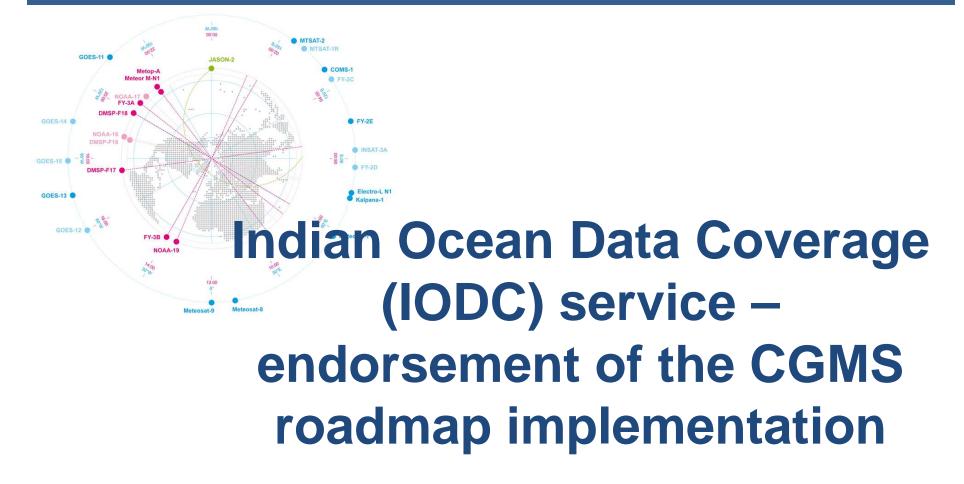
Coordination Group for Meteorological Satellites - CGMS



Presented to CGMS-[44] [Working Group III/7 and Plenary E 3.3]



Coordination Group for Meteorological Satellites

Introduction

The Indian Ocean Data Coverage (IODC) mission is a best effort undertaking which reflects a decision of the EUMETSAT Council to use a residual Meteosat First Generation capacity for this purpose, in the context of a temporary data gap over the Indian Ocean.

Meteosat-7, the last satellite of the Meteosat First Generation, will reach its End-of-Life in March 2017 with the re-orbiting of the satellite to follow in early 2017, thereby ending the EUMETSAT IODC mission.

CGMS 42 endorsed the baseline requirements for IODC and CGMS 43 endorsed the CGMS IODC roadmap and timeline with associated actions that aimed at establishing resilient multi-partners IODC services in the region.



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Satellites in Orbit

Satellite	Longitude	Operator	Launch date	Projected EOL
Meteosat-7	57.5°E	EUMETSAT	02/09/1997	Q1 2017
Meteosat-8	3.5°E *	EUMETSAT	28/08/2002	2019 - 20
Elektro-LN1	76°E	Roshydromet	20/01/2011	≥ 2018
Elektro-LN2	77.8°E	Roshydromet	11/12/2015	≥ 2022
Kalpena-1	74°E	ISRO	12/09/2008	≥ 2016
INSAT-3A	93.5°E	ISRO	04/10/2003	≥ 2016
INSAT-3D	82°E	ISRO	25/07/2013	≥ 2021
FY-2E	86.5°E	CMA	19/10/2004	≥ 2017

* Relocation from 3.5°E to 41.50°E, subject to decision of the EUMETSAT Council



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Future Satellites

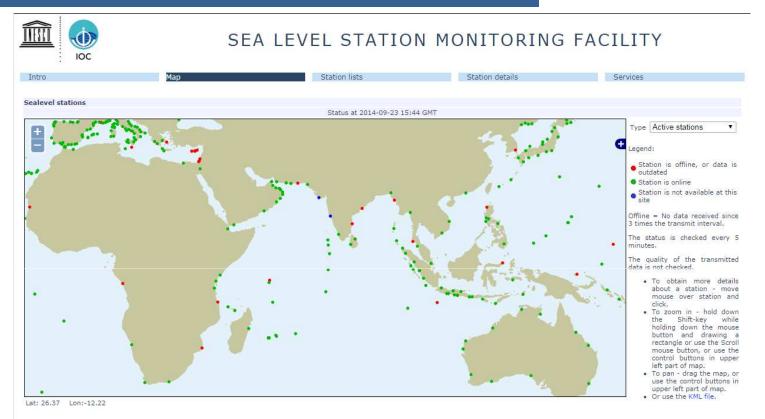
Satellite	Longitude	Operator	Launch date	Projected EOL
INSAT-3DR (Repeat)	74°E	ISRO	≥ 2016/7	≥ 2024
INSAT-3DS (Spare)	74°E	ISRO	≥ 2022	≥ 2029
GISAT	85.5°E	ISRO	≥ 2017	≥ 2024
FY-2H	86.5°E (TBC)	CMA	≥ 2016	≥ 2020
FY-4A	86.5°E (TBC)	CMA	≥ 2016	≥ 2022
FY-4B	105°E (TBC)	CMA	≥ 2018	≥ 2022
FY-4C	86.5°E (TBC)	CMA	≥ 2020	≥ 2022



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DCP Service over IODC



 Most of the DCPs allocated to Meteosat-7 at 57°E could be re-allocated to Meteosat-8 at 41.5°E. Several DCPs are at the eastern edge of the Indian Ocean are will be transferred to Himawari

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CGMS IODC Scenario

Satellite	Location	Image	Products	DCS
Meteosat-8	41.5°E	Yes	Yes	Yes (International)
INSAT 3D	82°E	Yes	Yes	Yes (regional)
Elektro-L N2	77.8°E	Yes	Yes	Yes (regional)
FY2-E	86.5°E	Yes	Yes	Yes (regional)

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CGMS IODC Scenario and Timeline status

2015

- ✓ EUMETSAT to disseminate INSAT-3D images and products via EUMETCast.
- ✓ CMA to relocate FY2-E to 86.5°E and commence an operational service.
- ✓ EUMETSAT to disseminate FY2-E images and products from 86.5°E via EUMETCast.

2016

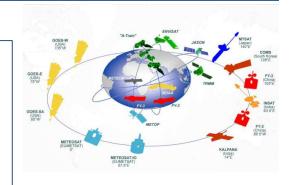
- EUMETSAT relocate Meteosat-8 to 41.5°E.
- EUMETSAT commence a Meteosat-8 operational service including images and products via EUMETCast.
- Roshydromet commence an Elektro-L N2 operational service.
- EUMETSAT to disseminate Elektro-L N2 images and products via EUMETCast.

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To be endorsed by CGMS:

CGMS is invited to endorse the implementation of the CGMS IODC roadmap and timeline.





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List of data and products declared Essential by CGMS agencies in support to IODC continuation

Agency	СМА	EUMETSAT	ISRO	ROSHYDROMET
Satellite	FY-2E	Meteosat-8 (MSG)	INSAT-3D	Elektro-L N2
Position	86.5°E	41.5°E	82°E	77.8°E
Essential data and	Imagery	Imagery	Imagery	Imagery
products				
	hourly	SEVIRI HR, 3-hourly		HRIT, half hourly
	Products	Products (EUMETCast)	Products (MOSDAC)*	Products
		Active Fire Monitoring (CAP/GRIB)		
	Surface incidence solar radiation	All Sky Radiances		
	Atmospheric Motion Vectors	Atmospheric Motion Vectors	Atmospheric Motion Vectors (On	Atmospheric Motion Vectors
	Outgoing long wave rediction		GTS and from MOSDAC)	
	Outgoing long wave radiation	Clear Sluc Dadianaas	Outgoing long-wave radiation	
	Black body brightness temperature	Clear Sky Radiances		
		Clear-Sky Reflectance Map		
	Cloud type	Cloud Analysis		
	Cloud amount	Cloud Analysis Image – MSG	Cloud Image	
		Cloud Mask		Cloud Mask
		Cloud Top Height		Cloud Top Height
		Divergence Product		
		Global Instability Index		
	Precipitation Estimate	Multi-Sensor Precipitation Estimate	Rain	
		Normalised Difference Vegetation		
		Index (daily and decadal)		
	Humidity Profile derived from cloud Analysis		Humidity profiles (from sounder)	
			Temperature profiles (from	
			sounder)	
		Optimal Cloud Analysis		
				Clear sky SST
		Total Ozone	Ozone	Total Ozone 🧹 🥑
ordination (eteorologica	Group for	Tropospheric Humidity	Upper tropospheric humidity	