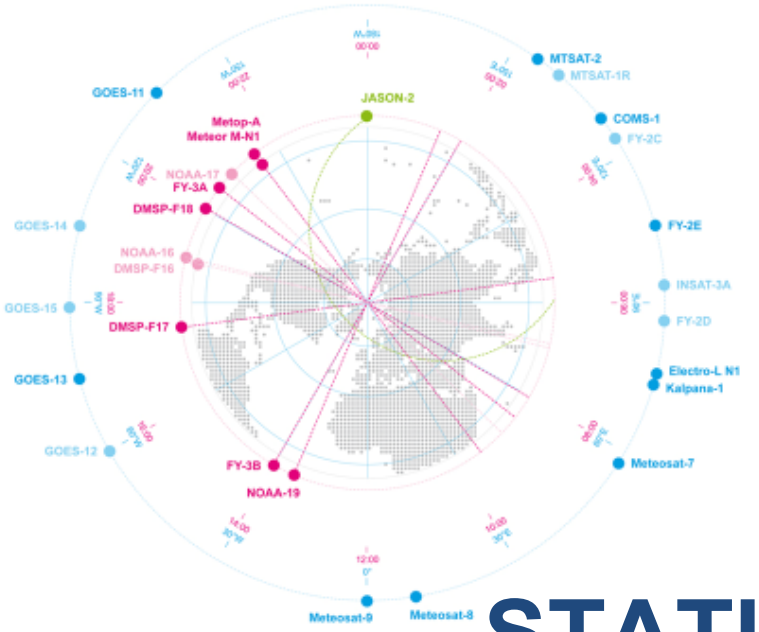


STATUS OF RUSSIAN DATA COLLECTION SYSTEM

Presented to WG I

Coordination Group for Meteorological Satellites

CGMS

2023

INTRODUCTION

- Russian data collection system (DCS) is established to provide satellite channels for meteorological data transmission from data collection platforms (DCPs) via meteorological satellites.
- DCS comprises of the network of DCPs at Roshydromet' observational sites, relay transponders at Russian satellites of Electro-L and Luch series, and ground reception stations at SRC Planeta satellite centers;
- The DCS was developed according to the international requirements of WMO and CGMS and has to provide transmission of the messages every 3 hours and also storm warnings at any time.

TECHNICAL SPECIFICATIONS

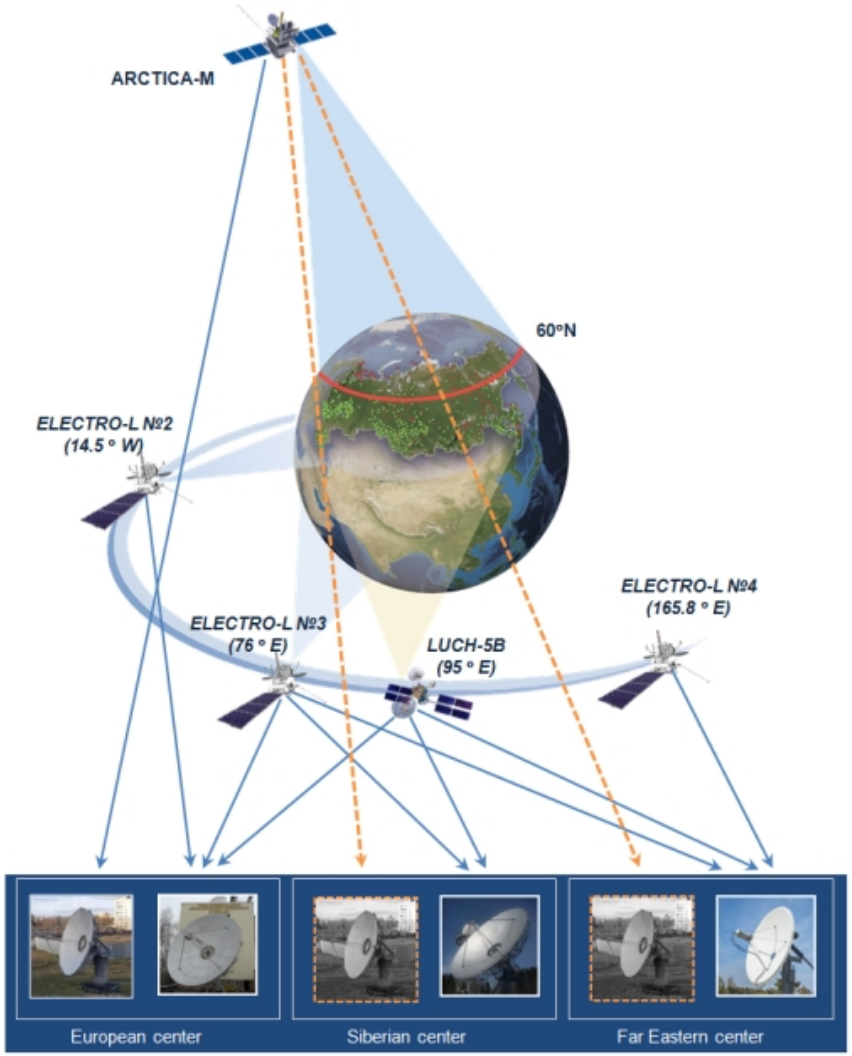
- **Frequency range-**

  401.5-402.5 MHz (uplink) and 1696.5-1697.5 MHz (downlink) for geostationary meteorological satellites,

  402-403 MHz (uplink) and 1697-1698 MHz (downlink) for highly elliptical orbit satellites;

- **Transmission rate** - 100 or 1200 bps;
- **Message size** - 5192 bit (100 bps channel) & 15000 bit (1200 bps channel);
- Data transmission every 3 hours & storm warnings at any time.

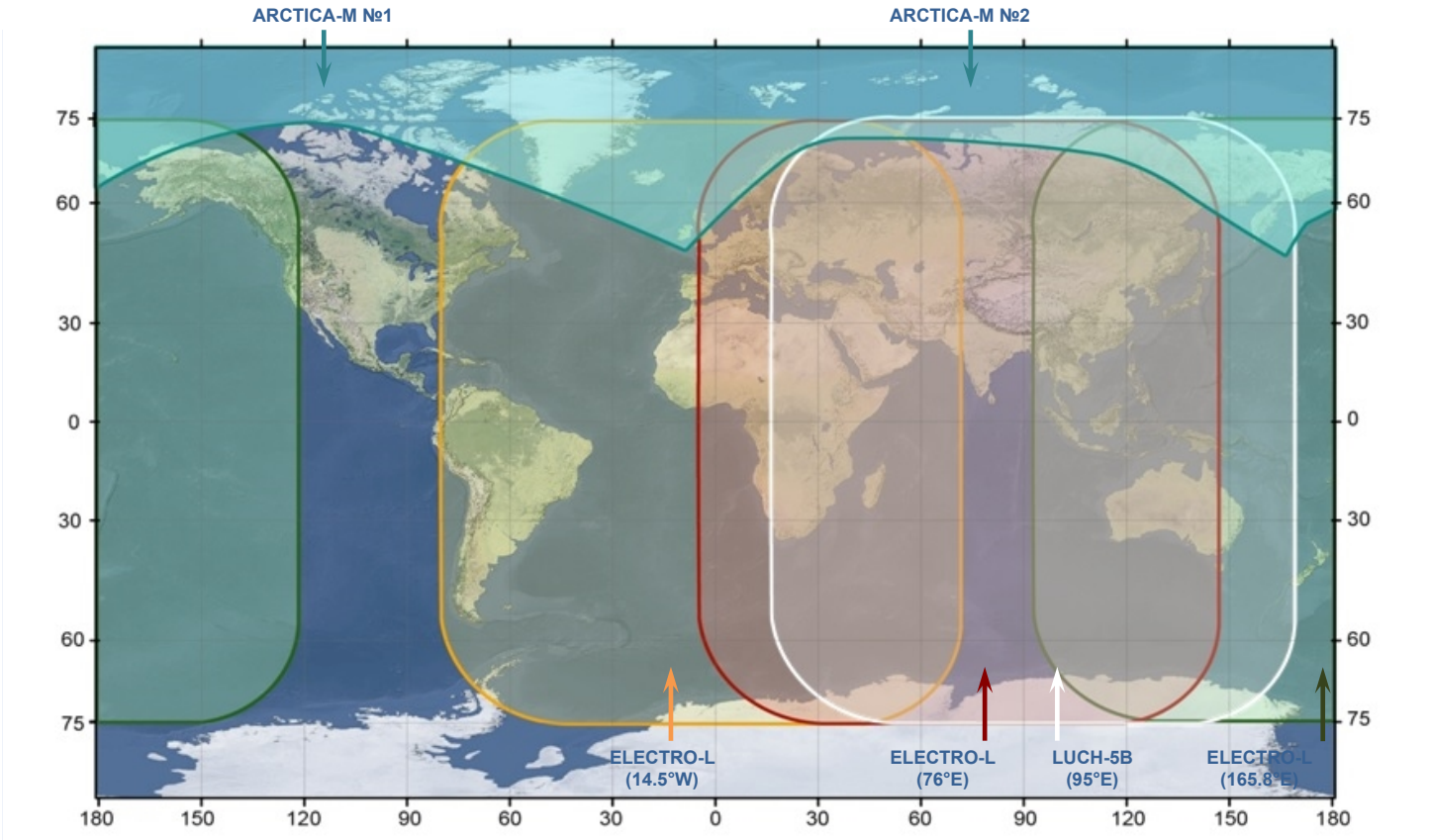
CURRENT STATUS



Data is currently being collected from 696 Roshydromet' observation network (● ● ●), including (●) difficult to access stations (141).

FUTURE PLANS

The Russian DCS will be further complemented with the launch of satellites Arctica-M №2.



THANK YOU