

Key Outcomes of the 7th CGMS Risk Assessment

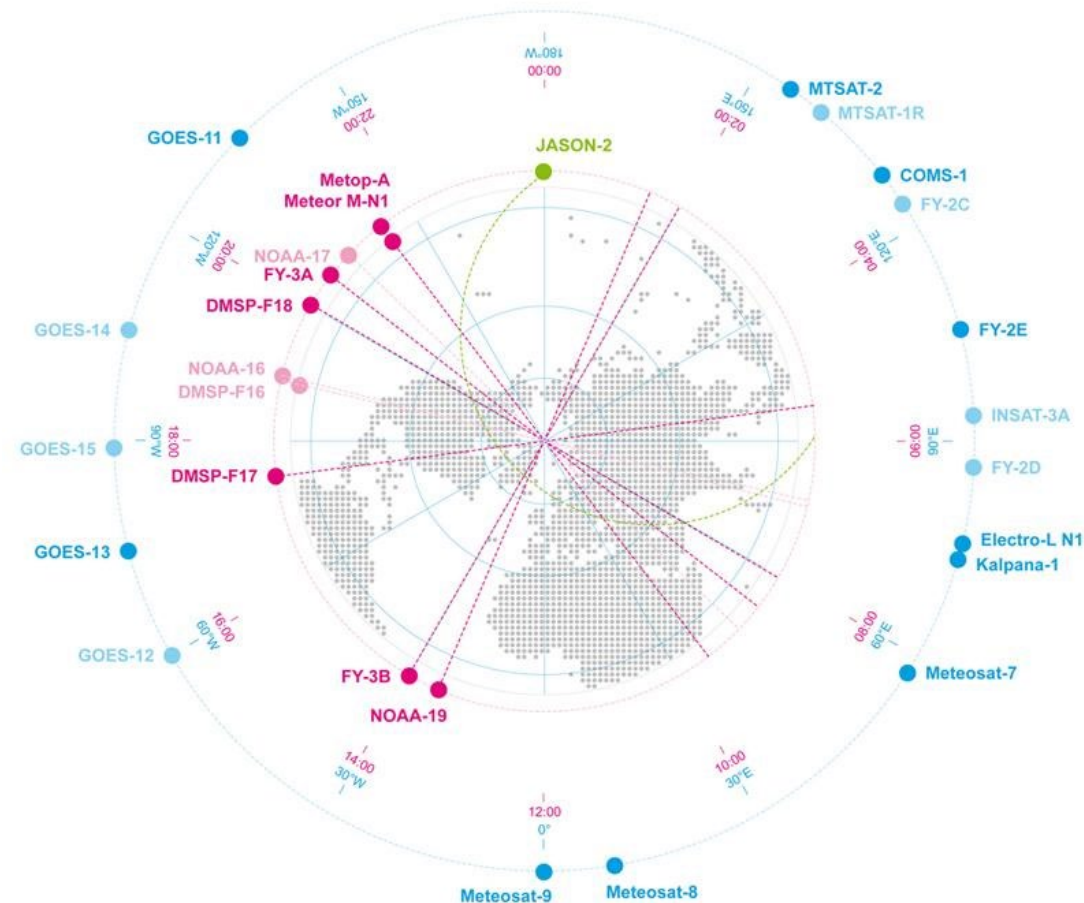
For Presentation to CGMS-53 Plenary

The CGMS Baseline:

- *Enumerates the sustained observations, measurements, and services* that form the CGMS contribution to observing the Earth System, Space Environment and the Sun, and responds to end-user requirements expressed in **WMO's Rolling Review of Requirements (RRR)**.
- Constitutes the **CGMS response to the WMO Integrated Global Observing System (WIGOS) 2040 vision** to document what missions are currently being, or planned on being flown.

Key Principles of the CGMS Baseline:

- *Commitment*: The CGMS Members are providing, or have firm plans to provide, the observations, measurements, and services
- *Sustained*: The observations, measurements, and services are provided on a sustained basis
- *Available*: The observations, measurements, and services are available on a free and open basis
- *Operational*: The data and products can be utilized in operational applications



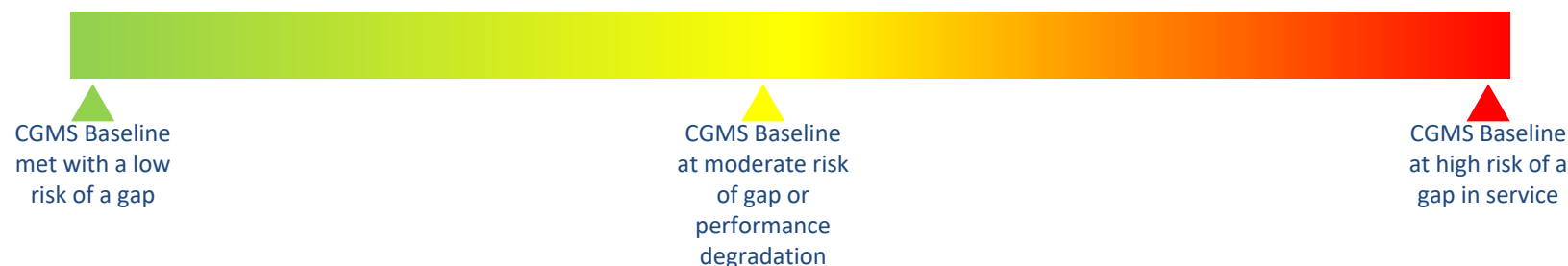


CGMS Risk Assessment

- ***CGMS conducts an annual risk assessment against the CGMS baseline*** to track how well CGMS is meeting its commitments.
- The top-level risk assessment for each sensor/observation is based on a qualitative analysis of all the orbits and satellite missions from which the observation is provided.
 - This assessment is given from a CGMS Member prospective and may not:
 - Include contributions from non-CGMS agencies
 - Include contributions from commercial providers
 - Incorporate all WMO requirements (which are covered by the gap analysis).
 - The assessment is based on planned launch dates, design life, and updated by operational experience.
 - System resiliency, nor the consequence of not meeting commitments was not specifically addressed.
 - Quality and availability were not analyzed in detail for all measurements.
 - Agency commitment to mission assumes related user readiness and ground segment operationalization.
 - Member owned and operated payloads hosted on commercial platforms are included when launch dates are determined, and members may provide commercially sourced data to meet commitments to the Baseline, with the understanding that they commit to the provision of such data consistent with the Baseline principles.

CGMS Risk Assessment Assumptions

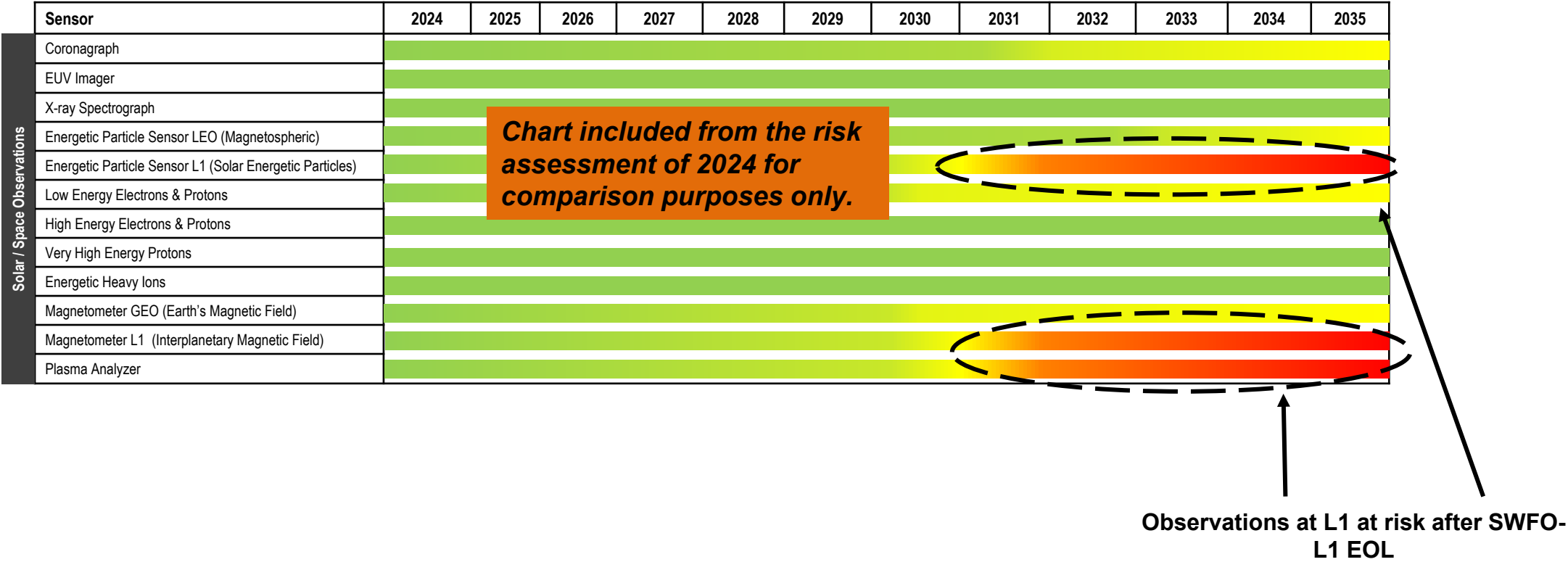
- CGMS Risk Assessment uses **Green**, **Yellow**, and **Red** to graphically represent the overall status of that sensor/observation. The criteria for each colour is as follows:
 - **Green:** CGMS Baseline met with a low risk of a gap.
 - **Yellow:** The CGMS Baseline is at moderate risk of not being fully met. Some mitigation by CGMS Members may be required.
 - **Red:** There is a high risk of not meeting the CGMS Baseline without CGMS Member action
 - **No Colour:** Observation is not planned to be available until a later date



Top-Level Risk Assessment - Earth Observations (2024)



Top-Level Risk Assessment - Solar/Space Observations (2024)



Top-Level Risk Assessment - Earth Observations (2025)





Top-Level Risk Assessment - Solar/Space Observations (2025)

Sensor		2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	2035
Solar / Space Observations	Coronagraph												
	EUV Imager												
	X-ray Spectrograph												
	Energetic Particle Sensor LEO (Magnetospheric)												
	Energetic Particle Sensor L1 (Solar Energetic Particles)												
	Low Energy Electrons & Protons												
	High Energy Electrons & Protons												
	Very High Energy Protons												
	Energetic Heavy Ions												
	Magnetometer GEO (Earth's Magnetic Field)												
	Magnetometer L1 (Interplanetary Magnetic Field)												
	Plasma Analyzer												



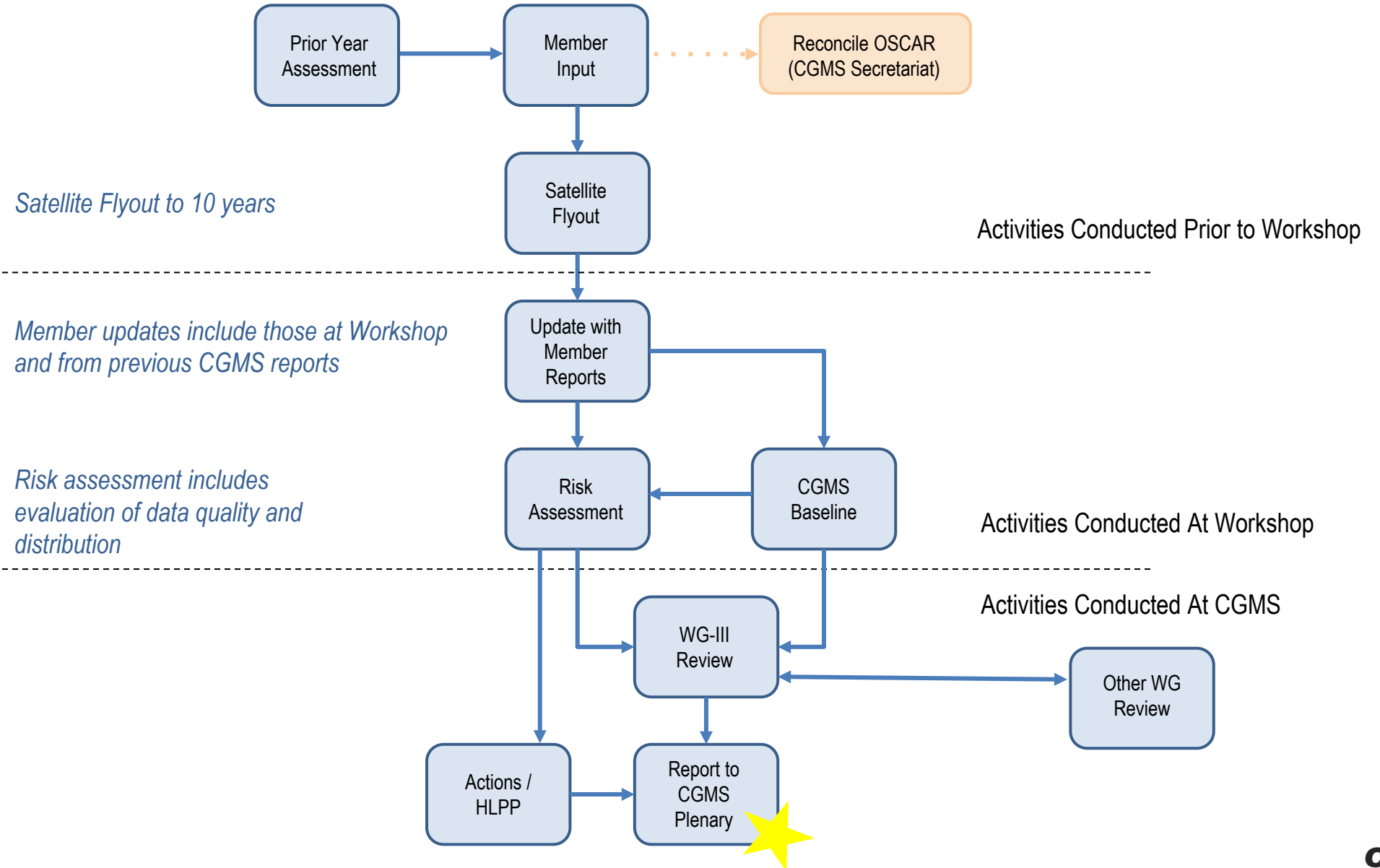
Thank you!



BACKUP

Full Risk Assessment

CGMS Baseline Update / Risk Assessment Process



CGMS Risk Assessment Assumptions

- The top-level risk assessment for each sensor/observation is based on a qualitative analysis of all the orbits and satellite missions from which the observation is provided.
- This assessment is given from a CGMS Member prospective and may not:
 - Include contributions from non-CGMS agencies
 - Include contributions from commercial providers
 - Incorporate all WMO requirements (which are covered by the gap analysis).
- CGMS Members will develop and operate satellites in response to their national priorities.
- System resiliency, nor the consequence of not meeting commitments was not specifically addressed.
- Lack of a satellite in geostationary orbit is more likely to cause a gap in observations, while a lack of a satellite in low-Earth orbit may only degrade system performance.
- Quality and availability were not analyzed in detail for all measurements.
- The assessment is based on planned launch dates, design life, and is updated by operational experience.
- Agency commitment to mission assumes related user readiness and ground segment operationalization.

CGMS Risk Assessment Assumptions

- The information and assessment are based on member organizations and WGIII participants, direct input from CGMS Members, and the OSCAR Database as updated by WMO.
- The assessment is a qualitative assessment done by Risk Assessment Workshop participants.
- There is uncertainty in planned launch dates, satellite lifetimes (e.g., satellites often operate beyond their design life), operational readiness, and on-orbit health – all of which impact the risk assessment and ultimately the users.
- Member owned and operated payloads hosted on commercial platforms are included when launch dates are determined

Note: The detailed charts are by calendar year. As such, if a mission launches in June, it will appear for the full calendar year, or if it's EOL is June, it will also still appear to go through the end of the calendar year.

Updates - 2025

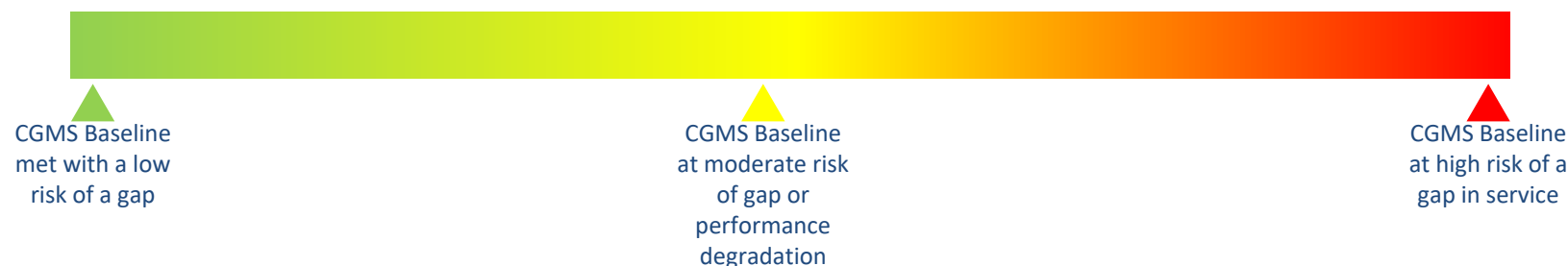
- Updates to mission data were received January-February, and reviewed at the 7th RAW, 25-27 February 2025
- Each flyout chart has been updated with the new launch and EOL information:
 - FY-4D EOL moved to 2034
 - FY-4E EOL moved to 2035
 - FY-4F launch moved to 2029
 - HY-2B EOL moved to 2025
 - Sentinel mission EOLs now include 2.5 yr life extension
 - Sentinel-1A EOL moved to 2025
 - Sentinel-1C EOL moved to 2034
 - Sentinel-1D EOL moved to 2035
 - Sentinel-2C EOL moved to 2034
 - Sentinel-2D EOL moved to 2038
 - Sentinel-3C EOL moved to 2036
 - Sentinel-3D EOL moved to 2038
 - Sentinel-5P EOL moved to 2027
 - Sentinel-6A/MF EOL moved to 2028
 - MetOp-B EOL moved to 2027
 - MTG-I3 launch moved to 2033 and EOL to 2043
 - INSAT-3DS EOL moved to 2034
 - GCOM-C and GCOM-W EOLs moved to 2025
 - GOSAT and GOSAT-2 EOLs moved to 2025
 - GOSAT-GW launch moved to 2025 and EOL to 2032
 - Himawari-10 launch moved to 2028
 - GOES-18 EOL moved to 2040
 - GEO-XO I1 launch moved to 2032 and EOL to 2040
 - NOAA-15, 18 and 19 EOL moved to 2025
 - NOAA-20 EOL moved to 2031
 - NOAA-21 EOL moved to 2036
 - JPSS-4 EOL moved to 2036
 - JPSS-3 EOL moved to 2041
 - ALOS-2 EOL moved to 2025
 - ALOS-4 launch moved to 2024 and EOL to 2031
 - SOHO EOL has been moved to 2027
 - DSCOVR EOL has been moved to 2028
 - GPM Core EOL has been moved to 2029

Updates cont.

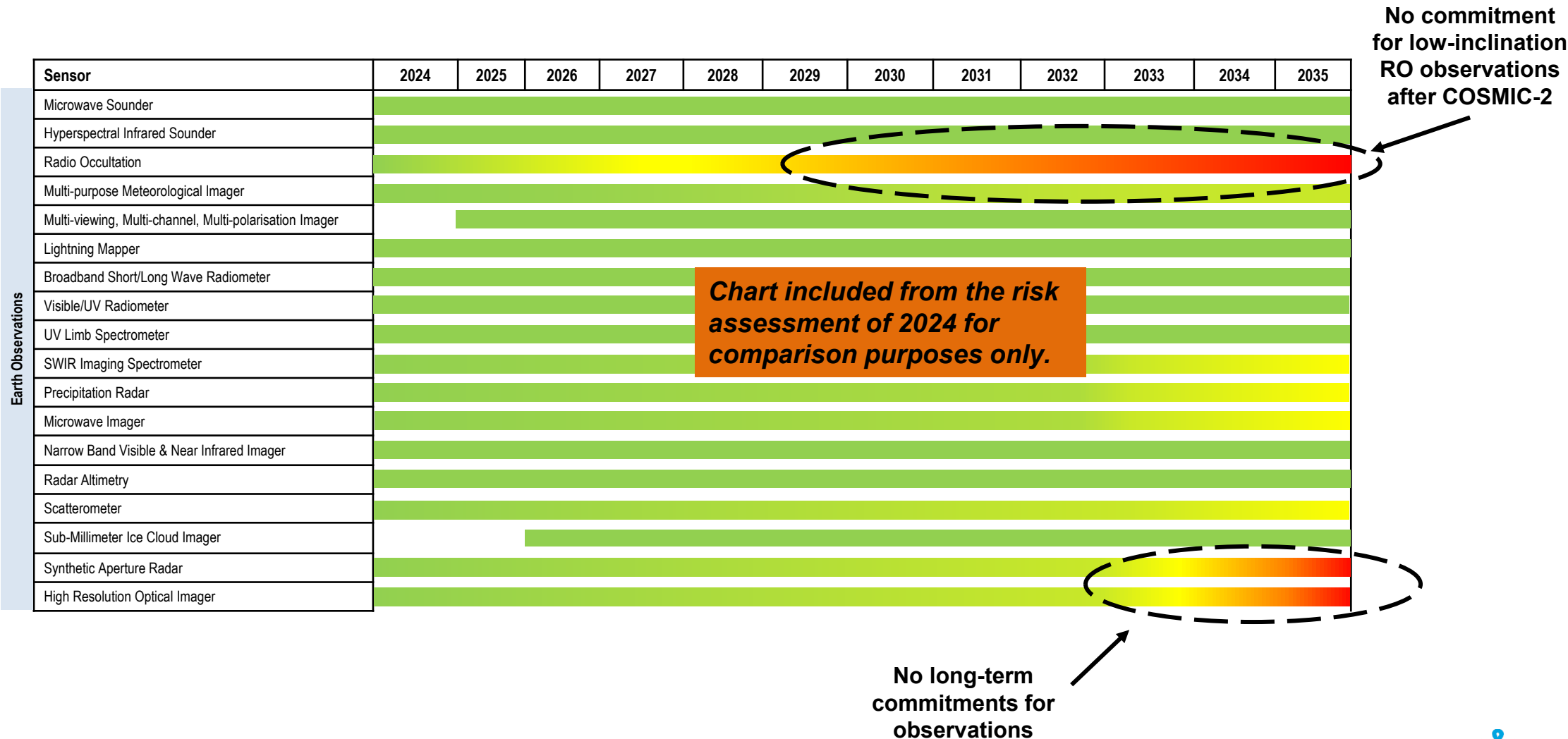
- The flyout charts also reflect the following additional updates:
 - GOES-16, GOES-17, Himawari-8 and INSAT-3D have been listed as on-orbit spares for appropriate observations
 - GOES-U is now GOES-19
 - AWS and EPS Sterna 1, 2 and 3 have been added to the Microwave Sounder flyout
 - GeoXO-I2 has been added to the flyouts for GEO Imager, Lightning Mapper, and Narrow Band Vis/IR Imager
 - FY-4D has been added to the flyouts for Hyperspectral Infrared Sounder, GEO Imager, Lightning Mapper, EUV Imager, and Energetic Particle Sensors in GEO (Low, High and Very High)
 - FY-4E has been added to the flyouts for Hyperspectral Infrared Sounder, GEO Imager and Magnetometer GEO
 - FY-4F has been added to the flyouts for Hyperspectral Infrared Sounder, GEO Imager, and Lightning Mapper
 - Metop-SG-B2 has been added to the flyout for Radio Occultation
 - GK-2B removed from the flyouts for GEO Imager, Narrow Band Vis/IR Imager, and Visible/UV Spectrometer
 - SWNnext SOL-A and SOL-B have been added to the flyouts for Magnetometer at L1, Energetic Particle Sensor at L1, Plasma Analyzer, Coronagraph, and X-ray Spectrograph
 - GK-5 has been added to the flyouts for GEO Imager, Energetic Particle Sensor High, and Magnetometer GEO
 - CIMR-A and B have been added to the flyout for Microwave Imager
 - CRISTAL-A and B have been added to the flyout for Radar Altimetry
 - EarthCARE has been removed from the flyouts for Sub-Millimeter Ice Cloud Imager and Precipitation Radar, and has been added to the flyout for LEO Imagers
 - MTG-I1 is now Meteosat-12

CGMS Risk Assessment Assumptions

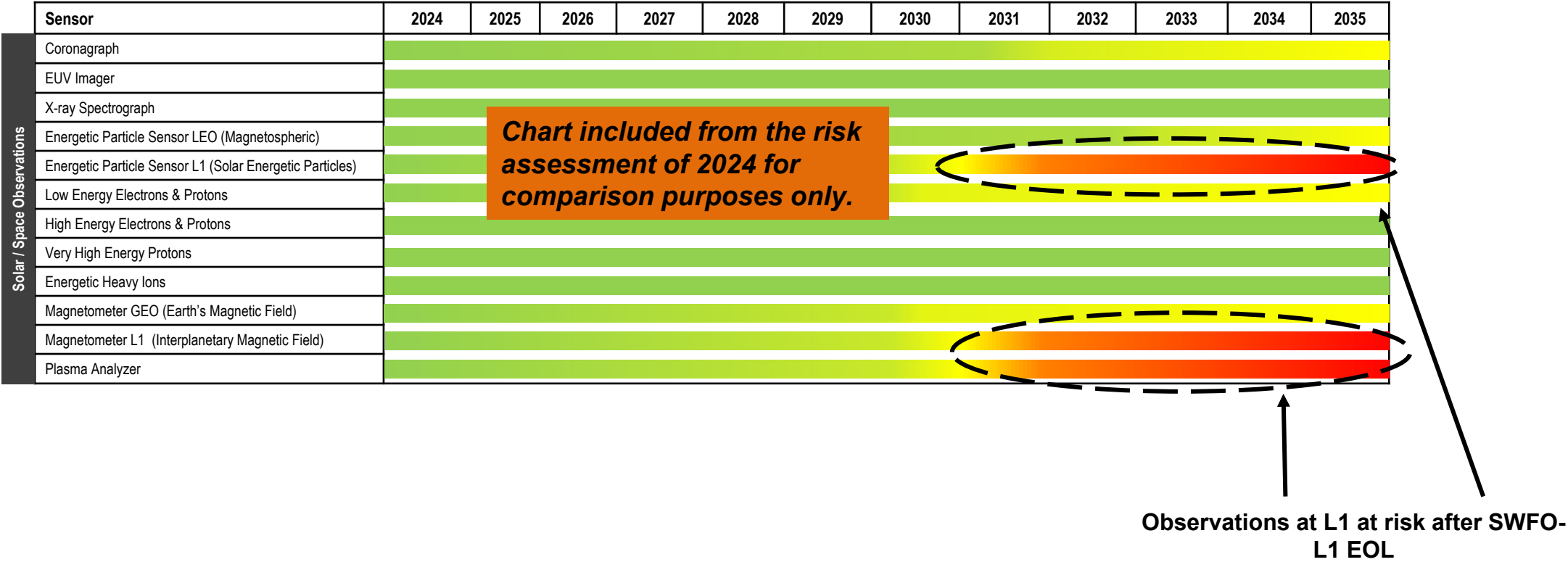
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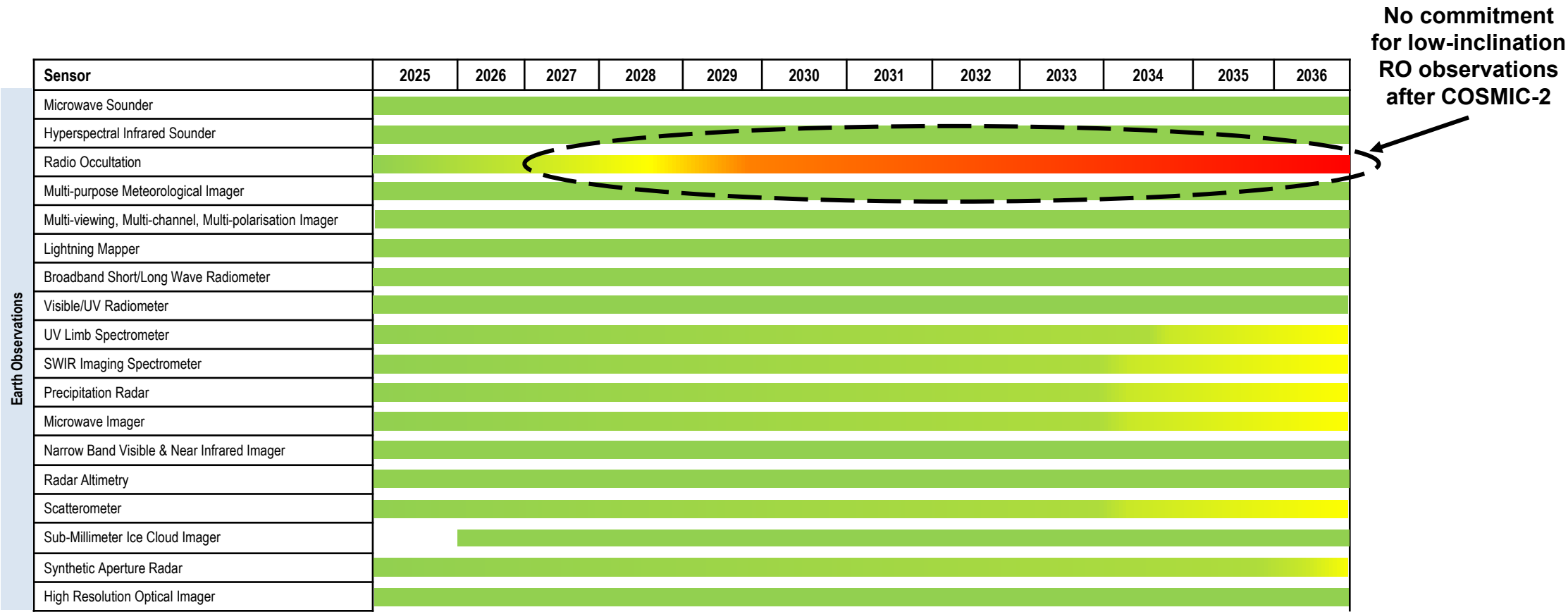
Top-Level Risk Assessment - Earth Observations (2024)



Top-Level Risk Assessment - Solar/Space Observations (2024)



Top-Level Risk Assessment - Earth Observations (2025)



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	Magnetometer L1 (Interplanetary Magnetic Field)												
	Plasma Analyzer												

Top-Level Risk Assessment – Focus Areas

High risk of a gap in service

- Continuity risk from RO observations in low inclination orbits in the later part of the decade as there is no commitment for a follow-on to COSMIC-2. *(slides 25-26)*
 - SWCG to make a recommendation to WGIII how to separate RO and Ionospheric Electron Density profiles.

Moderate risk of gap or performance degradation

- Slight long-term continuity risk for the UV Limb Spectrometer. *(slide 33)*
 - WGII to investigate other capabilities for UV limb sounding to complement JPSS
- Slight long-term continuity risk for the SWIR Imaging Spectrometer. *(slide 34)*
 - GHG TT via WGII has action to indicate if SWIR missions for CH₄ and CO₂ be added to the baseline.
- Slight long-term continuity risk for the Precipitation Radar. *(slide 35)*
 - NASA and JAXA to provide additional information on the GPM continuation mission.
- Slight long-term continuity risk for the Microwave Imager. *(slide 36)*
- Slight long-term continuity risk for Scatterometry. *(slide 39)*
- Slight long-term continuity risk for Coronagraphy in GEO. *(slide 43)*
- Slight long-term continuity risk for Energetic Particle Sensors in LEO. *(slide 46)*

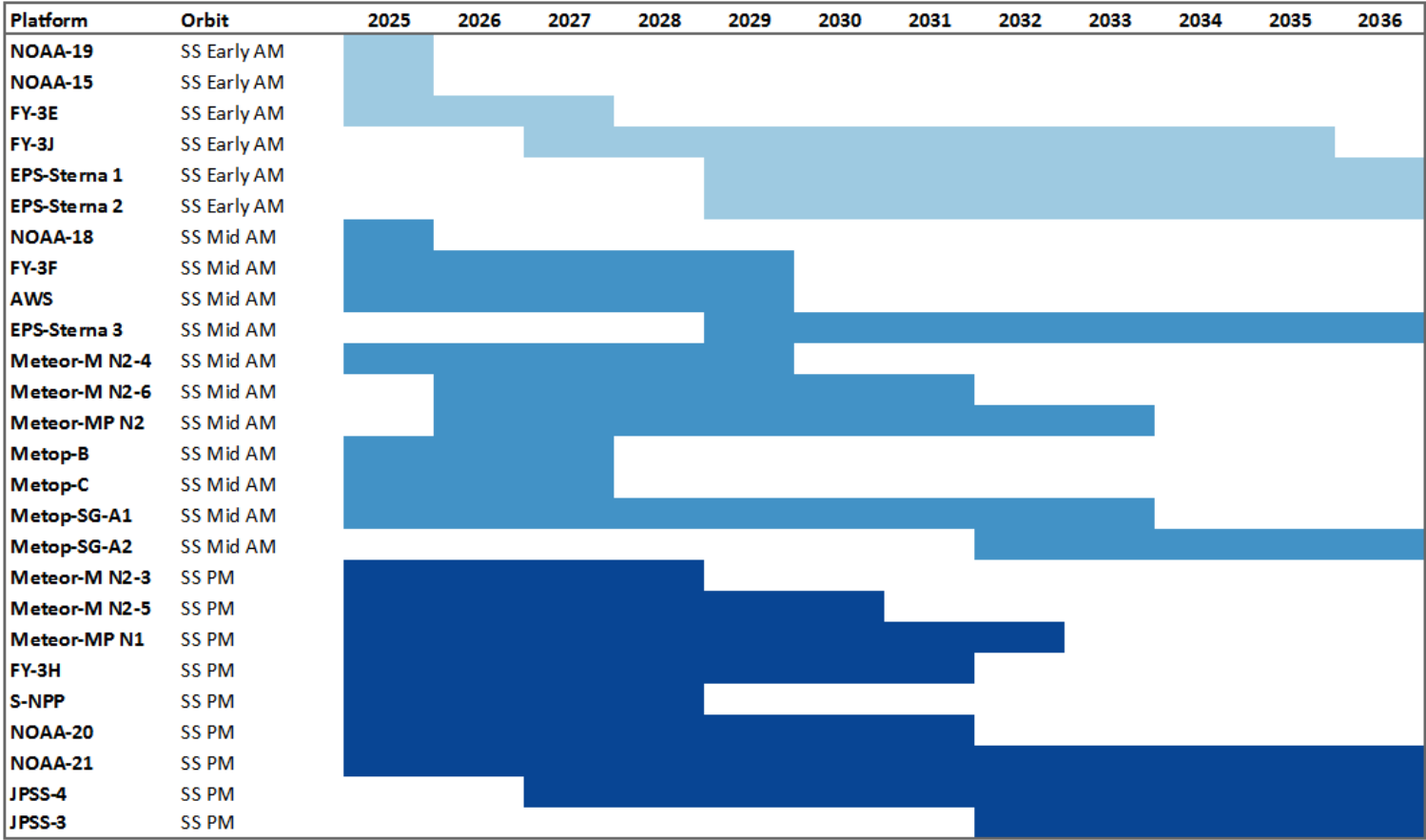
Top-Level Risk Assessment – Associated Actions

Associated Open Actions

- WGII to consider whether observations from geostationary orbit should be added to the CGMS baseline requirements for the broadband short/long wave radiometer.
- WGII to articulate how MW missions with different frequencies should be addressed and visualized in the CGMS Baseline and Risk Assessment.
- WGII to investigate other capabilities for UV limb sounding to complement JPSS
- GHG TT (via WGII) to indicate if SWIR missions for CH4 and CO2 missions should be added to the CGMS baseline and the risk assessment.
- The SWCG to make a recommendation to WGIII how to separate RO and Ionospheric Electron Density profiles in the CGMS Baseline and Risk Assessment.
- NASA and JAXA to provide a coordinated update on possible GPM continuation mission.
- NASA to provide update during 8th RAW on IMAP mission data compliance with CGMS Baseline criteria to be incorporated into the Risk Assessment.

Coordination Group for Meteorological Satellites - CGMS

Microwave Sounder (Atmospheric Temperature, Humidity, and Precipitation)



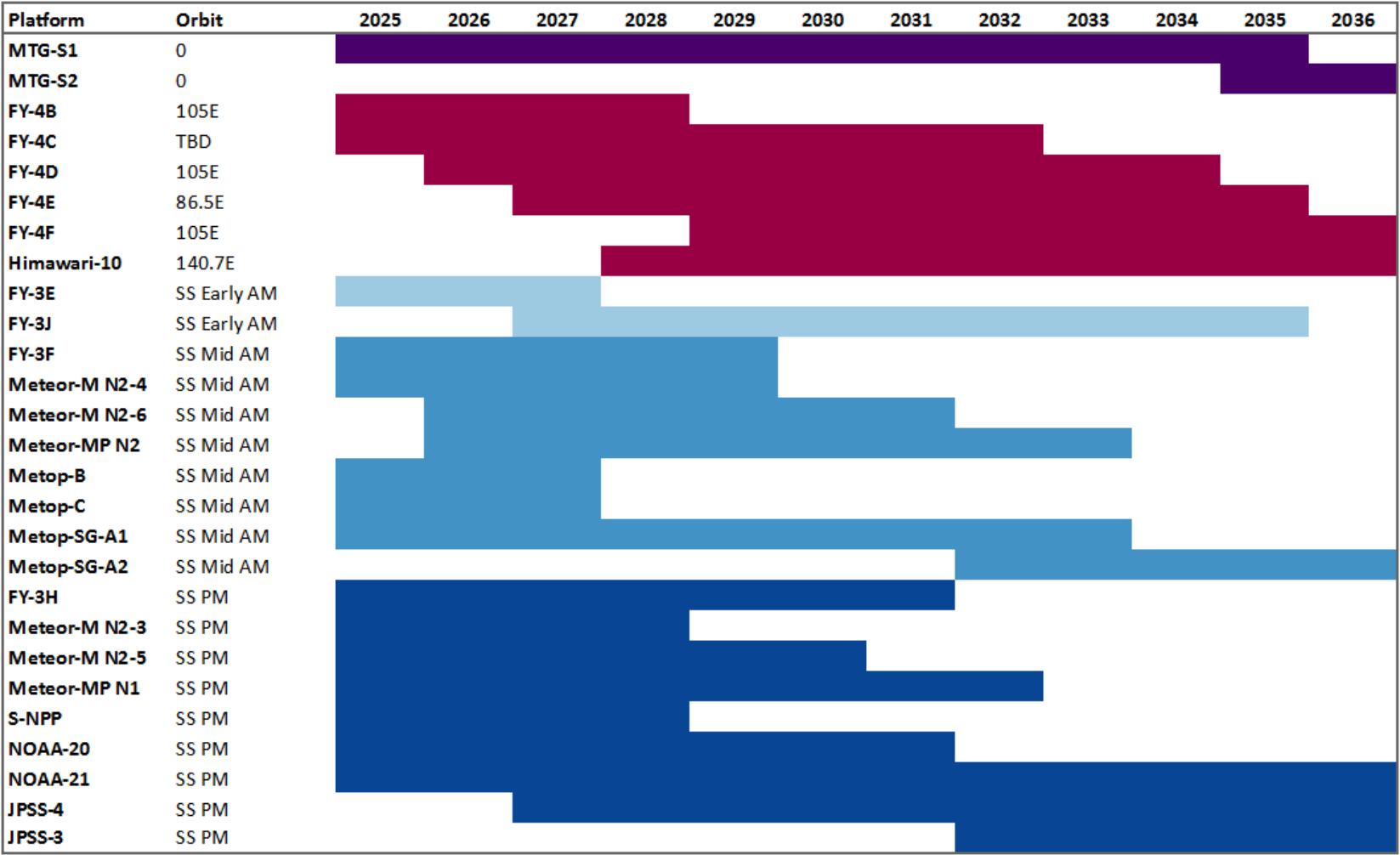
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Today

LEO - 3 Orbits
Sun-synchronous early morning
Sun-synchronous mid-morning
Sun-synchronous afternoon

WGIII Assessment:
Low risk of not meeting the CGMS Baseline commitment.

Coordination Group for Meteorological Satellites - CGMS

Hyperspectral Infrared Sounder (Atmospheric temperature, humidity, and winds Atmospheric composition: CO, CO2, SO2 , depending on spectral band also CH4 and NH3)



Today

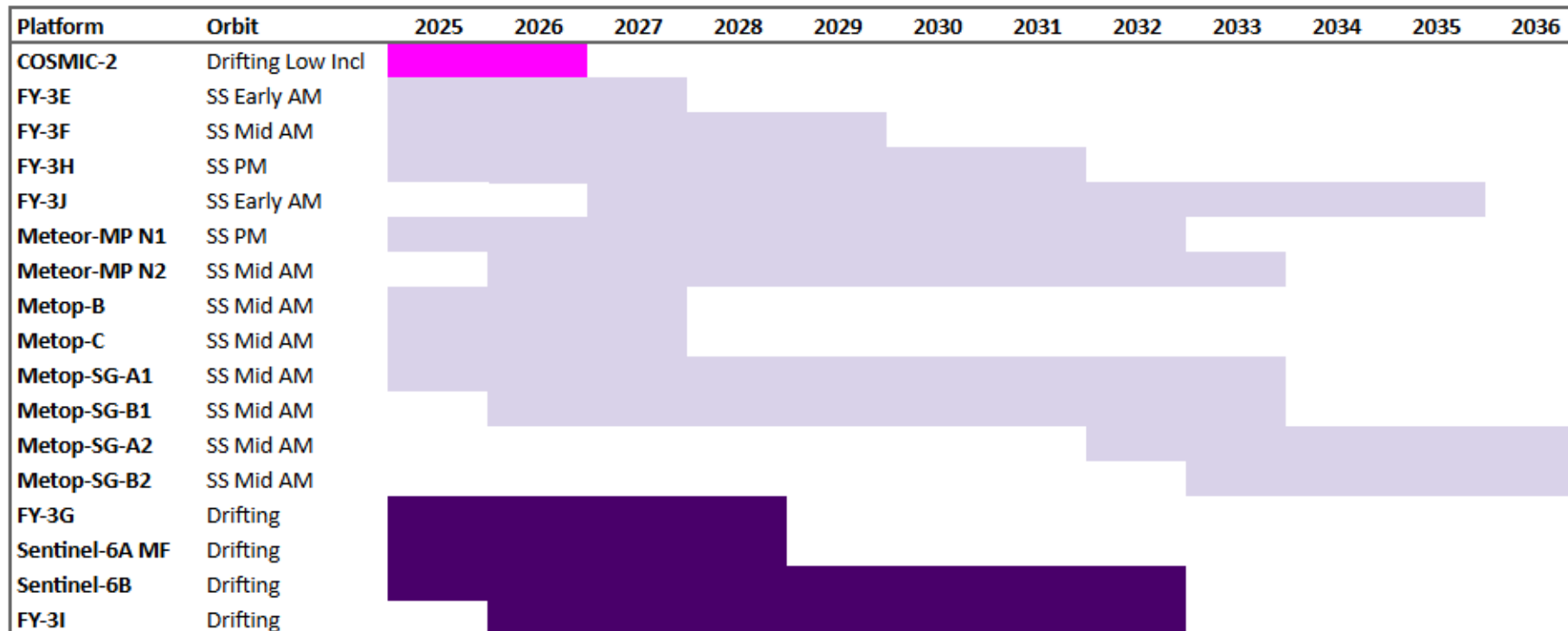
GEO - 2 Slots
0°
86.5°-140°E range

LEO - 3 Orbits
Sun-synchronous early morning
Sun-synchronous mid-morning
Sun-synchronous afternoon

WGIII Assessment: Low risk of not meeting CGMS Baseline commitment. Note the HLPP objective (1.2) to expand hyperspectral sounding from GEO to the full geostationary ring.

Coordination Group for Meteorological Satellites - CGMS

Radio Occultation (Atmospheric Temperature, Humidity, and Ionospheric Electron Density)



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Today

WGIII Assessment:

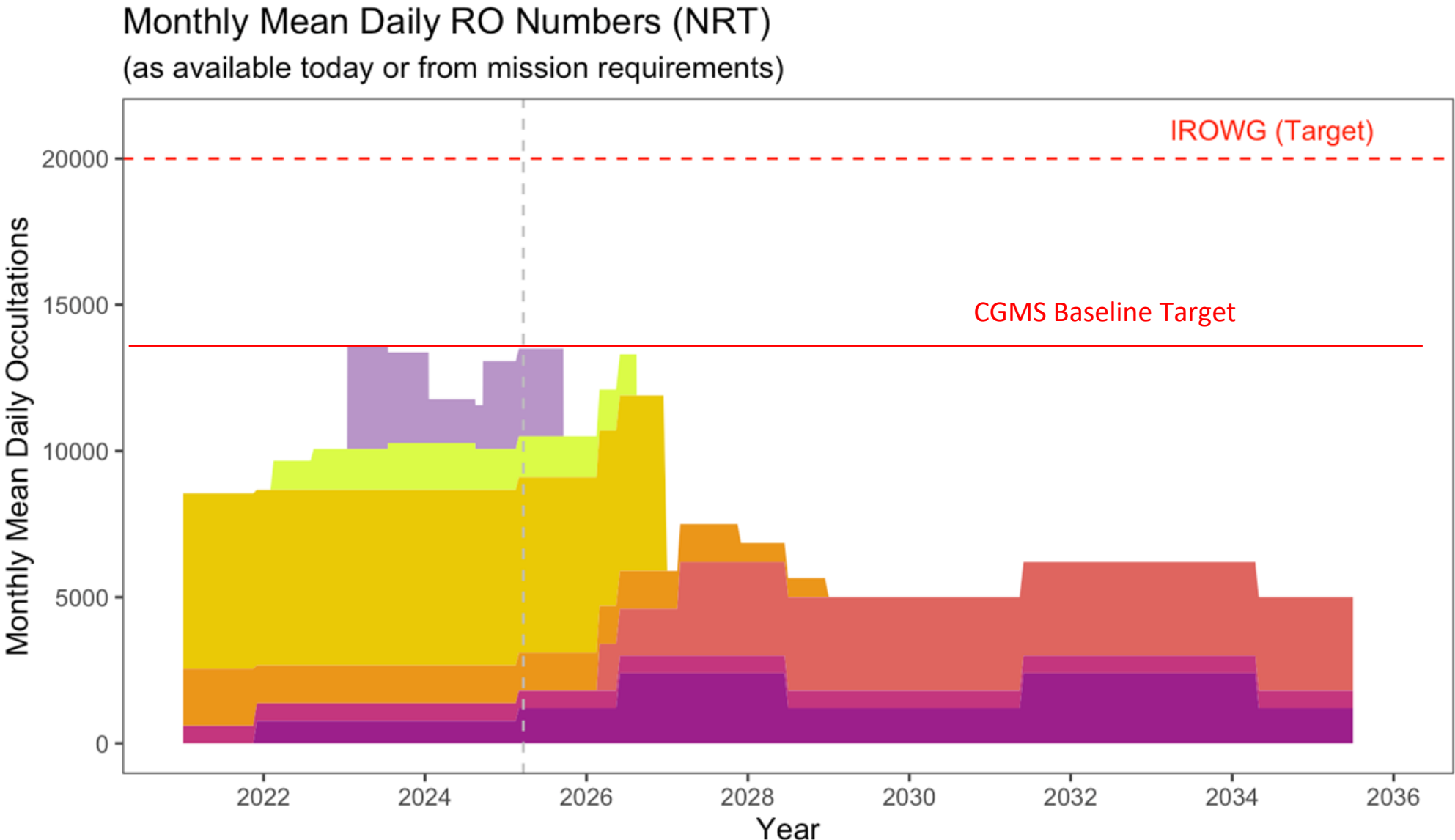
Risk of not meeting the CGMS Baseline commitment in low-inclination RO observations after COSMIC-2 at the end of the decade, and in other drifting orbits in the mid 2030s. The SWCG to make a recommendation to WGIII how to separate RO and Ionospheric Electron Density profiles in the CGMS Baseline and Risk Assessment

LEO - 3 Orbits

6000 occultations from **low inclination (<30°)**
7600 occultations from **sun-synchronous**
1000 occultations from **other drifting orbits**

Coordination Group for Meteorological Satellites - CGMS

Radio Occultation (Atmospheric Temperature, Humidity, and Ionospheric Electron Density)



- Missions**
- NOAA (Comm.)
 - EUM (Comm.)
 - COSMIC-2
 - EPS*
 - EPS-SG
 - FengYun-3
 - Sentinel-6

* Metop-SG A1/B1 launch scheduled 2025 & 2026; data to be available 6 months after

Coordination Group for Meteorological Satellites - CGMS

Multi-purpose Meteorological Imagers (multispectral, visible and IR) (Sea Surface Temperature, Aerosols, Land Surface Temperature, Cloud Properties, Feature Tracking Winds (AMV), Flood Mapping, Fires, Cryosphere Applications (sea ice, snow cover, etc.)



↑
Today

GEO - Evenly spaced
satellites

137°W

75.2°W

0°-45.5°E range

14.5°W-165.8°E range

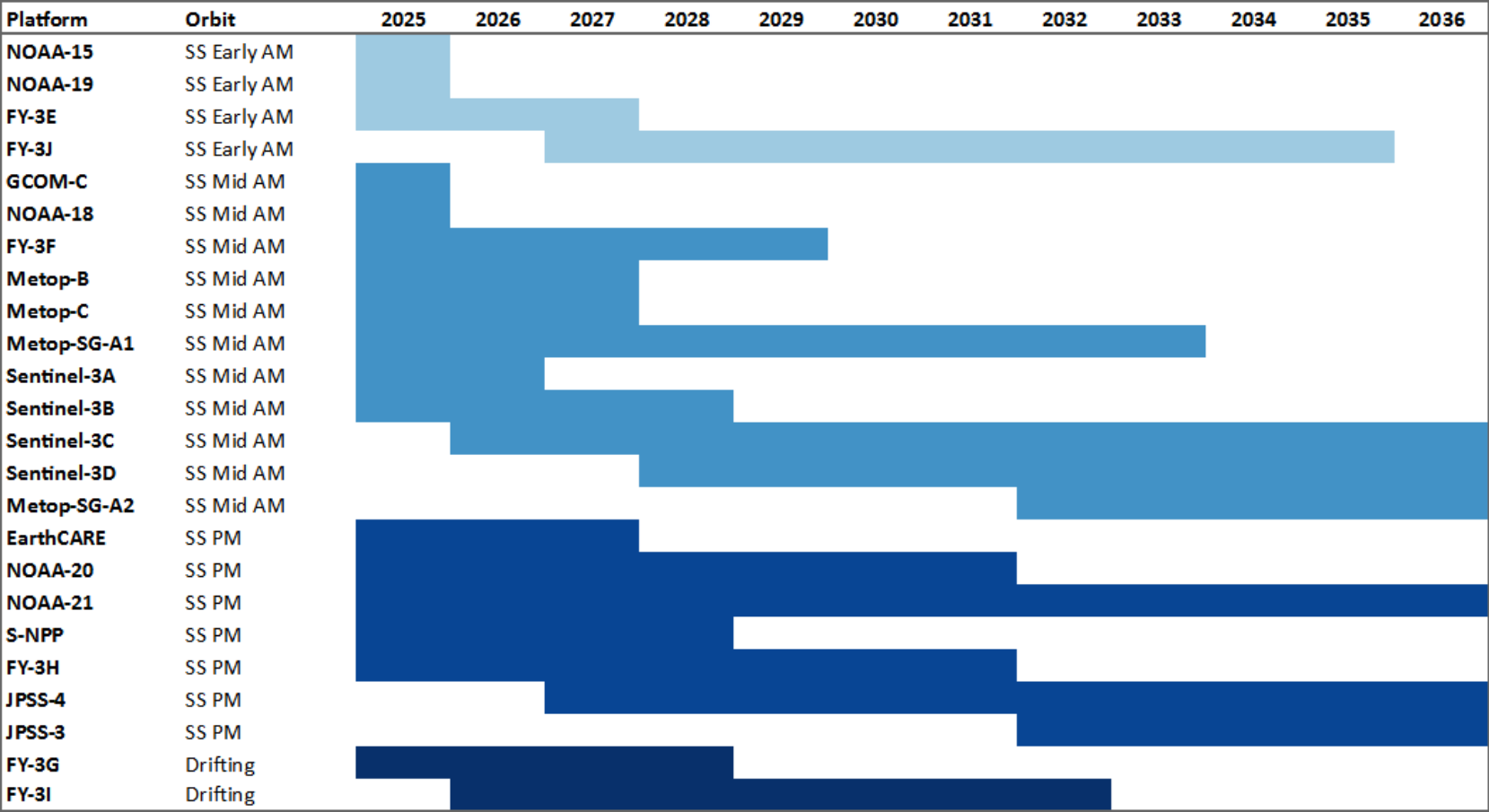
74°-82°E range

86.5°-140°E range

WGIII Assessment: Low risk of not meeting the CGMS Baseline commitment.

Coordination Group for Meteorological Satellites - CGMS

Multi-purpose Meteorological Imagers (multispectral, visible and IR) (Sea Surface Temperature, Aerosols, Land Surface Temperature, Cloud Properties, Feature Tracking Winds (AMV), Flood Mapping, Fires, Cryosphere Applications (sea ice, snow cover, etc.),



↑
Today

WGIII Assessment:
Low risk of not meeting the CGMS Baseline commitment.

LEO
Sun-synchronous early morning
Sun-synchronous mid-morning
Sun-synchronous afternoon

Multi-viewing, Multi-channel, Multi-polarisation Imager (Aerosol)

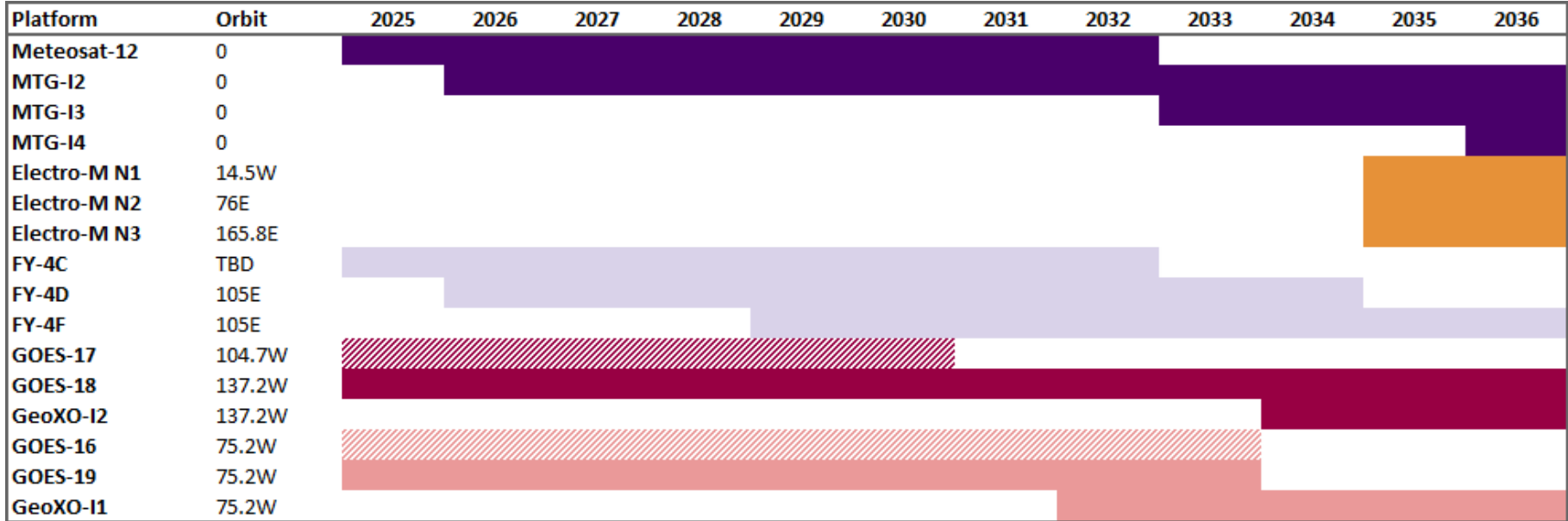
Platform	Orbit	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036
Metop-SG-A1	SS Mid AM												
Metop-SG-A2	SS Mid AM												


Today

LEO - 1 orbit
Sun-synchronous

WGIII Assessment:
Low risk of not meeting the CGMS Baseline commitment.

Lightning Mapper (Lightning)



Today

GEO - 4 slots

0°

86.5°-105°E range

137°W

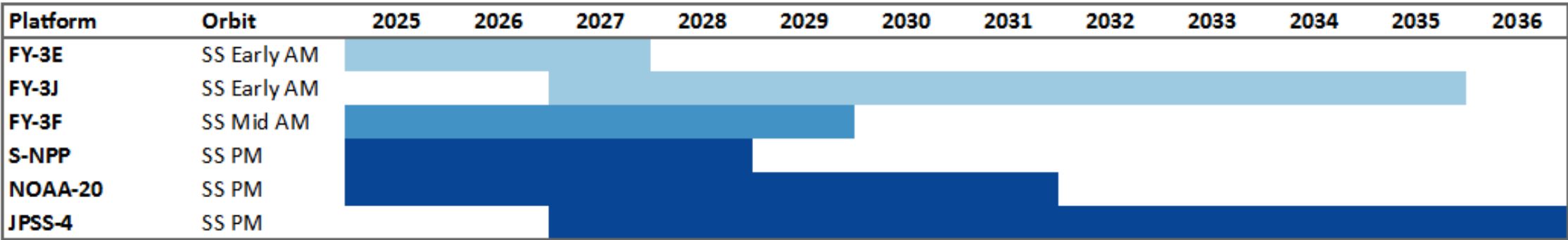
75.2°W

WGIII Assessment:

Low risk of not meeting the CGMS Baseline commitment. An HLPP objective (1.2) exists to provide the capability for the whole geostationary ring.

Coordination Group for Meteorological Satellites - CGMS

Broadband Short/Long Wave Radiometer (Radiation Balance)



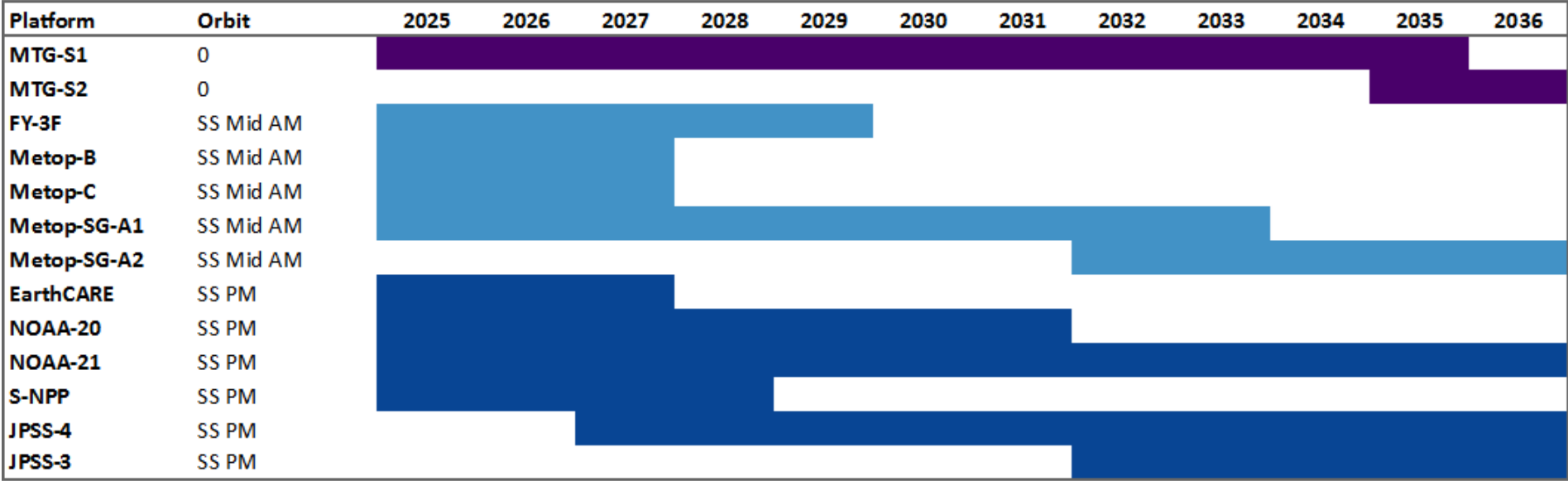
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Today

LEO - 2 Orbits
Sun-synchronous morning
Sun-synchronous afternoon

WGIII Assessment:
Low risk of not meeting the CGMS baseline commitment. Action on WGII to investigate the addition of GEO contributions to the CGMS Baseline.

Coordination Group for Meteorological Satellites - CGMS

Visible / UV Spectrometer (Aerosol, Atmospheric Composition: O3, CO2, NO2, SO2, BrO, C)



↑
Today

WGIII Assessment: Does not meet the baseline commitment in GEO as GK-2B has been removed due to the data not being provided in NRT and the agency is not a CGMS member. Proposed update to remove the GEO slot at 128.2 from the CGMS Baseline Document is being considered.

GEO - 2 Slots

0°

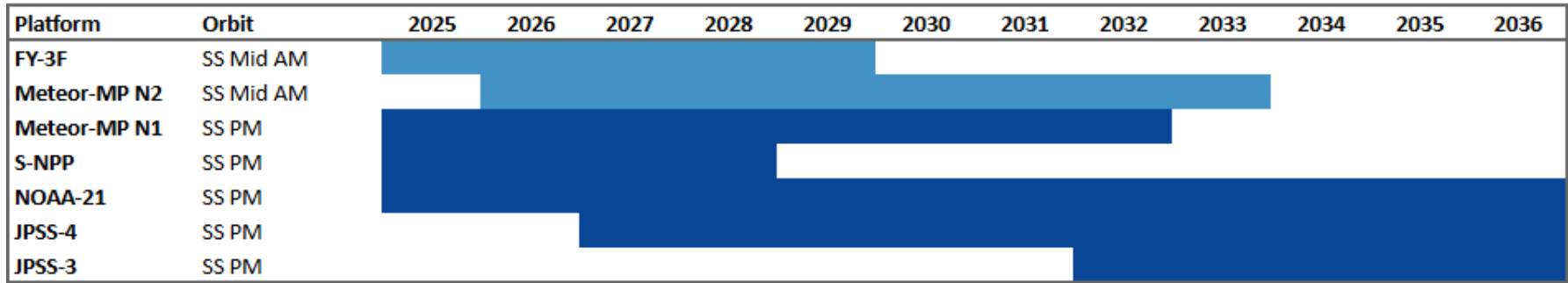
128.2°E

LEO - 2 Orbits

Sun-synchronous mid-morning

Sun-synchronous afternoon

UV Limb Spectrometer (Aerosol, Atmospheric Composition: O3)




Today

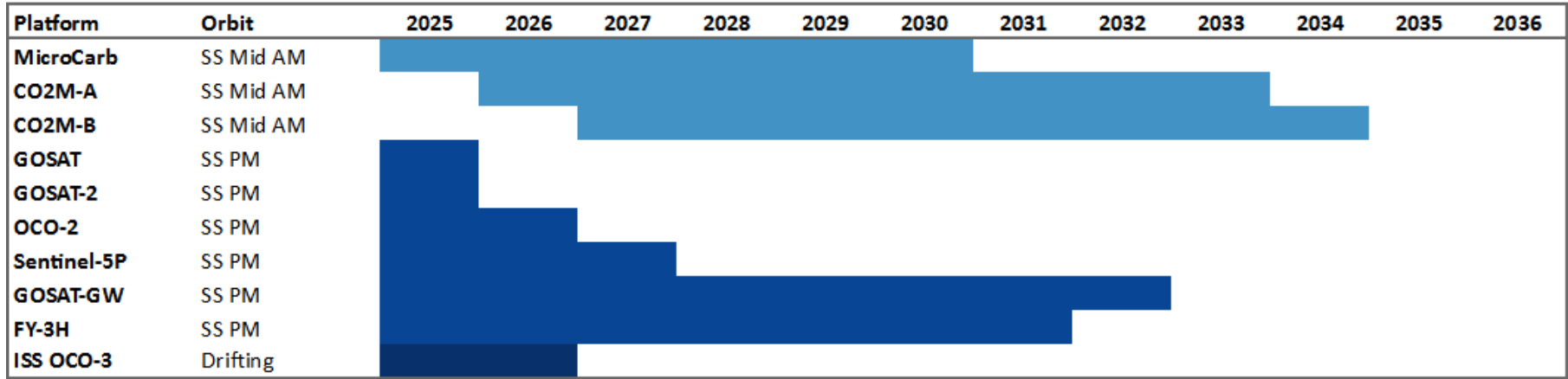
LEO - 2 Orbits
Sun-synchronous mid-morning
Sun-synchronous afternoon

WGIII Assessment:

Slight risk of not meeting the CGMS Baseline commitment in the mid-morning orbit in the mid 2030s. WGII to investigate other capabilities for UV limb sounding to complement JPSS.

Coordination Group for Meteorological Satellites - CGMS

SWIR Imaging Spectrometer (Atmospheric Composition: CO₂, CH₄)



↑
Today

LEO - 2 Orbits
Sun-synchronous late morning
Sun-synchronous afternoon

WGIII Assessment:
Slight risk of not meeting CGMS Baseline commitment in the mid 2030s. GHG TT via WGII has action to indicate if SWIR missions for CH₄ and CO₂ be added to the baseline.

Precipitation Radar (Precipitation)

Platform	Orbit	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036
GPM Core	Drifting												
FY-3G	Drifting												
FY-3I	Drifting												

↑
Today

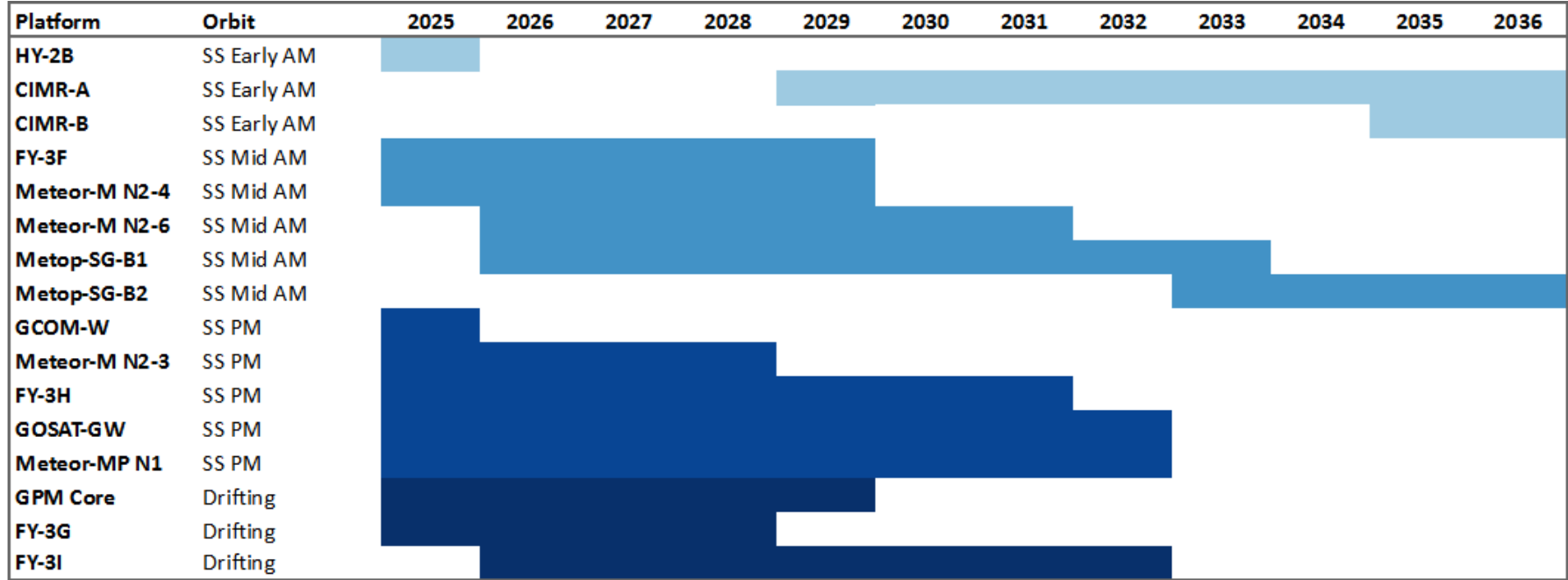
LEO - 1 orbit
Drifting

WGIII Assessment:

Slight risk of not meeting the GGMS Baseline commitment in the early 2030s. NASA and JAXA to provide additional information on the GPM continuation mission.

Coordination Group for Meteorological Satellites - CGMS

Microwave Imager (Sea Surface Temperature, Ocean Surface Winds, Precipitable Water, Soil Moisture, Snow and Ice properties, Sea Ice Properties)



↑
Today

LEO - 2 Orbits
Sun-synchronous mid-morning
Sun-synchronous afternoon

WGIII Assessment:
Slight risk of not meeting the CGMS Baseline commitment in the afternoon orbit in the mid 2030s.

Coordination Group for Meteorological Satellites - CGMS

Narrow Band Visible IR Imager (Ocean Colour, Aerosols)

Platform	Orbit	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036
GeoXO I1 East	75.2W												
GeoXO I2 West	137.2W												
GCOM-C	SS Mid AM												
Sentinel-3A	SS Mid AM												
Sentinel-3B	SS Mid AM												
Sentinel-3C	SS Mid AM												
Sentinel-3D	SS Mid AM												
GOSAT	SS PM												
GOSAT-2	SS PM												
OceanSat-3	SS PM												
OceanSat-3A	SS PM												
S-NPP	SS PM												
NOAA-20	SS PM												
NOAA-21	SS PM												
JPSS-4	SS PM												
JPSS-3	SS PM												

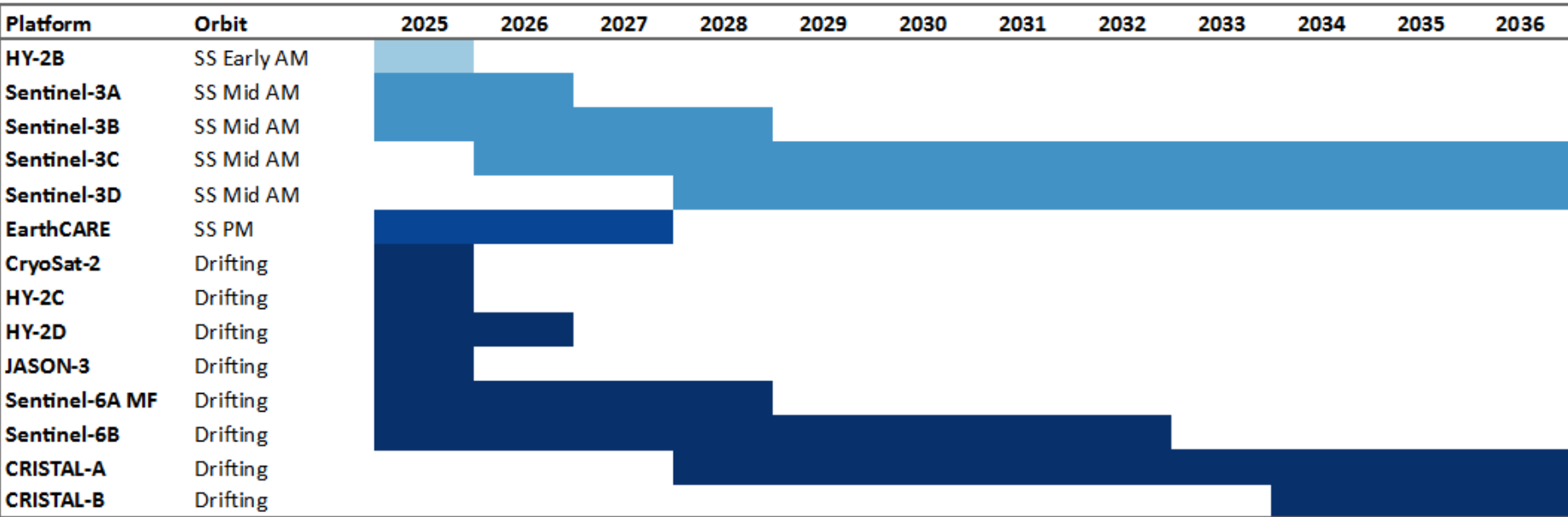
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Today

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LEO - 2 Orbits
Sun-synchronous mid-morning
Sun-synchronous afternoon

GEO - 1 Slot
128.2°E

Radar Altimetry (Ocean Surface Topography)



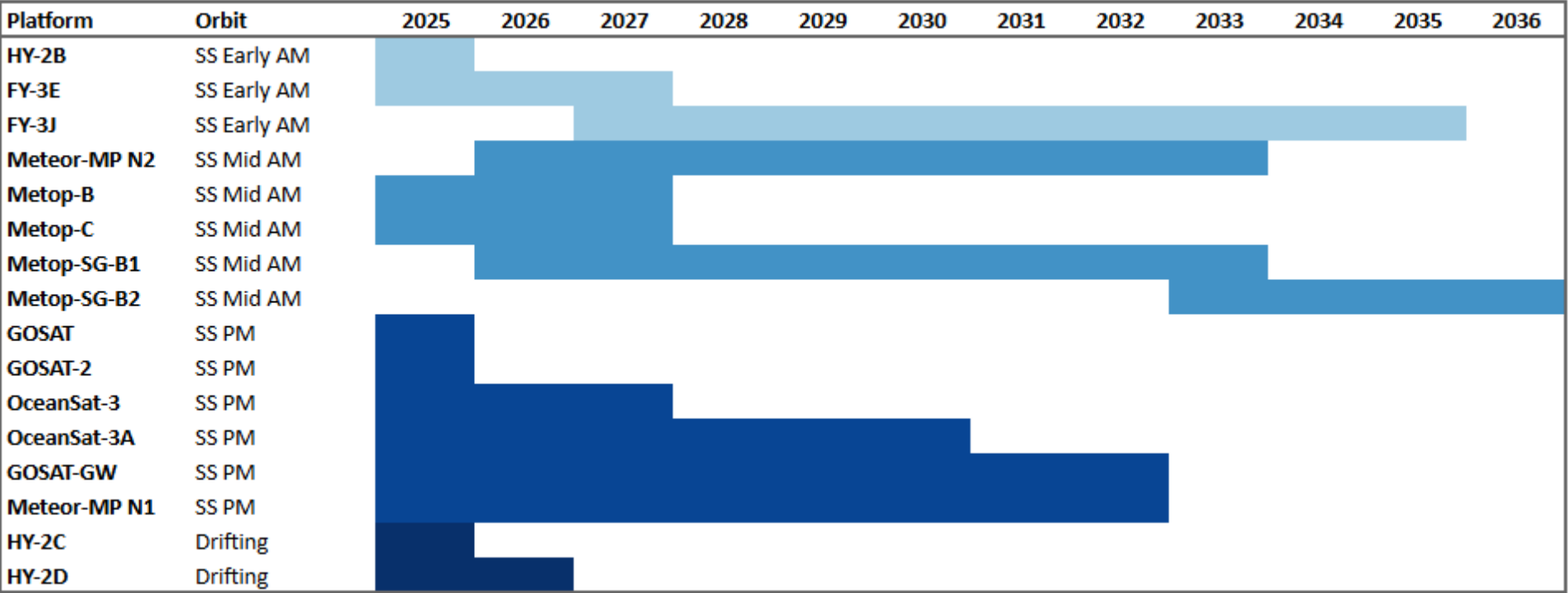
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Today

LEO - 1 Orbit
Sun-synchronous mid-morning

WGIII Assessment:
Low risk of not meeting the CGMS Baseline commitment.

Coordination Group for Meteorological Satellites - CGMS

Scatterometry (Ocean Surface Winds)



↑
Today

WGIII Assessment: Slight risk of not meeting the CGMS Baseline commitment in the afternoon orbit in the mid 2030s.

LEO
Sun-synchronous early morning
Sun-synchronous mid-morning
Sun-synchronous afternoon

Sub-millimetre Ice Cloud Imager (Cloud Ice)

Platform	Orbit	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036
Metop-SG-B1	SS Mid AM												
Metop-SG-B2	SS Mid AM												

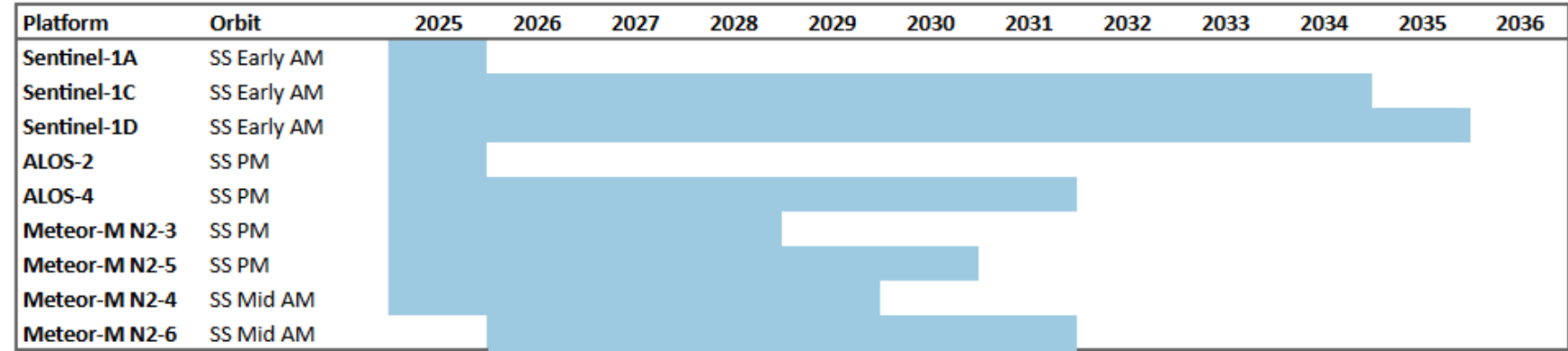

Today

LEO - 1 Orbit
Sun-synchronous mid-morning

WGIII Assessment:
Low risk of not meeting CGMS Baseline commitment.



Synthetic Aperture Radar (Soil Moisture, Sea Ice)



↑
Today

LEO - 1 Orbit
Sun-synchronous

WGIII Assessment:
Low risk of not meeting CGMS Baseline commitment.



Coordination Group for Meteorological Satellites - CGMS

High Resolution Optical Imager (Land Use, Vegetation Type and Status, Aerosols)

Platform	Orbit	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036
Sentinel-2A	SS Mid AM												
Sentinel-2B	SS Mid AM												
Sentinel-2C	SS Mid AM												
Sentinel-2D	SS Mid AM												


Today

LEO - 1 Orbit
Sun-synchronous

WGIII Assessment:
Low risk of not meeting CGMS Baseline commitment.

Coordination Group for Meteorological Satellites - CGMS

Coronagraph (Coronagraphy)

Platform	Orbit	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036
GOES-19	75.2W												
SOHO	L1												
SWFO-L1	L1												
SWNext SOL-A	L1												
SWNext SOL-B	L1												
Vigil	L5												

↑
Today

On Sun-Earth Line

L1

GEO - 1 slot

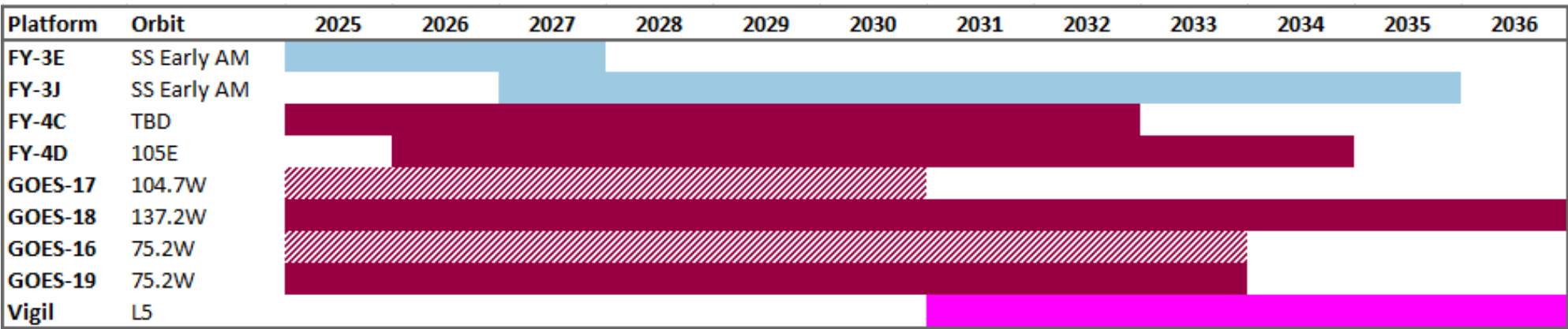
Off Sun-Earth Line

L5

WGIII Assessment:

Slight risk of gap in GEO in the mid 2030s. Slight risk of a gap at L1 until SWFO-L1 is launched and operational as SOHO is operating well past design life, but NOAA is prepared to provide STEREO-A coronagraphy from the Wallops and Fairbanks stations in the event of loss of SOHO/LASCO.

EUV Imager (EUV Imagery)



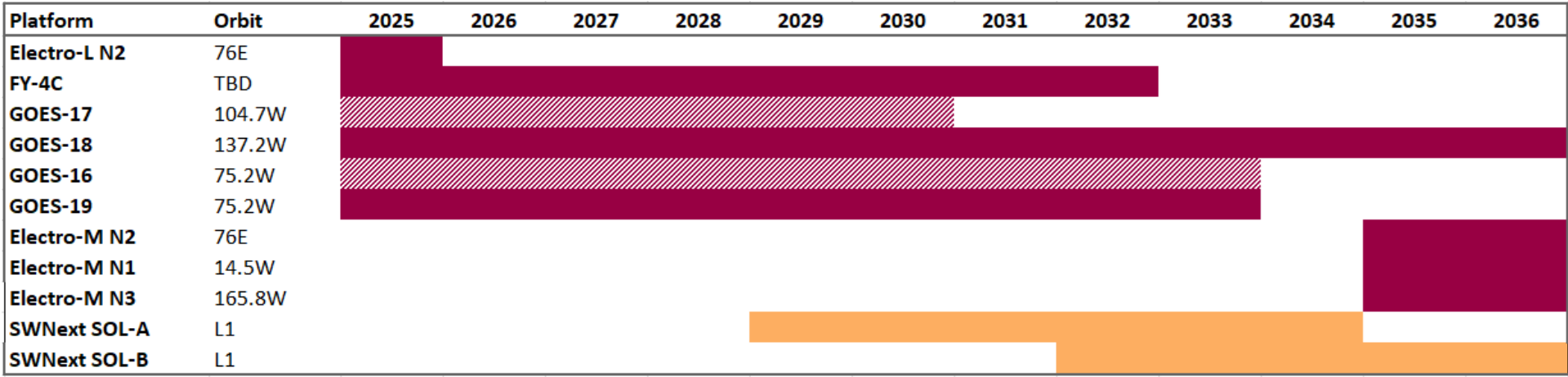
↑
Today

On Sun-Earth Line
LEO - 1 orbit
GEO - 2 slots

Off Sun-Earth Line
L5

WGIII Assessment:
Low risk of not meeting CGMS Baseline commitment.

X-Ray Spectrograph (X-Ray Flux)



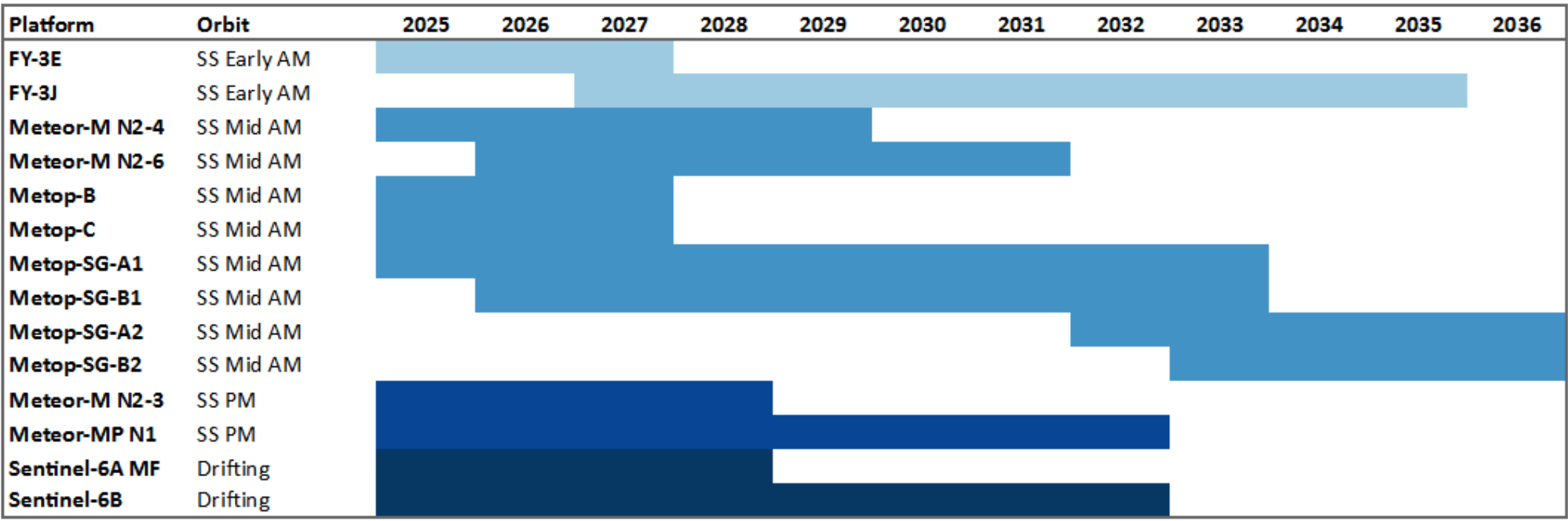
↑
Today

On Sun-Earth Line
GEO - 5 slots
L1

WGIII Assessment:
Low risk of not meeting CGMS Baseline commitment.

Coordination Group for Meteorological Satellites - CGMS

Energetic Particle Sensor LEO (Magnetospheric)



↑
Today

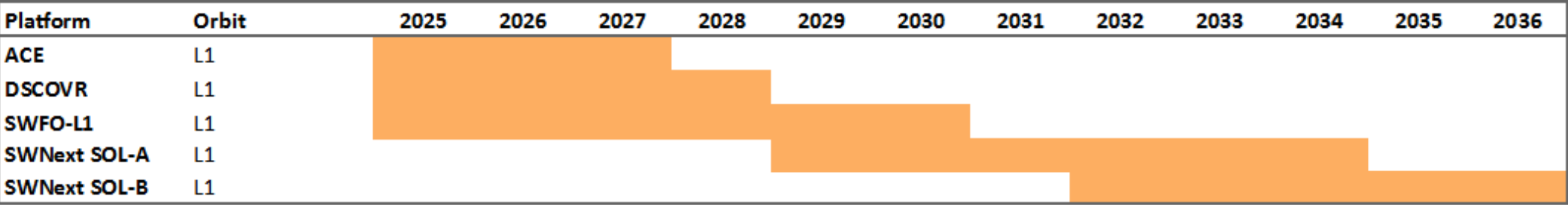
WGIII Assessment:

Slight risk of not meeting the CGMS Baseline commitment in the afternoon orbit in the mid 2030s.

LEO - 3 orbits as in-situ measurements

Coordination Group for Meteorological Satellites - CGMS

Energetic Particle Sensor L1 (Solar Energetic Particles)



Today

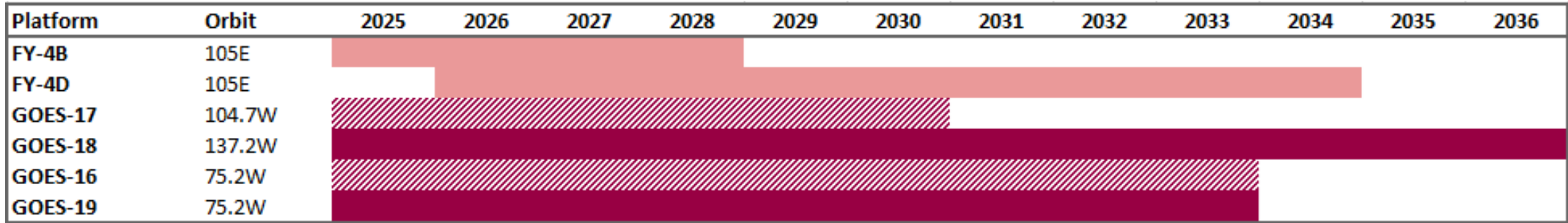
L1 as in-situ measurement

WGIII Assessment:
Low risk of not meeting CGMS Baseline commitment.



Coordination Group for Meteorological Satellites - CGMS

Low Energy Electrons and Protons (Magnetospheric particles)



↑
Today

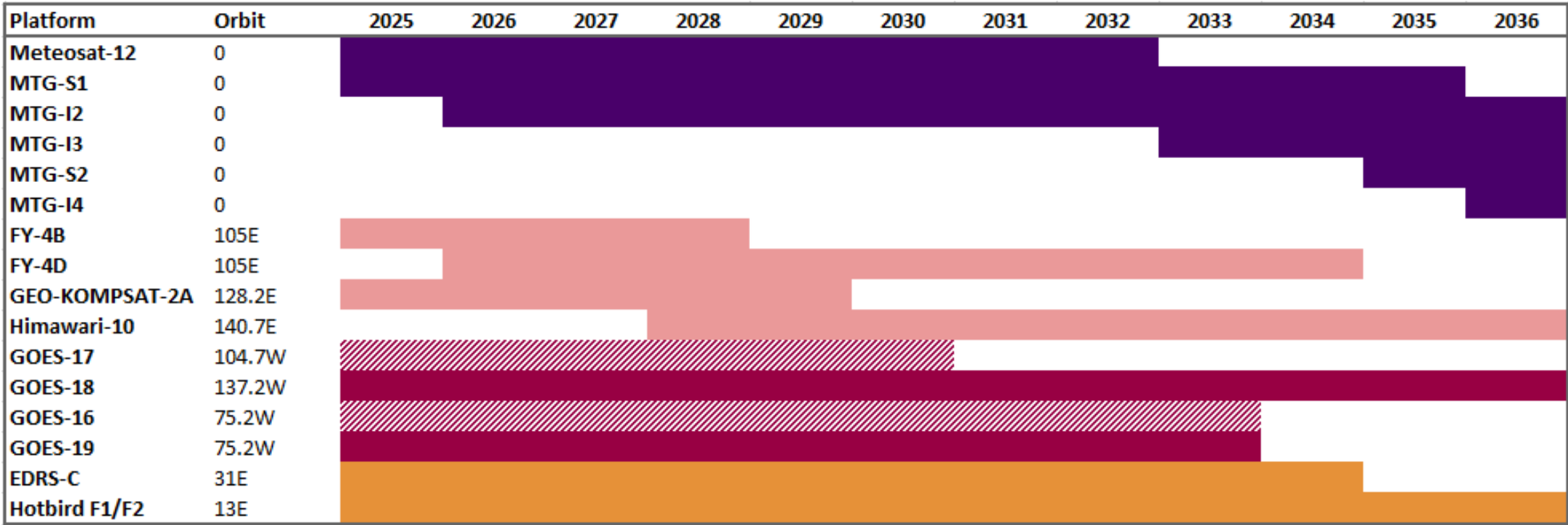
GEO - 2 slots
86.5°-123°E range
75.2°- 137°W range

WGIII Assessment:
Low risk of not meeting CGMS Baseline commitment.



Coordination Group for Meteorological Satellites - CGMS

High Energy Electrons and Protons (Magnetospheric and solar energetic particles)



Today

WGIII Assessment:

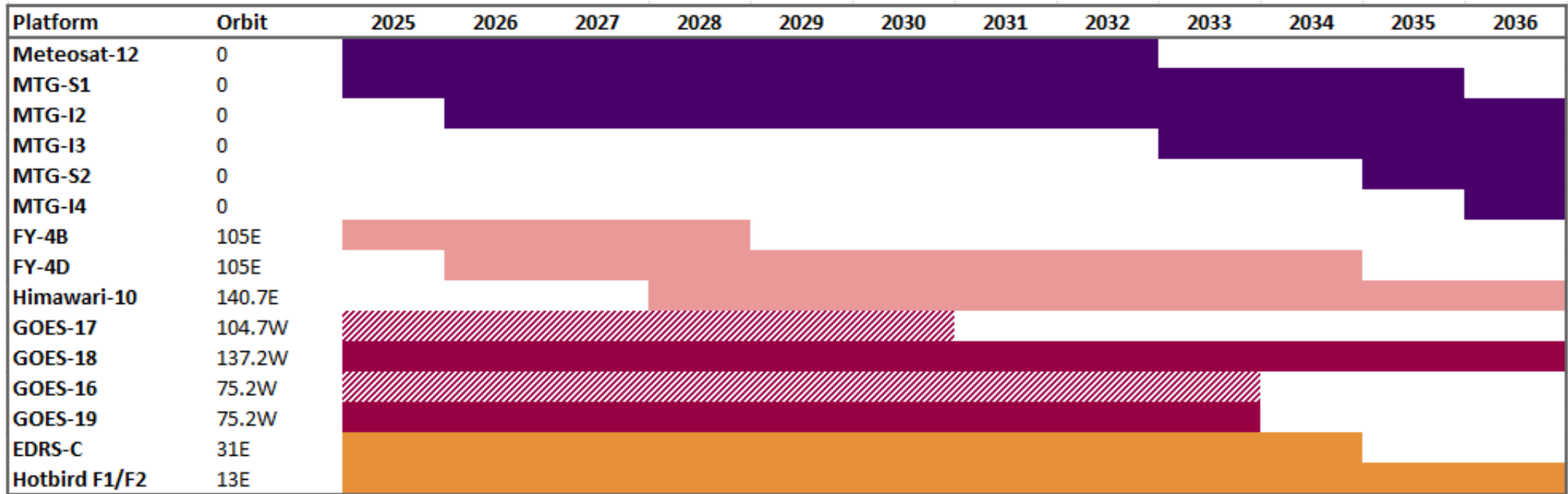
Low risk of not meeting CGMS Baseline commitment.

GEO - 3 slots
0°
86.5°-123°E range
75.2°- 137°W range



Coordination Group for Meteorological Satellites - CGMS

Very High Energy Protons (Magnetospheric and solar energetic particles)



↑
Today

WGIII Assessment:

Low risk of not meeting CGMS Baseline commitment.

GEO - 3 slots

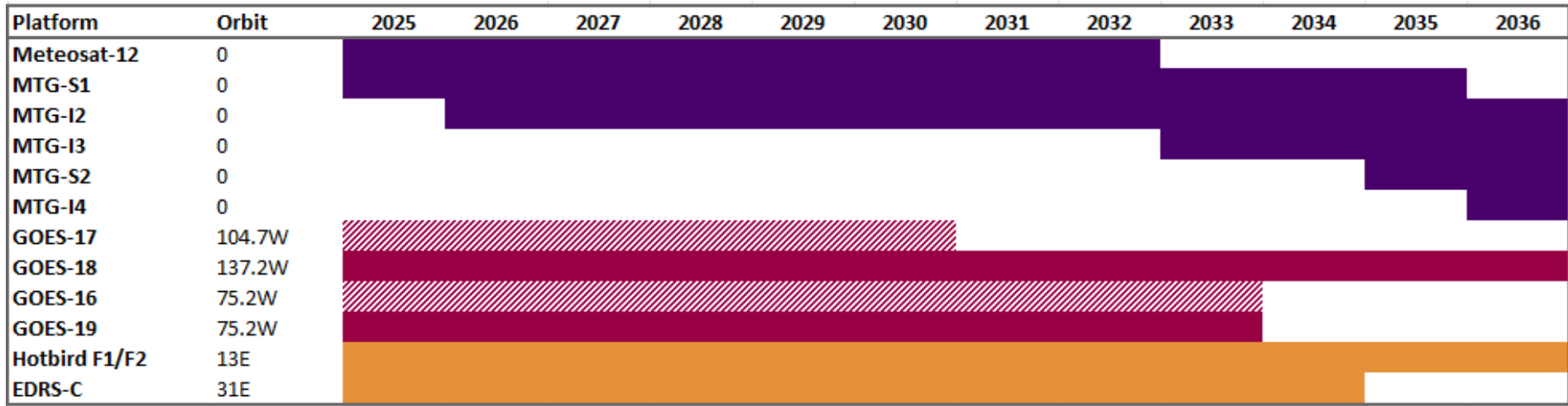
0°

86.5°-123°E range

75.2°- 137°W range

Coordination Group for Meteorological Satellites - CGMS

Energetic Heavy Ions (Magnetospheric and solar energetic particles)



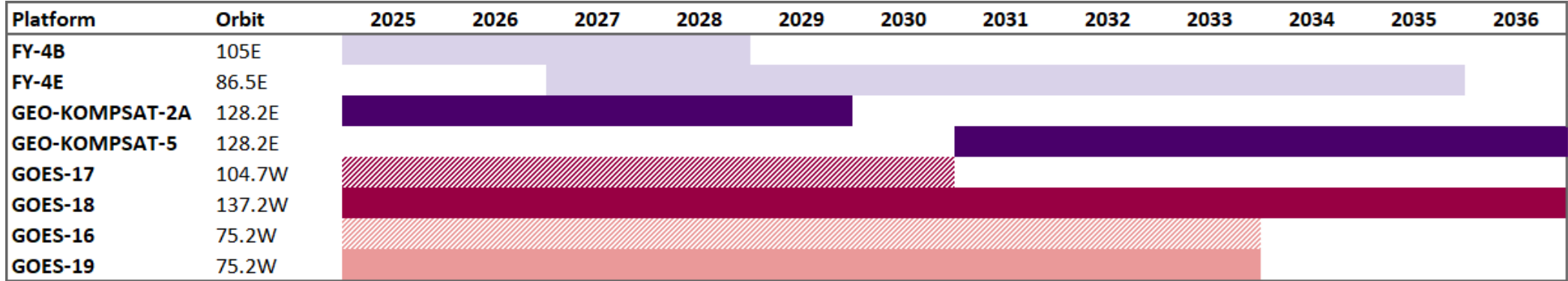
↑
Today

GEO - 2 slots
0°
75.2° - 137°W range

WGIII Assessment:
Low risk of not meeting CGMS Baseline commitment.



Magnetometer GEO (Earth's Magnetic Field)



↑
Today

GEO – 4 Slots

75.2°W

137°W

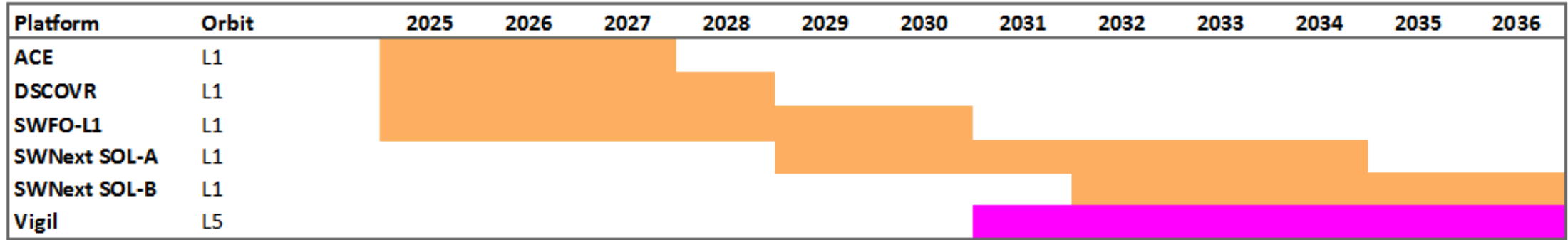
86.5°-105°E range

128°E

WGIII Assessment:

Low risk of not meeting CGMS Baseline commitment.

Magnetometer L1 (Interplanetary Magnetic Field)

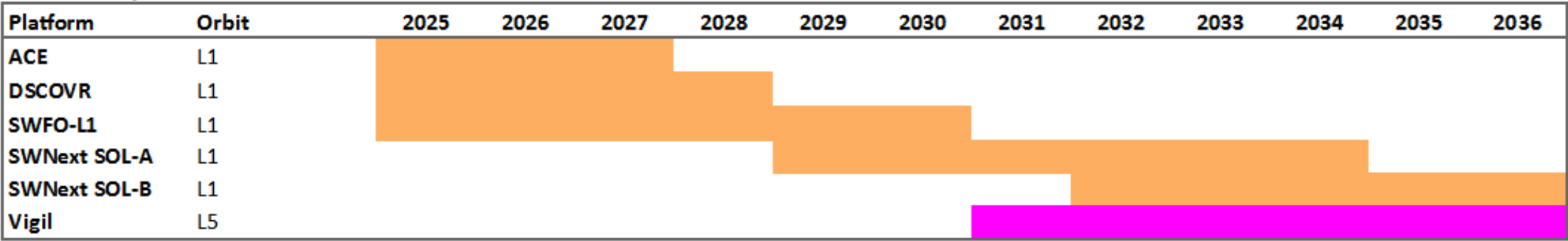


↑
Today

L1, as an in-situ measurement
L5, as an in-situ measurement

WGIII Assessment:
Low risk of not meeting CGMS Baseline commitment.

Plasma Analyzer (Solar Wind)



↑
Today

L1, as an in-situ measurement
L5, as an in-situ measurement

WGIII Assessment:
Low risk of not meeting CGMS Baseline commitment.