

EARS-ATMS, EARS-CrIS and EARS-VIIRS: Three New Regional Services

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EUMETSAT Advanced Retransmission Service (EARS) Objective and Principle

Objective

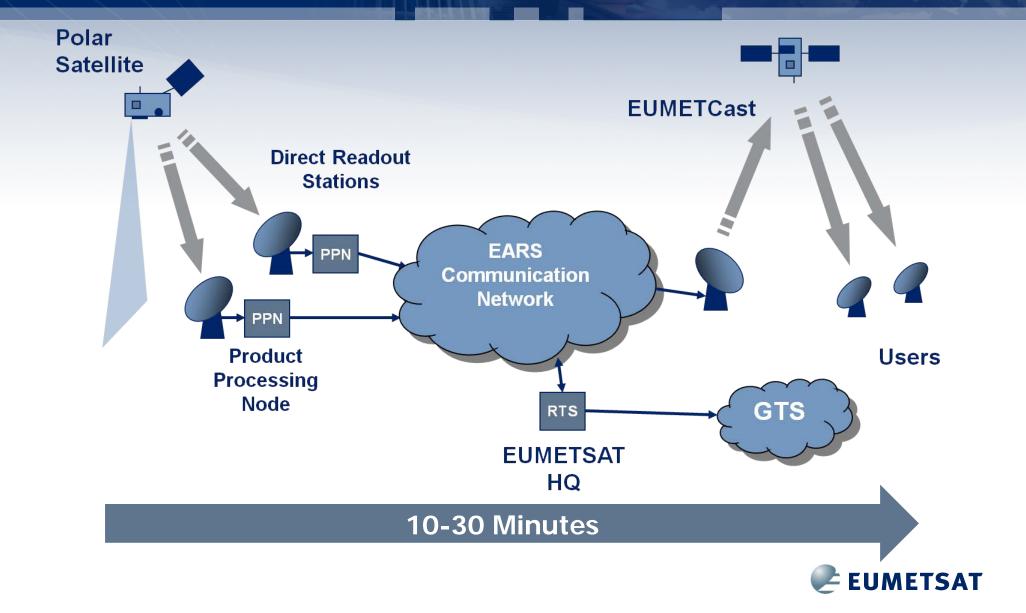
To provide Users with high timeliness regional data from Polar Orbiting Meteorological Satellites in support of Numerical Weather Prediction (NWP) and Nowcasting (NWC).

Principle

Achieved through a regional network of Direct Readout ground stations collecting, processing and retransmitting data to Users in near real time.

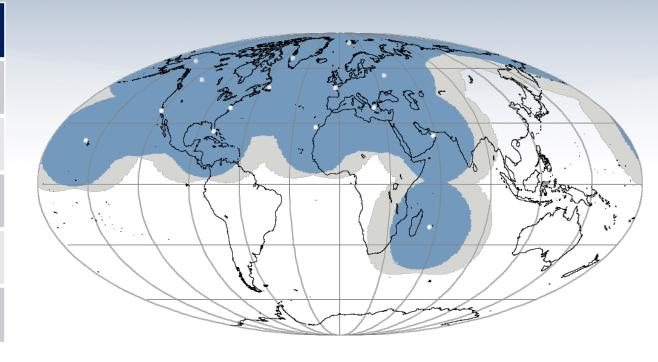


EARS – System Overview



EARS - Current Status

Services		
EARS-ATOVS	L1	
EARS-ASCAT	L2 Winds	
EARS-AVHRR	LO	
EARS-IASI	L1C	
EARS-NWC	L2 Clouds	



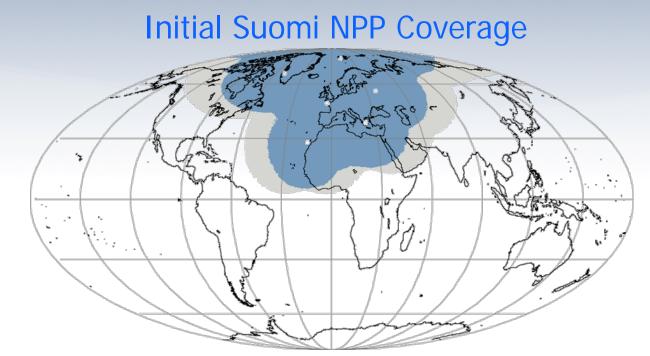
Satellites: NOAA POES

Metop



EARS - New Regional Suomi NPP Services

Services	
EARS-ATOVS	L1
EARS-ASCAT	L2 Winds
EARS-AVHRR	LO
EARS-IASI	L1C
EARS-NWC	L2 Clouds
EARS-ATMS	SDR (L1)
EARS-CrIS	SDR (L1)
EARS-VIIRS	SDR (L1)



Satellites: NOAA POES

Metop

Suomi NPP



New EUMETSAT Provided Global and Regional NPP Services

Global	Regional
ATMS	ATMS
CrIS	CrIS
	VIIRS



New EUMETSAT Provided Global and Regional NPP Services Acquisition of NPP Data

By NOAA via NOAA's main ground station(s) for global data Global Regional **ATMS ATMS CrIS CrIS VIIRS**

By EUMETSAT via EARS network of Local Reception Stations



New EUMETSAT Provided Global and Regional NPP Services Product Processing

By NOAA at IDPS/NDE

Global	Regional
ATMS	ATMS
CrIS	CrIS
	VIIRS

By EUMETSAT using CSPP/AAPP



New EUMETSAT Provided Global and Regional NPP Services Timeliness

15 minutes after products are made available by NOAA

Global	Regional
ATMS	ATMS
CrIS	CrIS
	VIIRS

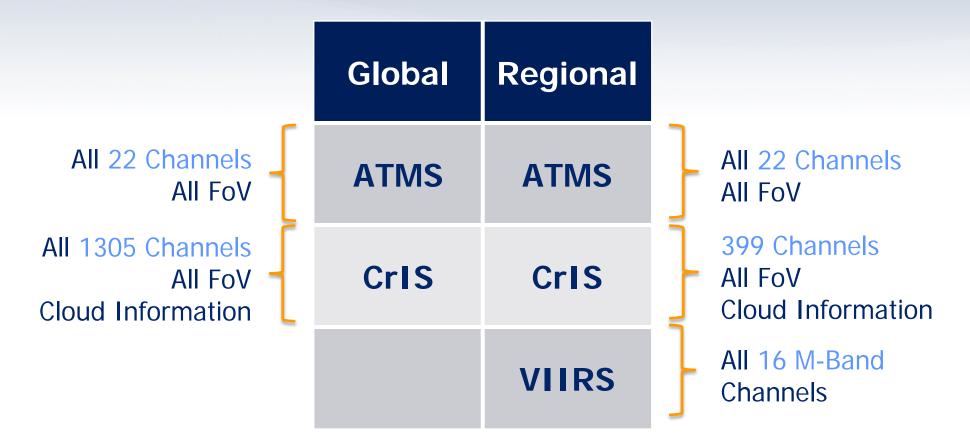
30 minutes (pass based)

15 minutes(segment based)



New EUMETSAT Provided Global and Regional NPP Services Product Content via EUMETCast Europe

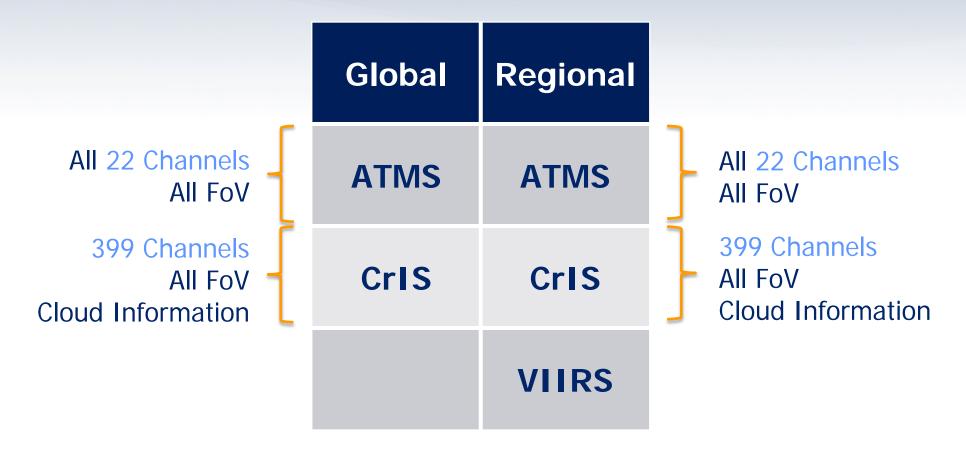
All Calibrated and Geolocated (SDR)





New EUMETSAT Provided Global and Regional NPP Services Product Content via RMDCN/GTS

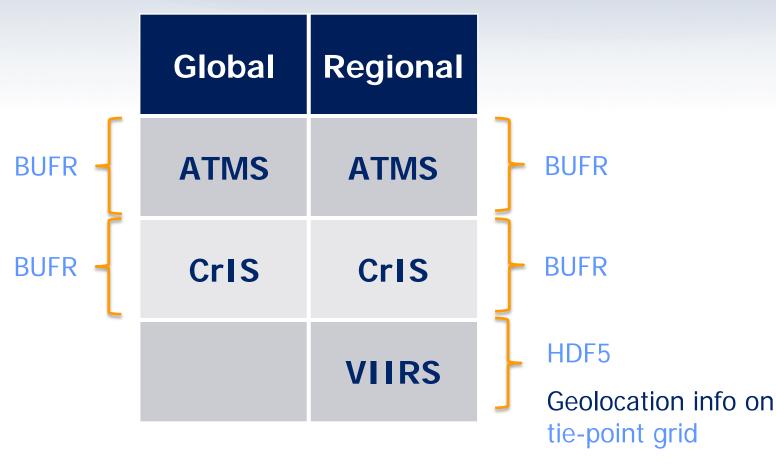
All Calibrated and Geolocated (SDR)





New EUMETSAT Provided Global and Regional NPP Services Product Formatting

All Calibrated and Geolocated (SDR)





NPP Regional Services - Conclusion

 Preparations well underway at all Stations. Expected Operational Readiness indicated as Quarter in 2012.

- New EARS Suomi NPP Services to start during 2012.
- The contributions from the:
 - Station Partners
 - NWP-SAF
 - CSPP Team
 - Users

are essential for the successful implementation of the new services and are highly appreciated!

