Data Management and Access Overview

2025-05-28

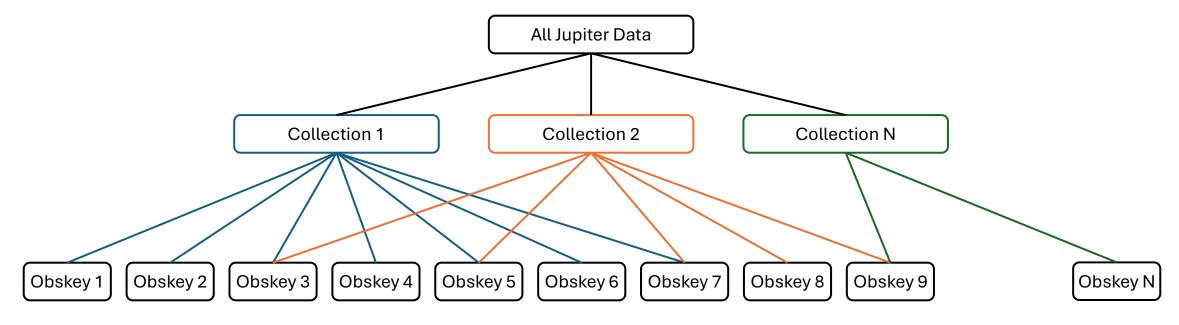
What comprises an 'Observation?'

- A set of 11 videos in two categories:
 - The science video set includes four pairs of two-minute videos in the science wavelength bands
 - The context video provides an RGB optical image for context and interpretation of the science data
- Each observation is identified by an observation key (obskey):
 - YYYYMMDDUT<a-z>
 - Where a-z is a sequential index of the observations on that date
- '(Observing) Session' is comprised of all observations on a given date

			Center	Video	Center	Sys. 2
			Wavelength	Duration	Time	CM
Purpose		se	(nm)	(s)	(s)	(deg)
			656	120	-420	-4.2
			632	120	-300	-3.0
Continuum	СН4		620	120	-180	-1.8
		NH3	647	120	-60	-0.6
		Z	647	120	60	0.6
			620	120	180	1.8
			632	120	300	3.0
			656	120	420	4.2
(IR)GB			>685	60	510	5.1
			550	60	570	5.7
Context		χτ 	450	60	630	6.3

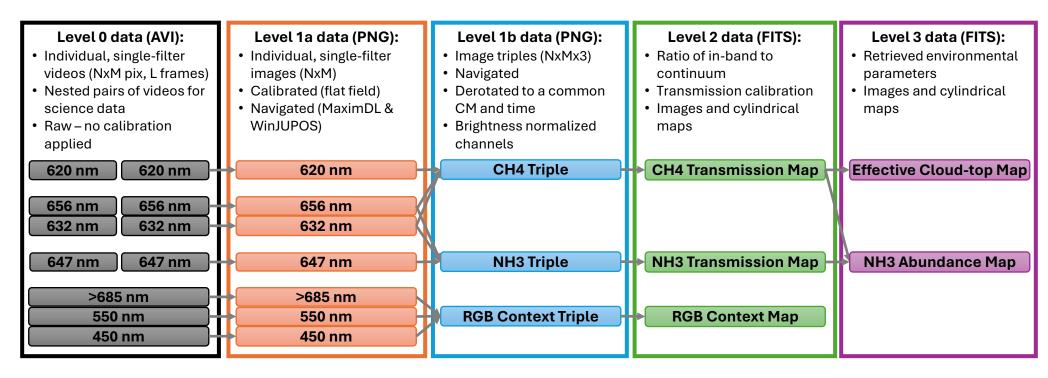
A single observation with a "nested" sequence of science observations to maximize signal to noise and minimize rotational offsets in Jupiter's central.

Organization Concept



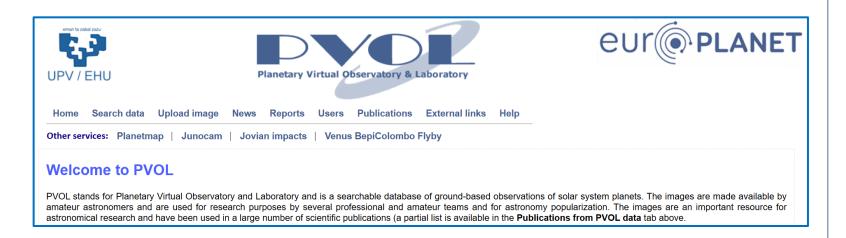
- Collections are sets of observations (obskeys) specified by a start and end date and a descriptive string, e.g., '20250116-20250116 NEDF Study'
- Tons of purposes with overlap in collections

Data Levels

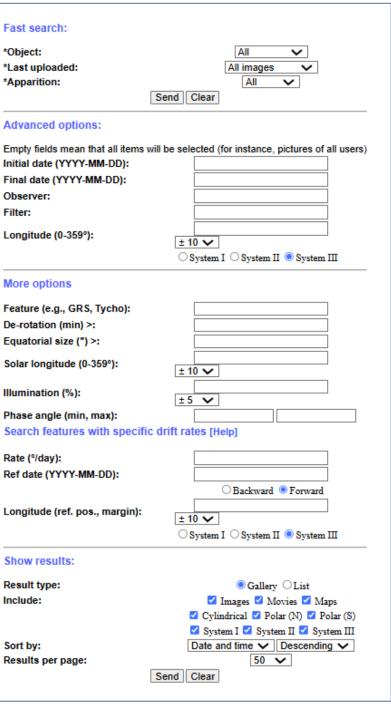


- Level 0 goes to deep storage after initial procession
- Level 1a rarely retrieved except for assessing data problems
- Level 1b accessed rarely, mainly for initial processing
- Level 2 data are used to understand basic physics of atmosphere
- Level 3 data are primary product used for research

Data Access Example 1



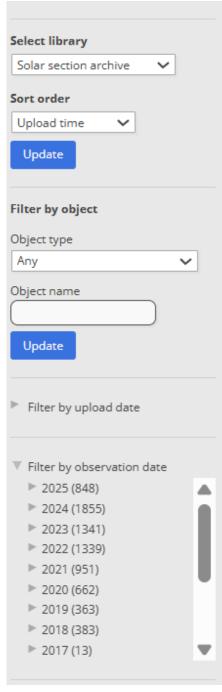
- Example 1 public data site http://pvol2.ehu.eus/pvol2/
- Data file lists, image displays, search capability
- Built on webservice



Data Access Example 2



- Example 2 public data site https://britastro.org/observations/?library=42
- Data file lists, image displays, search capability
- Built on webservice



Data Access Example 3

- Example 3 public data site
 https://alpoj.sakura.ne.jp/Latest/Jupiter.ht
 m
- Simple index by date
- Each date links to a page with Jupiter images posted
- No search capability
- Some additional sections for reports and details

Jupiter Section of ALPO-Japan-Latest 木星の最新観測報告 Jupiter Observations

<u>2025/05/27</u> by	K.Mashima 05/27
<u>2025/05/22</u> by	K.Suzuki,S.Ito,K.Mashima
<u>2025/05/20</u> by	K.Suzuki,S.Ito
<u>2025/05/18</u>	Jupiter Repoer - May 2025 by K.Horikaw
<u>2025/05/17</u>	Jupiter Apparition 2024 - 2025 by D.Peach
<u>2025/05/14</u> by	K.Suzuki,K.Sasaki,S.Ito,T.Ishibashi,K.Horikawa
<u>2025/05/13</u> by	K.Suzuki,S.Ito,K.Horikawa,K.Horii
<u>2025/05/08</u> by	S.Ito,K.Horikawa,K.Sasaki
<u>2025/05/05</u> by	K.Horikawa,E.Morales
<u>2025/05/04</u> by	Christopher Go,S.Ito,T.Akutsu,K.Horikawa,K.Horii,E.Morales
<u>2025/05/03</u> by	K.Suzuki,K.Horikawa
<u>2025/04/30</u> by	K.Suzuki,M.Morita,S.Ito,K.Horikawa,K.Horii
<u>2025/04/29</u> by	K.Suzuki,S.Ito,K.Mashima,Anthony.W,K.Horii,K.Horikawa,E.Morales
<u>2025/04/28</u> by	H.Einaga, V.Gonzalez, E.Morales
<u>2025/04/27</u> by	Christopher Go, T. Akutsu, K. Horikawa, M. Araujo
<u>2025/04/26</u> by	K.Suzuki,K.Sasaki,S.Ito,K.Horii,M.Karakas,E.Morales
<u>2025/04/25</u> by	Anthony. W, Kardasis, E. Morales
<u>2025/04/24</u> by	Christopher Go, T. Akutsu, P. Abel, Kardasis, K. Horii, H. Einaga, E. Morales
<u>2025/04/23</u> by	T.Akutsu,Anthony.W,Y.Takao,E.Morales
<u>2025/04/22</u> by	T.Akutsu,E.Morales