

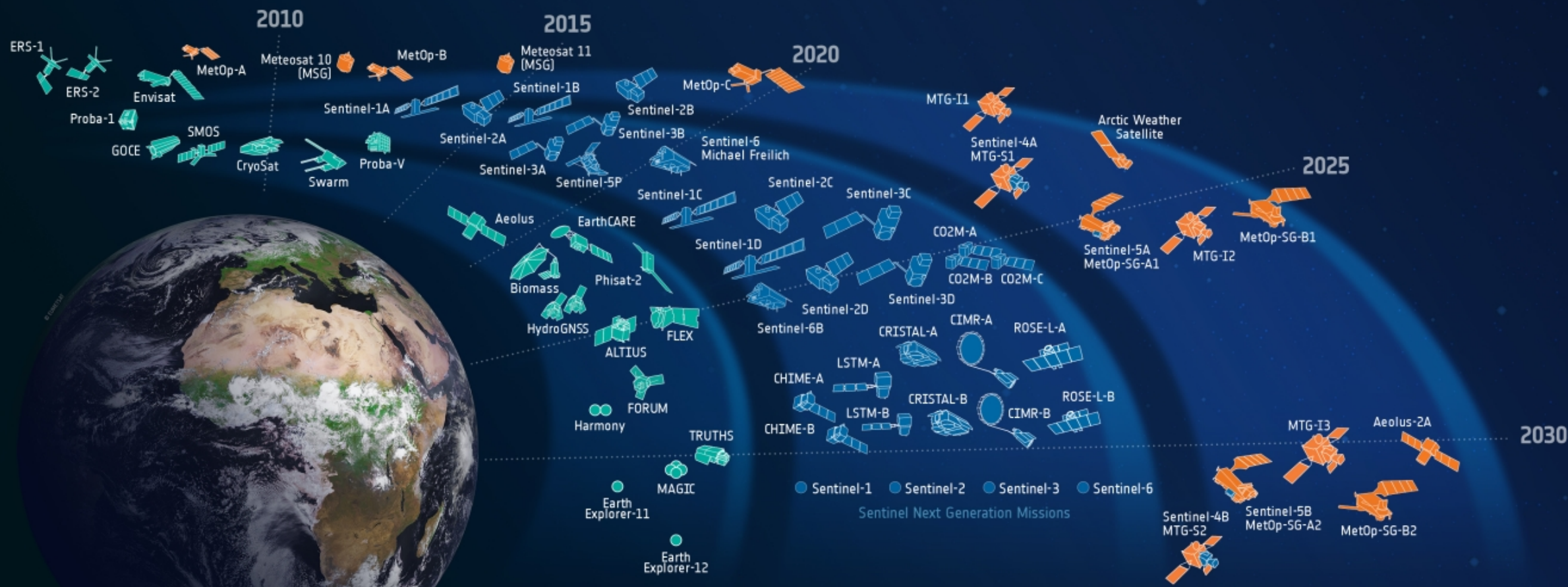
European Space Agency

Updates since CGMS-51 and report on the medium to long-term future plans in Earth Observation

Coordination Group for Meteorological Satellites
52nd Plenary session
Washington DC, USA
4 – 6 June 2024

Marie-Claire Greening
Programme Coordinator
Strategy, Programme and Coordination Office
Directorate of Earth Observation Programmes
European Space Agency

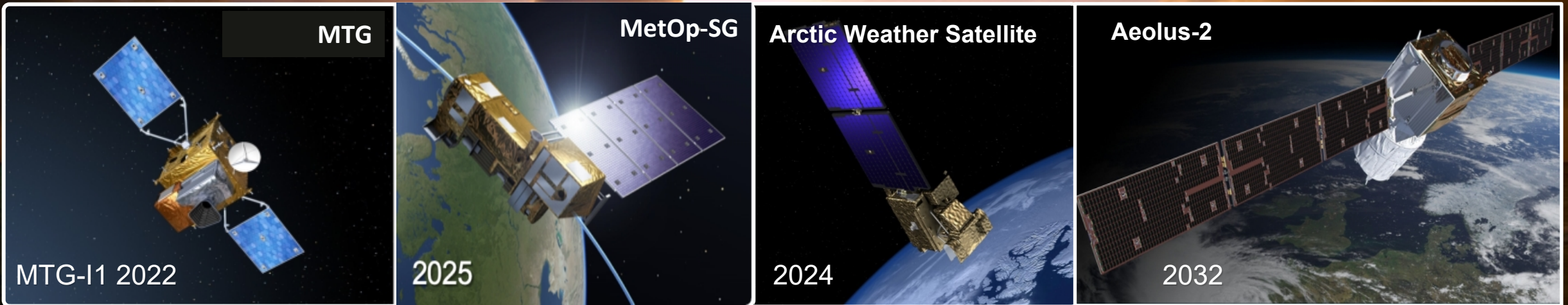
ESA's Earth Observation Missions



Backbone Meteorological Missions



Current Systems



Next Generation Systems



The Copernicus Space Component – Sentinels



PROGRAMME OF THE
EUROPEAN UNION



Copernicus is the largest producer of EO data in the world

Sentinel Expansion Missions



- CO2M - Anthropogenic CO₂ Monitoring**
 Causes of Climate Change
- CRISTAL – Polar Ice & Snow Topography**
 Effects of Climate Change
- CIMR – Passive Microwave Radiometer**
 Sea: Surface Temp. & Ice Concentration
- LST – Land Surface Temperature Mission**
 Agriculture & Urban Management
- CHIME – Hyperspectral Imaging Mission**
 Food Security, Soil, Minerals, Biodiversity
- ROSE-L – L-band SAR Mission**
 Vegetation & Ground Motion & Moisture



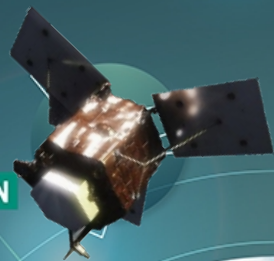
Earth Explorers



forum

ESA'S THERMAL RADIATION MISSION

2027



goce

ESA'S GRAVITY MISSION

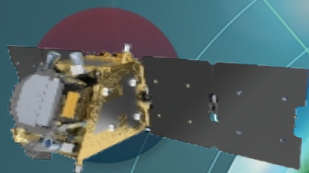
2009-2013



flex

ESA'S PHOTOSYNTHESIS MISSION

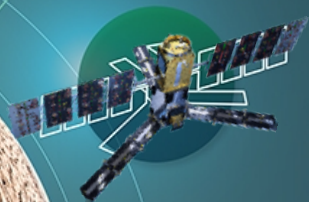
2026



smos

ESA'S WATER MISSION

2009-present



harmon

ESA'S EARTH SYSTEM MODELING MISSION

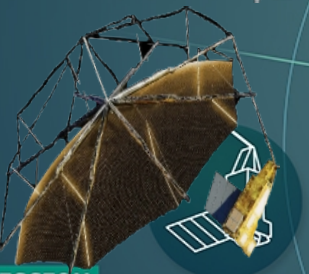
Proposed 2029



biomass

ESA'S FOREST MISSION

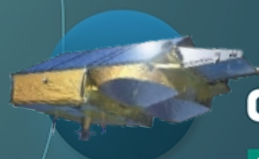
2025



cryosat

ESA'S ICE MISSION

2010-present



EE-11

WIVERN CAIRT

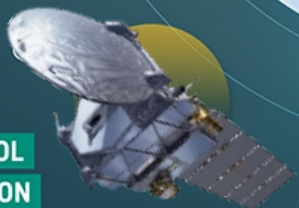
Proposed 2032-33



earthcare

ESA'S CLOUD, AEROSOL & RADIATION MISSION

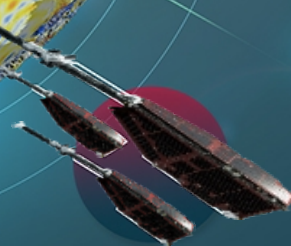
2024



swarm

ESA'S MAGNETIC FIELD MISSION

2013-present



EE-12

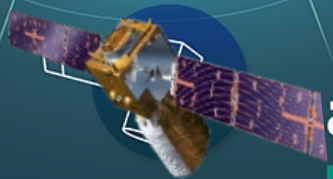
MISSION IDEAS UNDER EVALUATION



aeolus

ESA'S WIND MISSION

2018-2023



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