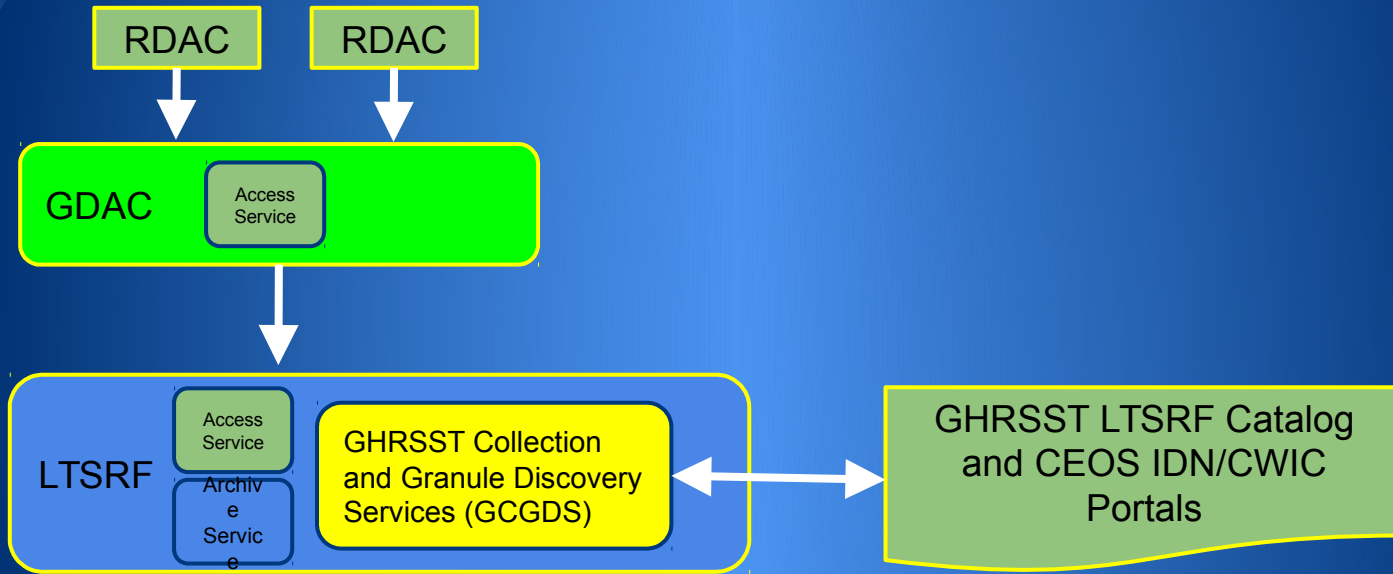


Modernization of the GHR SST Regional-Global Task Sharing (R-GTS) Framework: A Proposal

Kenneth S. Casey, Ed Armstrong, Jean Francois Piolle,
and Gary Corlett

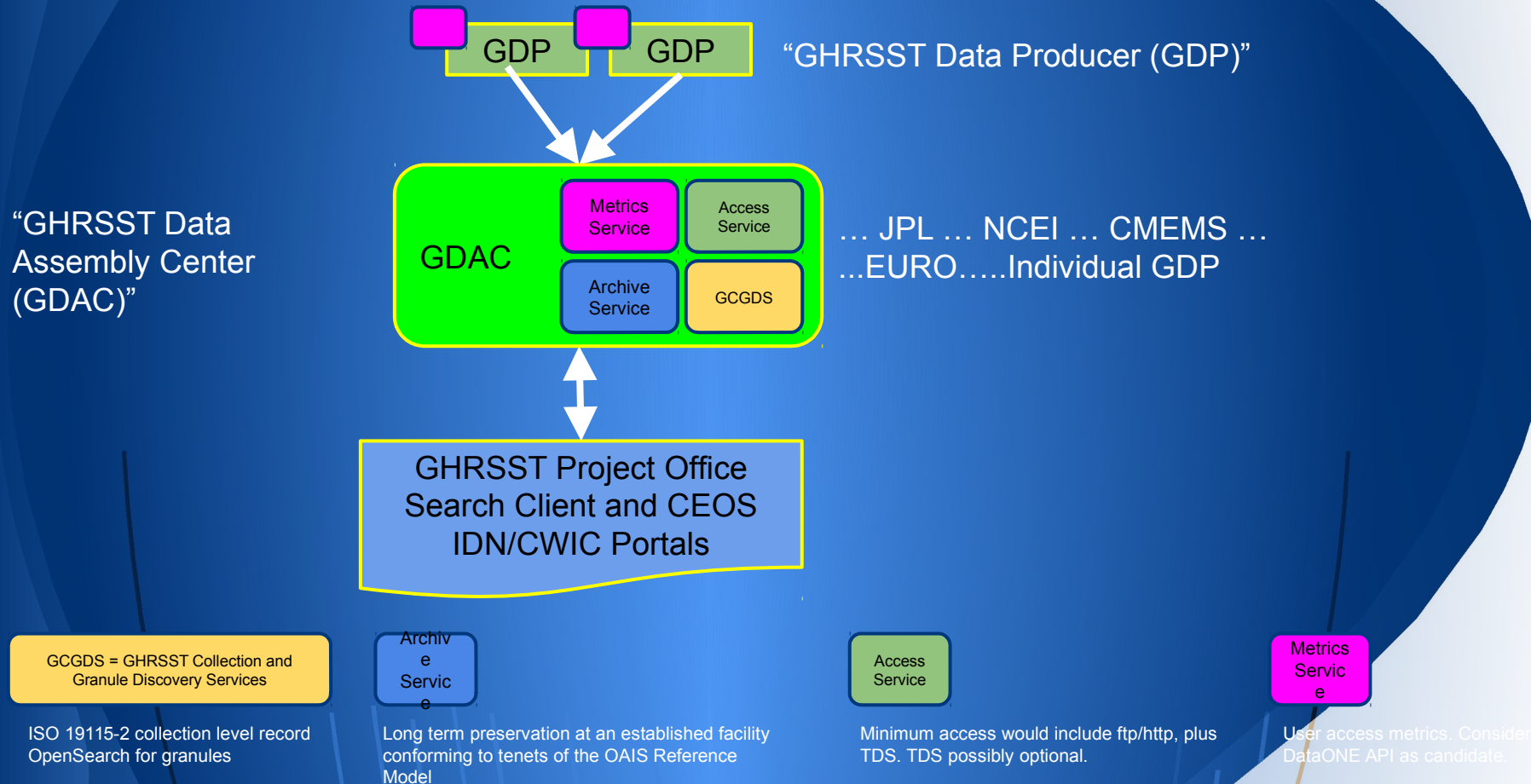
24 May 2016

Existing GHRST R-GTS Framework

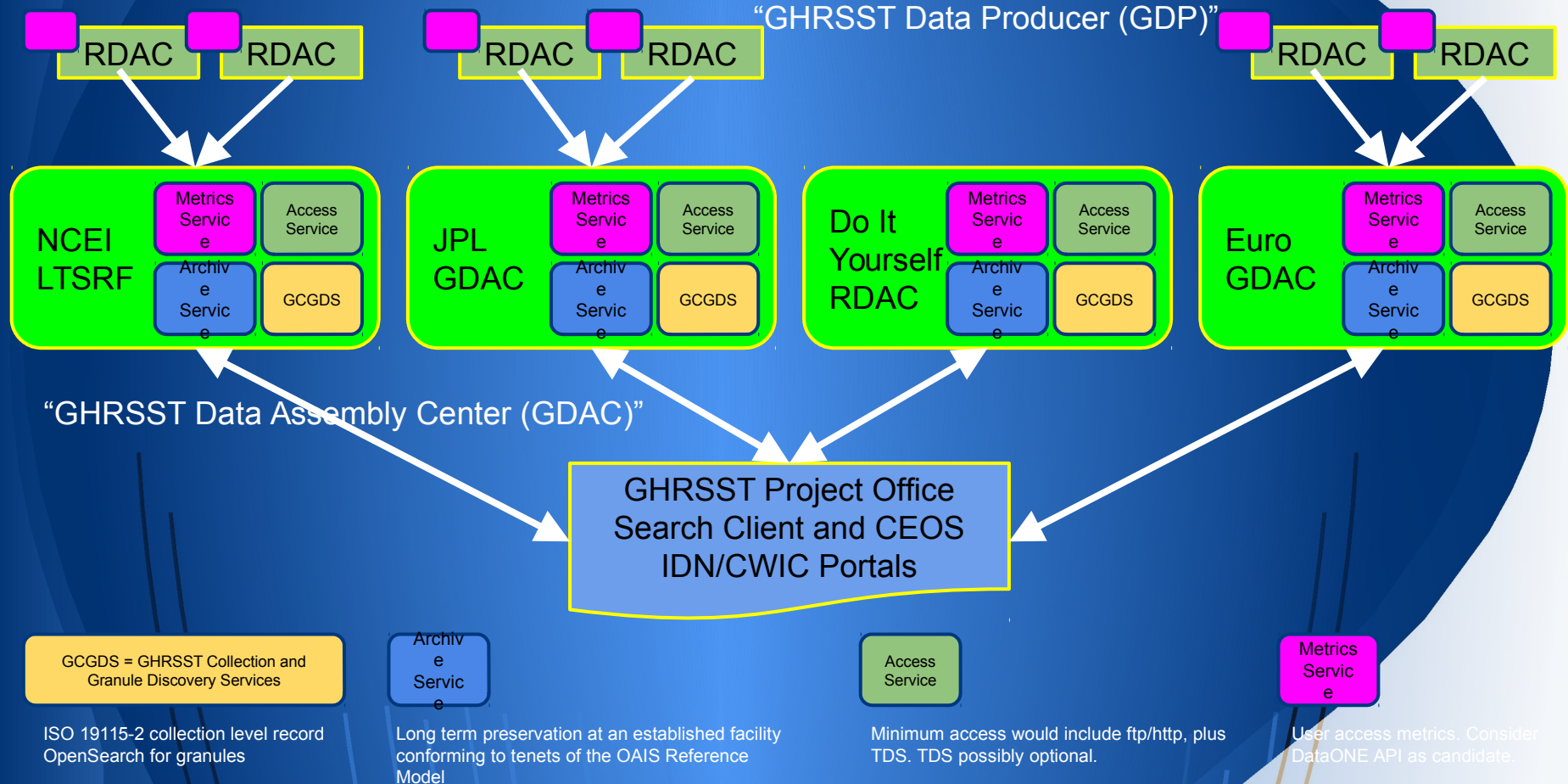


In the existing R/GTS framework, users can access GHRST data from RDACs, GDAC, and LTSRF. GDAC has the most comprehensive metadata catalog. LTSRF's catalog is close, less the most recent 30 days for most products. LTSRF has the most comprehensive store of data files. Note GDAC at JPL also provides catalog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

Proposed Future R-GTS Framework



Proposed Future R-GTS Framework



Metrics Service	<ul style="list-style-type: none"> For System: GPO uses https://statuschecker.fgdc.gov to monitor set of agreed-upon endpoints at GDACs Each RDAC/GDAC provides monthly aggregated number of files, unique IP addresses, and volumes served per access method 	Access Service	<ul style="list-style-type: none"> http/https Data Access Protocol (DAP) ftp/sftp/ftps - investigate Thredds, WMS and WCS for L3 and L4 data
Archive Service	<ul style="list-style-type: none"> Each GDAC (Archive Services) provides a written response to a short document template about how they meet OAIS Reference Model responsibilities functional entity areas (Ingest, Archival Storage, Access, etc.) 	GCGDS	<ul style="list-style-type: none"> ISO 19115-2 collection level record for each GHRSSST product, submitted to CEOS IDN Granule search endpoint meeting OpenSearch CWIC specifications

New GHRSSST system document to be finalized by next GHRSSST meeting

Proposed RDAC interface changes

- To do (list all RDACs including futures)
- S-3 RDAC (EUMETSAT)
- CMEMS (CNR)

- UKMO
- GOS
- DMI
- METNO

- GHRSS GDAC (JPL PO.DAAC)



- REMSS
- JPL
- JPL_OUROCEAN
- NAVO
- JAXA
- CMC

- GHRSS LTSRF (NOAA NCEI)



- OSPO
- STAR (future RDAC)
- NCEI
- ABOM
- UFRJ

- GHRSS GDAC2 (IFREMER)

- OSISAF
- Medspiration
- NEODAAS

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

Digital Object Identifiers (DOIs)

- Recommended for traceability and citation
- Wrap up of GHRST 16 recommendations into a guideline document
 - Introduction to DOIs
 - Best practices : multiple copies of datasets, authorship, retirement of a dataset, dynamic datasets
 - Recommended content for landing pages and metadata
- Minor rephrasing to be done before circulation to DAS TAG members and science team