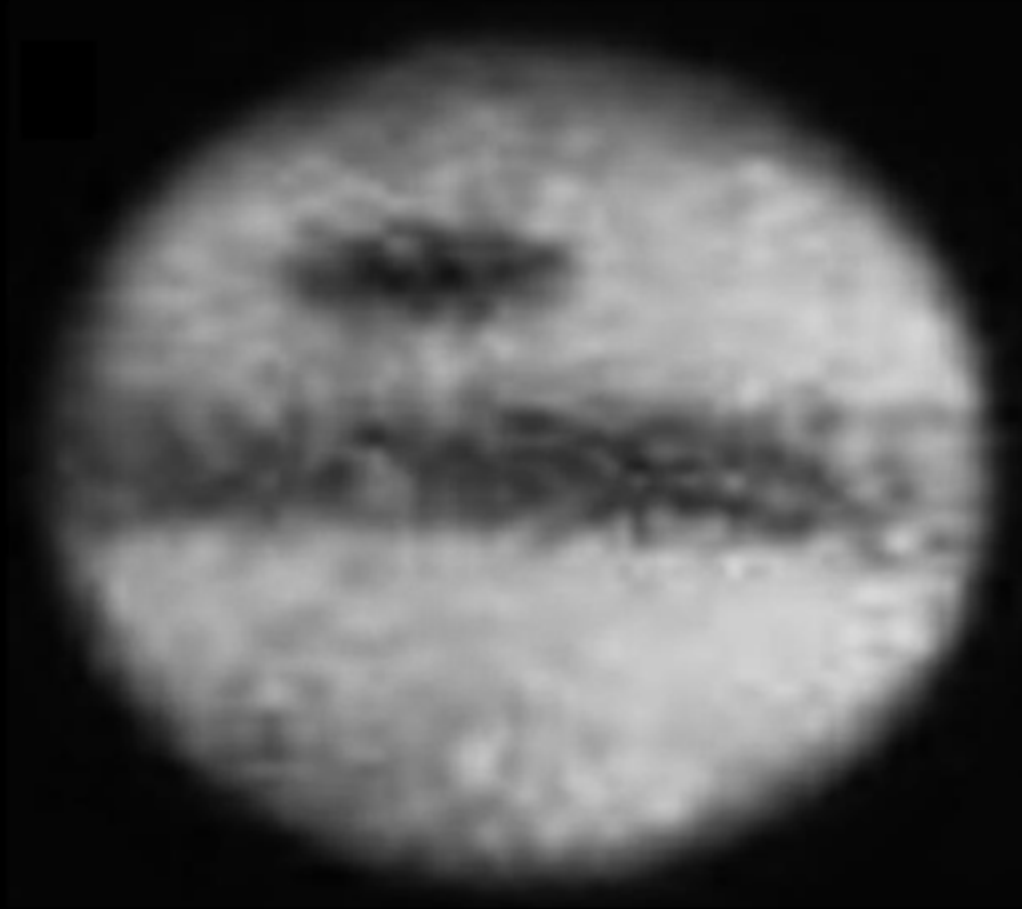


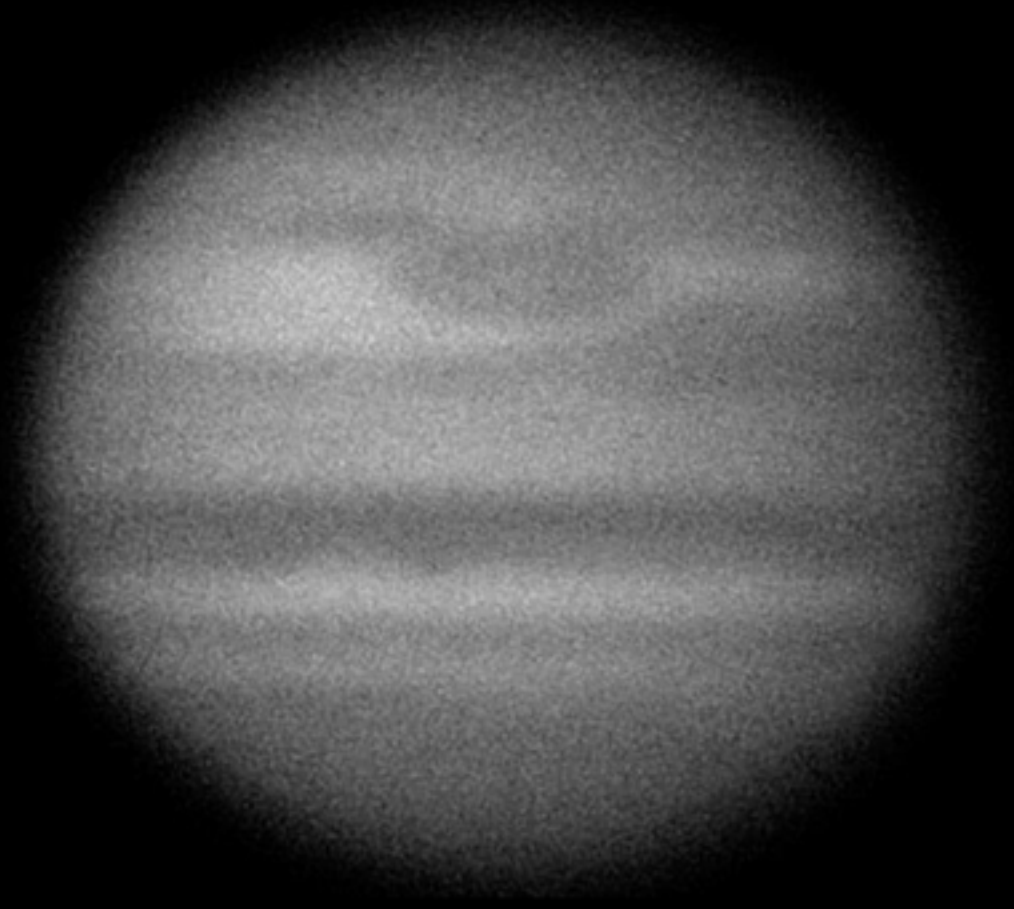


1879-2025: Jupiter's Great Red Spot

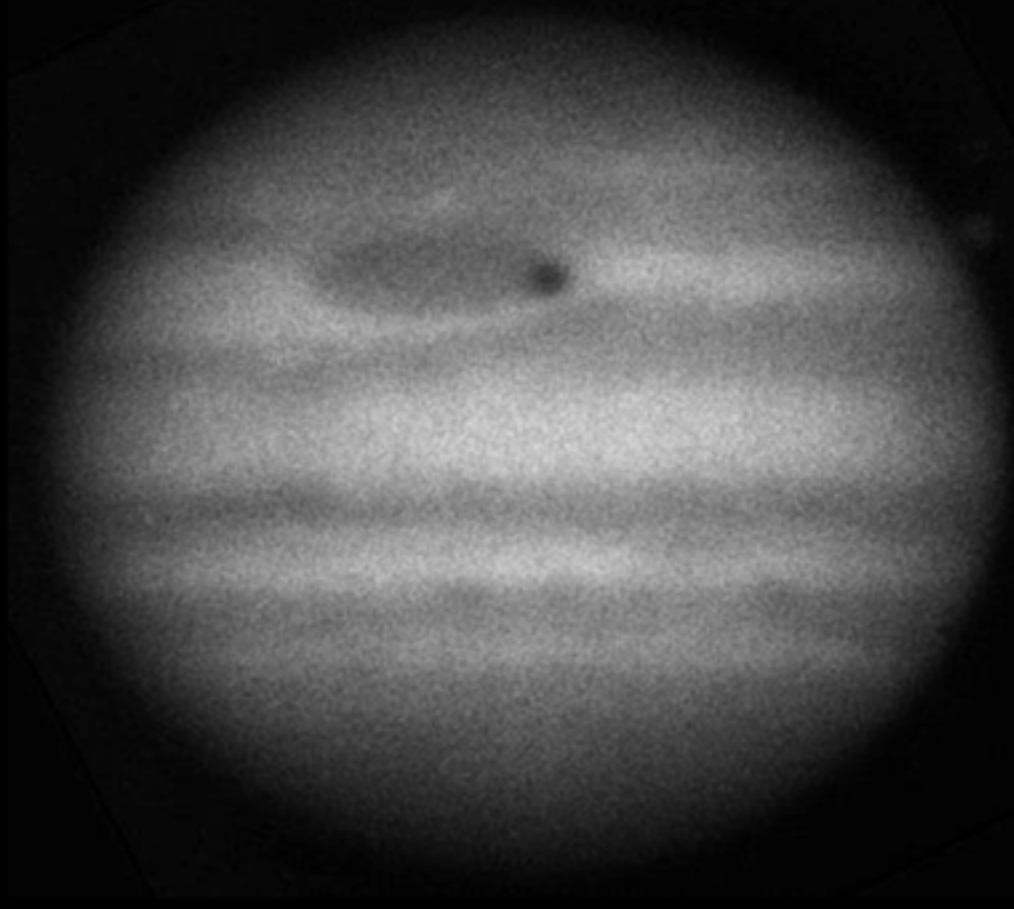
1879-09-03 A.A. Common



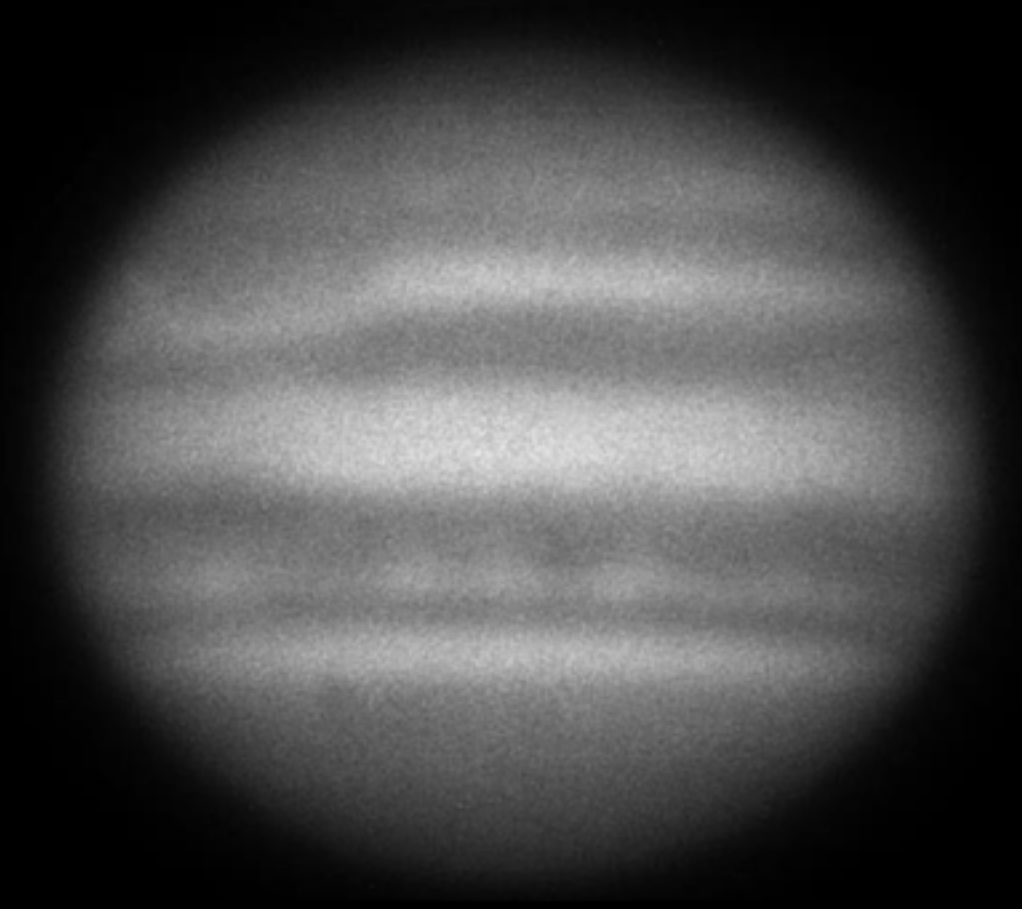
1890-09-22 (Y) Lick



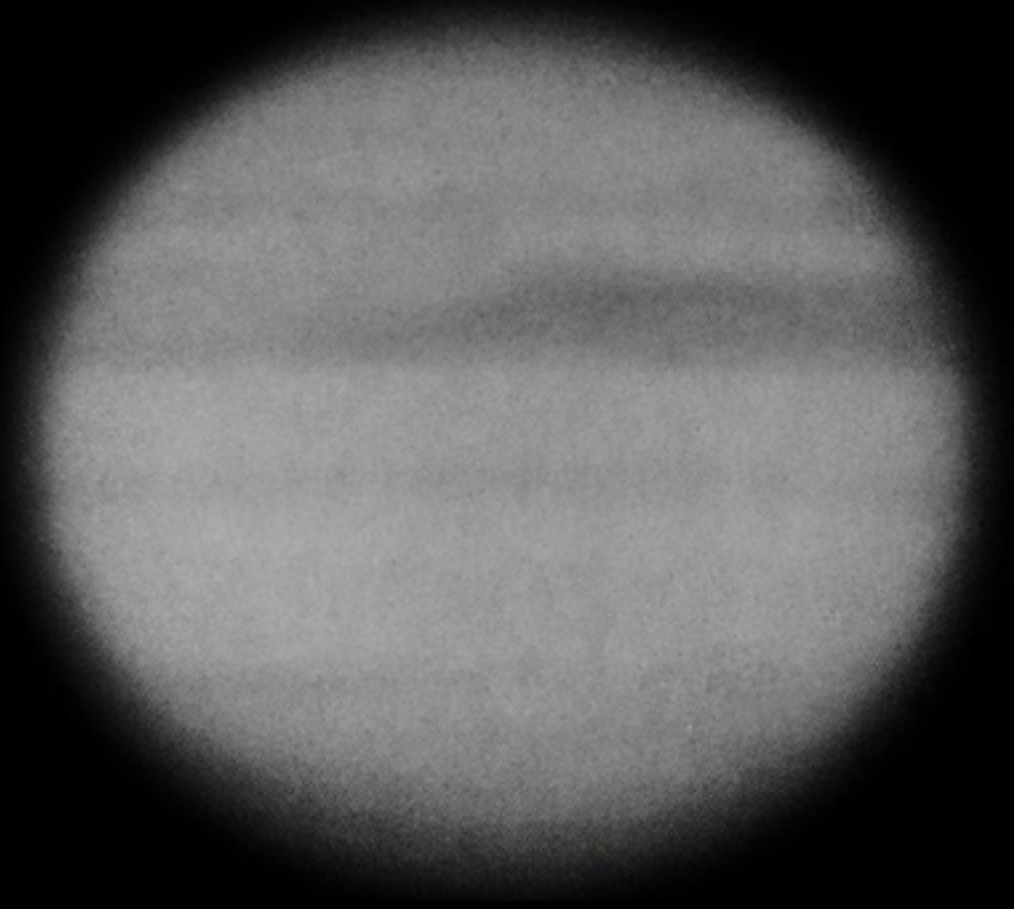
1891-08-20 (Y) Lick



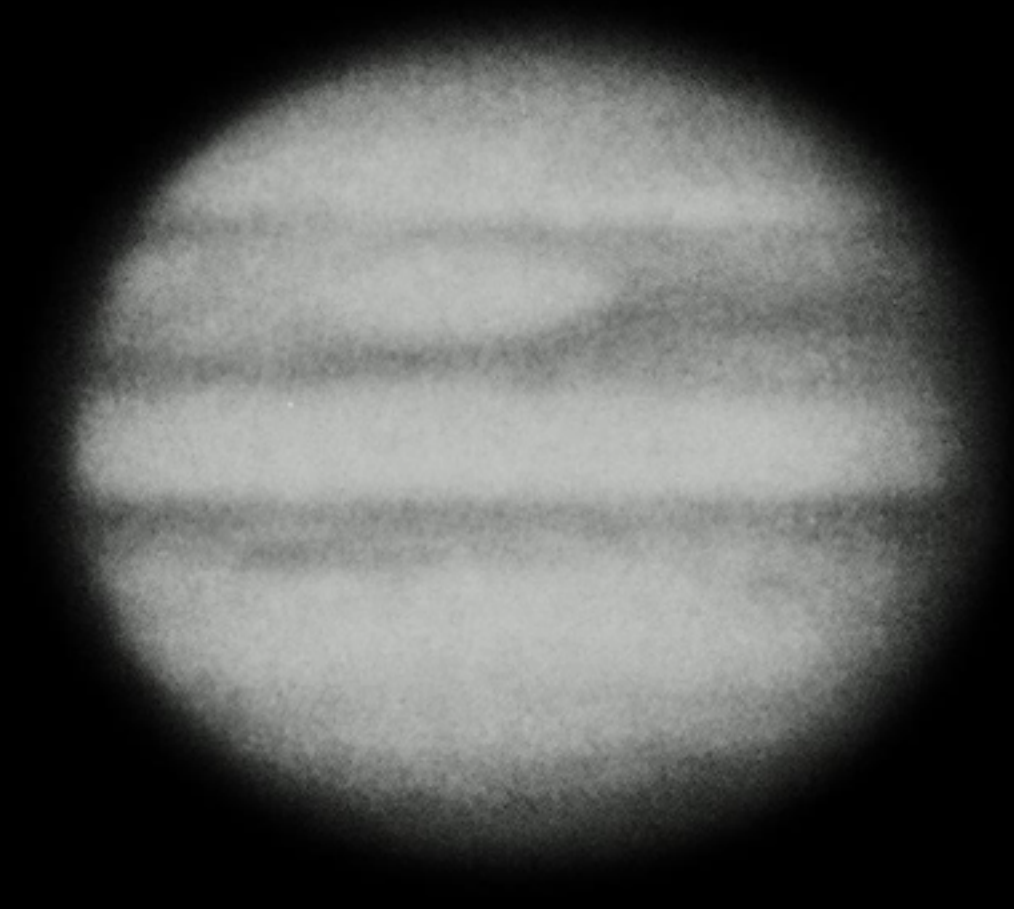
1893-11-15 (Y) Lick



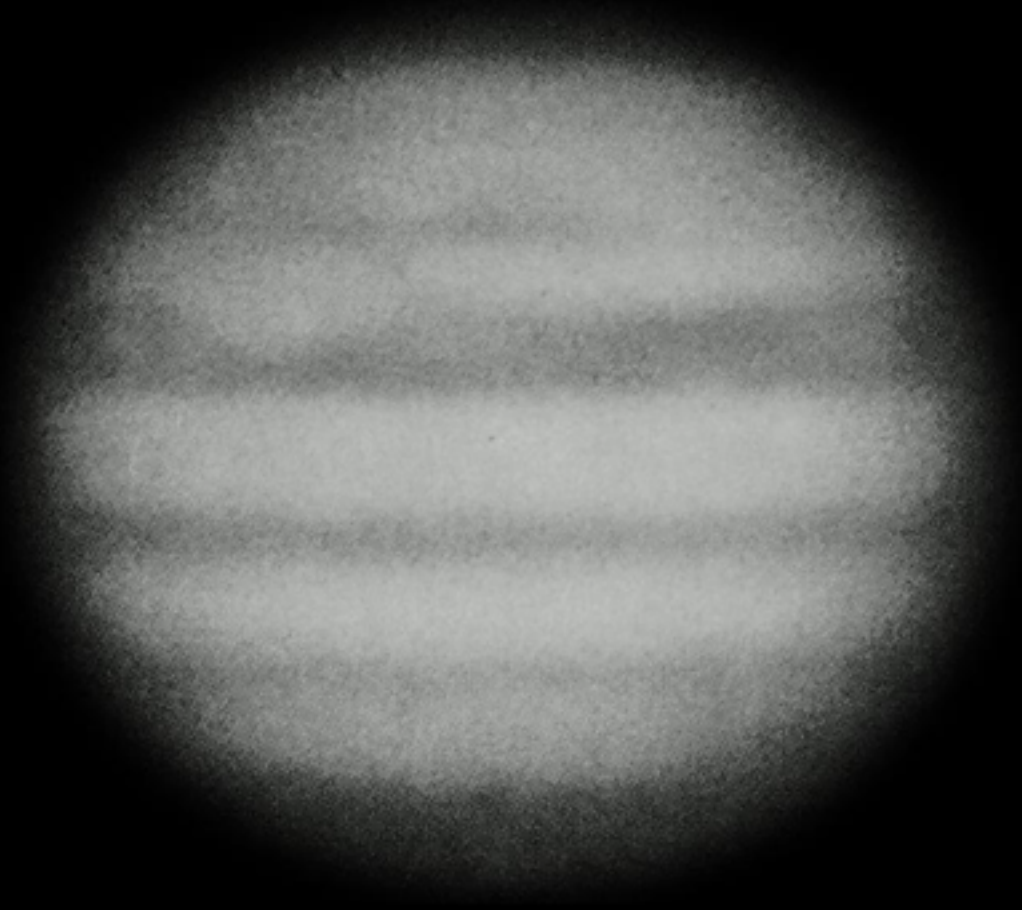
1904-10-28 (Y) Lowell



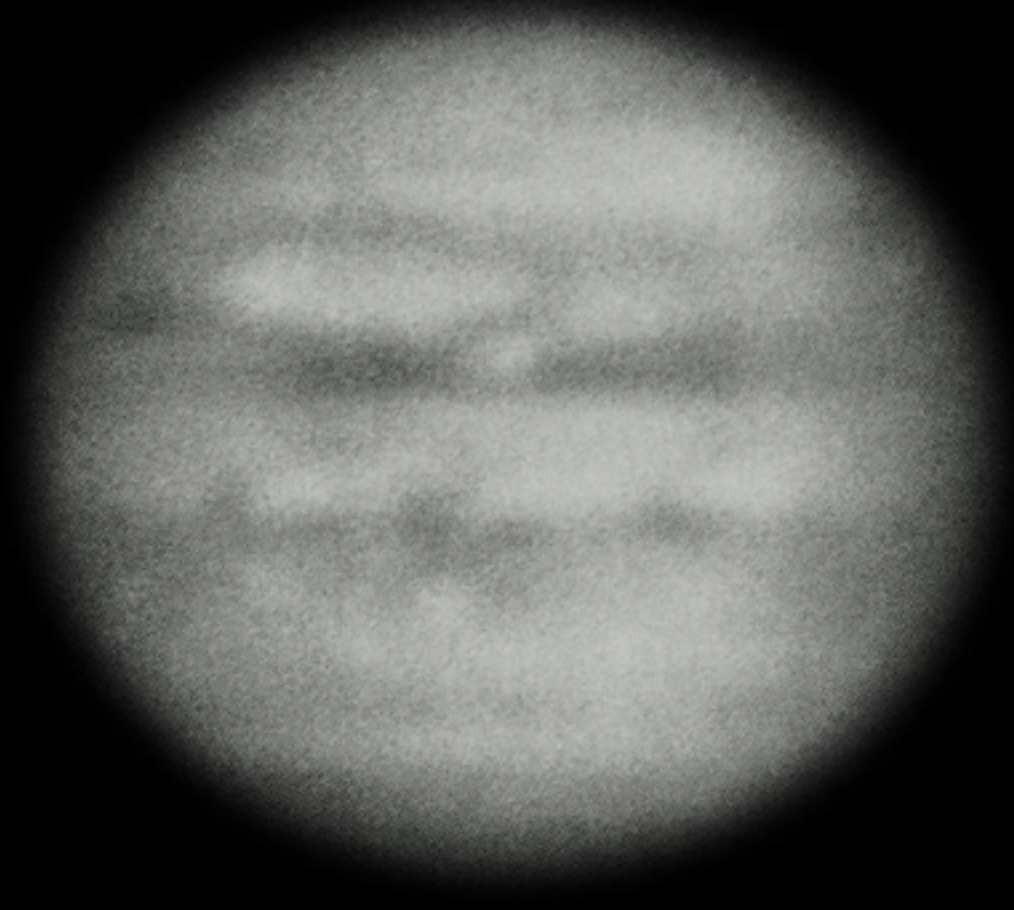
1908-08-16 (Y) Lowell



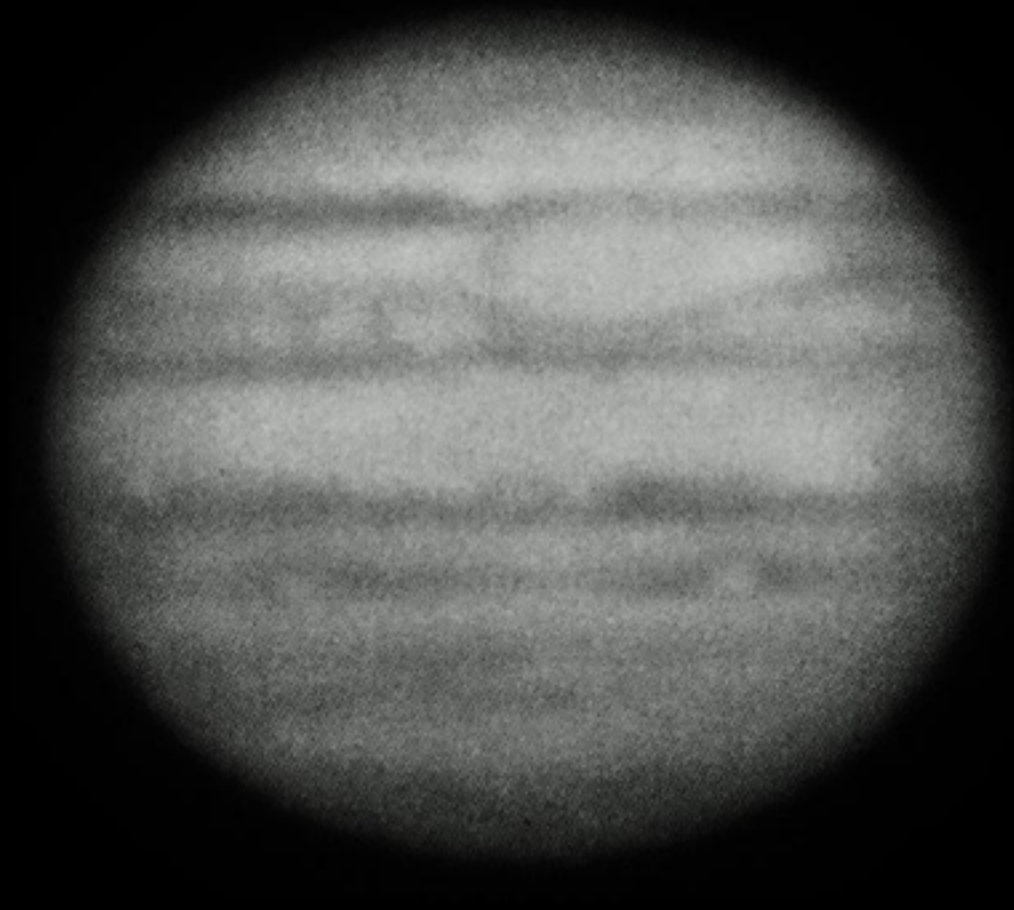
1911-05-06 (Y) Lowell



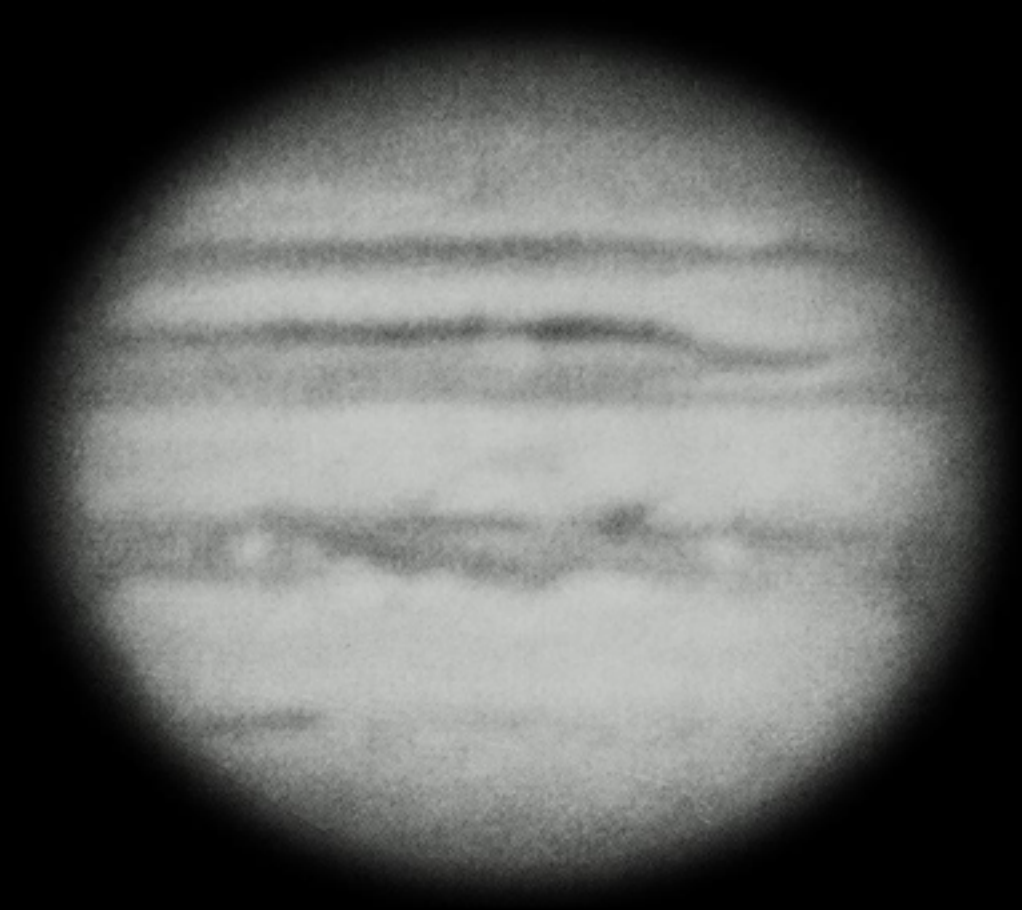
1913-08-17 (Y) Lowell



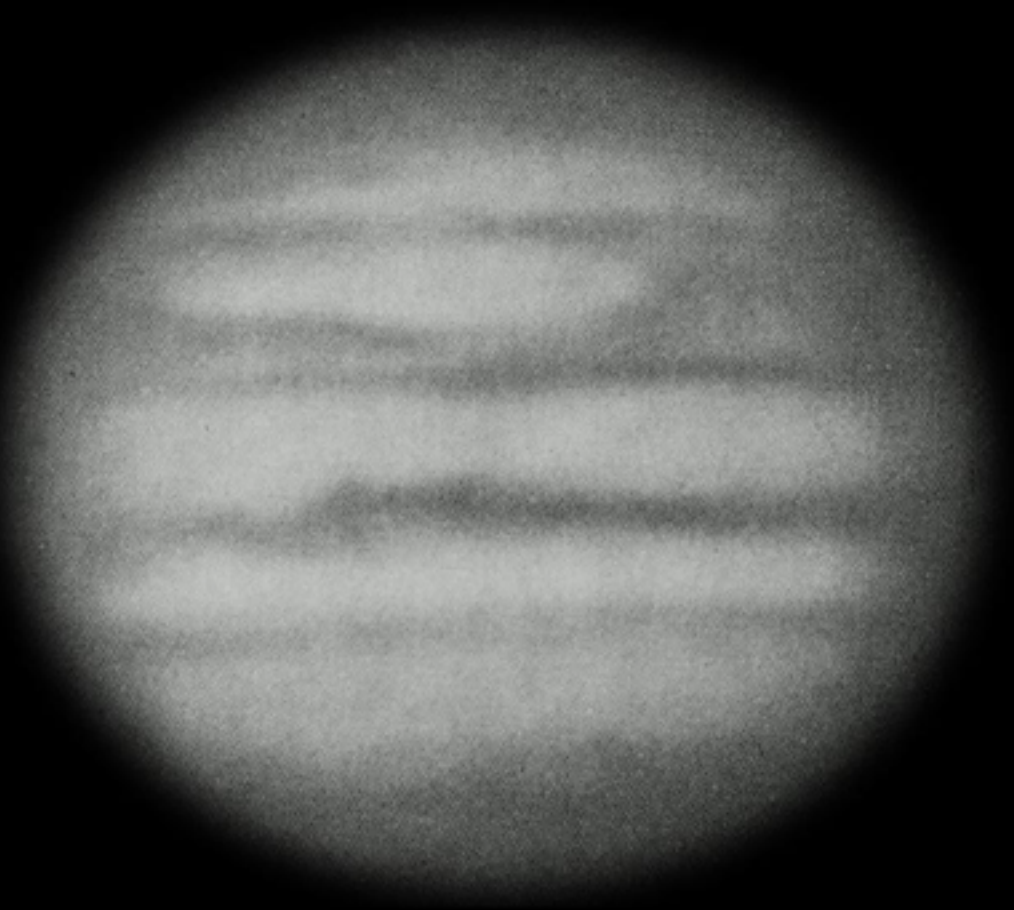
1914-09-03 (Y) Lowell



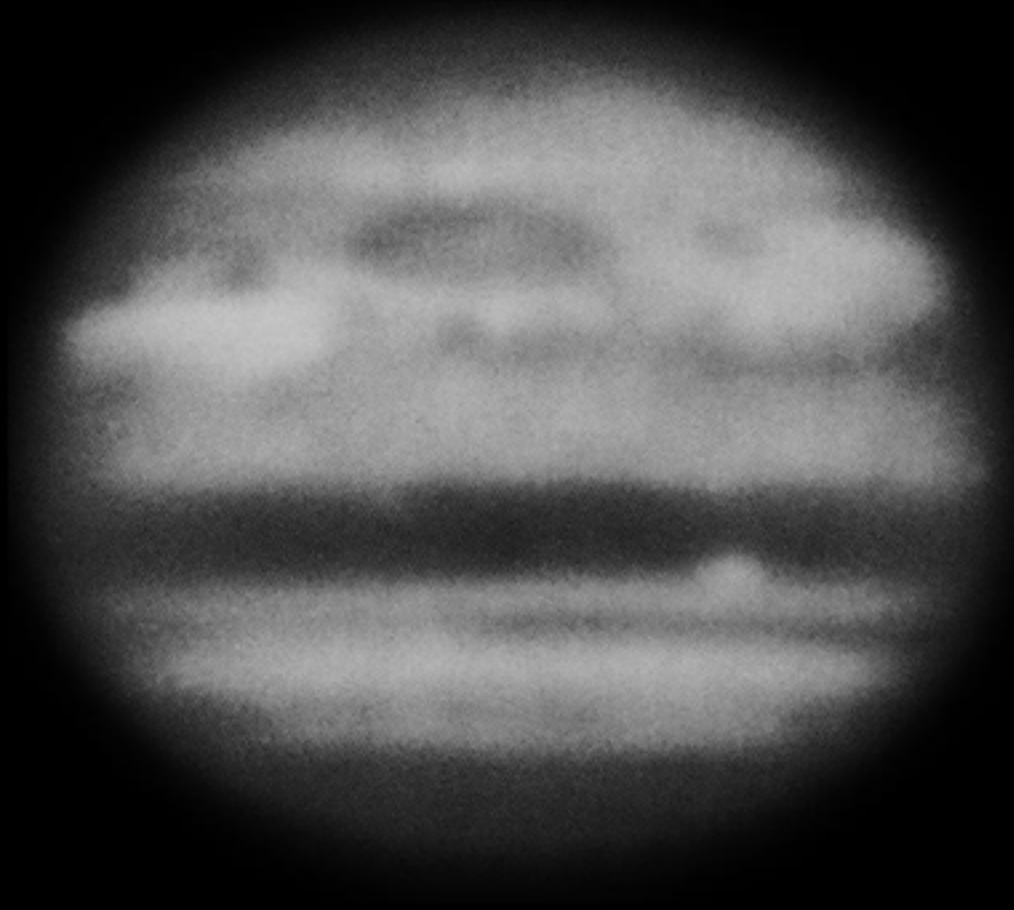
1915-10-20 (Y) Lowell



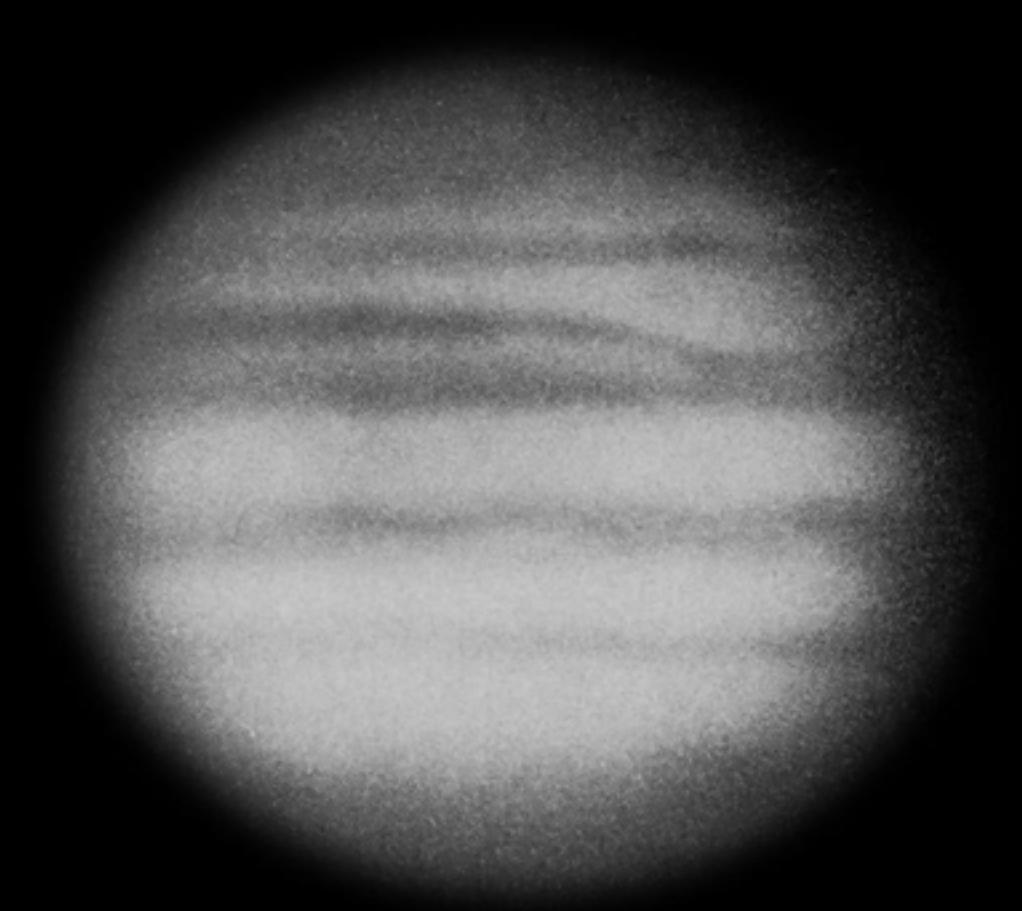
1917-12-20 (Y) Lowell



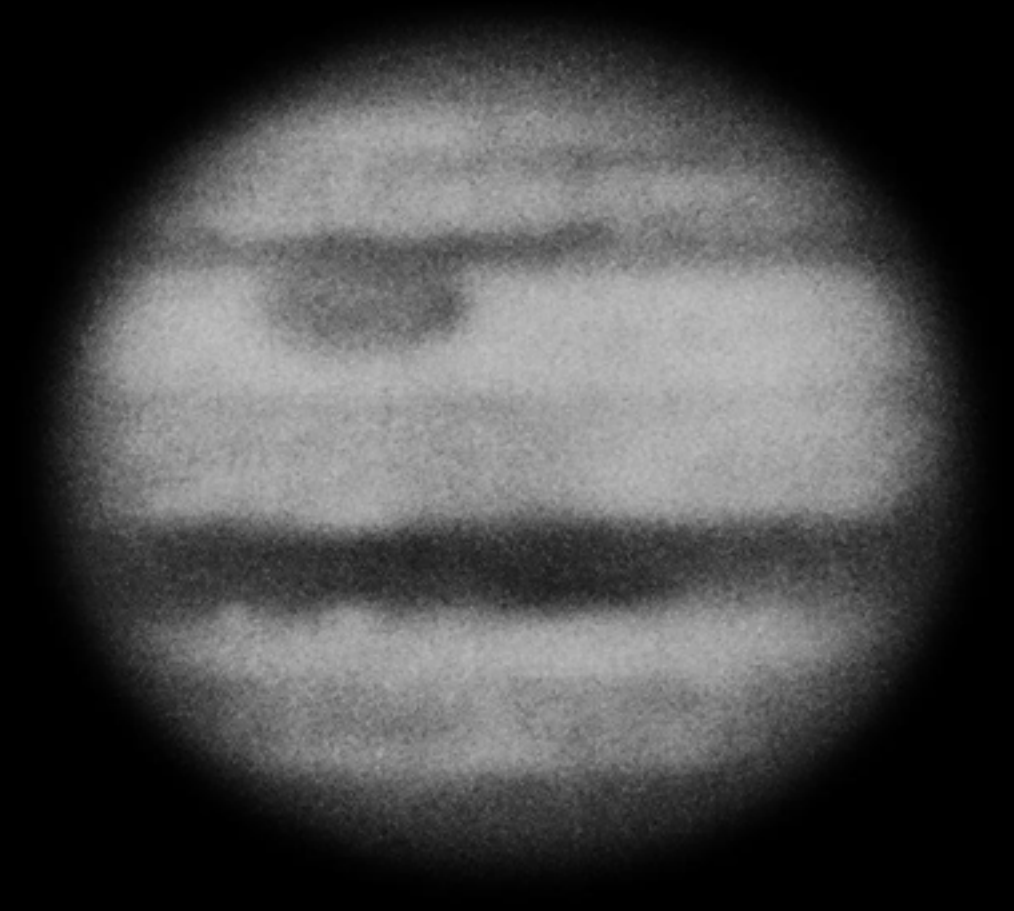
1928-10-07 (B) Lowell



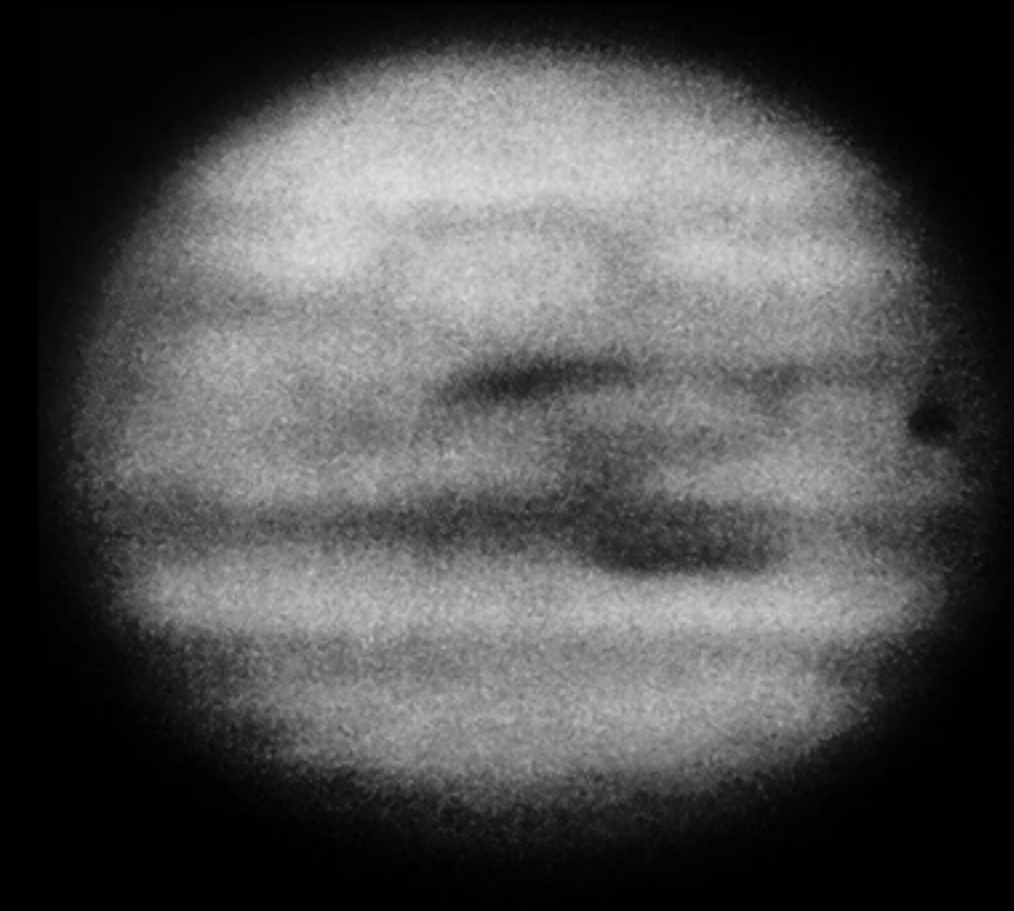
1931-02-28 (Y) Lowell



1936-07-05 (Y) Lowell



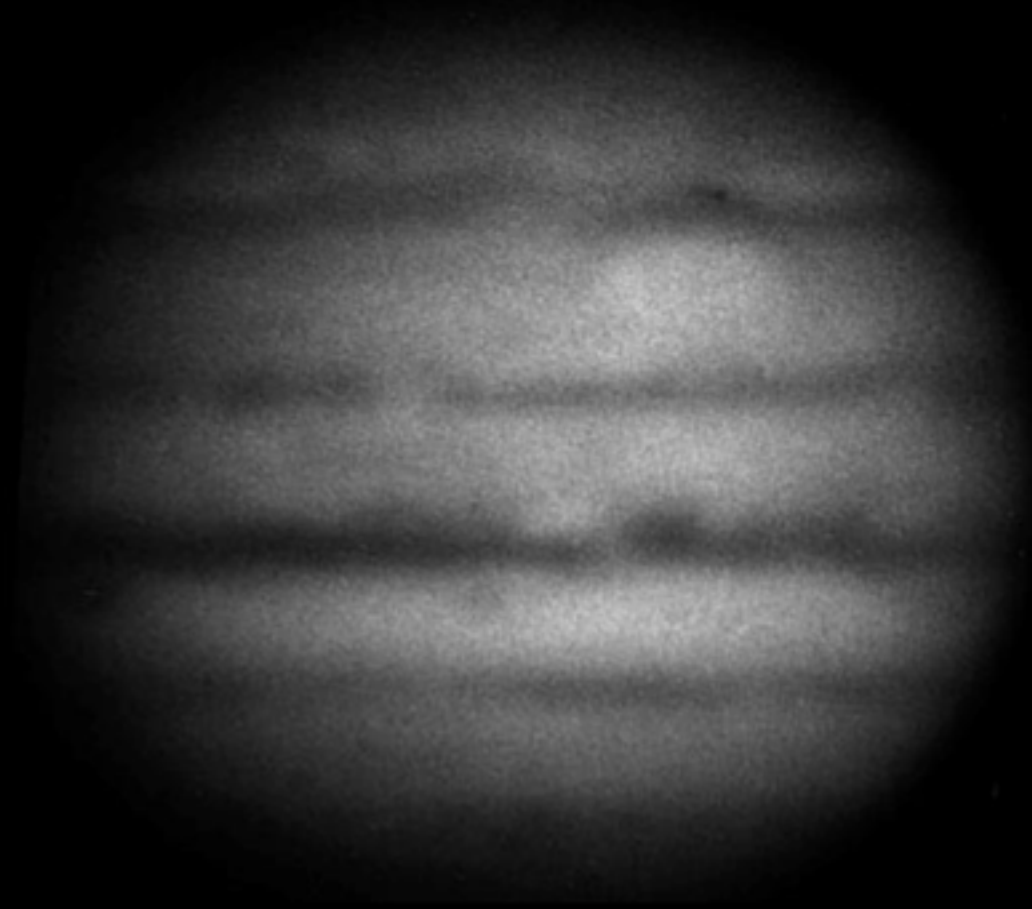
1938-08-11 (Y) Lowell



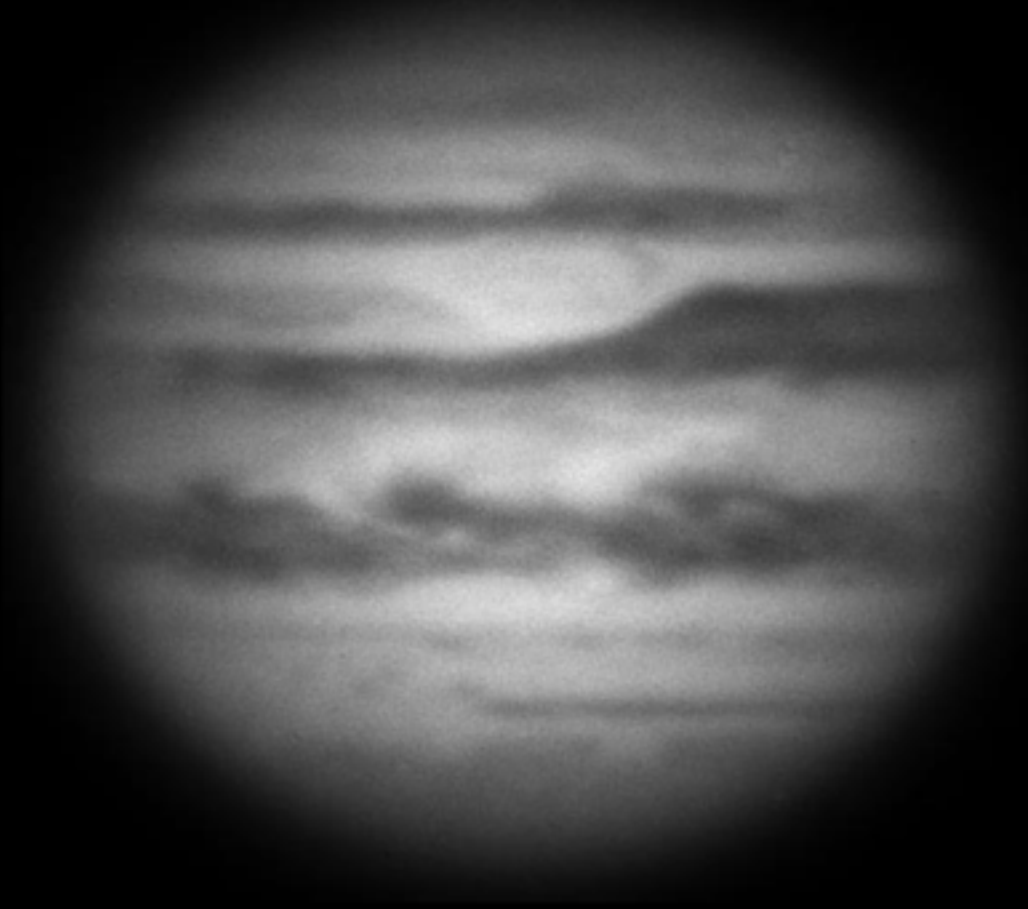


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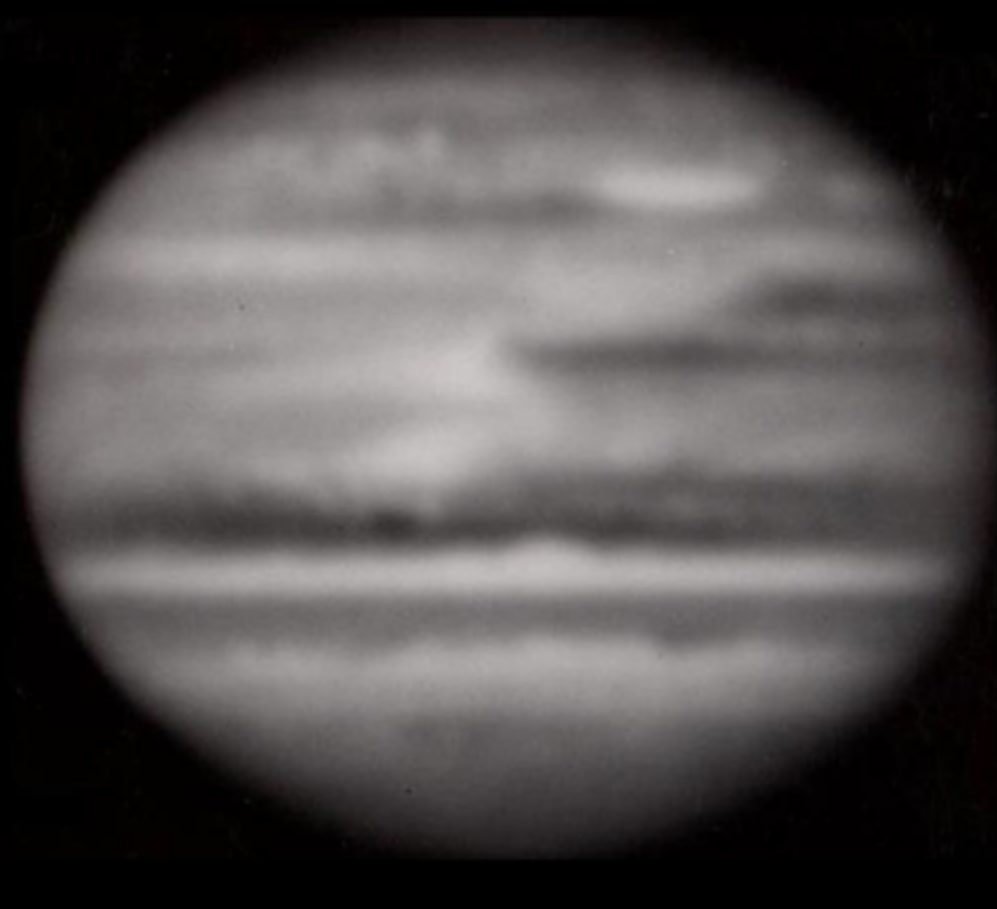
1943-12-08 Pic du Midi



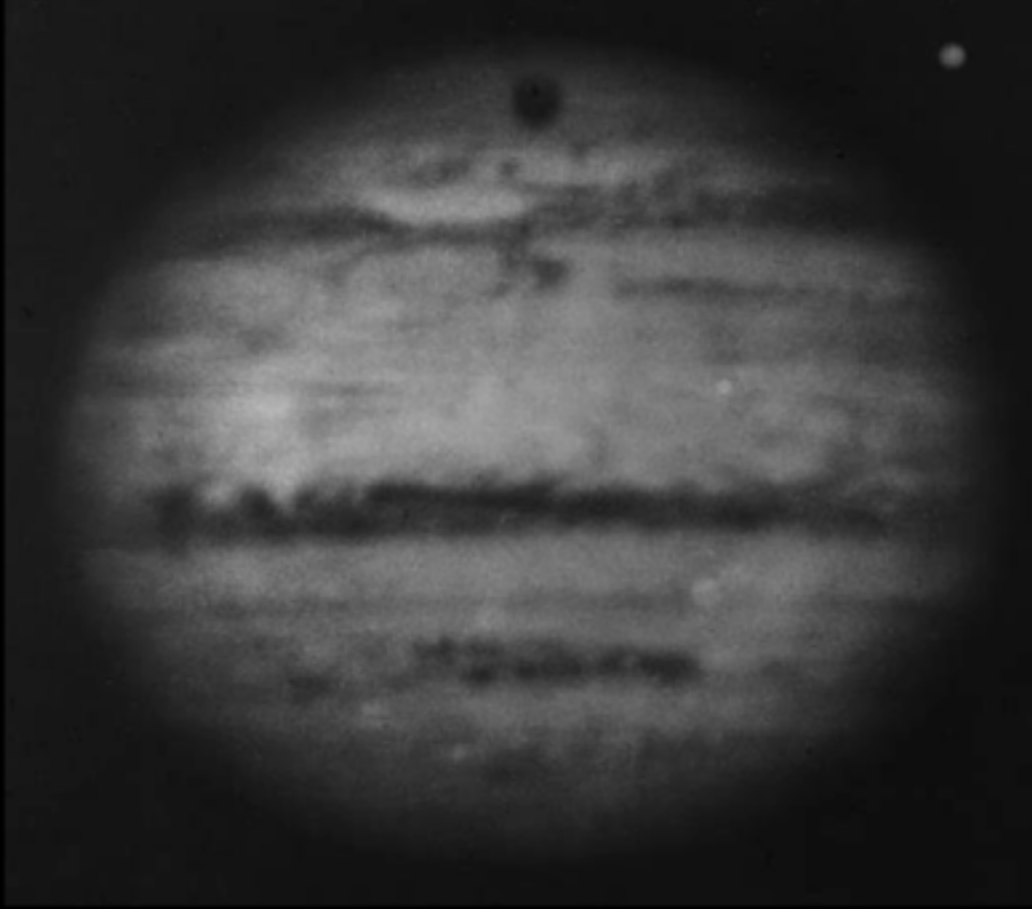
1945-03-20 Pic du Midi



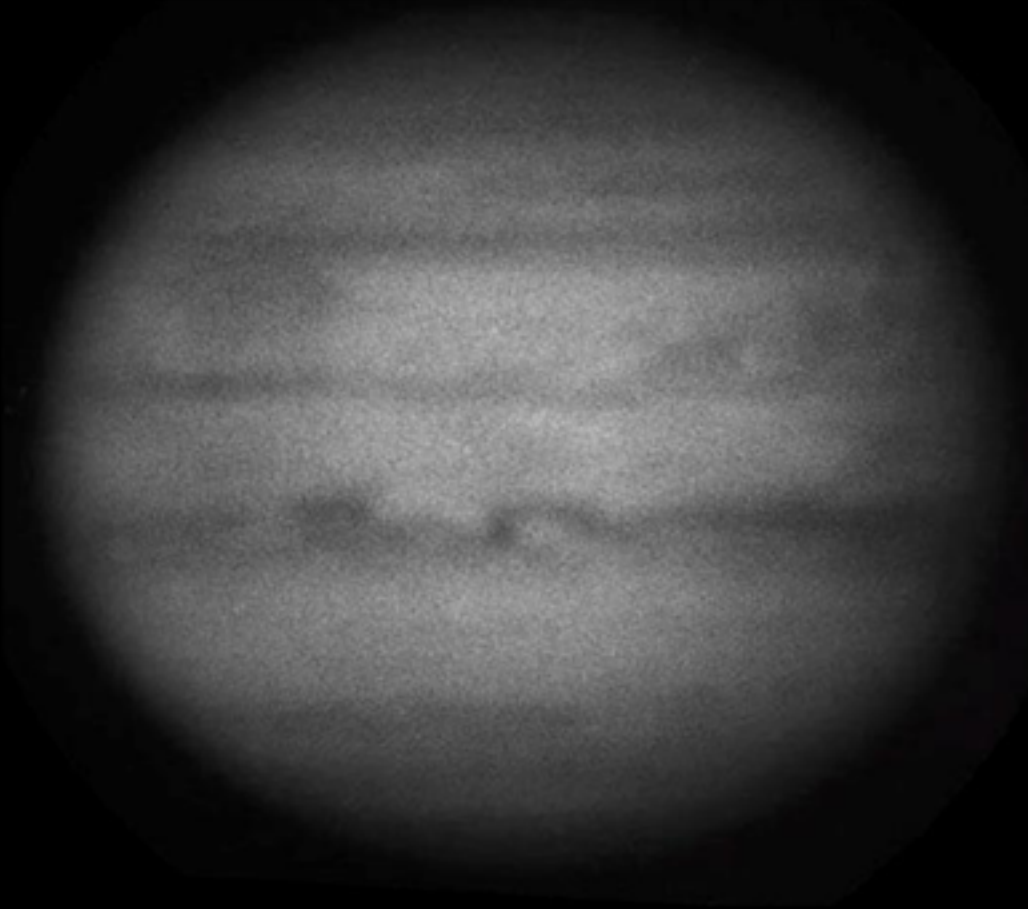
1950-10-05 (B) Mt. Palomar



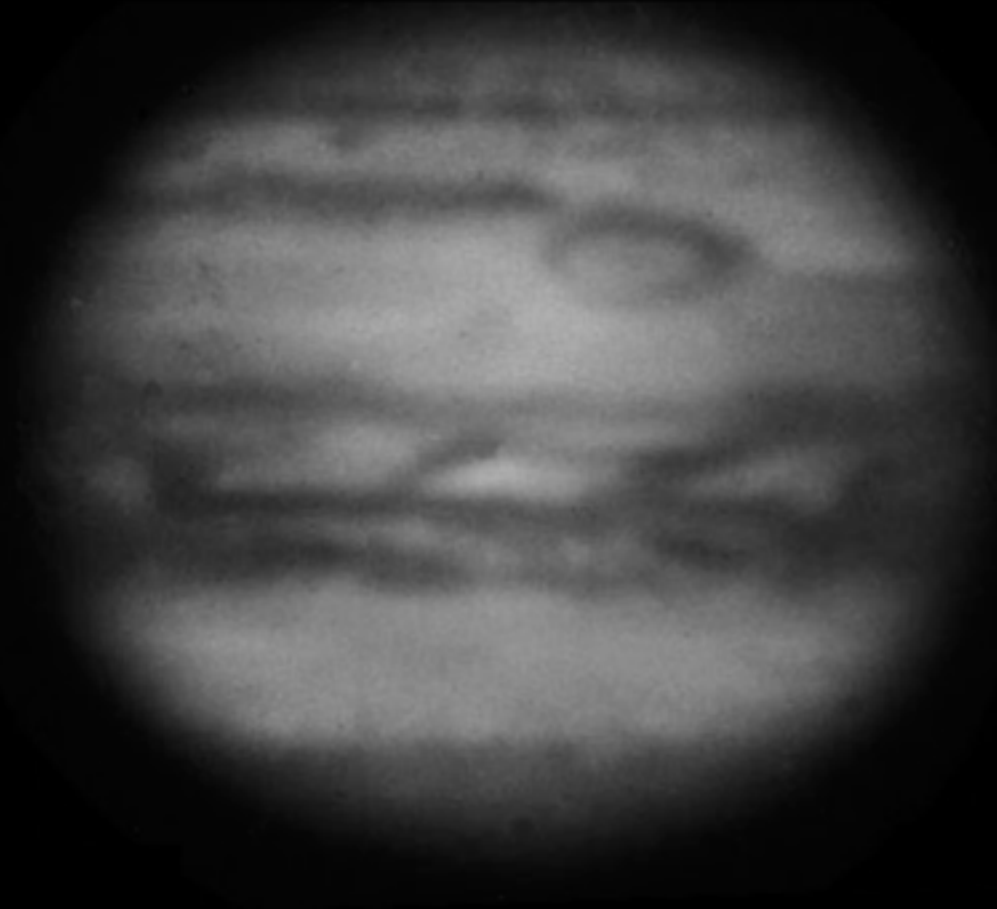
1952-10-23 Mt. Palomar



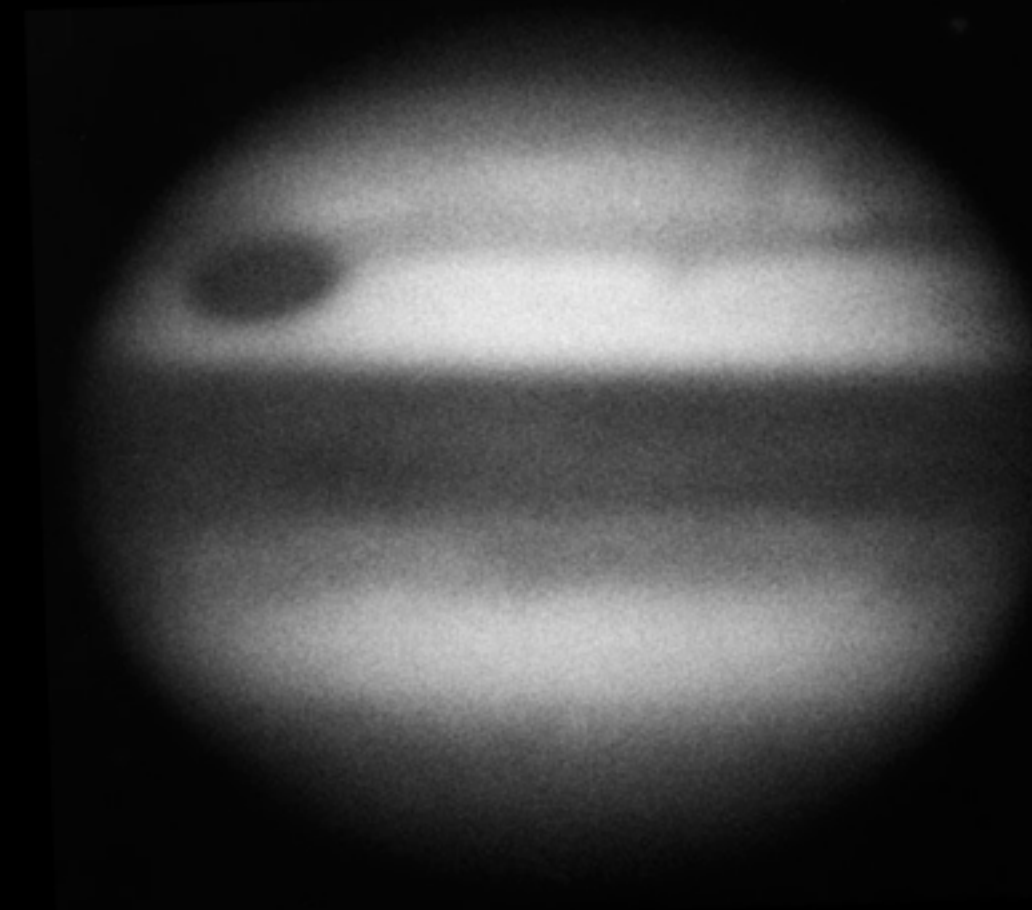
1958-05-01 Pic du Midi



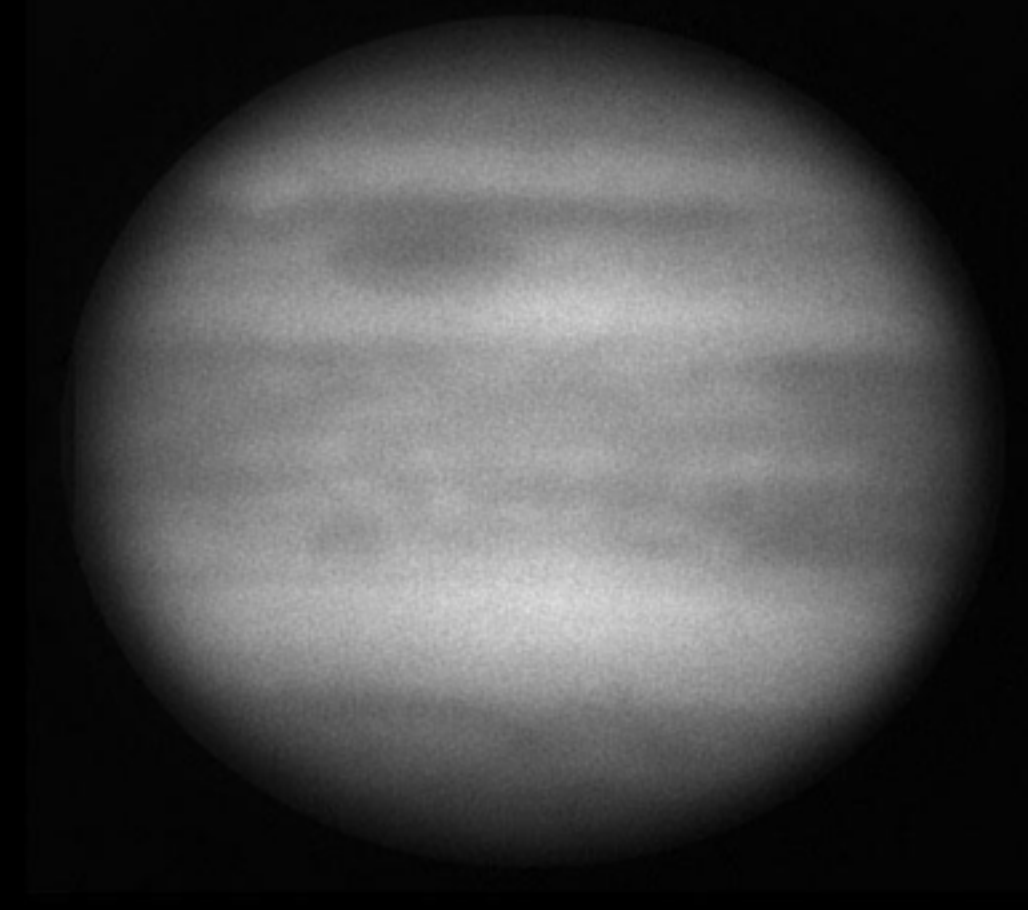
1961-08-04 Pic du Midi



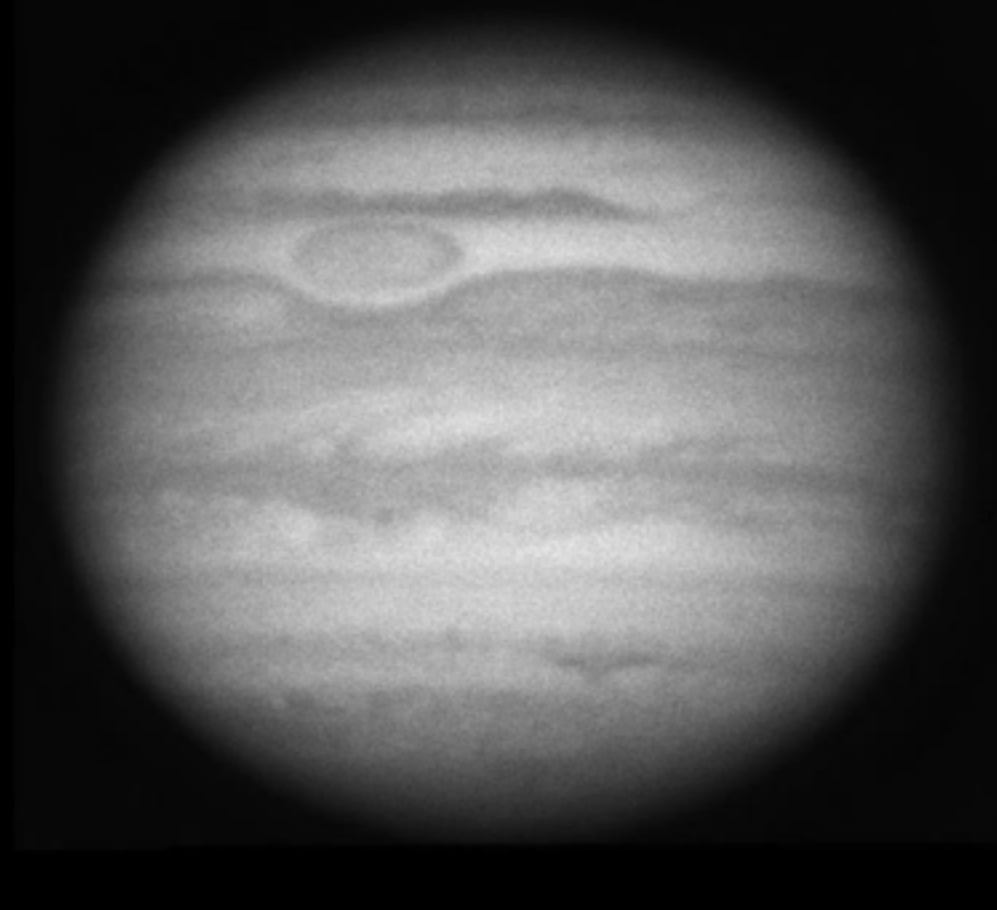
1962-08-19 (UV) Pic du Midi



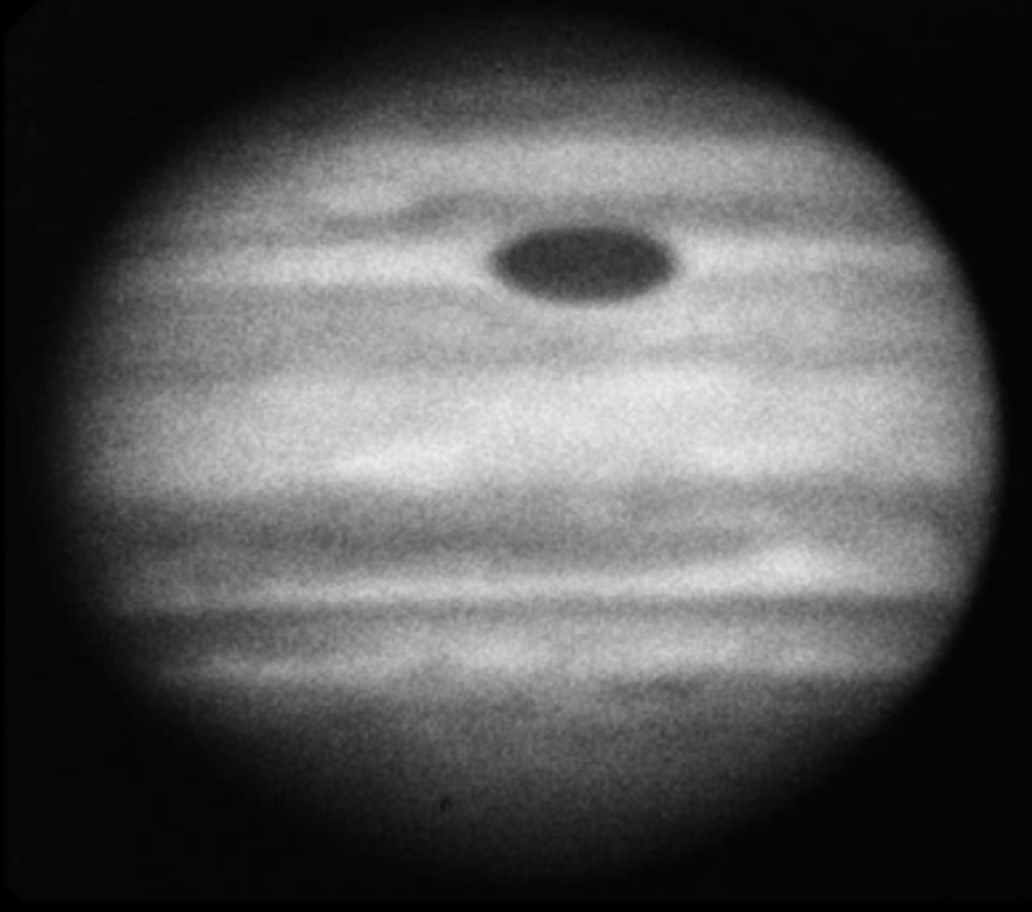
1963-09-08 Saint-Michel



1964-11-23 (Y) Pic du Midi



1965-09-28 (B) New Mexico SU



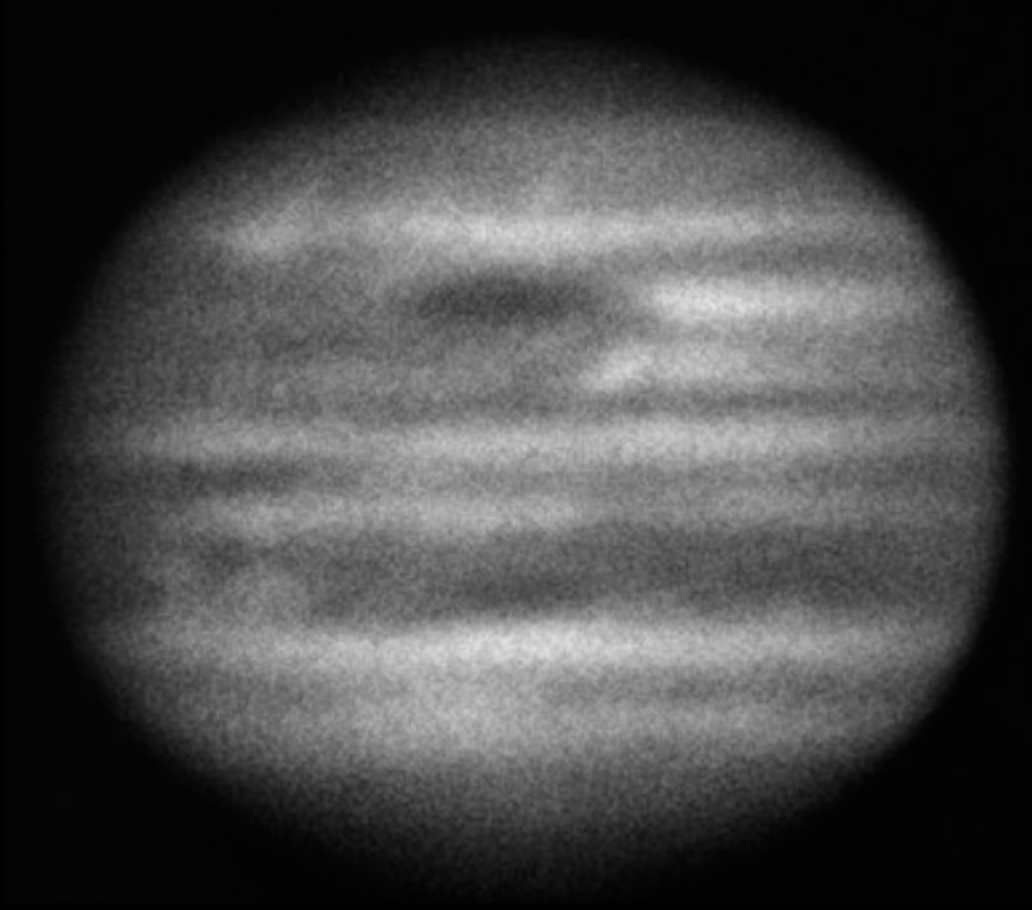
1966-01-10 (G) Lowell



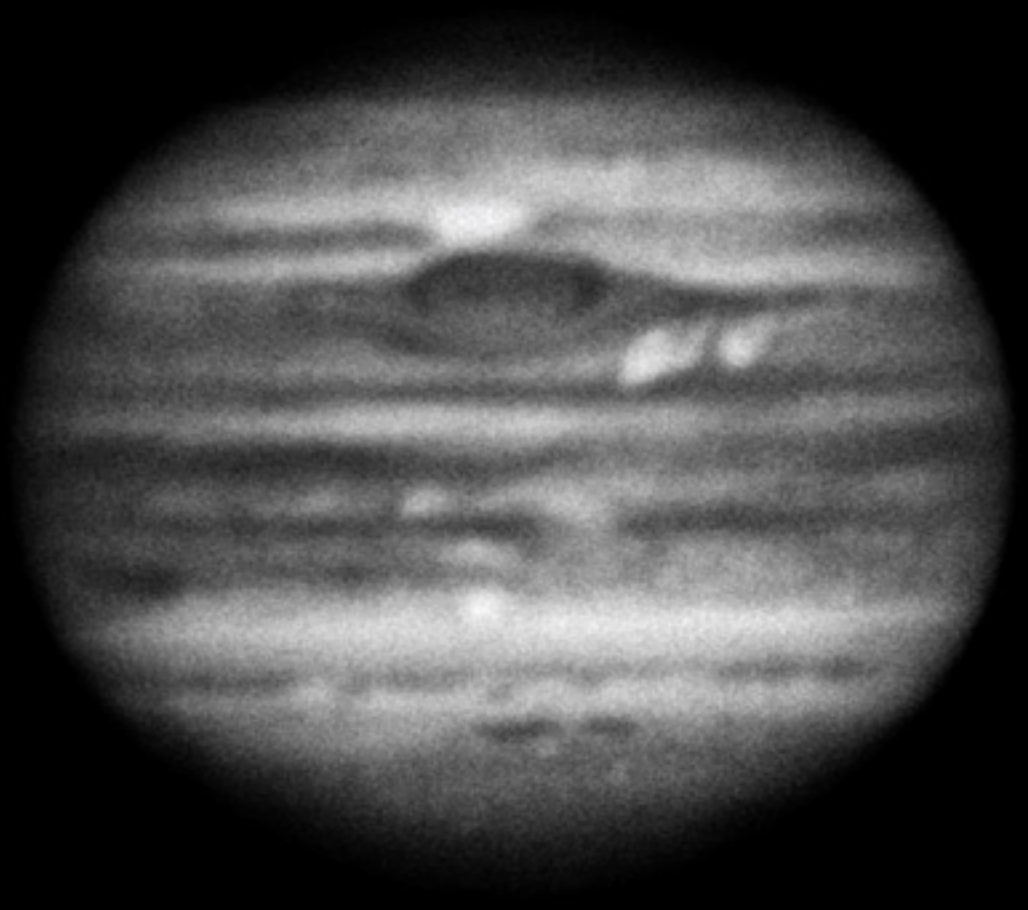
1966-12-23 LPL Univ.Arizona



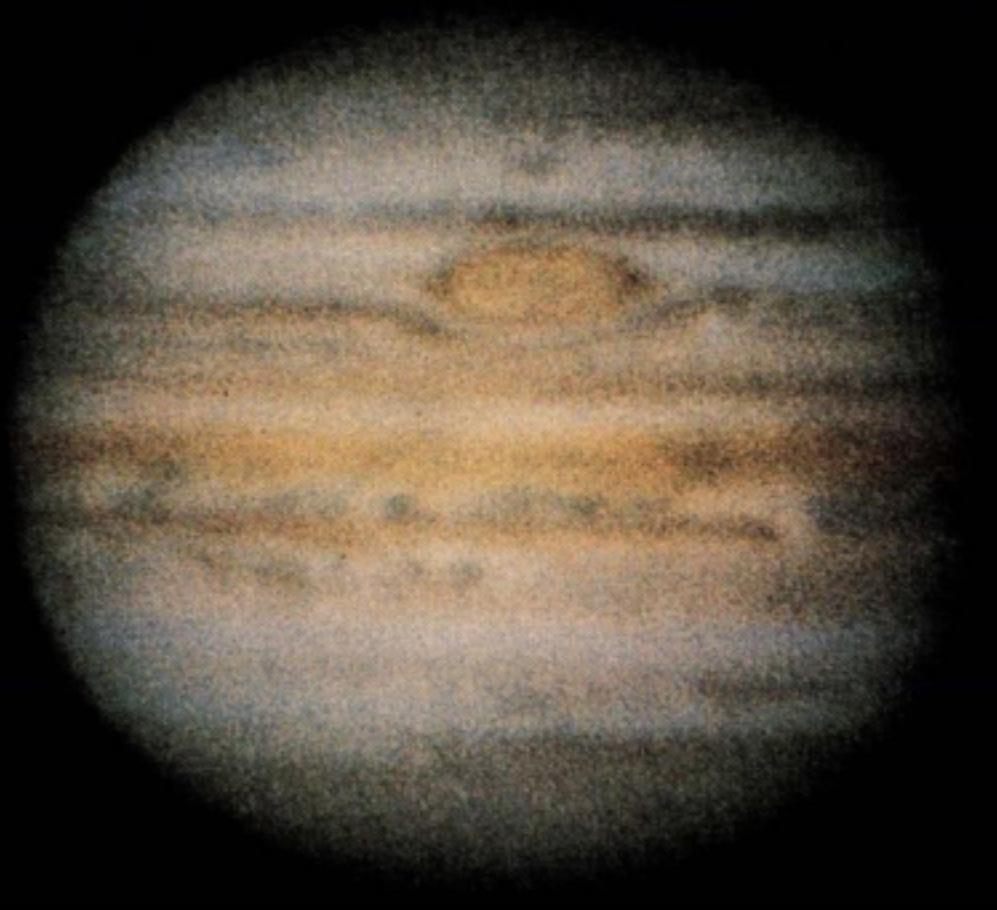
1967-10-18 (B) New Mexico SU



1968-02-16 (B) New Mexico SU



1968-05-18 LPL Univ.Arizona





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1972-06-?? unknown



1973-07-27 Mauna Kea



1974-12-02 Pioneer 11



1975-10-22 Mauna Kea



1976-11-20 Mauna Kea



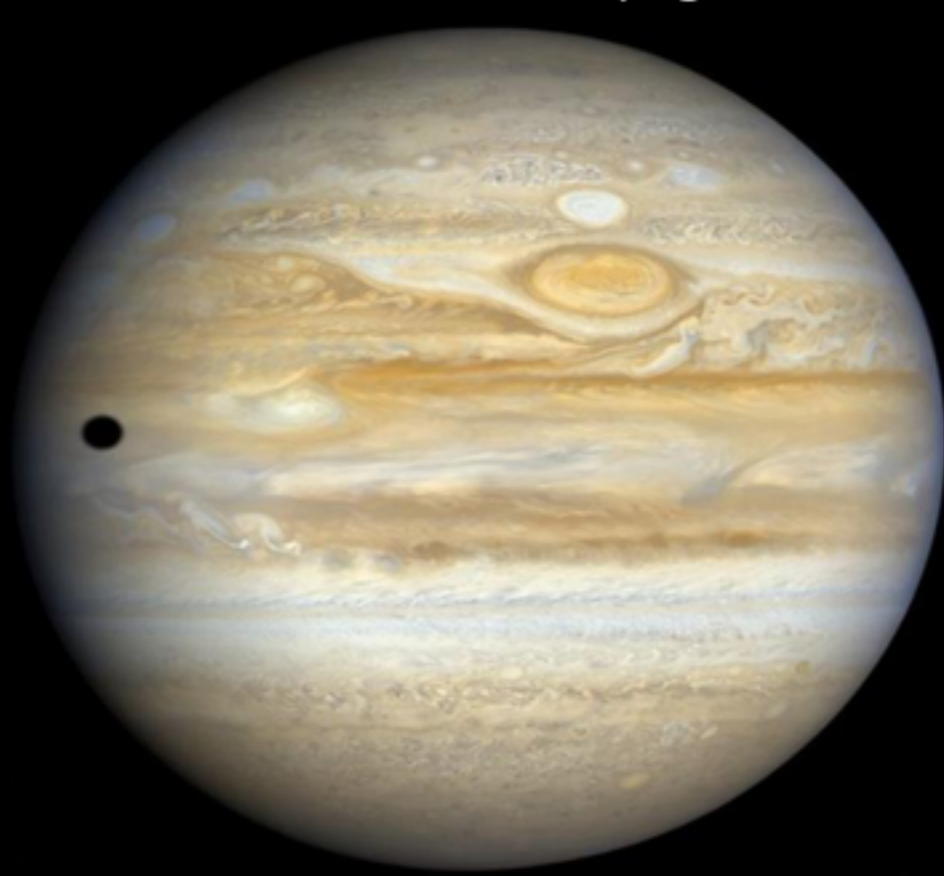
1978-01-28 Mauna Kea



1979-02-27 Voyager 1



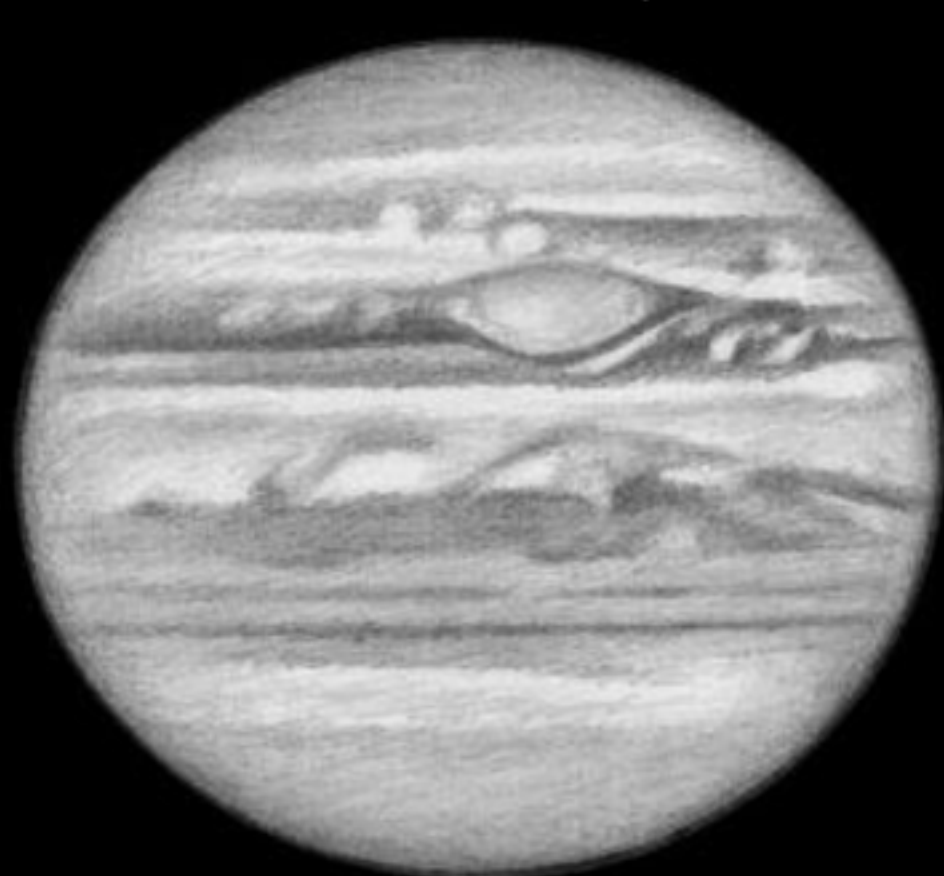
1979-07-08 Voyage 2



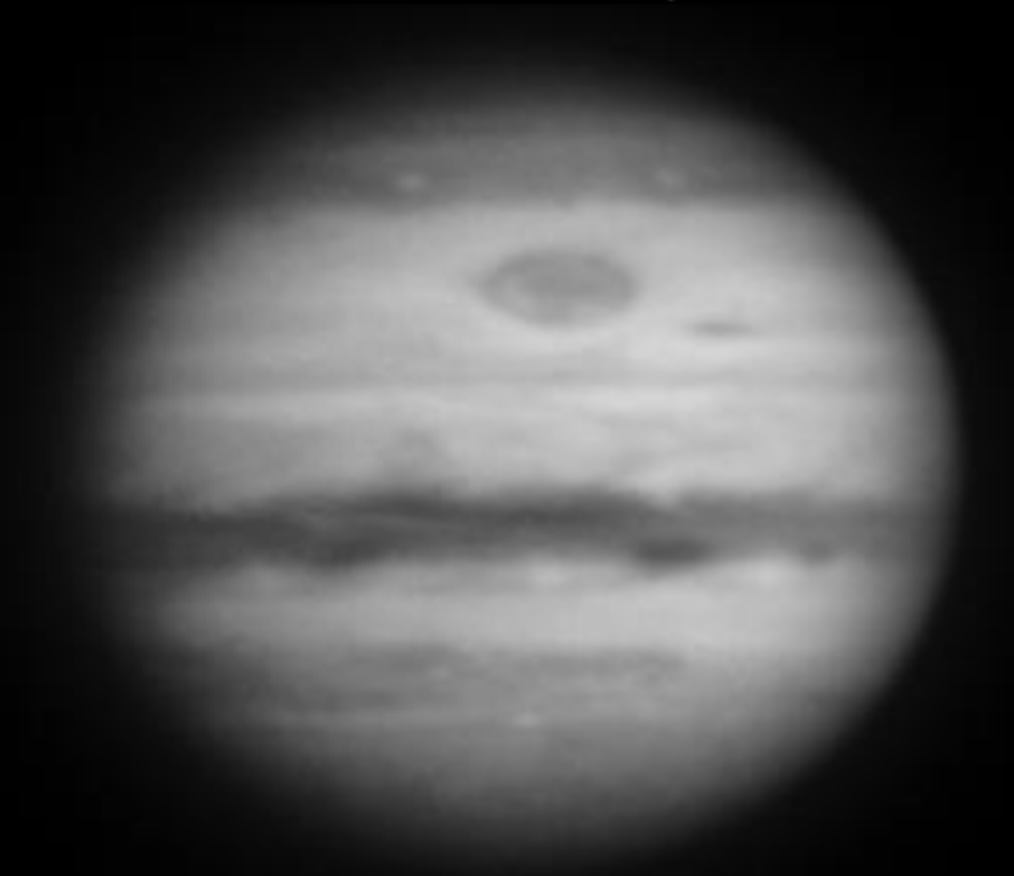
1983-07-24 I. Miyazaki



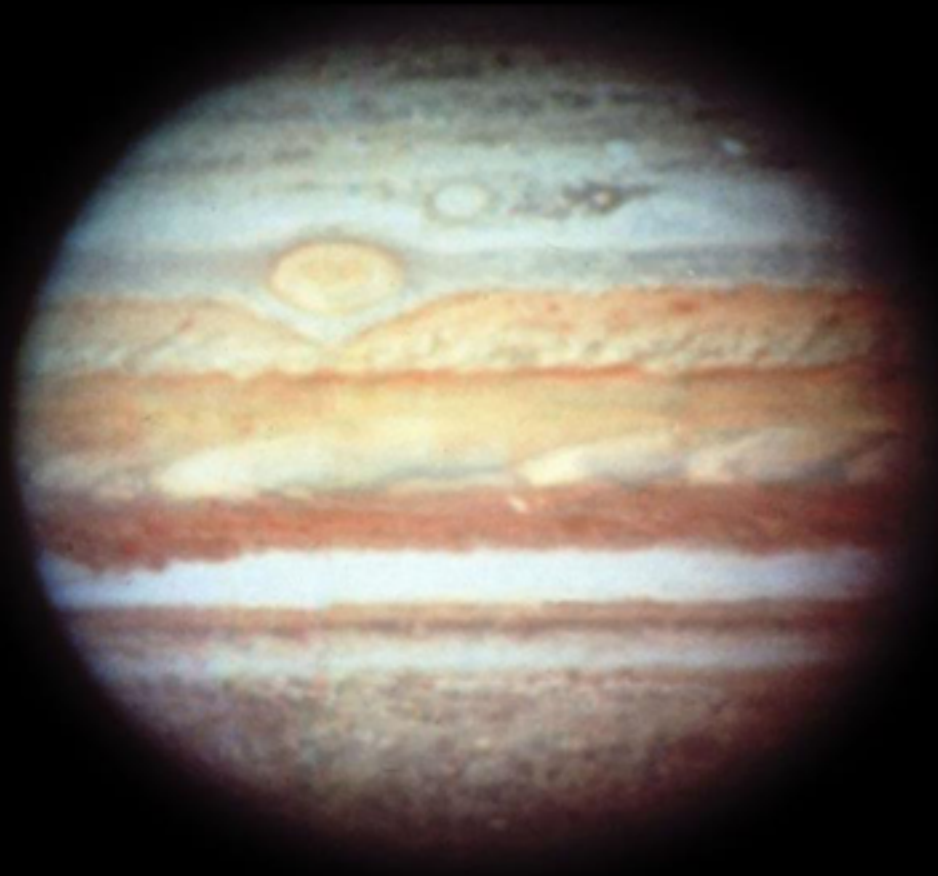
1985-05-25 I. Miyazaki



1989-09-28 I. Miyazaki



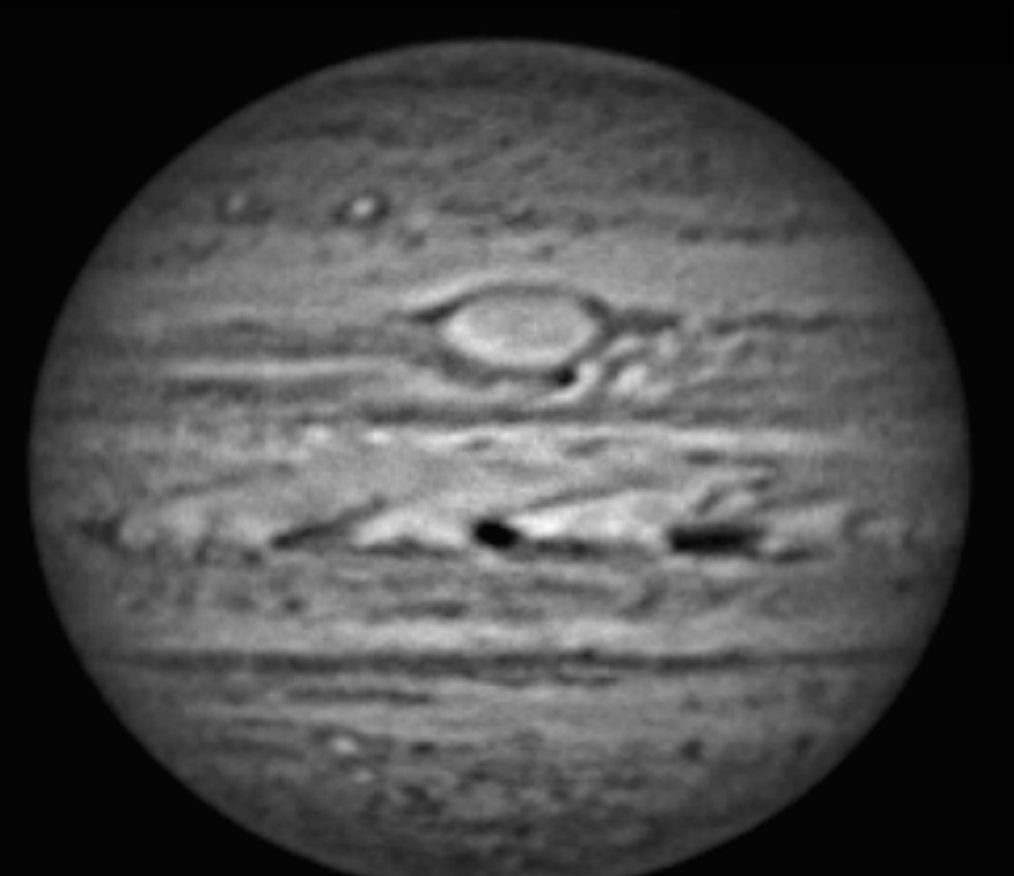
1991-10-11 HST



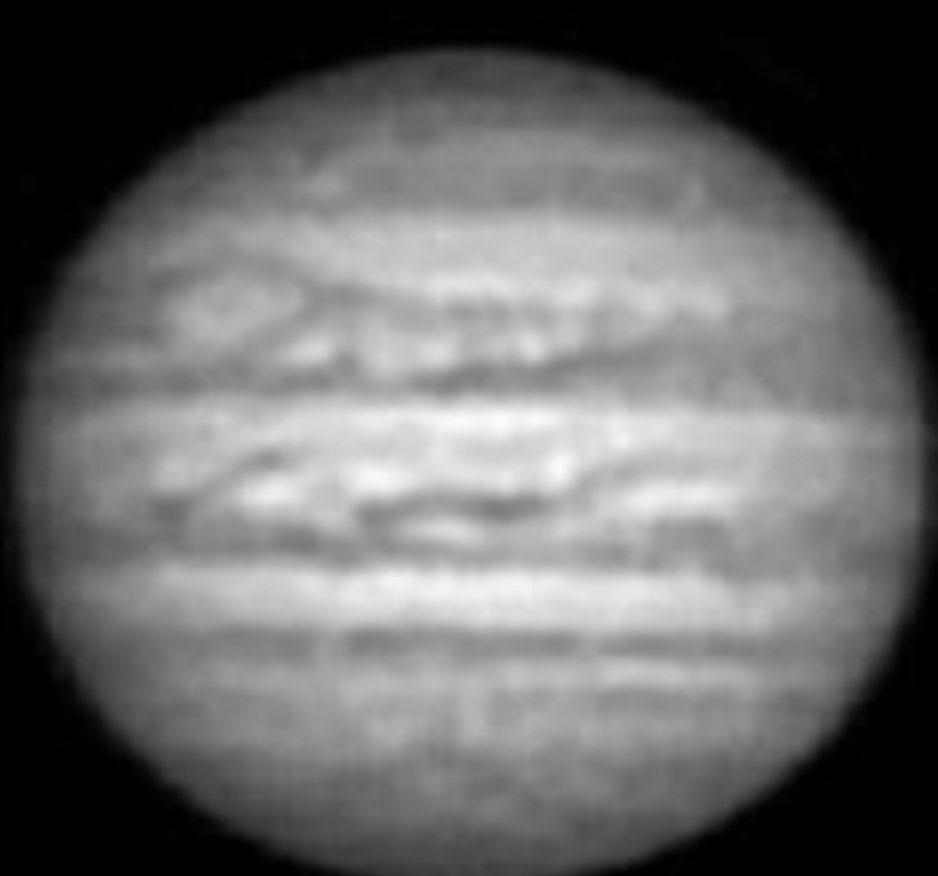
1992-05-04 D. Parker



1996-07-11 Pic du Midi



1998-08-27 D. Peach



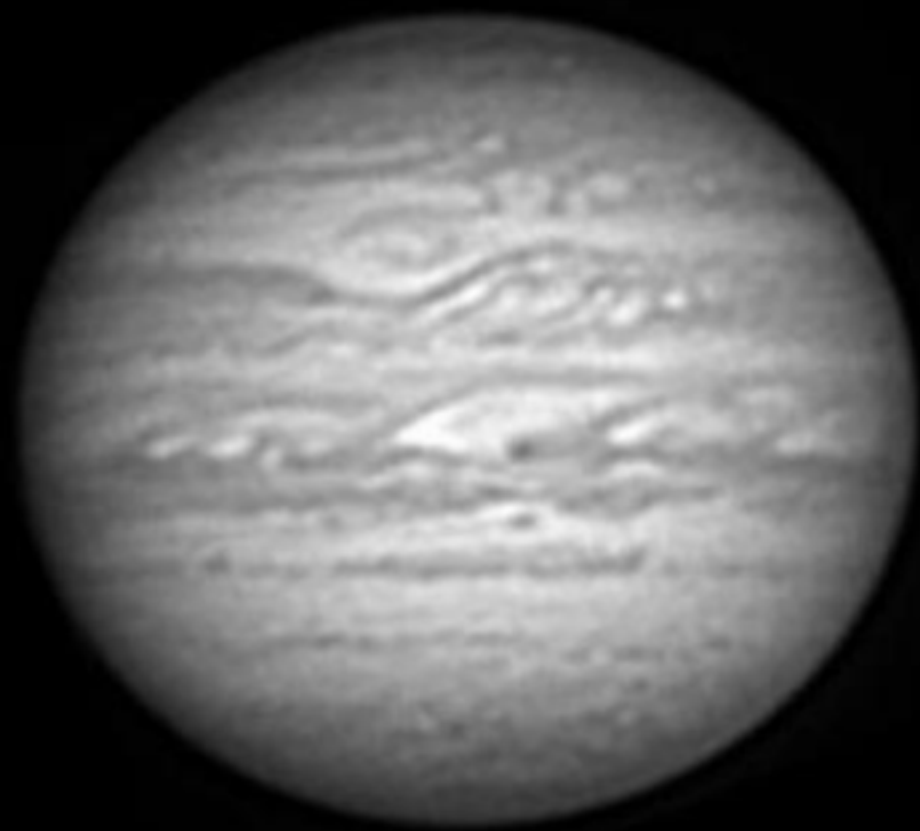


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1999-10-06 D. Peach

2000-12-07 Cassini

2001-02-14 D. Peach



2002-12-30 D. Parker

2003-03-01 D. Peach

2004-03-01 D. Peach



2005-04-25 D. Peach

2006-07-15 D. Parker

2007-08-23 C. Go



2008-09-01 C. Go

2009-11-14 C. Go

2010-09-12 D. Peach



2011-01-15 D. Peach

2012-09-07 D. Peach

2013-04-22 C. Go





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2014-04-28 C. Go

2015-01-24 T. Olivetti

2016-03-25 D. Peach



2017-05-30 C. Go

2018-01-26 C. Go

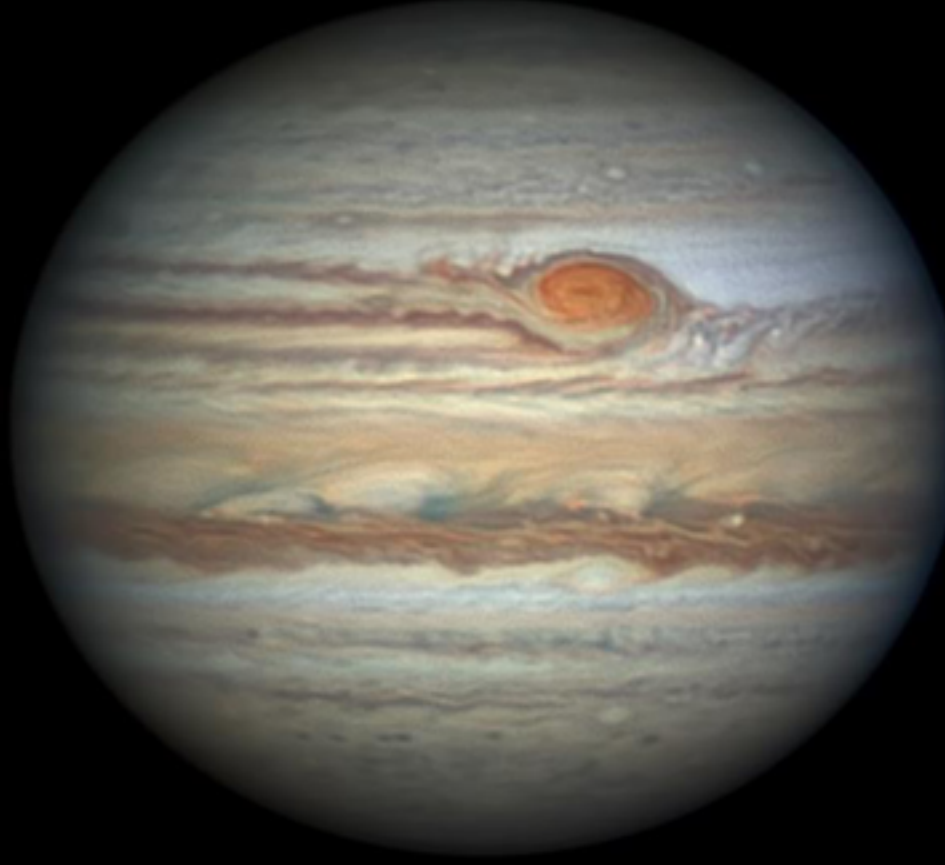
2018-04-11 T. Olivetti



2019-05-26 C. Go

2020-08-25 HST

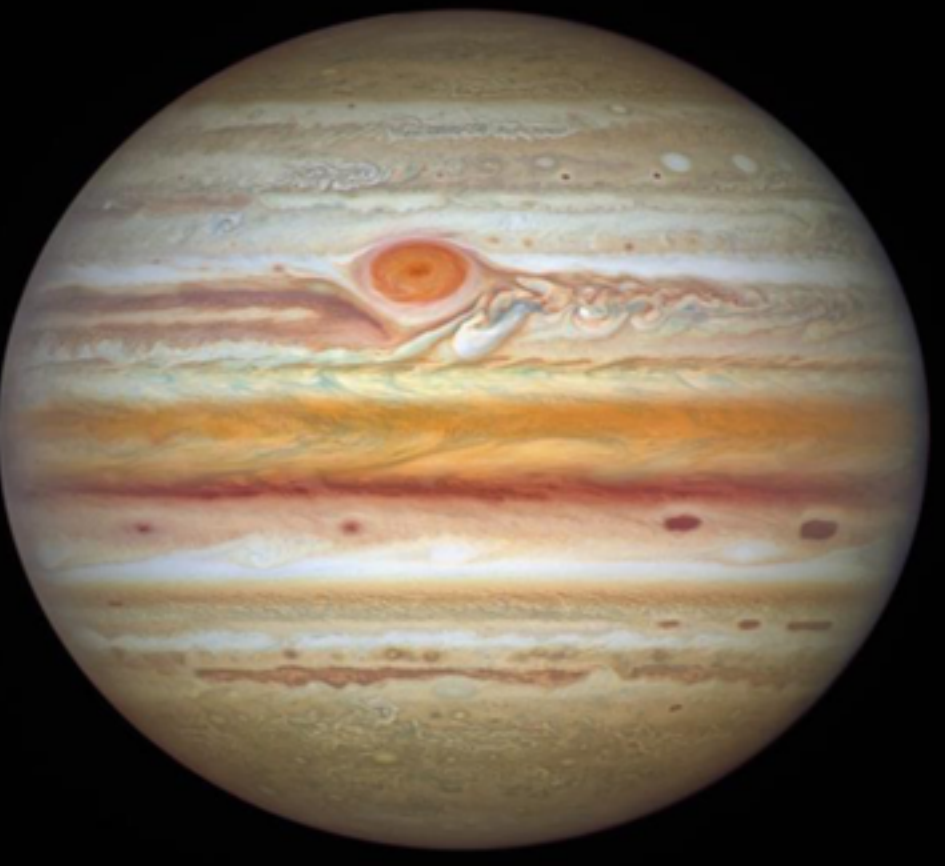
2021-06-26 T. Olivetti



2021-09-04 HST

2022-12-13 C. Go

2023-10-14 E. Sussenbach



2024-01-05 HST

2024-11-30 E. Sussenbach

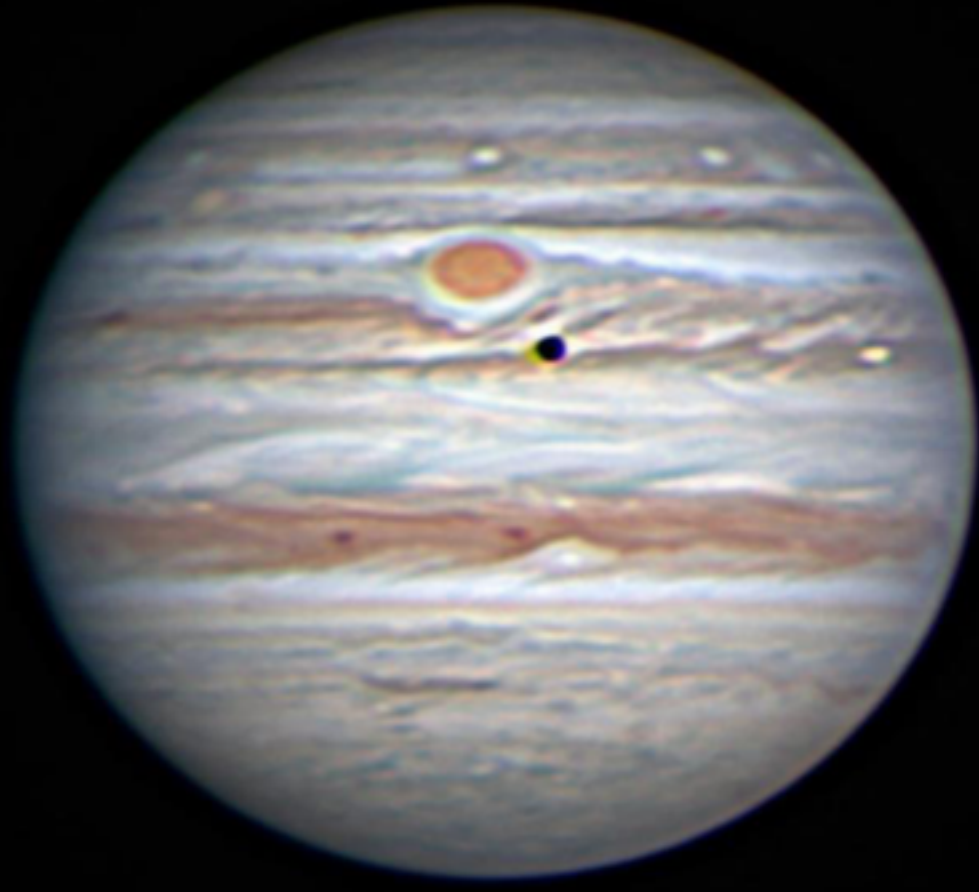
2025-02-26 D. Peach



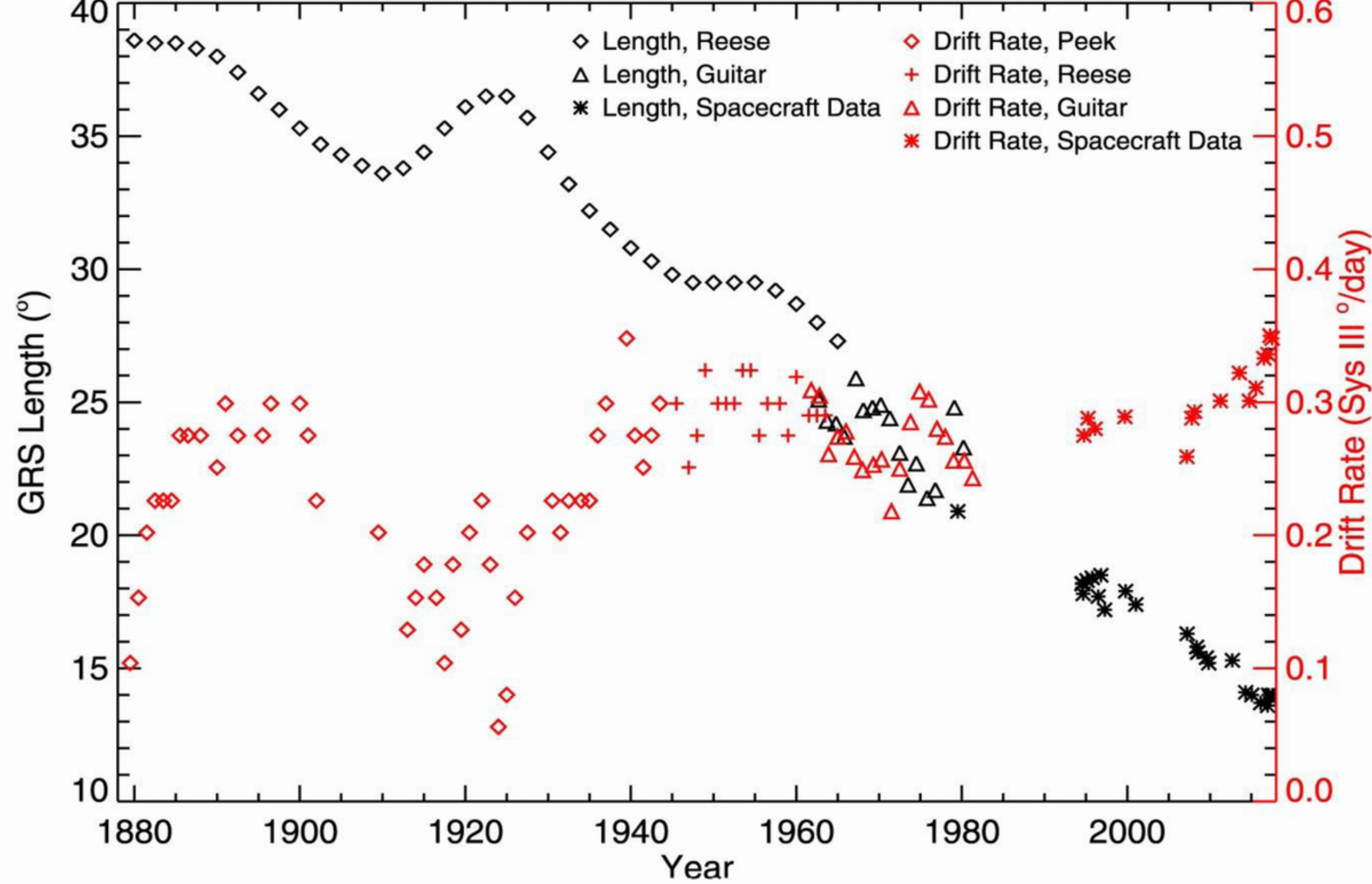


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2025-08-22 I. Miyazaki

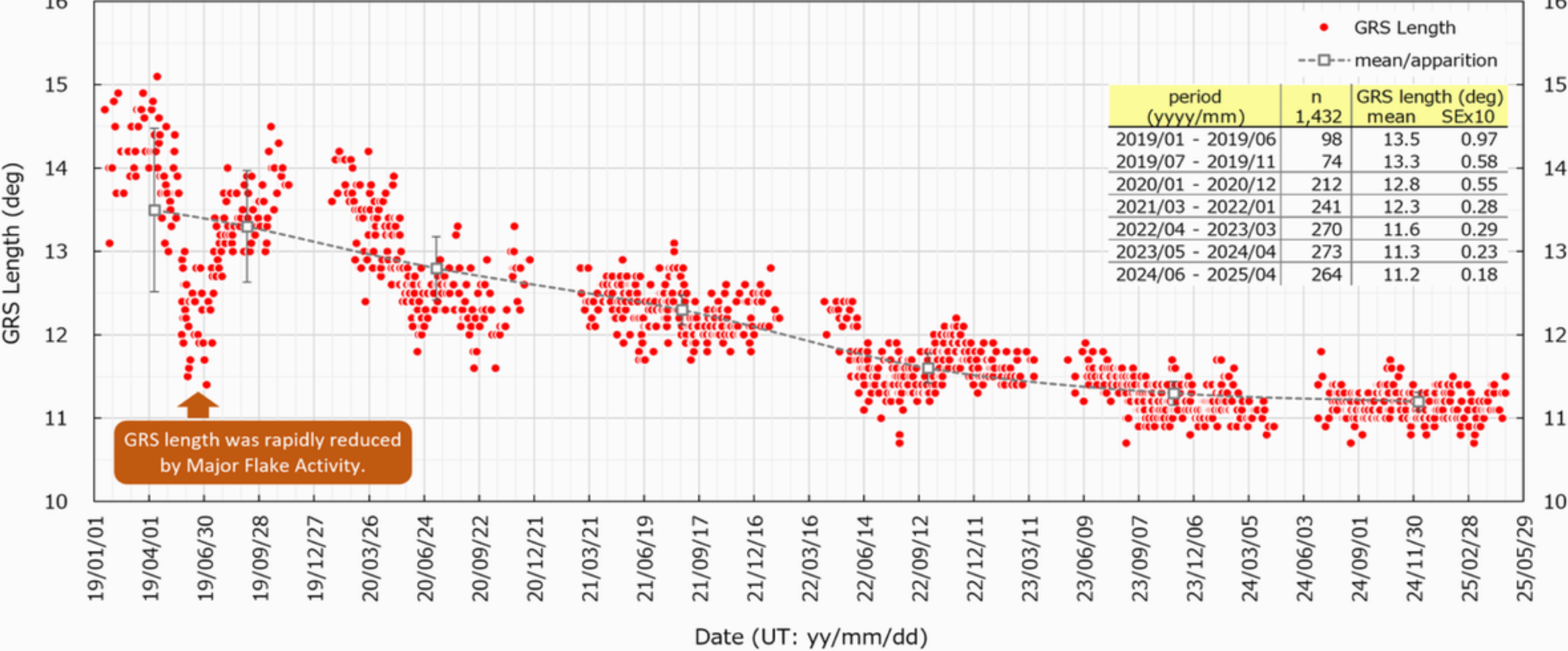


GRS Length and Drift Rate (1878-2017)



2025/06/16 Shinji Mizumoto

2019-2025 GRS Length



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