

National Aeronautics and
Space Administration



EXPLORE EARTH

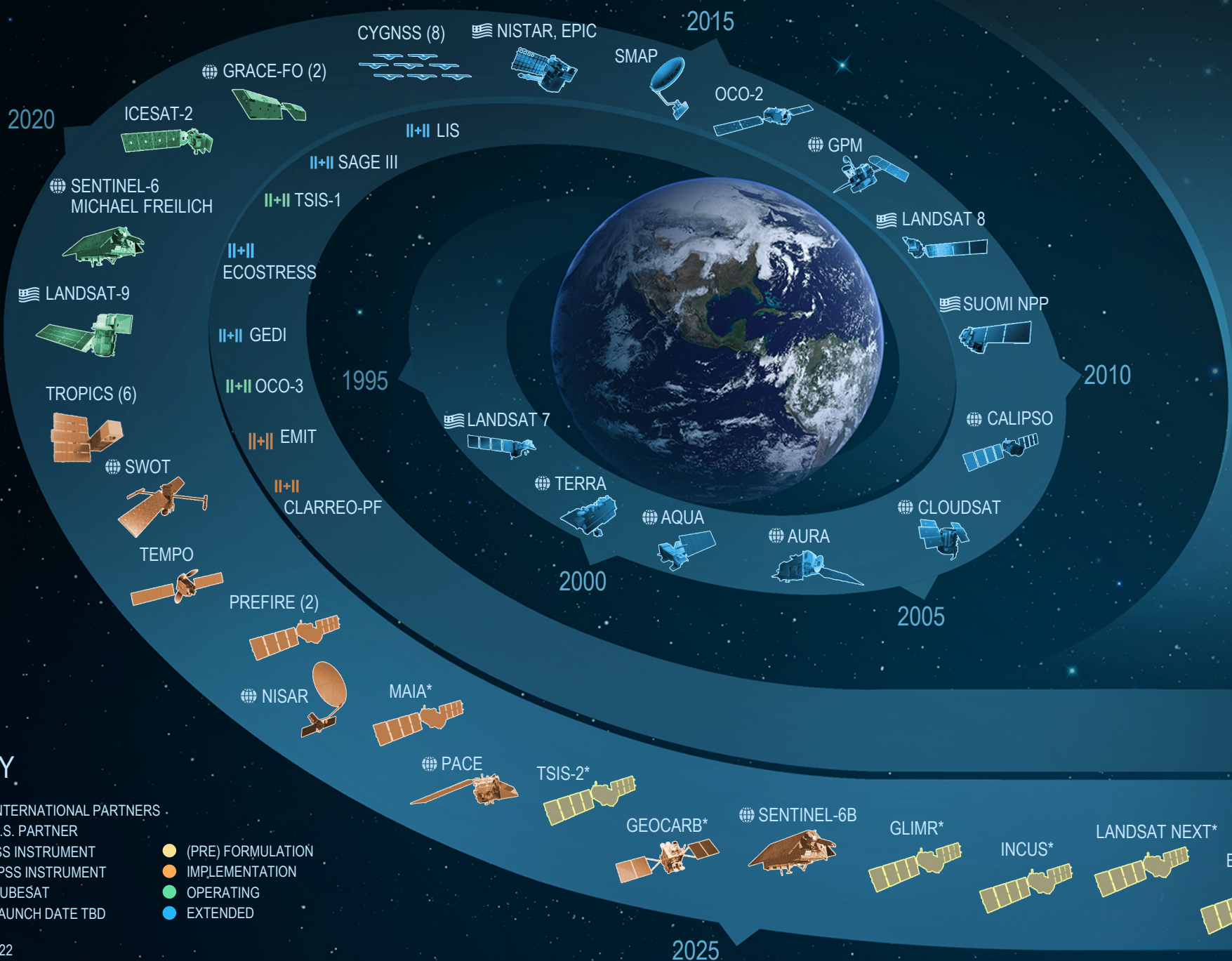
NASA Satellite Overview 4th Asian-Pacific Water Summit

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EARTH FLEET



INVEST/CUBESATS

- CSIM-FD 2023
- HARP 2022
- CIRIS 2023
- CTIM* 2022
- HYTI* 2022
- SNOOPI* 2022
- NACHOS 2022
- NACHOS2* 2022

JPSS INSTRUMENTS

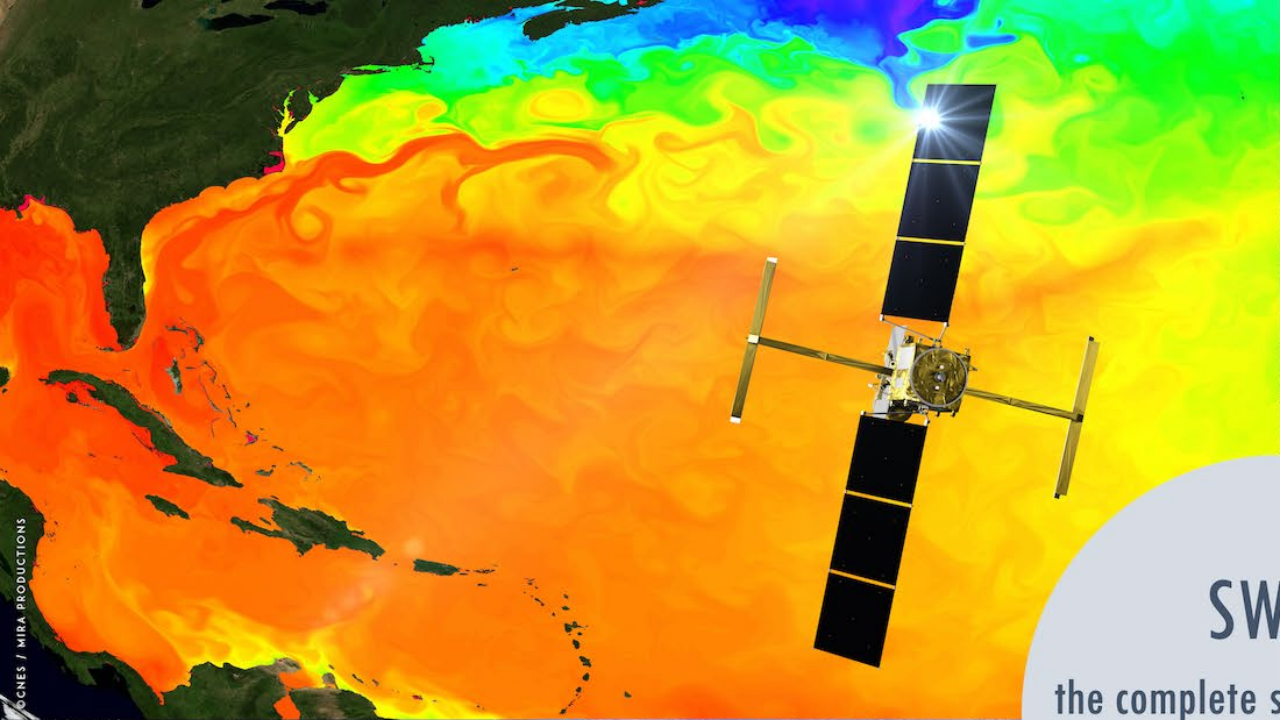
- OMPS-LIMB 2022
- LIBERA 2027

ISS INSTRUMENTS

MISSIONS

KEY

- INTERNATIONAL PARTNERS
- U.S. PARTNER
- ISS INSTRUMENT
- JPSS INSTRUMENT
- CUBESAT
- LAUNCH DATE TBD
- (PRE) FORMULATION
- IMPLEMENTATION
- OPERATING
- EXTENDED



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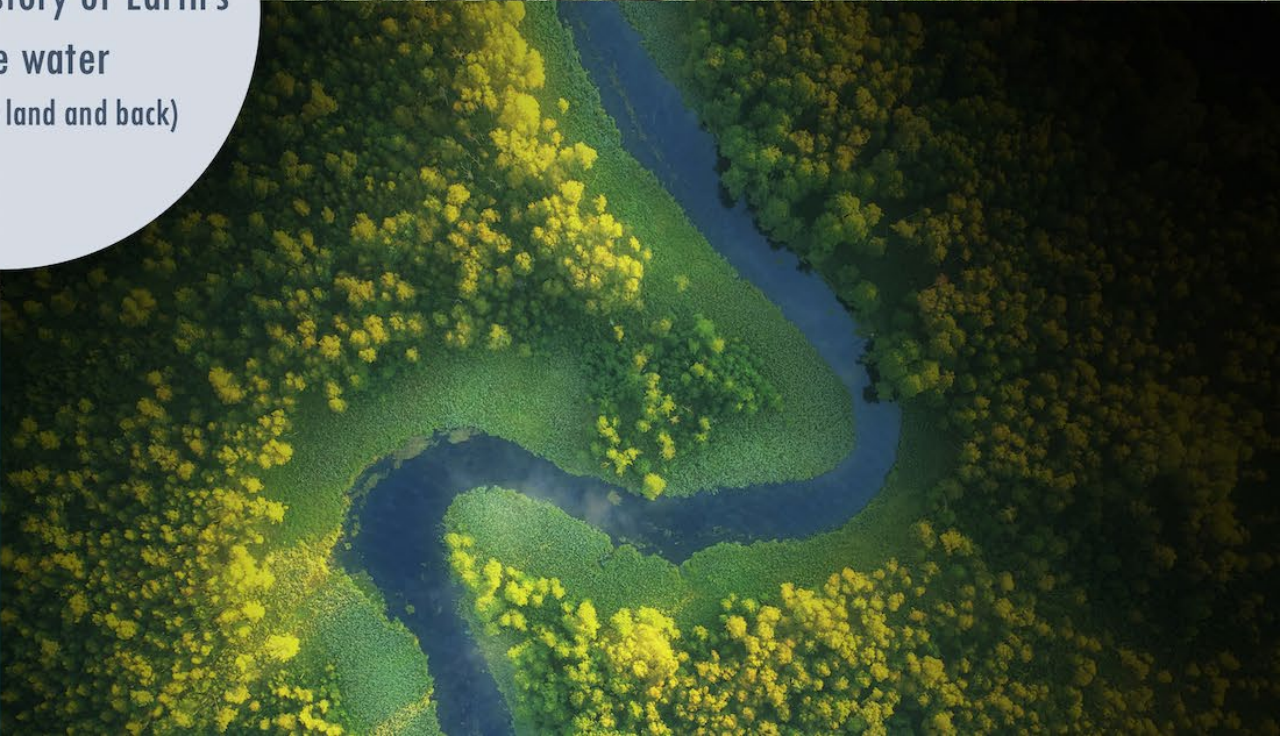


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SWOT
the complete story of Earth's
surface water
(from ocean to land and back)



EARTH SYSTEM OBSERVATORY

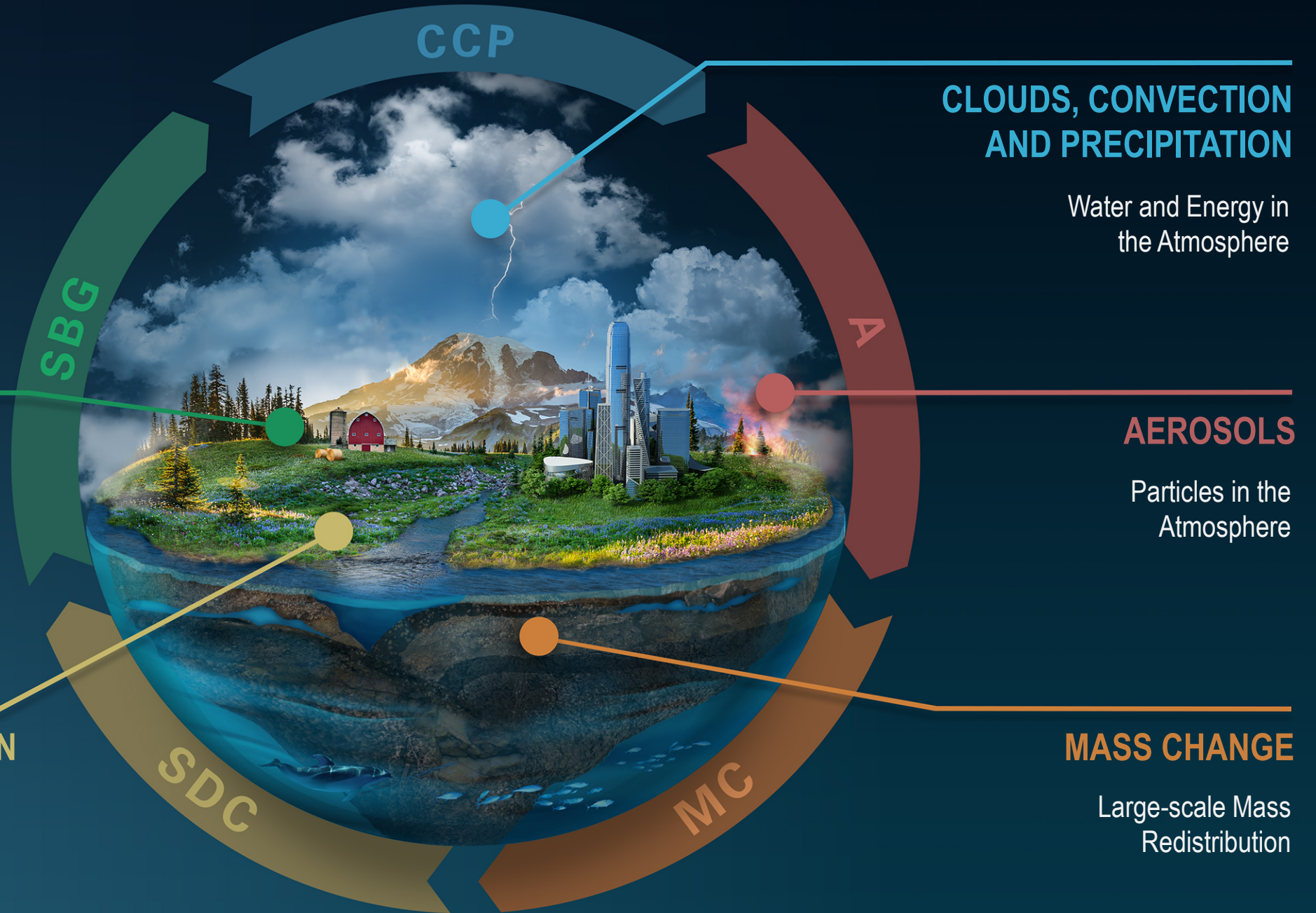
INTERCONNECTED CORE MISSIONS

SURFACE BIOLOGY AND GEOLOGY

Earth Surface & Ecosystems

SURFACE DEFORMATION AND CHANGE

Earth Surface Dynamics



CLOUDS, CONVECTION AND PRECIPITATION

Water and Energy in the Atmosphere

AEROSOLS

Particles in the Atmosphere

MASS CHANGE

Large-scale Mass Redistribution

Proposed Atmosphere Observing System (AOS)

**EARTH
SYSTEM
OBSERVATORY**



Transformational Science

1. Global Observations of In-Cloud Vertical Motion (via JAXA and NASA radars)
2. Global Profiles of Aerosol Properties
3. Co-Located Dynamics, Microphysics and Aerosol Characteristics with Indirect Measurement of Broadband Radiation
4. Evolution of Cloud and Aerosol Processes (via CNES Microwave Radiometers)
5. Diurnal Cycle of Thin Cloud and Aerosol Profiles