

The Development Programs of China's Ocean Satellite

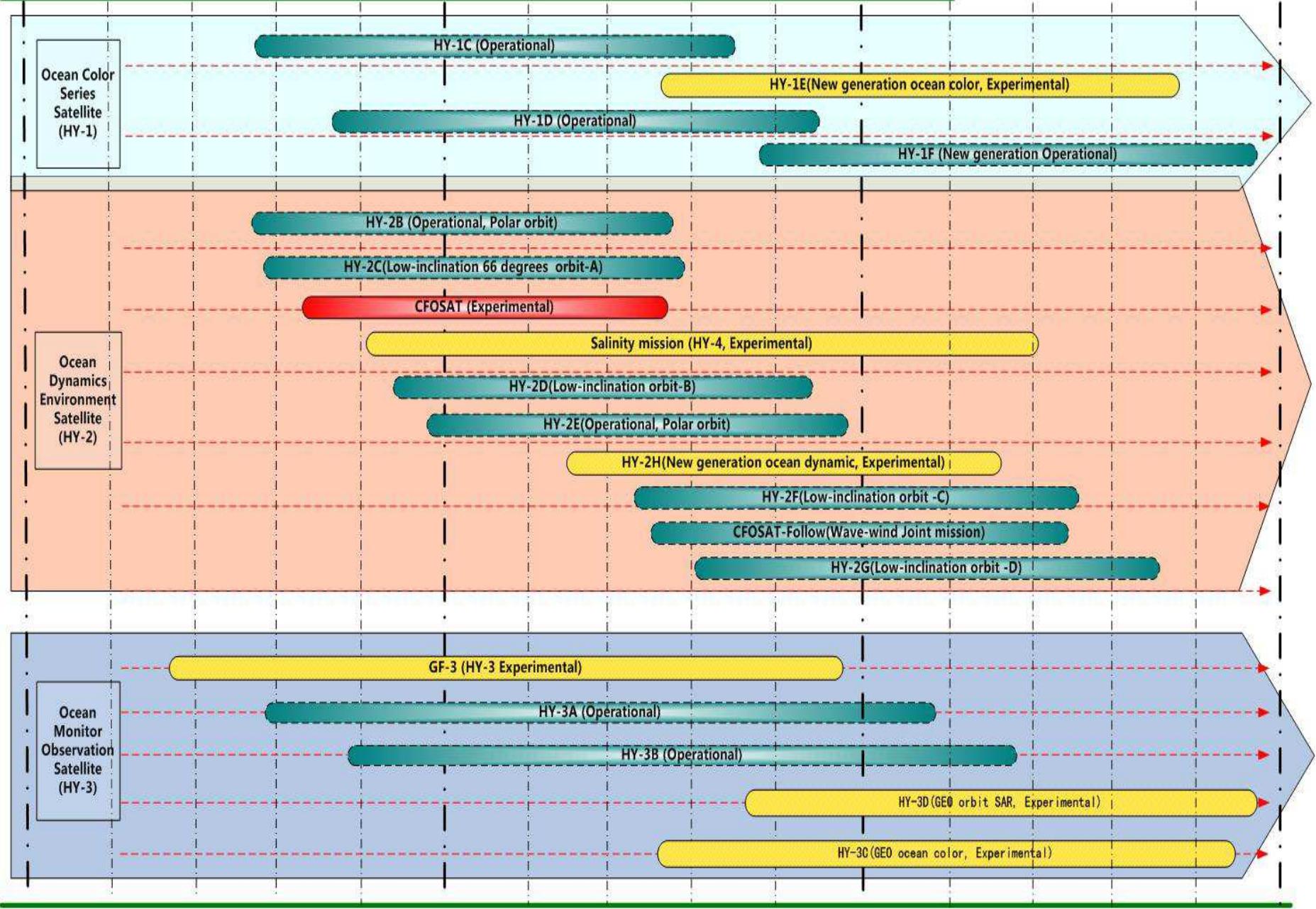
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June 2016

The Development Plans about HY-series Satllite

- China has formulated and implemented several medium- and long-term national plans on the development of HY satellites.
- HY satellites will be developed in three series, i.e., ocean color environment satellites (HY-1), marine dynamic environment satellites (HY-2), and maritime surveillance and monitoring satellites (HY-3).

2015 2016 2017 2018 2019 2020 2021 2022 2023 2024 2025 2026 2027 2028 2029 2030



Legends:

Operational

Experimental

Joint Mission

Satellite	Launch	Payload	Comments
HY-1C	End 2017	Ocean colour Coastal Imager	Planned Operational
HY-1D	End 2018	Ocean colour Coastal Imager	Planned Operational
HY-1 E	End 2022	Ocean colour Coastal Imager	New generation Experimental
HY-1 F	End 2023	Ocean colour Coastal Imager	New generation Operational, planned

HY-2B	Early 2018	Altimeter, scatterometer, radiometer	Planned Polar orbit
HY-2C	Mid 2018	Altimeter, scatterometer	Planned Tilt orbit / 66 degr inclination
HY-2 D	Mid 2019	Altimeter, scatterometer	Planned Tilt orbit / 66 degr inclination
HY-2 E	Mid 2021	Altimeter, scatterometer, radiometer	Planned Polar orbit
HY-2F	Early 2020	Altimeter, scatterometer	Planned Tilt orbit / 66 degr inclination
HY-2 G	Mid 2022	Altimeter, scatterometer	Planned Tilt orbit / 66 degr inclination
HY-2 H	Early 2024	Wide Swath Altimeter, polarization scatterometer, full polarization radiometer	Planned, Polar orbit NEW Generation HY-2

Salinity mission	Early 2019	Salinity Sea Surface Temperature	Experimental Similar to SMOS, Aquarius
CFOSAT	Mid 2018	Wave Spectrometer scatterometer	Joint CNSA-CNES mission, NSOAS to operate satellite
CFOSAT follow-on	2022	Wave Spectrometer scatterometer	Follow on CFOSAT satellite

GF-3	End 2016	SAR payload 1 m C-band SAR ocean wave	Experimental
HY-3A	End 2018	SAR	Planned, Operational
HY-3B	End 2019	SAR	Planned, Operational
HY-3 C	Mid 2023	GEO ocean colour	Experimental GEO orbit
HY-3 D	End 2024	SAR	Experimental GEO orbit

Thank You Attention!