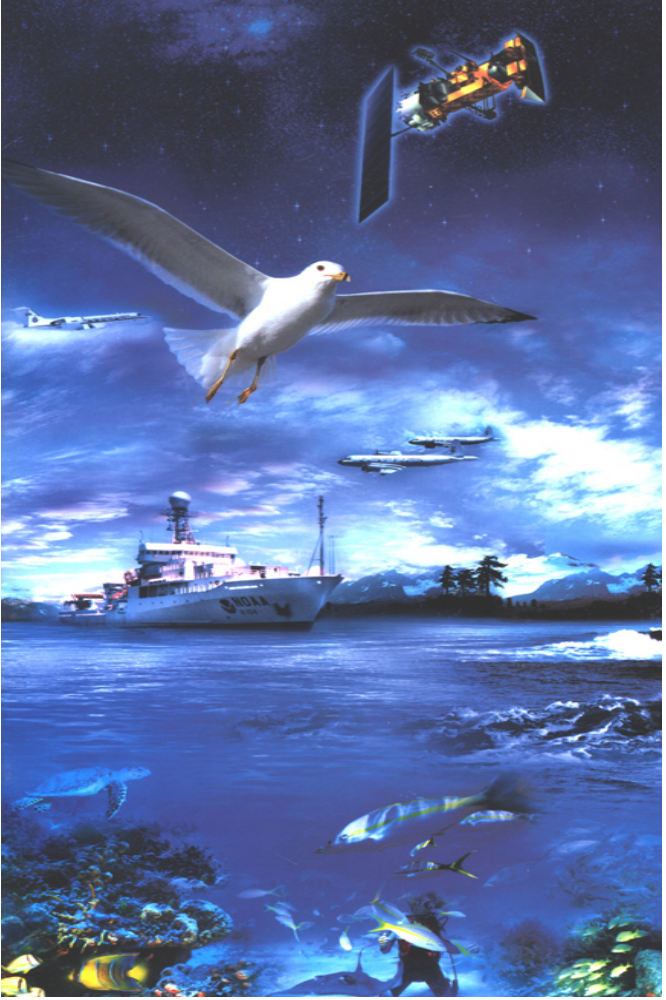

Argos Data Collection and location System (Argos DCS)

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National Environmental Satellite, Data, and Information Service (NESDIS)
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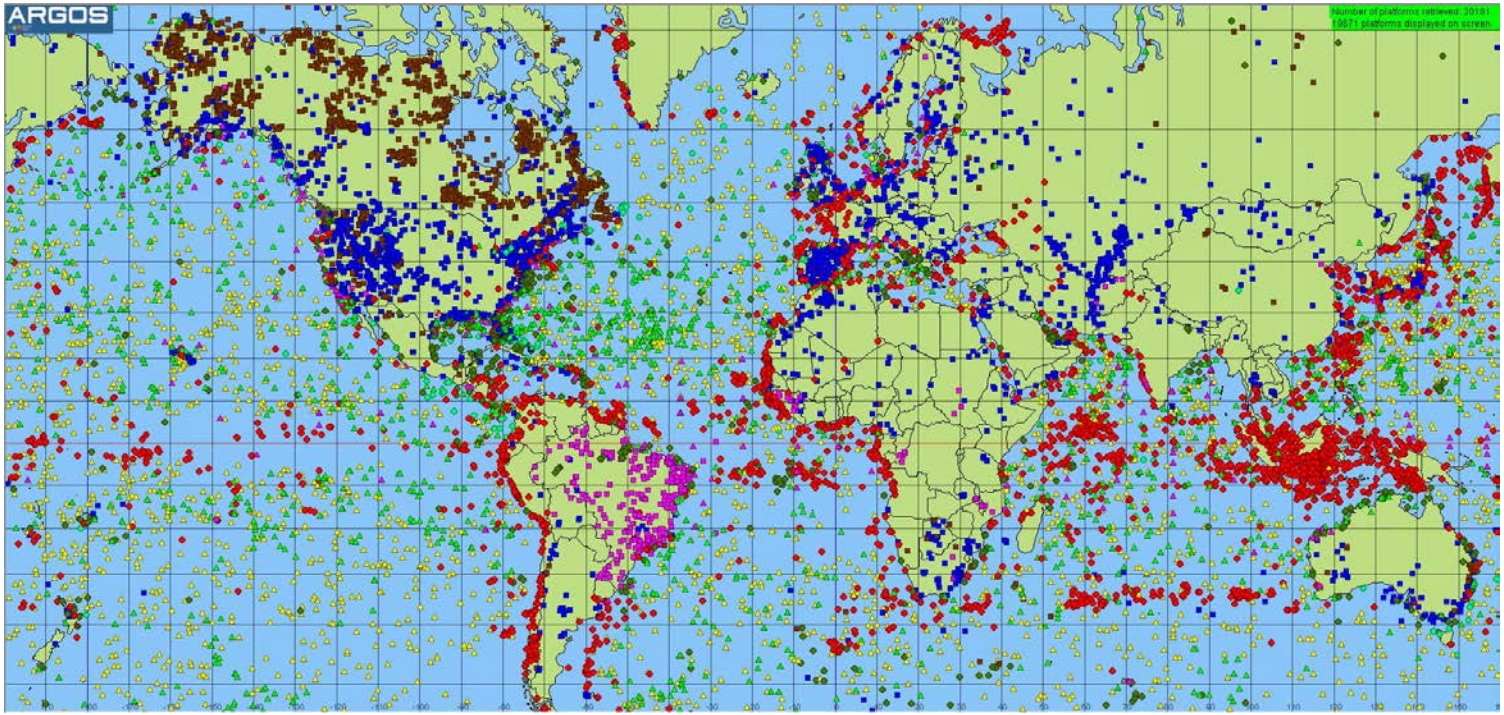
Argos DCS Overview

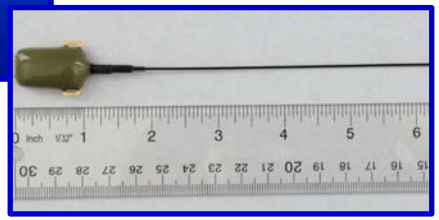
- Continuous operations since 1978.
- Provides global space-based coverage on polar-orbiting satellites.
- USA-International public-private partnership:
  - Government provides space segment
    - French Space Agency (CNES) provides Argos instruments.
    - Six Argos instruments in orbit today.
    - Four new generation Argos instruments from CNES ready to launch.
  - Global ground system network of 60+ receive stations.
  - Two global processing centers (one in Europe & one in USA) provides data processing and customer interface.

18,000 Platforms – 2,000 Users – 100 Countries



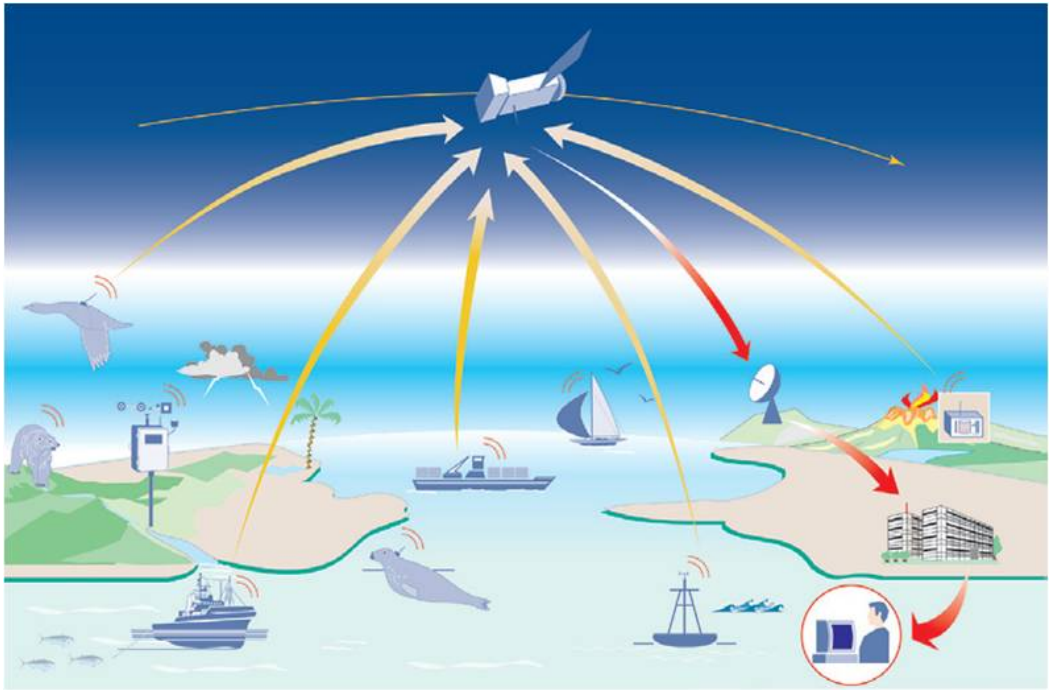
- Avian Wildlife
- Marine Wildlife
- Terrestrial Wildlife
- Vessel
- Drifting Buoy
- Fixed Station
- Moored Buoy
- Sub-Float

Key Advantages of Argos DCS



- Transmitters are very small (as light as a few grams) & require low power.
- Highly reliable.
- Support long term monitoring programs.
- Doppler shift calculations can be used to independently locate platforms anywhere on Earth.
- Rapid refresh:
  - Currently six satellite constellation
  - Global ground system network of 60+ stations
  - Data timeliness of 30-60 minutes
  - 24x7 data availability
- Operates on a non-interference basis with commercial systems.

How the Argos DCS Works



- Users complete system use agreement and deploy platforms.
- Platforms transmit to satellites as they pass overhead.
- Satellites transmit data to ground system stations.
- Data sent to ground processing centers and then delivered to users.

Status of Space Segment

	Mid-Morning Orbit (launch date)	Early Afternoon Orbit (launch date)	Late Evening Orbit (launch date)
Current	EUMETSAT Metop-A (2006) EUMETSAT Metop-B (2012)	NOAA-19 (2009)	NOAA-15 (1998) NOAA-18 (2005) ISRO SARAL (2013)
Future (next 5 yrs)	EUMETSAT Metop-C (2019) EUMETSAT Metop-SG (2022)	ISRO Oceansat-3 (2019)	NOAA CDARS-HoPS (2021)

- With Fiscal Year 2018 appropriations for Cooperative Data and Rescue Services (CDARS), NOAA has begun working towards acquisition for a hosted payload accommodation of an Argos instrument using the U.S. Air Force (USAF) Hosted Payload Solutions (HoPS) contract.

- A Fair Opportunity Selection Plan was released by USAF to eight HoPS vendors in July 2018. NOAA and USAF are reviewing proposals.

- A selection will be made in November 2018.

Questions?

http://www.noaasis.noaa.gov/ARGOS/