

Satellite User Readiness Navigator (SATURN) http://www.wmo-sat.info/satellite-user-readiness/

PREPARING FOR THE NEXT GENERATION OF METEROLOGICAL SATELLITES

Satellites are widely used by WMO
 Members in support of weather, climate,
 water applications

The 2015-2020 generation of meteorological satellites provides:

 Unprecedented capabilities for key meteorological applications such as nowcasting, as well as challenges for both satellite operators and users

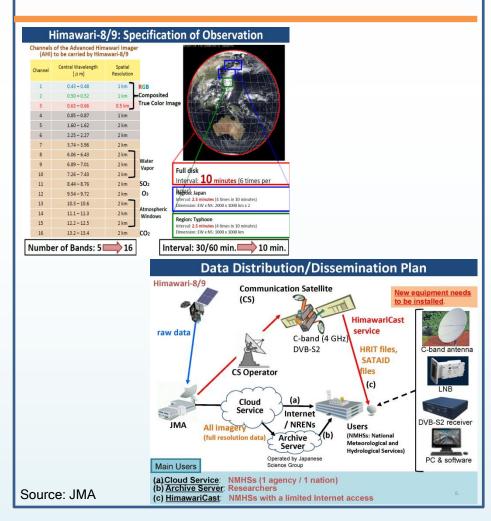
NEXT-GENERATION GEOSTATIONARY SATELLITES CONSTELLATION Arctica (Russia) Arctica (Russia) Arctica (Russia) Arctica (Russia) Arctica (Canada) Arctica (C

SATURN CONCEPT

- SATURN is an online portal with information on:
 - Upcoming geostationary satellite systems and instruments
 - · Planned products, datasets, data distribution methods
 - Test and proxy data, software tools
 - · Training material
- Developed by satellite operators and WMO
- To be extended to polar-orbiting satellites
- Regularly updated



EXAMPLE OF SATURN CONTENT



CAPABILITIES OF NEXT GENERATION GEOSTATIONARY SATELLITES

- Higher sampling rate, higher spatial resolution, more spectral channels
- Leading to more accurate and timely forecasts, and improved application support
- Data rates increase drastically, by factors of 10-100

REFERENCE USER READINESS PROJECT: MILESTONES PRIOR TO LAUNCH

Users	Satellite operators
Budget planning, R&D	Operation plans & schedules
Data reception & handling	Instrument characterization
Data processing & visualization	Data access specifications
Training and capacity building	Test data and tools; Software
Contributions to cal/val	User dialogue channels