


# Data from the ULYSSES FINAL ARCHIVE

Open



ulysses\_daily\_heliocentric\_data\_1990-2009.txt

~/PUI-Fun/Ulysses/Trajectory/trajectory\_data

lat: Sun Mean Equator and Equinox of 1950

RA and DEC: Earth Mean Orbit and Equinox of 1950

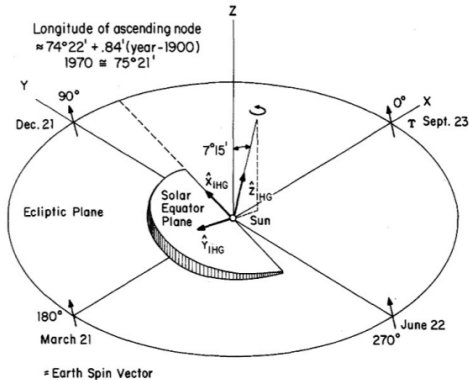
long: long of Ulysses wrt Earth in Sun Mean Equator and Equinox of 1950

YYYY	MM	DD	YYYY	DOY	JD	HH	MM	SS	ESP	SPE	SEP	R	R	dR	V	lat	RA	DEC	long
[UTC]									[deg]	[deg]	[deg]	[AU]	[km]	[km/s]	[km/s]	[deg]	[deg]	[deg]	[deg]
1990	10	07	1990	280	2448171.5	00	00	00	0.08	97.86	82.06	0.999	149497071.034	-2.512	41.092	6.35	12.98	0.01	0.08
1990	10	08	1990	281	2448172.5	00	00	00	0.45	98.57	80.97	0.998	149301115.851	-2.035	40.987	6.32	14.34	0.06	0.46
1990	10	09	1990	282	2448173.5	00	00	00	0.83	97.43	81.74	0.997	149145073.980	-1.577	40.996	6.28	15.70	0.10	0.83
1990	10	10	1990	283	2448174.5	00	00	00	1.20	96.17	82.63	0.996	149028578.950	-1.119	41.008	6.24	17.06	0.15	1.21
1990	10	11	1990	284	2448175.5	00	00	00	1.58	94.86	83.56	0.996	148951687.780	-0.661	41.017	6.20	18.42	0.20	1.59
1990	10	12	1990	285	2448176.5	00	00	00	1.96	93.54	84.50	0.995	148914448.678	-0.201	41.020	6.15	19.78	0.24	1.96
1990	10	13	1990	286	2448177.5	00	00	00	2.33	92.21	85.46	0.995	148916887.222	0.258	41.019	6.10	21.14	0.29	2.34
1990	10	14	1990	287	2448178.5	00	00	00	2.71	90.88	86.42	0.996	148958991.852	0.717	41.012	6.05	22.51	0.34	2.72
1990	10	15																	
1990	10	16																	
1990	10	17																	
1990	10	18																	
1990	10	19																	
1990	10	20																	
1990	10	21																	
1990	10	22																	
1990	10	23																	
1990	10	24	1990	296	00 00 00				5.93	78.96	95.11	1.0100	5.42	-999.		0.75	-999.		
1990	10	25	1990	297	00 00 00				6.25	77.64	96.11	1.0127	5.34	-999.		0.79	-999.		
1990	10	26	1990	298	00 00 00				6.58	76.31	97.11	1.0154	5.25	-999.		0.83	-999.		
1990	10	27	1990	299	00 00 00				6.89	74.99	98.12	1.0187	5.16	-999.		0.87	-999.		
1990	10	28	1990	300	00 00 00				7.19	73.67	99.14	1.0227	5.07	-999.		0.91	-999.		
1990	10	29	1990	301	00 00 00				7.48	72.35	100.20	1.0261	4.98	-999.		0.95	-999.		
1990	10	30	1990	302	00 00 00				7.76	71.03	101.20	1.0301	4.89	-999.		0.99	-999.		
1990	10	31	1990	303	00 00 00				8.04	69.72	102.20	1.0348	4.79	-999.		1.03	-999.		
1990	11	01	1990	304	00 00 00				8.30	68.41	103.30	1.0394	4.69	-999.		1.07	-999.		
1990	11	02	1990	305	00 00 00				8.54	67.10	104.40	1.0441	4.60	-999.		1.10	-999.		
1990	11	03	1990	306	00 00 00				8.78	65.79	105.40	1.0488	4.50	-999.		1.14	-999.		
1990	11	04	1990	307	00 00 00				9.01	64.49	106.50	1.0542	4.40	-999.		1.17	-999.		
1990	11	05	1990	308	00 00 00				9.22	63.19	107.59	1.0593	4.29	155.19	1.20	9.240			
1990	11	06	1990	309	00 00 00				9.42	61.90	108.69	1.0648	4.19	156.38	1.24	9.440			
1990	11	07	1990	310	00 00 00				9.60	60.60	109.79	1.0706	4.09	157.57	1.27	9.620			

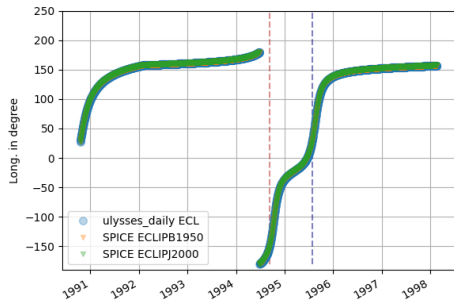
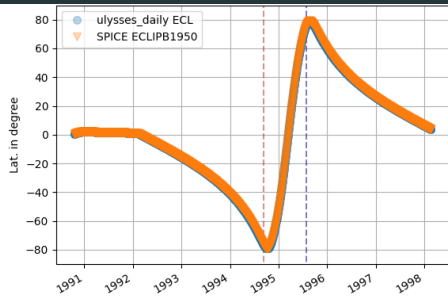
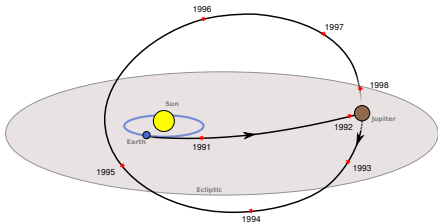
# Coordinate Systems

There seem to be two options for coordinate systems:

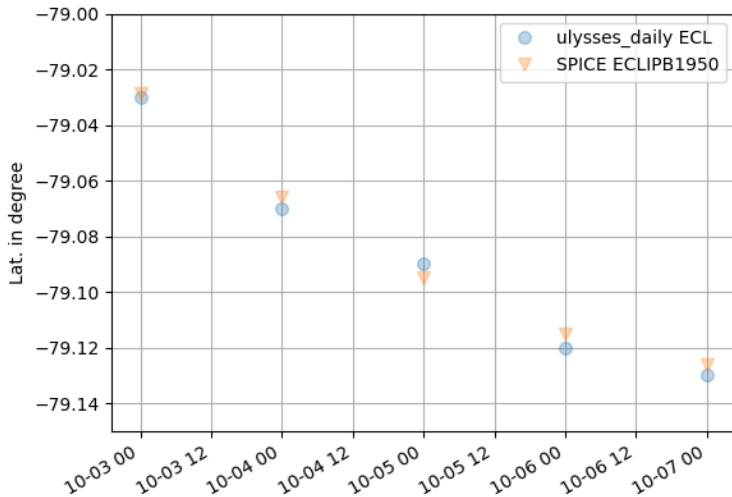
- **Heliocentric Inertial (HCI)** system
- **Heliocentric Aries Ecciptic (HAE)** system



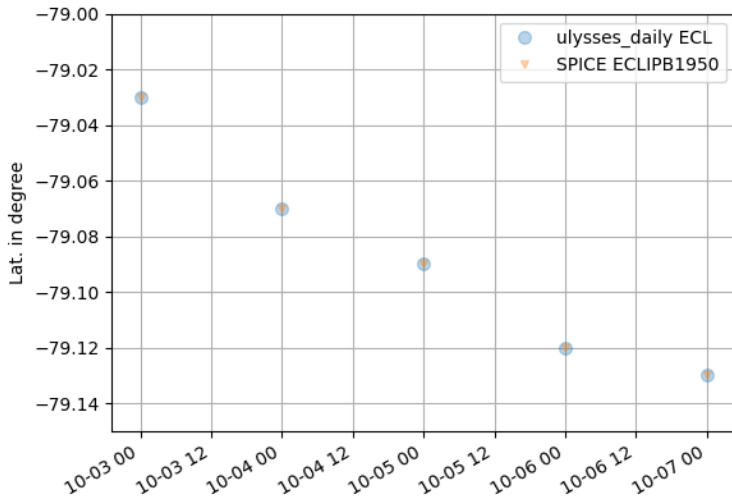
# Ulysses' 1st Orbit



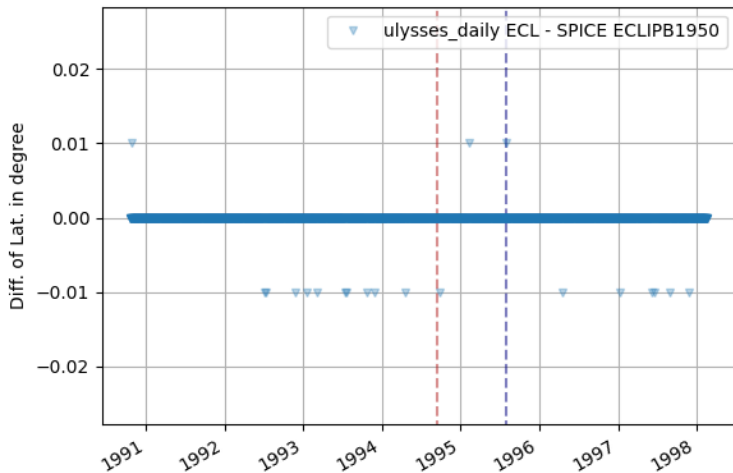
# Ecliptic System



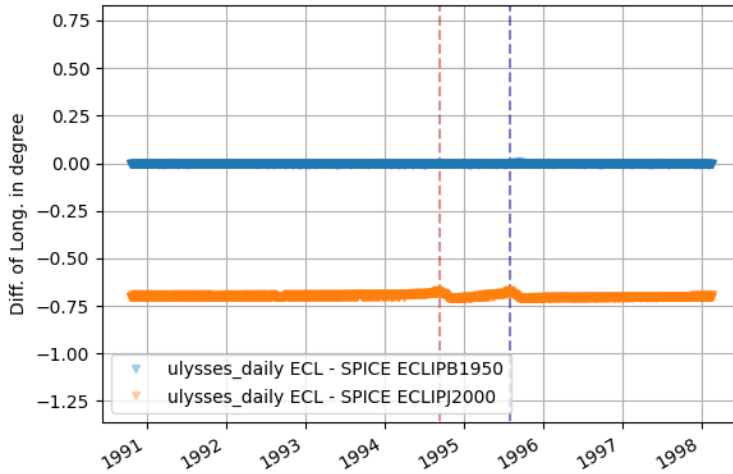
# Ecliptic System



# Ecliptic System



# Ecliptic System



# Equatorial System