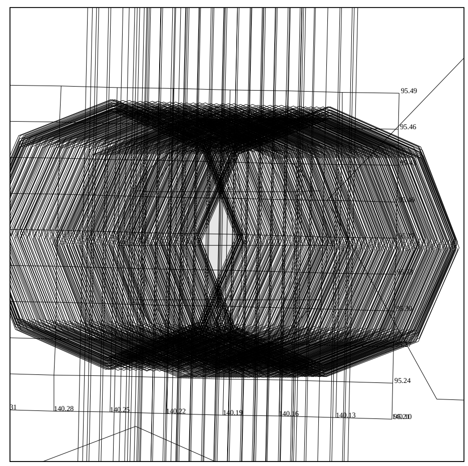

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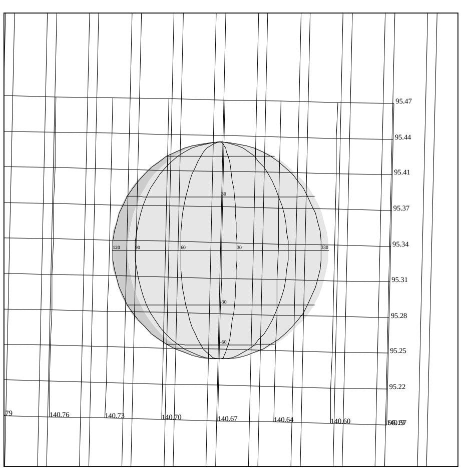

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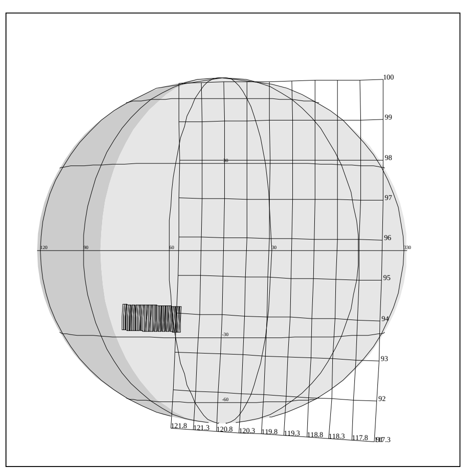

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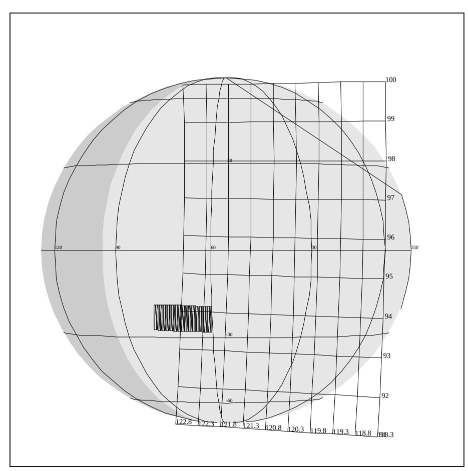

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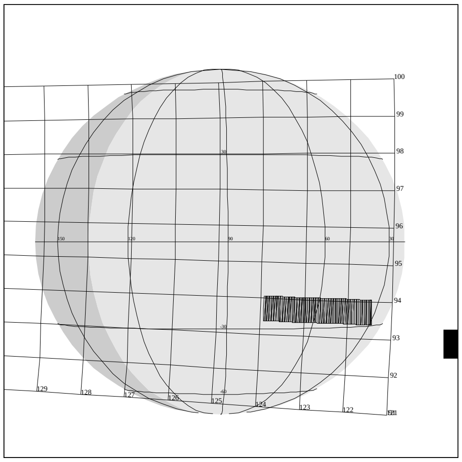
C9 NIMS D



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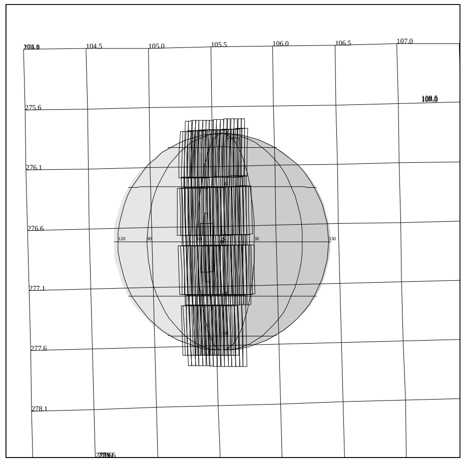

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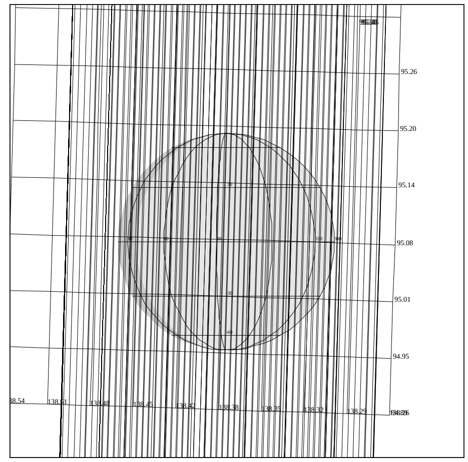

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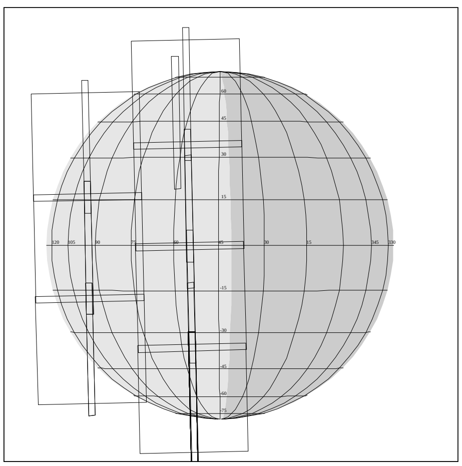

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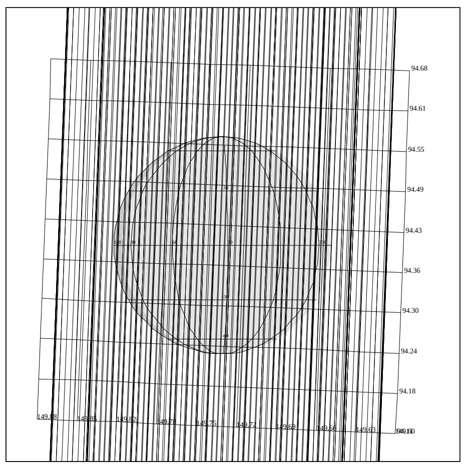

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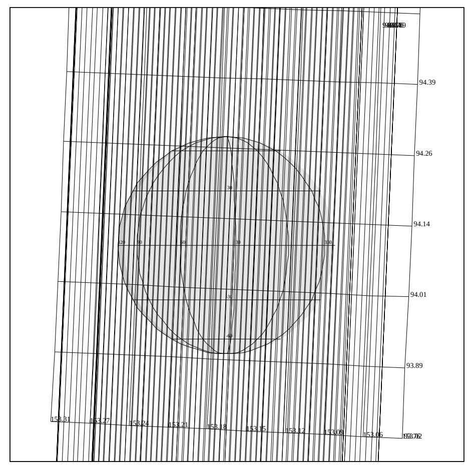

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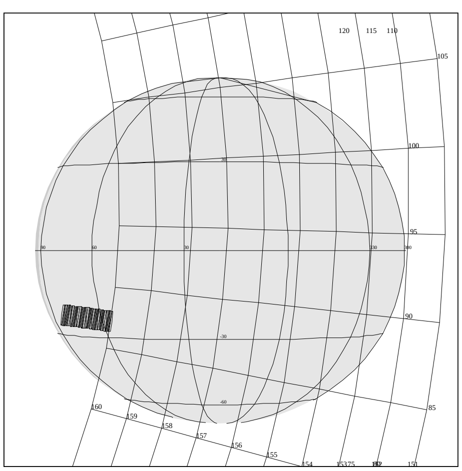

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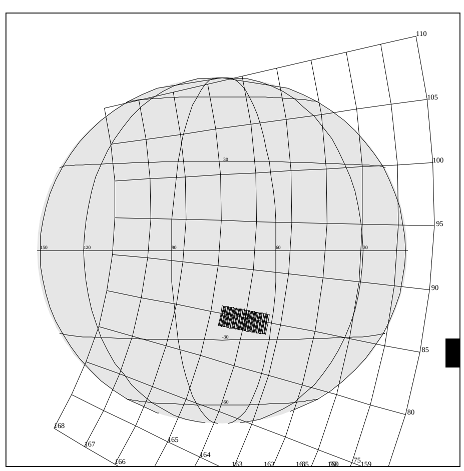

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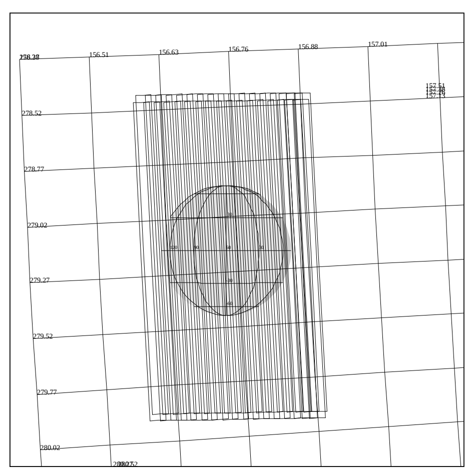

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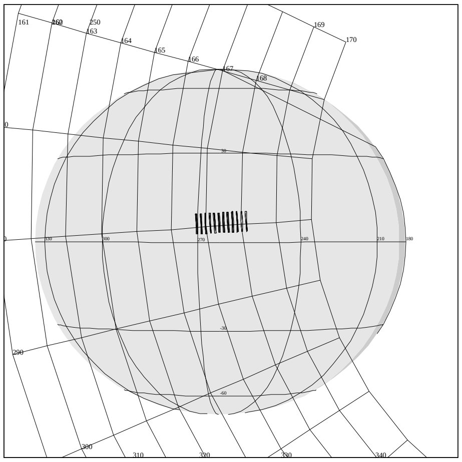
C9 NIMS E



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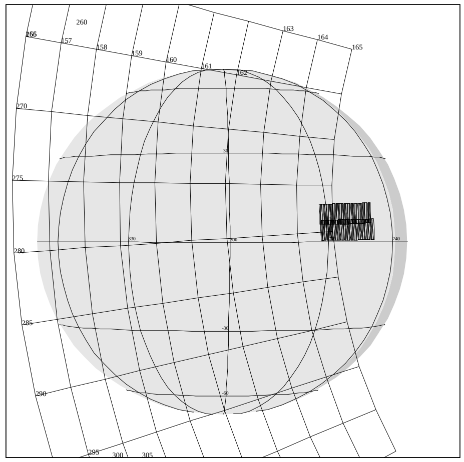

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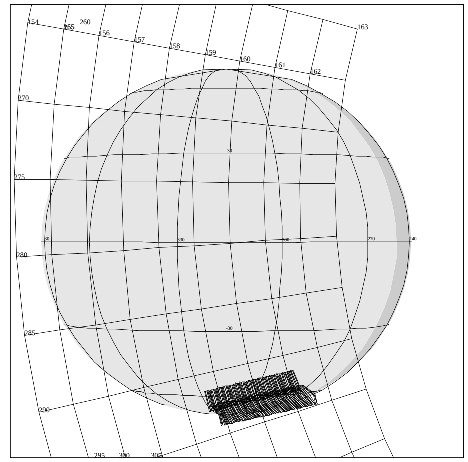

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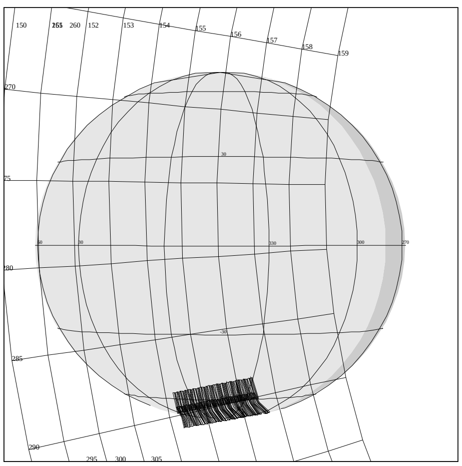

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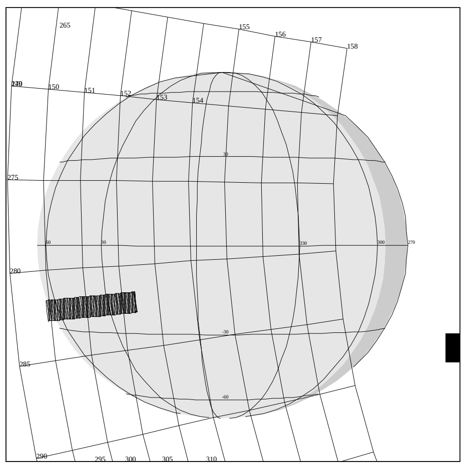

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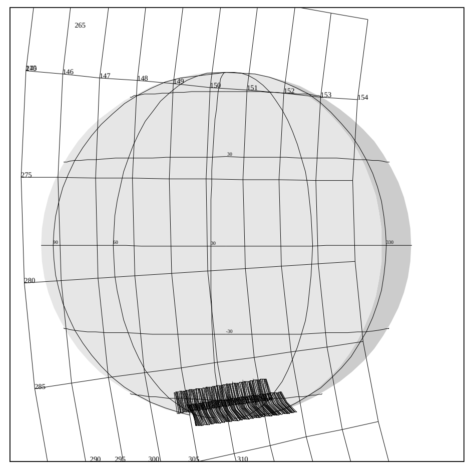

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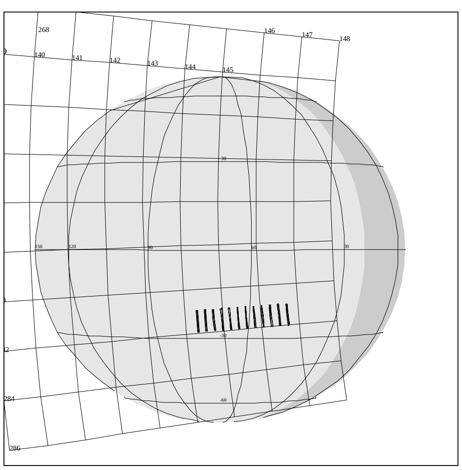

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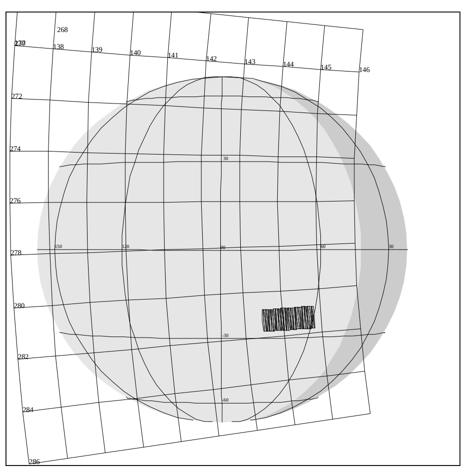

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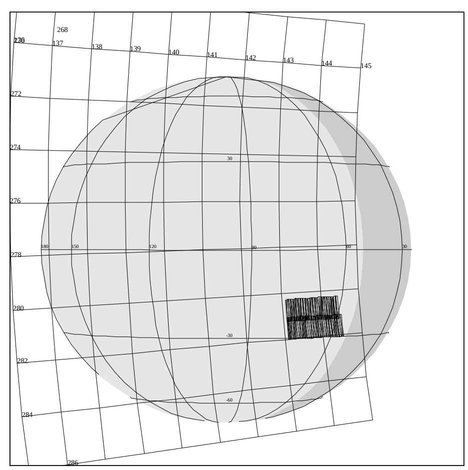

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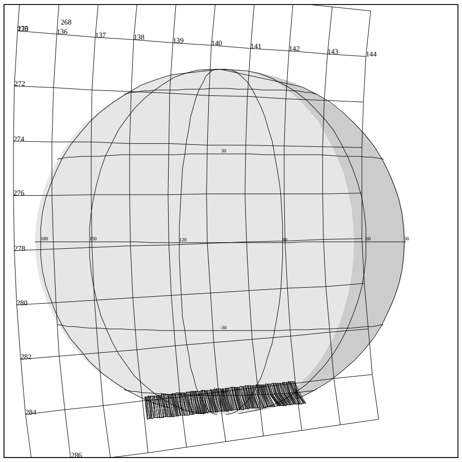
C9 NIMS F



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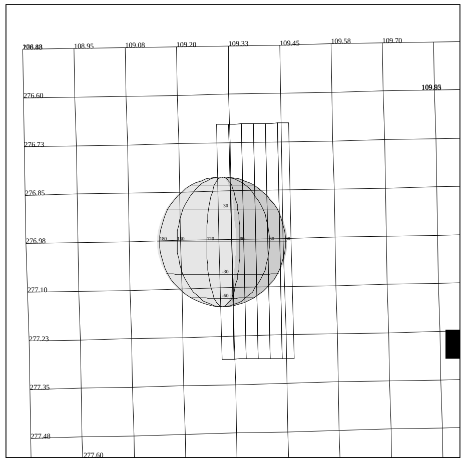

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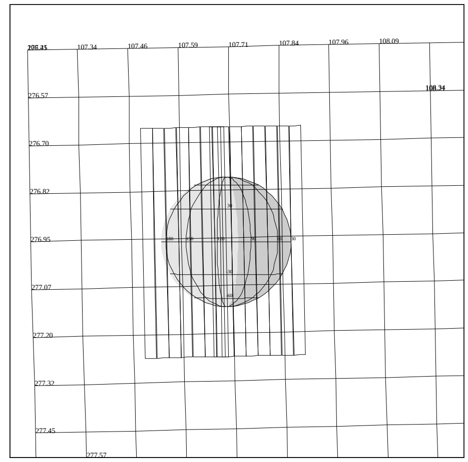

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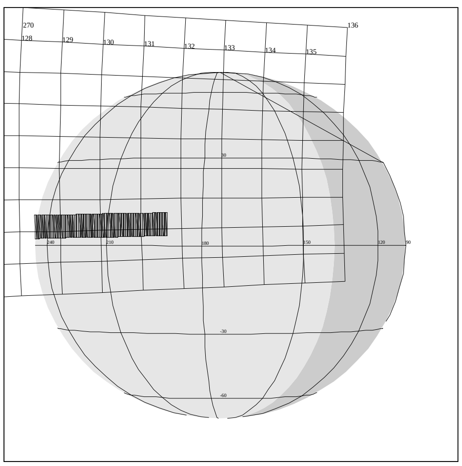

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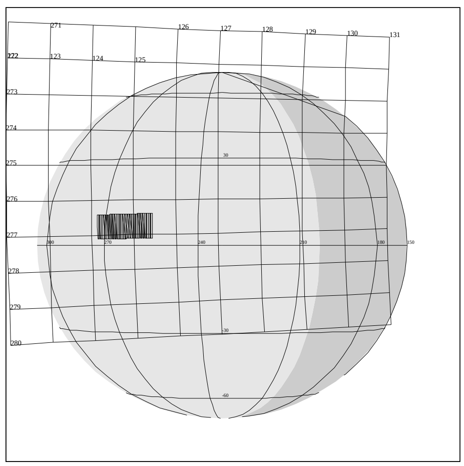

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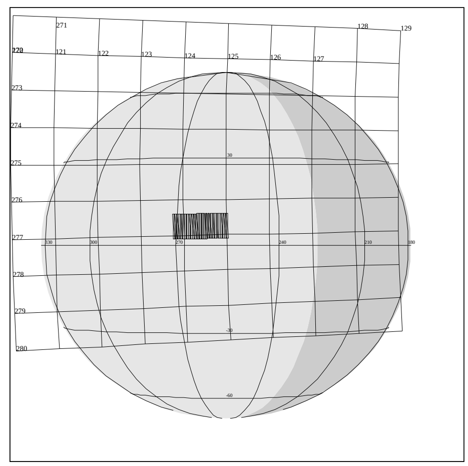

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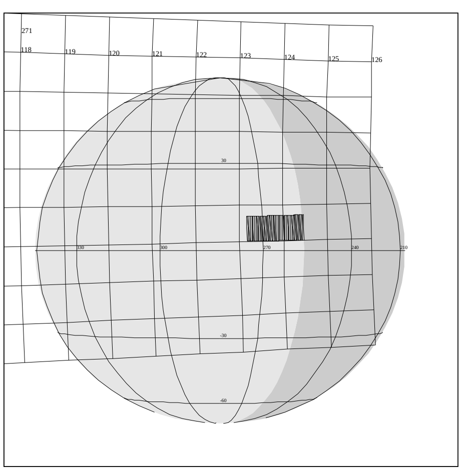

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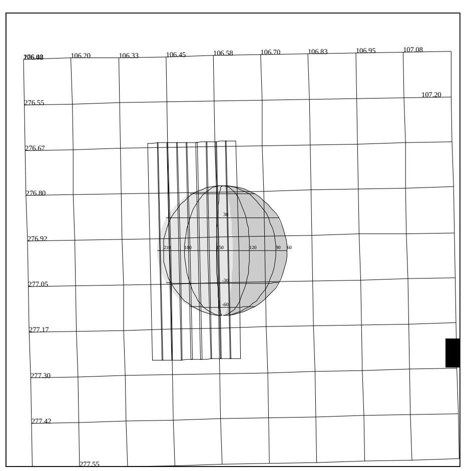

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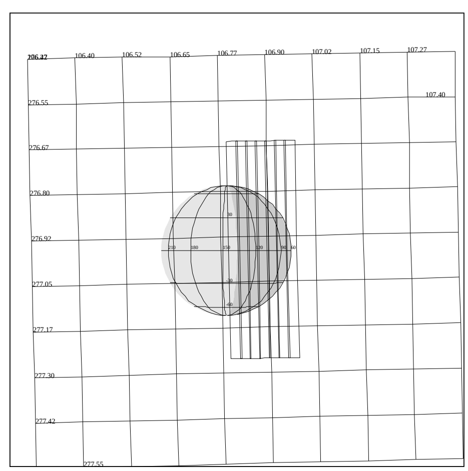

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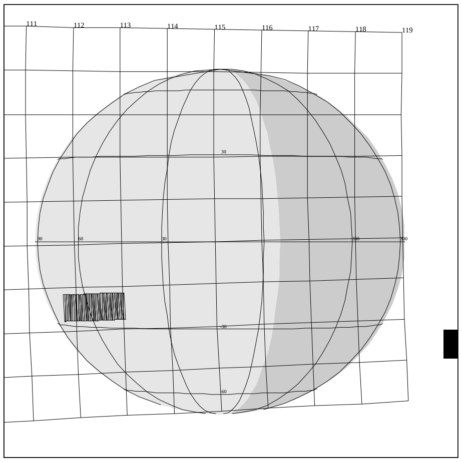

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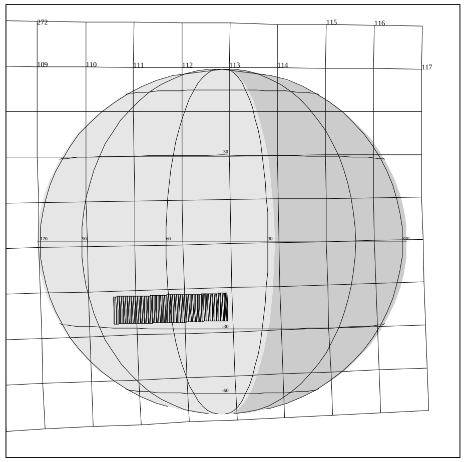

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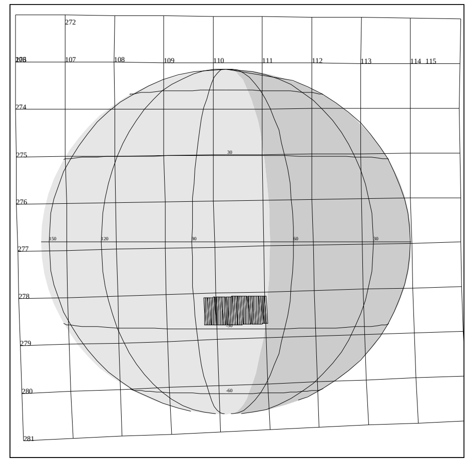

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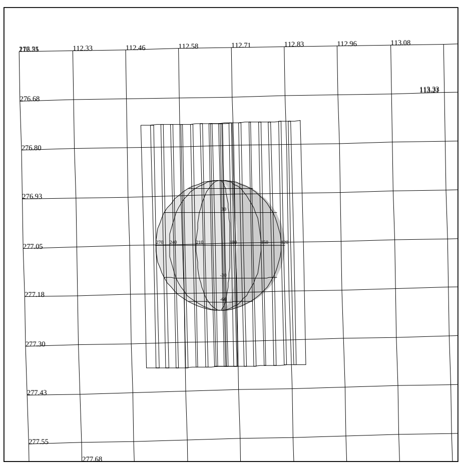

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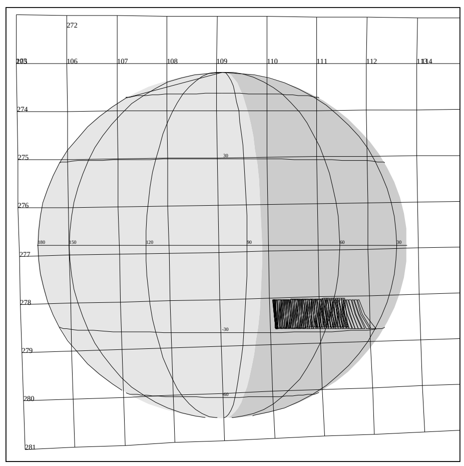

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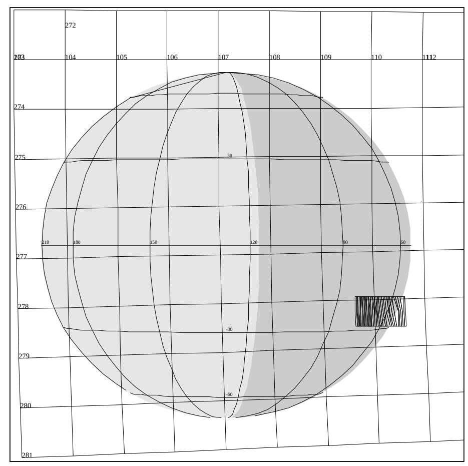

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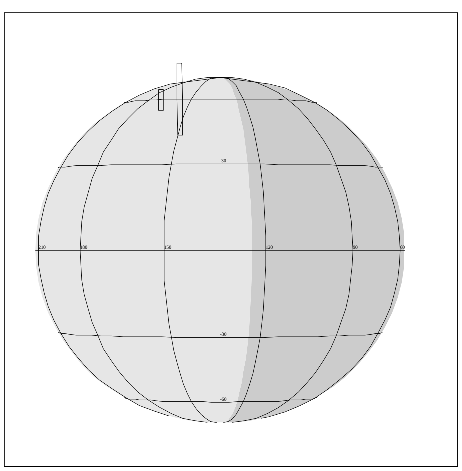

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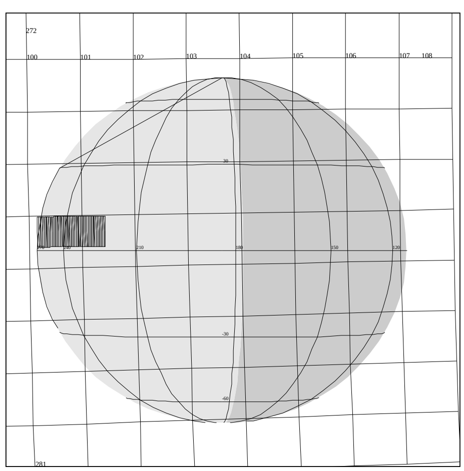

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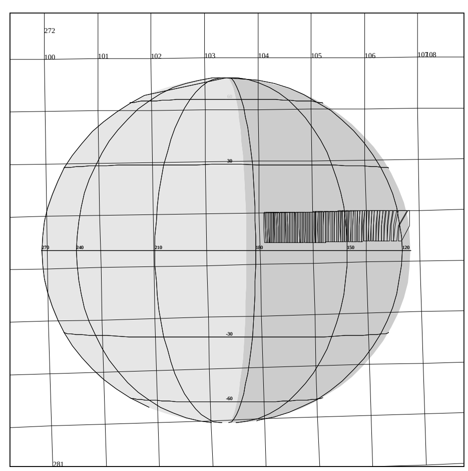

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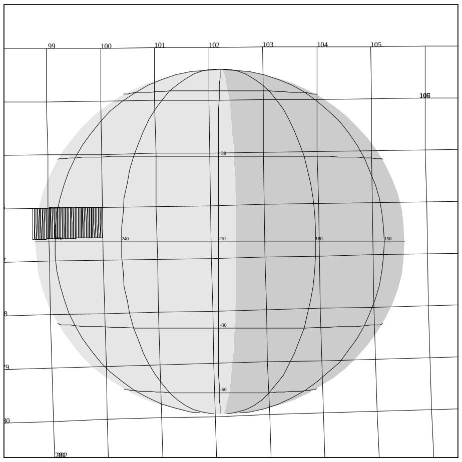
C9 NIMS H



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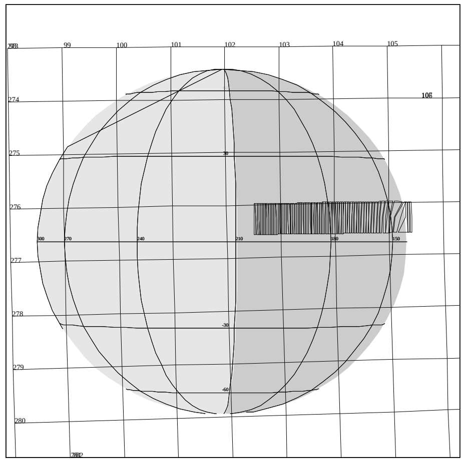

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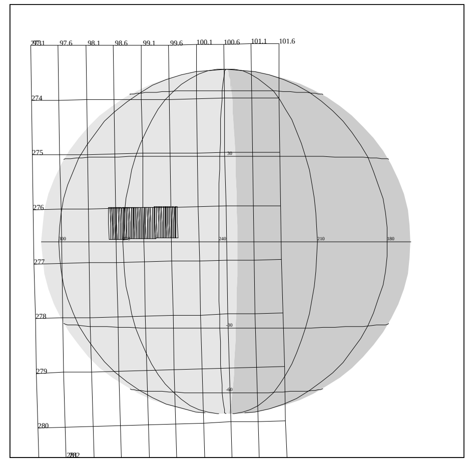

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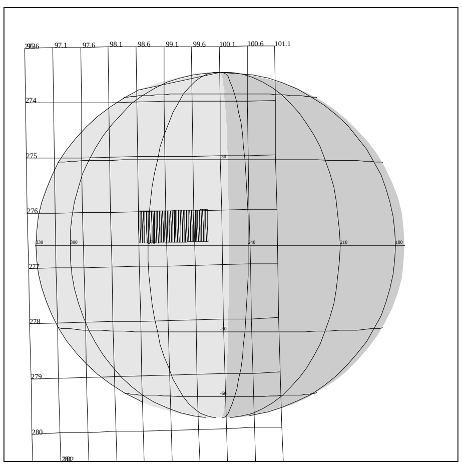

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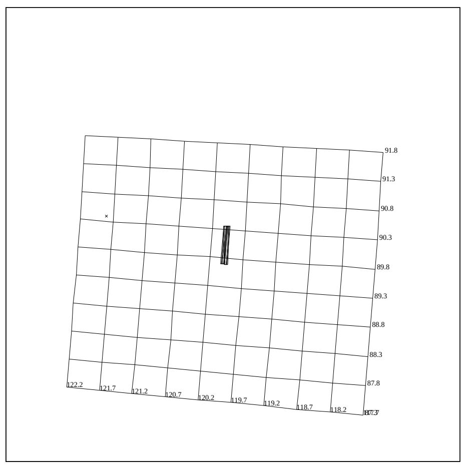

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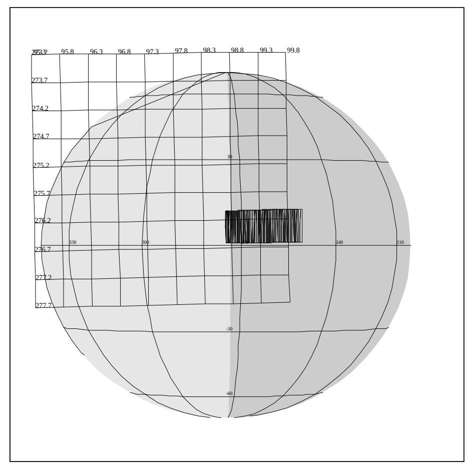

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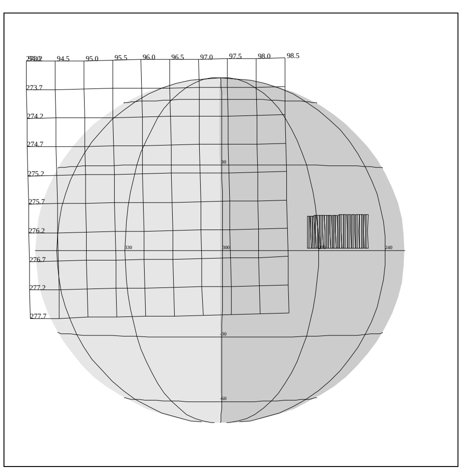

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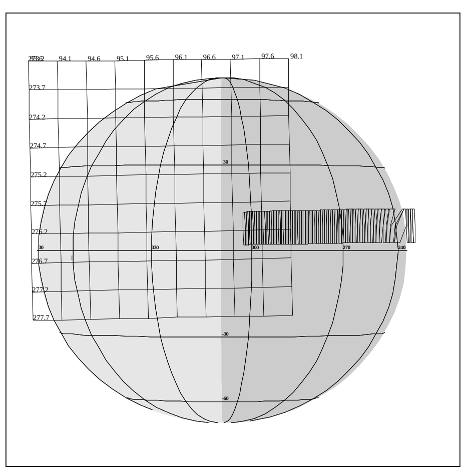

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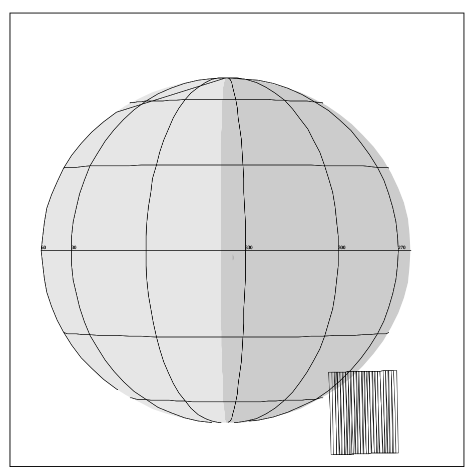

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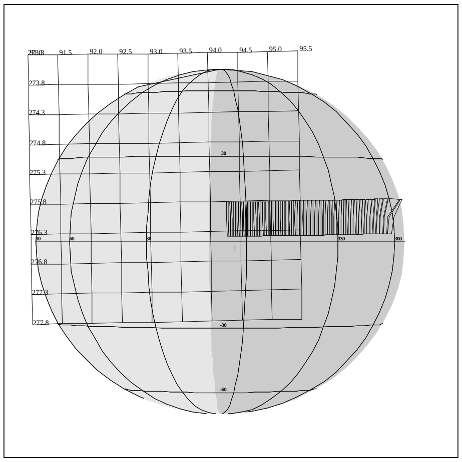

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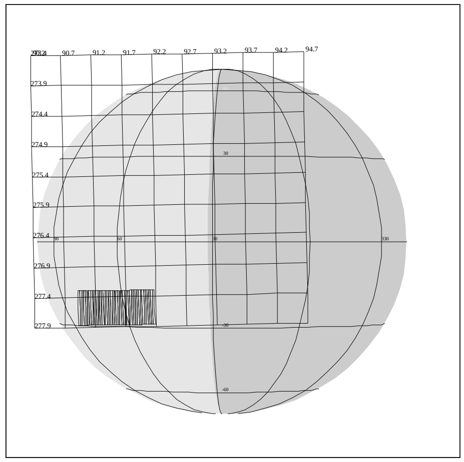

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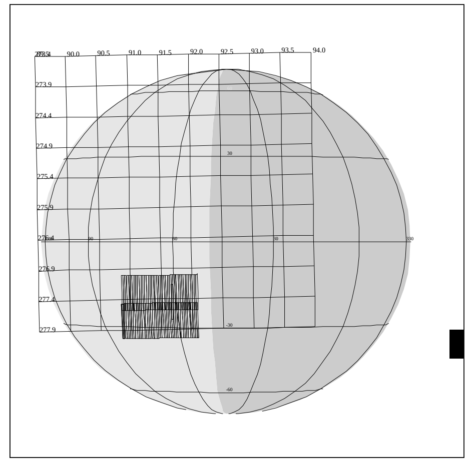

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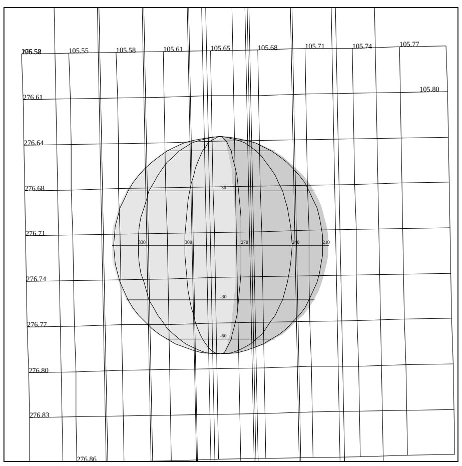

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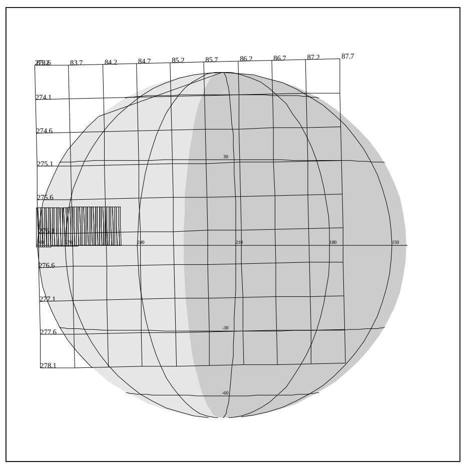

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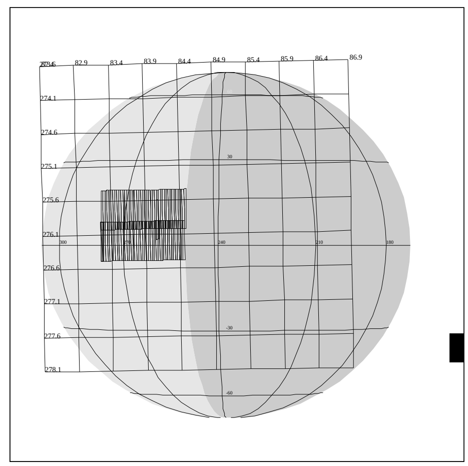

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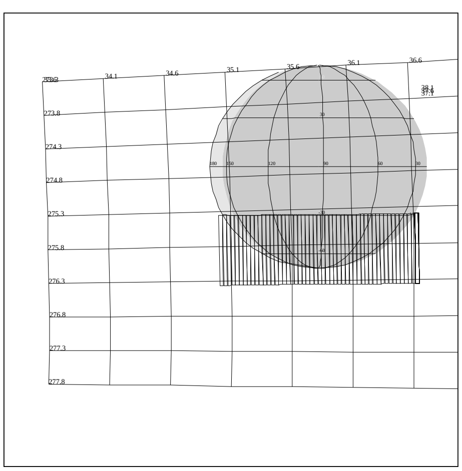

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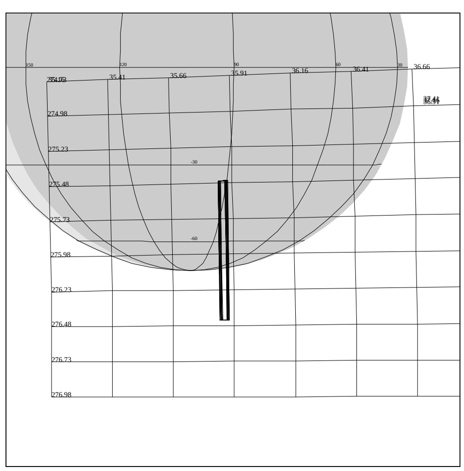

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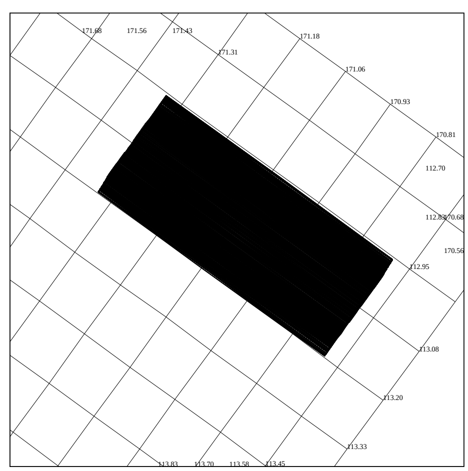

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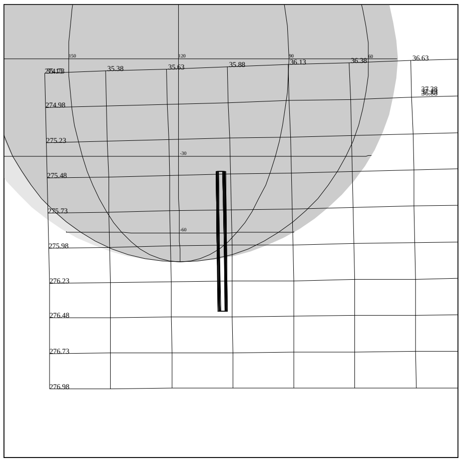

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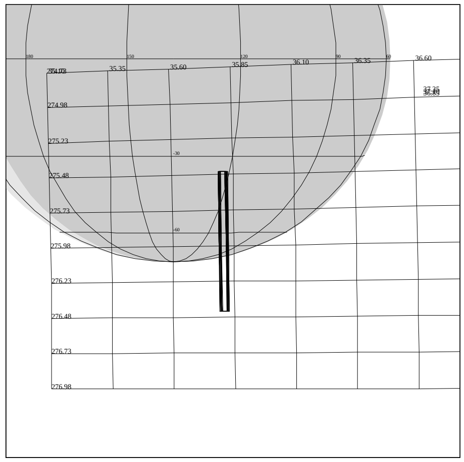

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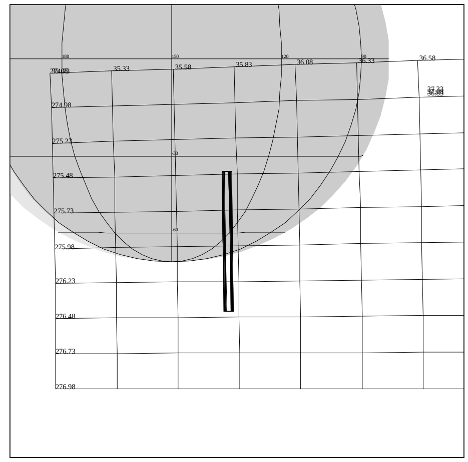

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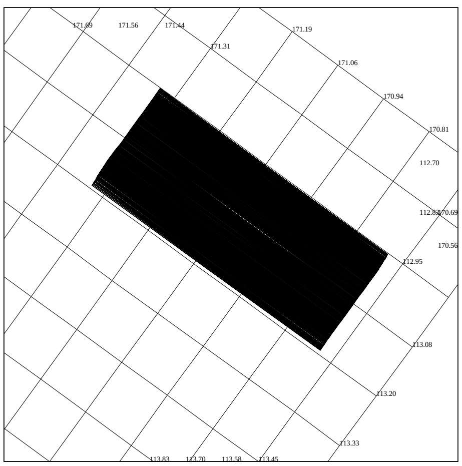

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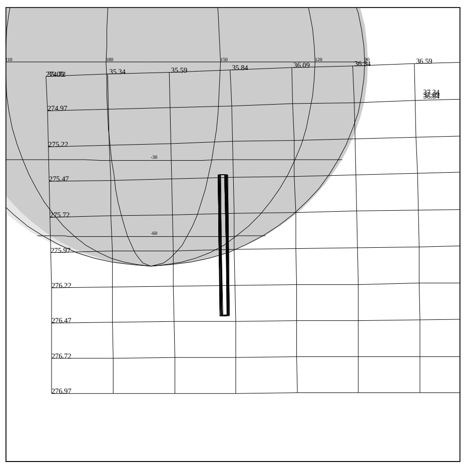

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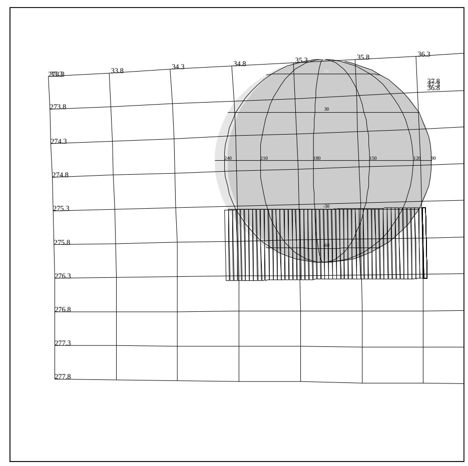

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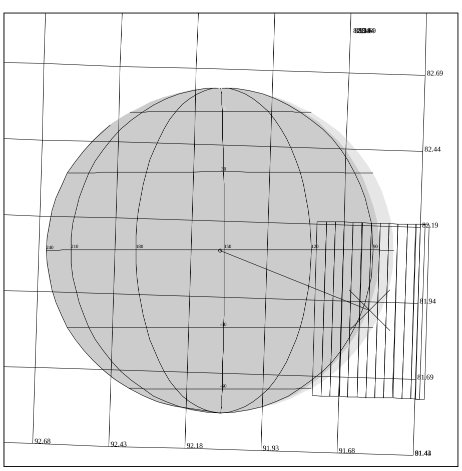

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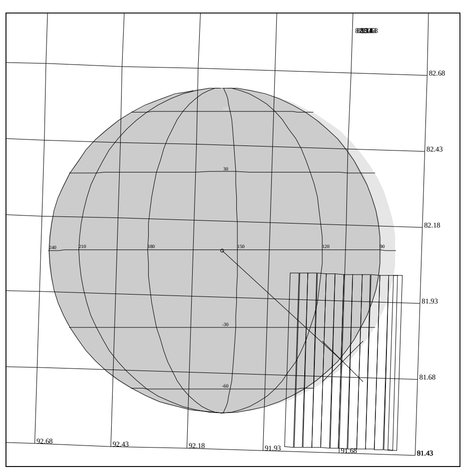

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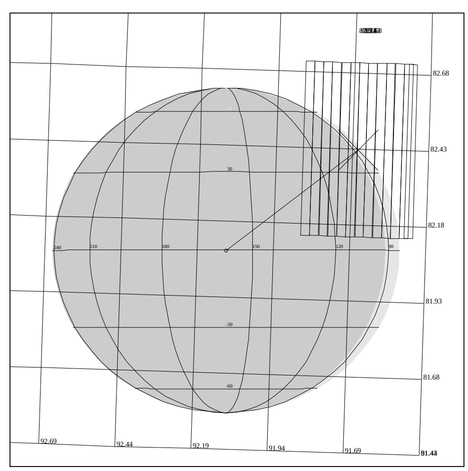

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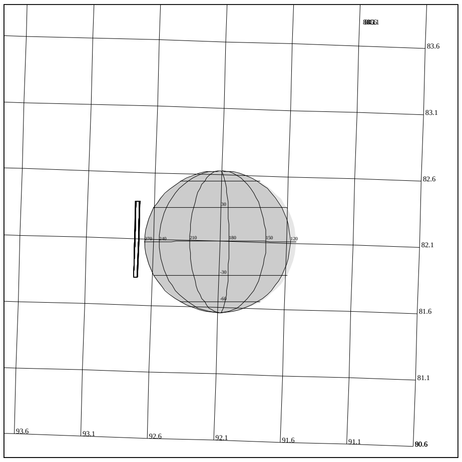

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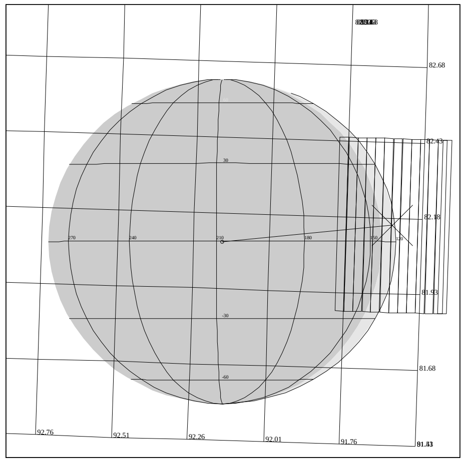

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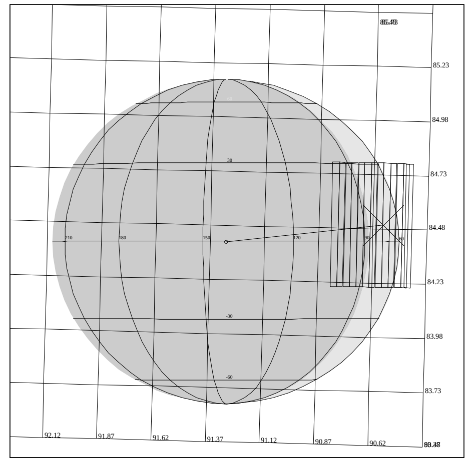

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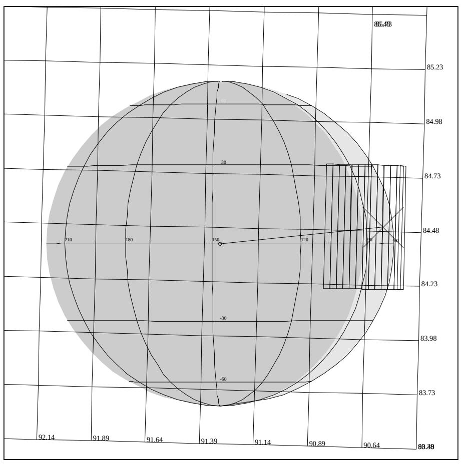

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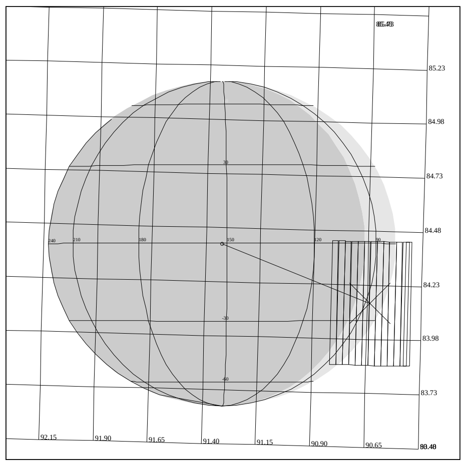

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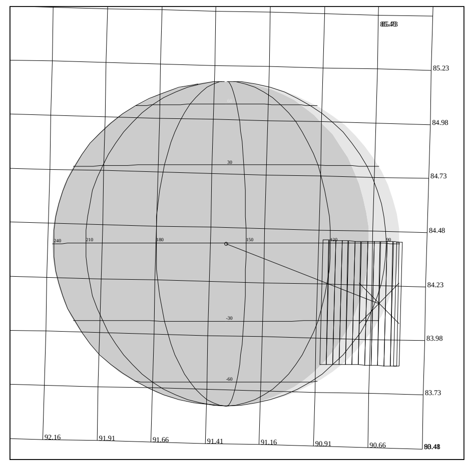

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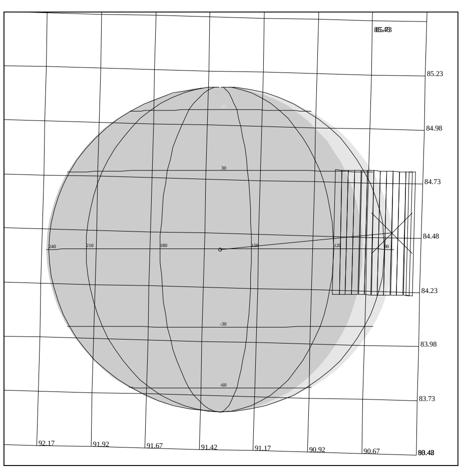

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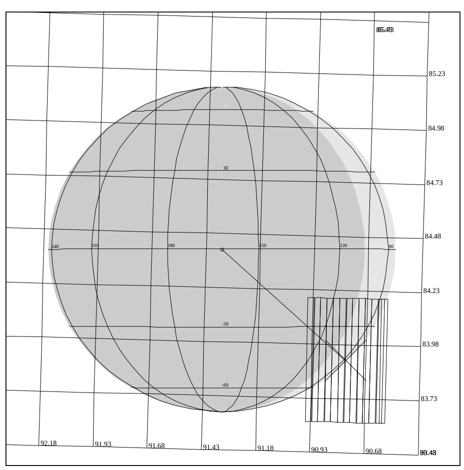

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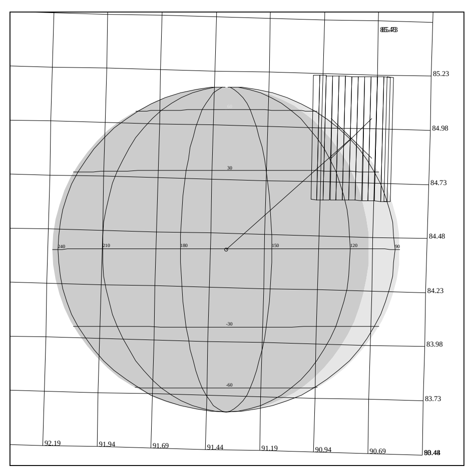

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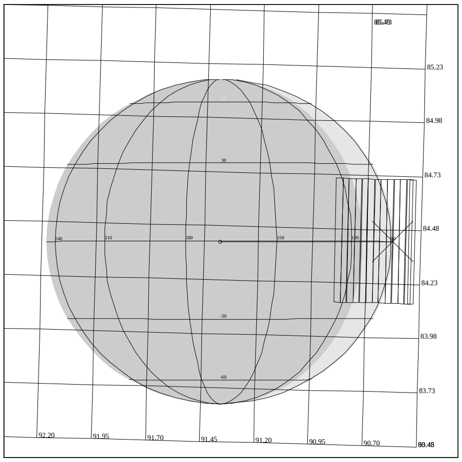

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