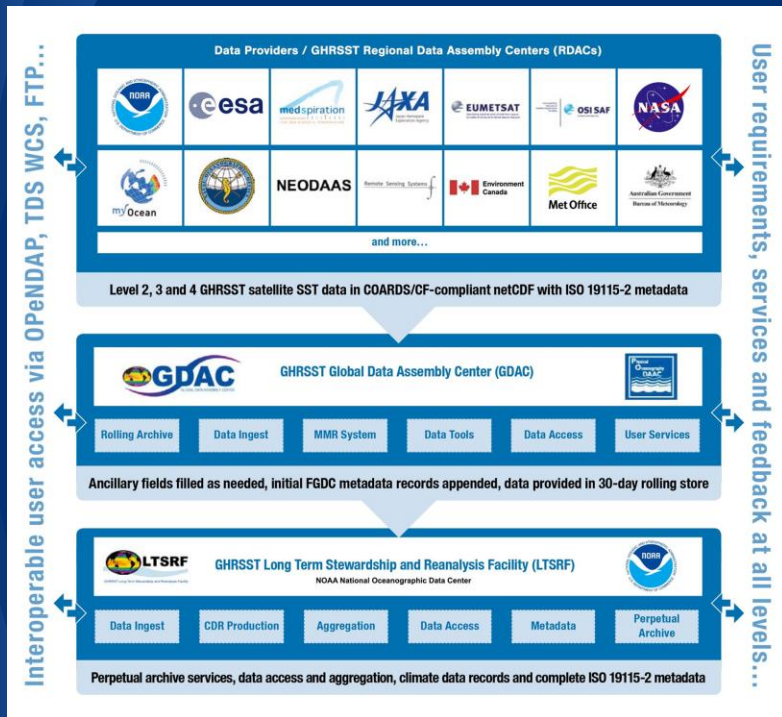


Modernization of the GHRSSST Regional-Global Task Sharing (R-GTS) Framework: A Proposal

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GHRSSST R-GTS Framework: Today

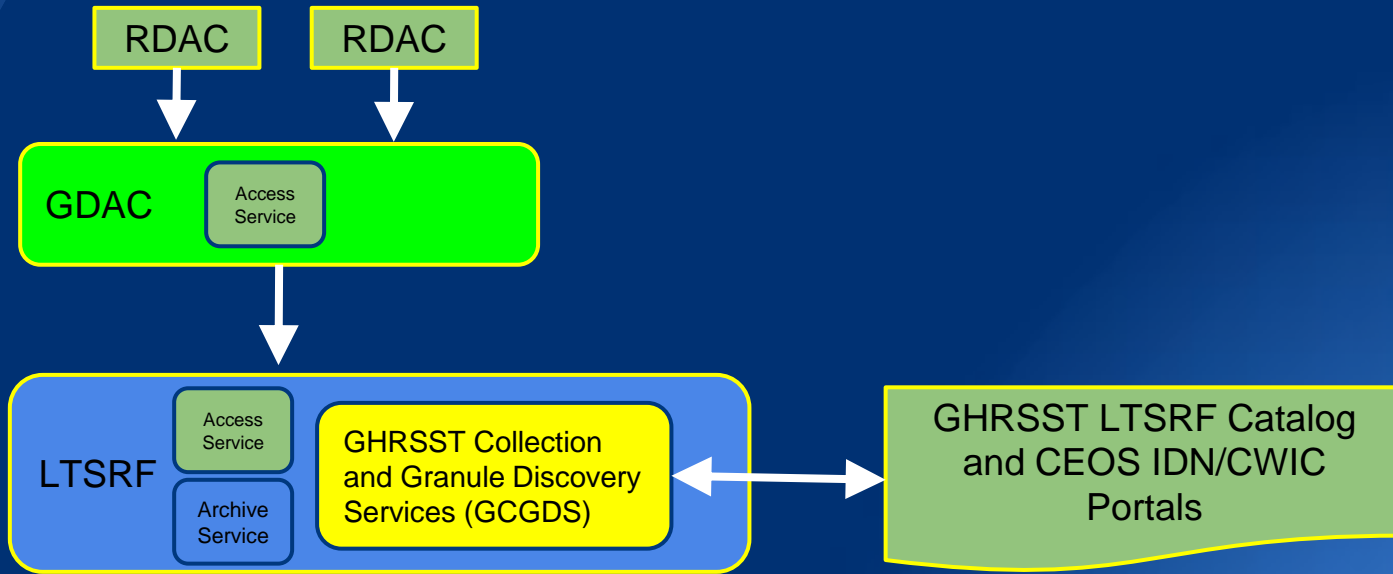


- All “official” data flow from RDAC to GDAC to LTSRF
- Data is accessible at all levels
- RDACs free to do whatever they like, as long as they submit GDS-compliant data to GDAC
- Metadata “grows as it flows” from one level to the next
- Considered highly successful, and nothing is “broken”
- LTSRF publishes collection metadata to CEOS IDN, and supports CWIC granule searches via CSW and OpenSearch



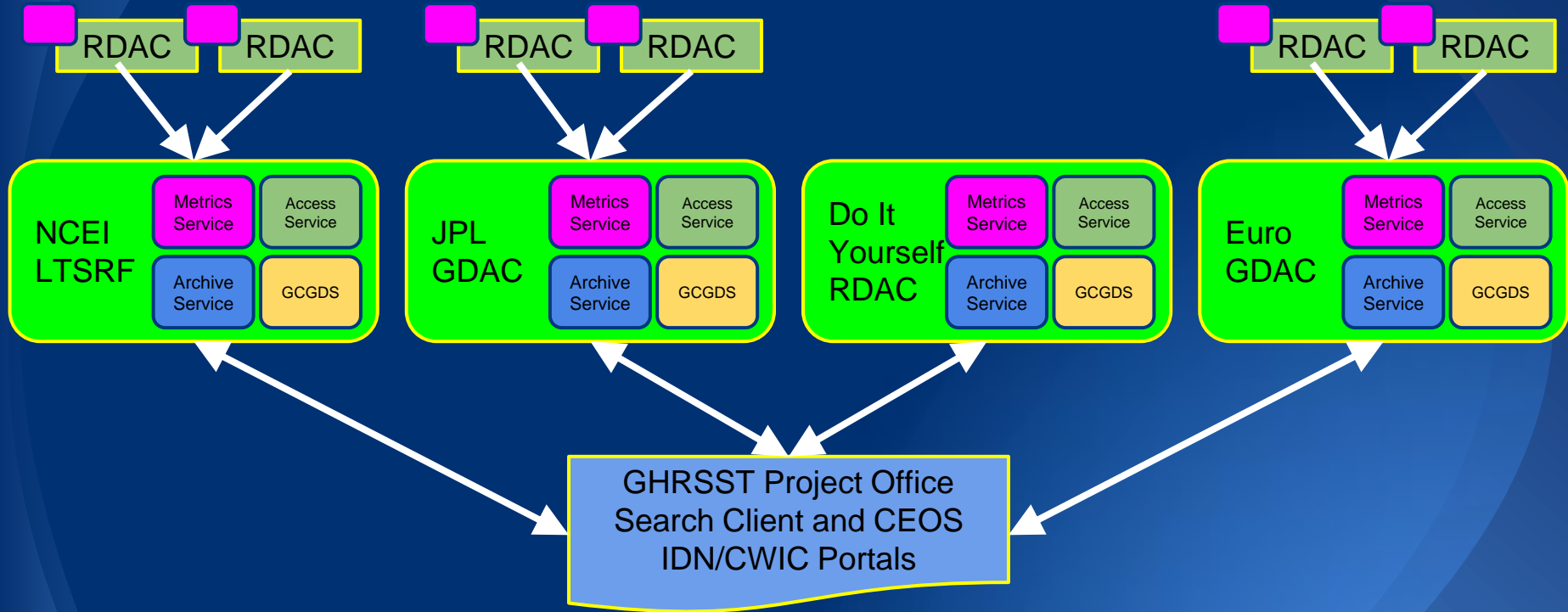
IDN and CWIC

Existing GHRST R-GTS Framework



In the existing R/GTS framework, users can access GHRST data from RDACs, GDAC, and LTSRF. GDAC has the most comprehensive metadata catalog. LTSRF's catalog is close, less the most recent 30 days for most products. LTSRF has the most comprehensive store of data files. Note GDAC at JPL also provides catalog to CEOS via the NASA CMR.

Proposed Future R-GTS Framework



GCGDS = GHRSSST Collection and Granule Discovery Services

Archive Service

Access Service

Metrics Service

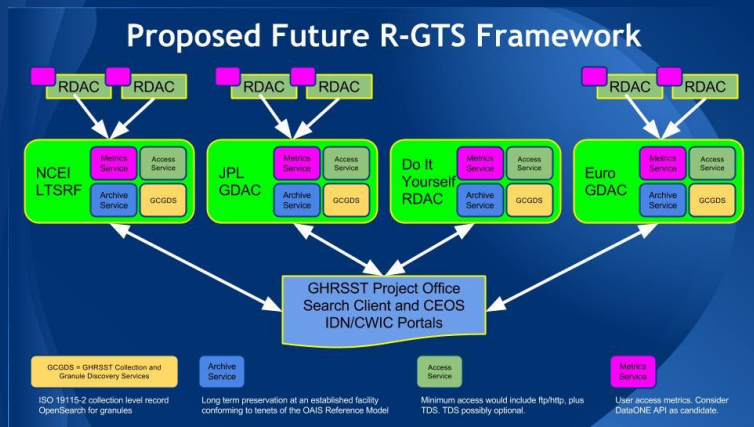
ISO 19115-2 collection level record
OpenSearch for granules

Long term preservation at an established facility conforming to tenets of the OAIS Reference Model

Minimum access would include ftp/http, plus TDS. TDS possibly optional.

User access metrics. Consider DataONE API as candidate.

Notes on Proposed New GHRSSST R-GTS



- “GCGDS” protocols have been established between LTSRF and CEOS but would need to be documented clearly so new RDACs not sending their data via GDAC/LTSRF could deploy them
- A key to this overall idea is that users would be directed to the central GPO or CEOS catalogs, where all GHRSSST data, no matter where it resides, could be *discovered*. When access is initiated, those central catalogs provide the granule data access links to the data files at the appropriate repository
- The GPO would need to establish a verification capability to ensure all components provide reliable services
- User metrics services would be very simple at first, focused on data volumes, files, and numbers of users. GPO would aggregate these numbers.

Proposed RDAC interface changes

- To do (list all RDACs including futures)
 - CMEMS (MyOcean) ??? (RDAC or GDAC ??)
- GHRSSST GDAC (JPL PO.DAAC)
 - REMSS
 - JPL
 - OUR_OCEAN
 - NAVO
 - JAXA
 - CMC
- GHRSSST LTSRF (NOAA NCEI)
 - OSPO
 - STAR (future RDAC)
 - NCEI
 - AUS
 - UFRJ
- GHRSSST GDAC2 (IFREMER)
 - OSISAF
 - Medspiration
 - DMI
 - NEODAAS
 - UKMO
 - GOS
 - Mirror of JAXA / REMSS / NAVO / ACSPO

Note: each GDAC could also acquire whatever other data they need.

