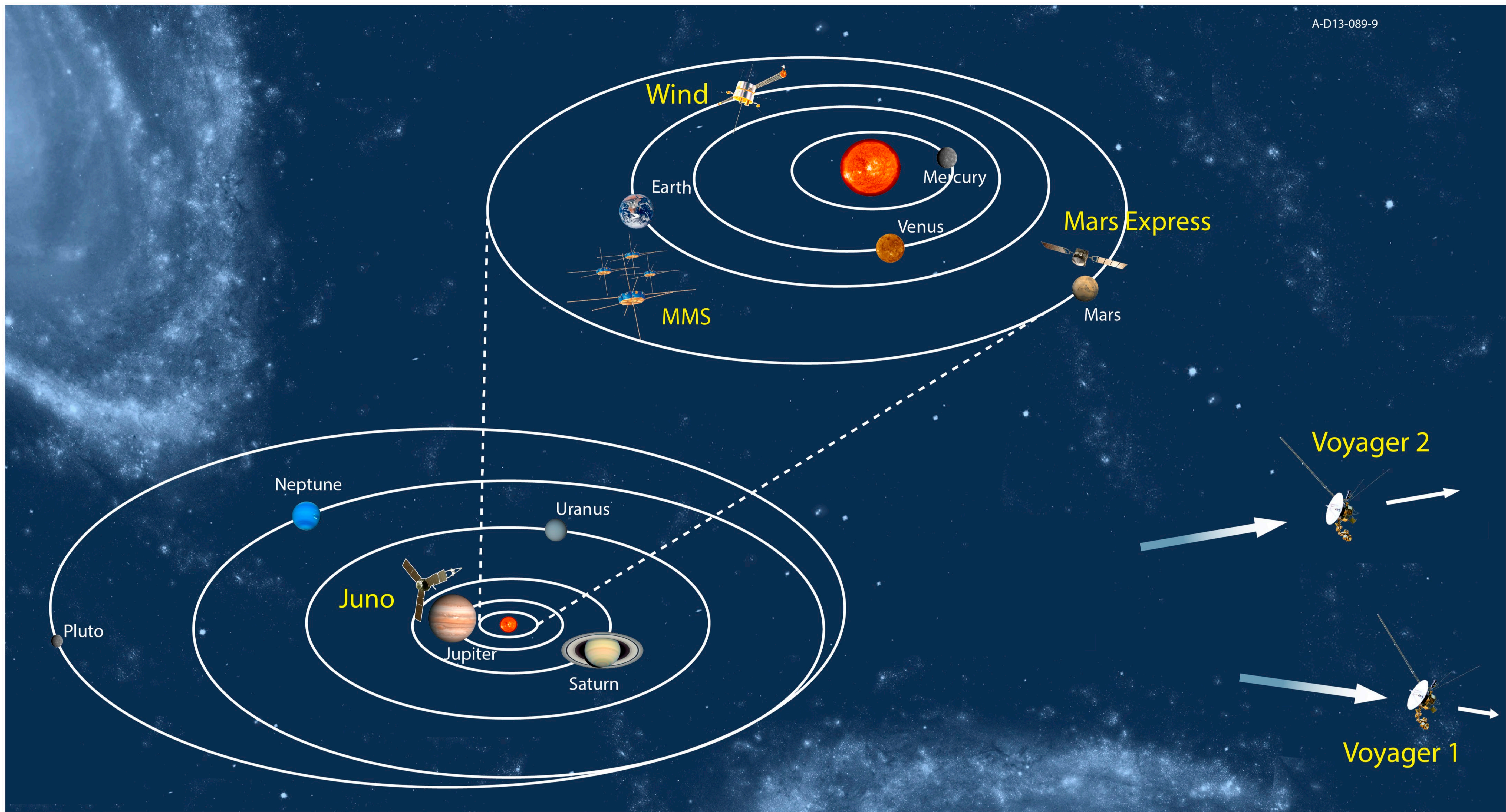


UNIVERSITY OF IOWA INSTRUMENTS IN SPACE

A-D13-089-9



Spaceflight instruments and rockets designed and built at the University of Iowa in the Department of Physics & Astronomy (1958-2025)

* Spacecraft carrying currently operating U. of Iowa instruments

Spacecraft	Launch Date (UT)	Spacecraft	Launch Date (UT)	Spacecraft	Launch Date (UT)
Explorer 1	1958 Feb. 1	Injun 5	1968 Aug. 8	Magnetospheric Multiscale Mission / 2 *	2015 Mar. 12
Explorer 2	(launch failure) 1958 Mar. 5	Explorer 41 (IMP-5)	1969 June 21	Magnetospheric Multiscale Mission / 3 *	2015 Mar. 12
Explorer 3	1958 Mar. 26	Explorer 43 (IMP- 6)	1971 Mar. 13	Magnetospheric Multiscale Mission / 4 *	2015 Mar. 12
Explorer 4	1958 July 26	Explorer 45 (SSS)	1971 Nov. 16	HERCI CubeSat (Fox-1D satellite)	2018 Jan. 12
Explorer 5	(launch failure) 1958 Aug. 24	UK 4 (Ariel-4)	1971 Dec. 11	HaloSat Cube Satellite	2018 May 21
Pioneer 1	1958 Oct. 11	Pioneer 10	1972 Mar. 2	TRACERS	2025
Pioneer 2	1958 Nov. 8	Explorer 47 (IMP-7)	1972 Sept. 23		
Pioneer 3	1958 Dec. 6	Pioneer 11	1973 Apr. 6		
Pioneer 4	1959 Mar. 3	Explorer 50 (IMP-8)	1973 Oct. 26		
Explorer 7	(launch failure) 1959 Jul. 16	Hawkeye 1	1974 June 3		
Explorer 7	1959 Oct. 13	Helios 1	1974 Dec. 10		
S-46	(launch failure) 1960 Mar. 23	Helios 2	1976 Jan. 15		
Injun 1	1961 June 29	Voyager 2 *	1977 Aug. 20		
Explorer 12	1961 Aug. 16	Voyager 1 *	1977 Sept. 5		
Ranger 1	(failed to reach orbit) 1961 Aug. 23	International Sun-Earth Explorer 1	1977 Oct. 22		
TRAAC	1961 Nov. 15	International Sun-Earth Explorer 2	1977 Oct. 22		
Ranger 2	(failed to reach orbit) 1961 Nov. 18	International Sun-Earth Explorer 3	1978 Aug. 12		
Injun 2	(launch failure) 1962 Jan. 24	Firewheel	(launch failure) 1980 May 25		
Discoverer 38	1962 Feb. 27	Dynamic Explorer 1	1981 Aug. 3		
Mariner 1	(launch failure) 1962 Jul. 22	Plasma Diagnostics Package (shuttle Columbia)	1982 Mar. 22		
Mariner 2	1962 Aug. 27	AMPTE / IRM	1984 Aug. 16		
Explorer 14	1962 Oct. 2	Plasma Diagnostics Package (shuttle Challenger)	1985 Jul. 29		
Explorer 15	1962 Oct. 27	Galileo	1989 Oct. 18		
Injun 3	1962 Dec. 12	CRRES	1990 July 25		
Relay 1	1962 Dec. 13	Geotail	1992 July 24		
P-11	1964 Aug. 14	Wind *	1994 Nov. 1		
OGO 1	1964 Sept. 5	Polar	1996 Feb. 24		
Mariner 3	(shroud failure) 1964 Nov. 5	Cluster 1 (4 spacecraft)	(launch failure) 1996 June 4		
Injun 4	1964 Nov. 21	Cassini	1997 Oct. 15		
Mariner 4	1964 Nov. 28	Cluster / Salsa (FM6)	2000 July 16		
OGO 2	1965 Oct. 14	Cluster / Samba (FM7)	2000 July 16		
OGO 3	1966 June 7	Cluster / Tango (FM8)	2000 Aug. 9		
Explorer 33 (IMP-D)	1966 July 1	Cluster / Rumba (FM5)	2000 Aug. 9		
Explorer 34 (IMP-4)	1967 May 24	Mars Express *	2003 June 2		
Mariner 5	1967 June 14	Juno *	2011 Aug. 5		
Explorer 35 (IMP-E)	1967 July 19	Van Allen Probe A	2012 Aug. 30		
OGO 4	1967 July 28	Van Allen Probe B	2012 Aug. 30		
OGO 5	1968 Mar. 4	Magnetospheric Multiscale Mission / 1 *	2015 Mar. 12		
				Experiments on Rockets	Launch Date
				Rockoons (109 launches) payloads and casings	1951-1957
				Javelin 8:45 experiment	1967 Sept. 21
				Javelin 8:46 experiment	1968 May 25
				Spear 1 pressure gauge	1987 Dec. 13
				Spear 3 pressure gauge	1993 Mar. 15
				Rocket Auroral Correlator Experiment	2002 Feb. 6
				High Bandwidth Auroral Rocket	2003 Jan. 28
				Correlations of High Frequencies & Auroral Roar Mission	2007 Feb. 28
				Twin Rockets to Investigate Cusp Electrodynamics Mission 1/A	2007 Dec. 10
				Twin Rockets to Investigate Cusp Electrodynamics Mission 1/B	2007 Dec. 10
				Auroral Current and Electrodynamics Structure Rocket (ACES)	2009 Jan. 29
				Black Brant IX Sounding Rocket/CyXESS Mission	2009 Nov. 13
				Correlations of High Frequencies & Auroral Roar Mission	2010 Feb. 17
				Off-Plane Grating Rocket for Extended Source Spectroscopy 1	2015 May 2
				Twin Rockets to Investigate Cusp Electrodynamics Mission 2/A	2018 Dec. 8
				Twin Rockets to Investigate Cusp Electrodynamics Mission 2/B	2018 Dec. 8
				Cusp Alfvén & Plasma Electrodynamics Rocket 2	2019 Jan. 4
				Investigation of Cusp Irregularities 5 (ICI-5) Mission	2019 Nov. 26
				VLF Trans-Ionospheric Propagation Exp. Rocket (VIPER) search coils	2021 May 26
				Loss through Auroral Microburst Pulsations (LAMP) instrument	2022 Mar. 5
				Auroral Current & Electrodynamics Structure (ACES) Rocket 2/A	2022 Nov. 20
				Auroral Current & Electrodynamics Structure (ACES) Rocket 2/B	2022 Nov. 20
				COUSIN - Study of small-scale auroral region energy deposition	2025
				Observing Cusp High-Altitude Reconnection & Electrodynamics (OCHRE)	2025-2026
				Investigation of Cusp Irregularities 5bis (ICI-5bis) Pathfinder	TBD (2025-2026)