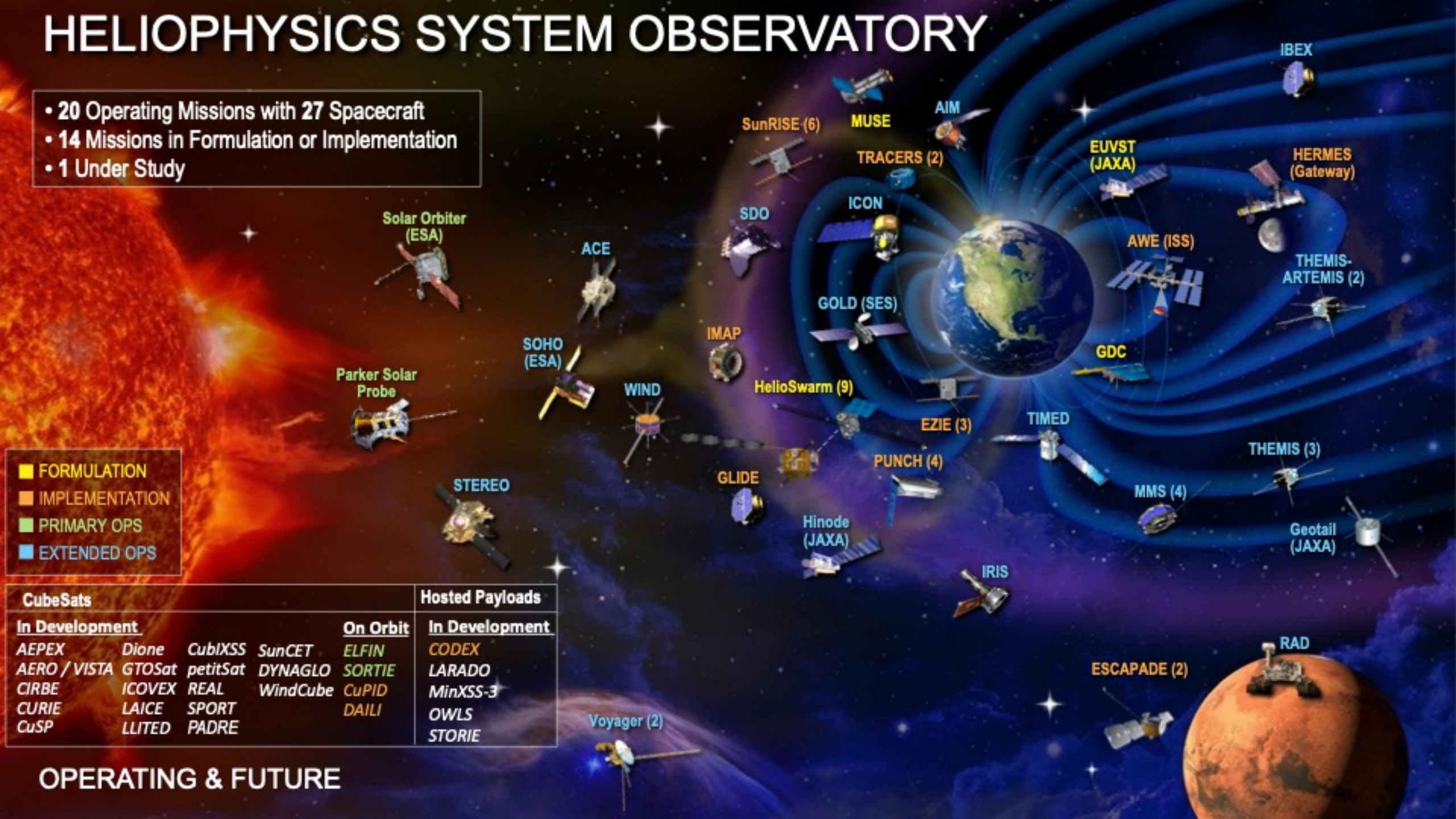


HELIOPHYSICS SYSTEM OBSERVATORY

- 20 Operating Missions with 27 Spacecraft
- 14 Missions in Formulation or Implementation
- 1 Under Study



■ FORMULATION
■ IMPLEMENTATION
■ PRIMARY OPS
■ EXTENDED OPS

CubeSats				Hosted Payloads	
In Development				On Orbit	In Development
AEPEX	Dione	CubIXSS	SunCET	ELFIN	CODEX
AERO / VISTA	GTOsat	petitSat	DYNAGLO	SORTIE	LARADO
CIRBE	ICOVEX	REAL	WindCube	CuPID	MinXSS-3
CURIE	LAICE	SPORT		DAILI	OWLS
CuSP	LLITED	PADRE			STORIE

OPERATING & FUTURE



Research

Highlights the newest mission data, utilizes the latest advances in modeling and machine learning, and develops the most innovative technological solutions.

Solar Terrestrial Probes (STP)

Addresses fundamental science questions about the very nature of space itself, and the flow of material and energy throughout the solar system— from the Sun to Earth to other planets to the interstellar boundary.

Explorers

Provides frequent flight opportunities for world-class scientific investigations from space utilizing innovative, streamlined and efficient management approaches within the heliophysics and astrophysics science areas.

Living With a Star (LWS)

Targets specific aspects of the Sun-Earth system that affect life and society: provides a predictive understanding of the Sun-Earth system, linkages among the interconnected systems, and, specifically, space weather conditions at Earth and the interplanetary medium.

Space Weather

Advances the science of space weather to empower a technological society safely thriving on Earth and expanding into space.

Technology

The Heliophysics Technology Program Office (HESTO) enables more focused, impactful, and innovative technology investments.

NASA Science Mission Directorate, Heliophysics Division

ROSES-2022 <https://nspires.nasaprs.com/>

National Aeronautics and
Space Administration



Status	Solicitation Title	Solicitation	Release Date	Close Date
Open	2023 Heliophysics Space Weather Vigil Focused Mission of Opportunity (VFMO)	NNH23ZDA020O	2023-06-22	2023-09-27
Open	B.10 Heliophysics Flight Opportunities Studies	NNH23ZDA001N-HFOS	2023-02-14	2023-08-31
Open	B.11 Heliophysics Flight Opportunities for Research and Technology: not solicited in ROSES-2023	NNH23ZDA001N-HFORT	2023-02-14	
Open	B.12 Heliophysics Data Environment Enhancements: not solicited in ROSES-2023	NNH23ZDA001N-HDEE	2023-02-14	
Open	B.13 Heliophysics U.S. Participating Investigator: not solicited in ROSES-2023	NNH23ZDA001N-HUSPI	2023-02-14	
Open	B.14 Heliophysics Early Career Investigator Program: not solicited in ROSES-2023	NNH23ZDA001N-ECIP	2023-02-14	
Open	B.15 Heliophysics Innovation in Technology and Science	NNH23ZDA001N-HITS	2023-02-14	2024-03-29
Open	B.16 Heliophysics Artificial Intelligence/Machine Learning-Ready Data	NNH23ZDA001N-HARD	2023-02-14	2024-01-18
Open	B.19 Heliophysics Living with a Star Infrastructure: not solicited in ROSES-2023	NNH23ZDA001N-HLWSIS	2023-02-14	
Open	B.21 Heliophysics Citizen Science Investigations: due dates TBD	NNH23ZDA001N-HCSI	2023-02-14	2024-02-14
Open	B.3 Heliophysics Theory, Modeling and Simulations: not solicited in ROSES-2023	NNH23ZDA001N-HTMS	2023-02-14	
Open	B.4 Heliophysics Guest Investigators - Open	NNH23ZDA001N-HGIO	2023-02-14	Step 2 2023-08-09
Open	B.8 Heliophysics Technology and Instrument Development for Science	NNH23ZDA001N-HTIDS	2023-02-14	2023-08-29
Open	B.9 Heliophysics Low Cost Access to Space: due dates TBD	NNH23ZDA001N-HLCAS	2023-02-14	2024-02-14
Closed	B.2 Heliophysics Supporting Research	NNH23ZDA001N-HSR	2023-02-14	Closed 2023-06-23
Closed	B.20 Heliophysics Tools and Methods	NNH23ZDA001N-HTM	2023-02-14	Closed 2023-05-31

RECENT AND UPCOMING LAUNCHES

CuSP Launch Artemis-1 SLS	11/16/22
petitSat Launch SpX 26	11/26/22
SPORT Launch SpX-26	11/26/22
SPORT Deployment from ISS	12/29/22
petitSat Deployment from ISS	12/29/22
LLITED Launch Transporter-7	4/15/23
CIRBE Launch Transporter-7	4/15/23
REAL Launch VCLS Demo-2 ELaNa 43 Firefly	10/16/23 NET
AEPEX Launch Firefly 1Q 2024	1/24/24 NET
CURIE Launch Ariane-6 Launch	4/1/24 NET
Dione Launch	5/TBD/24
CODEX Launch SpaceX 31	6/TBD/24
OWLS Launch hosted on InspireSat-3 on PSLV	7/1/24