Virtual Oceanographic Data Center (VODC)
Status Update

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Outline

- Hardware Procurement
- Staffing
- Schedule
- Near term deliverables
  - Interface to PO.DAAC GHRSST
    - Product Service
    - Profile Service
- Collaborations

Hardware Procurement

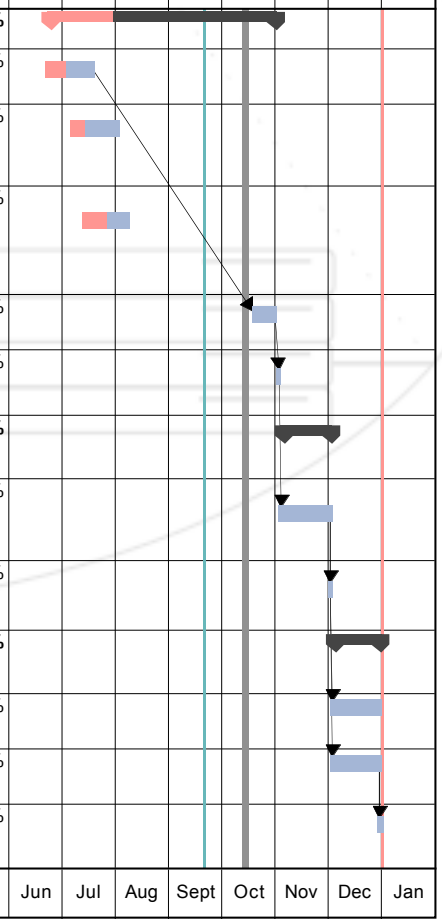
- Currently in procurement
  - vodc.jpl.nasa.gov
    - Dual XEON 5410 Quad Core 2.33 GHz w/ 12M Cache
    - 8 TB storage (5 TB usable space, RAID)
    - 16 GB RAM
    - Should be here within 2 weeks
- Already procured
  - jpl-esg.jpl.nasa.gov
    - Dual XEON 5410 Quad Core 2.33 GHz w/ 12M Cache
    - 8 TB storage (5 TB usable space, RAID)
    - 16 GB RAM
- Will share hardware and software resources with funded Crichton's IPP Seed Fund project

Staffing

- Hired .5 FTE developer
  - Sean McCleese
  - Currently working on GHRSST OODT *product server* (web service delivering the product "bits")
  - Will work with Mattmann to implement all VODC software

Schedule

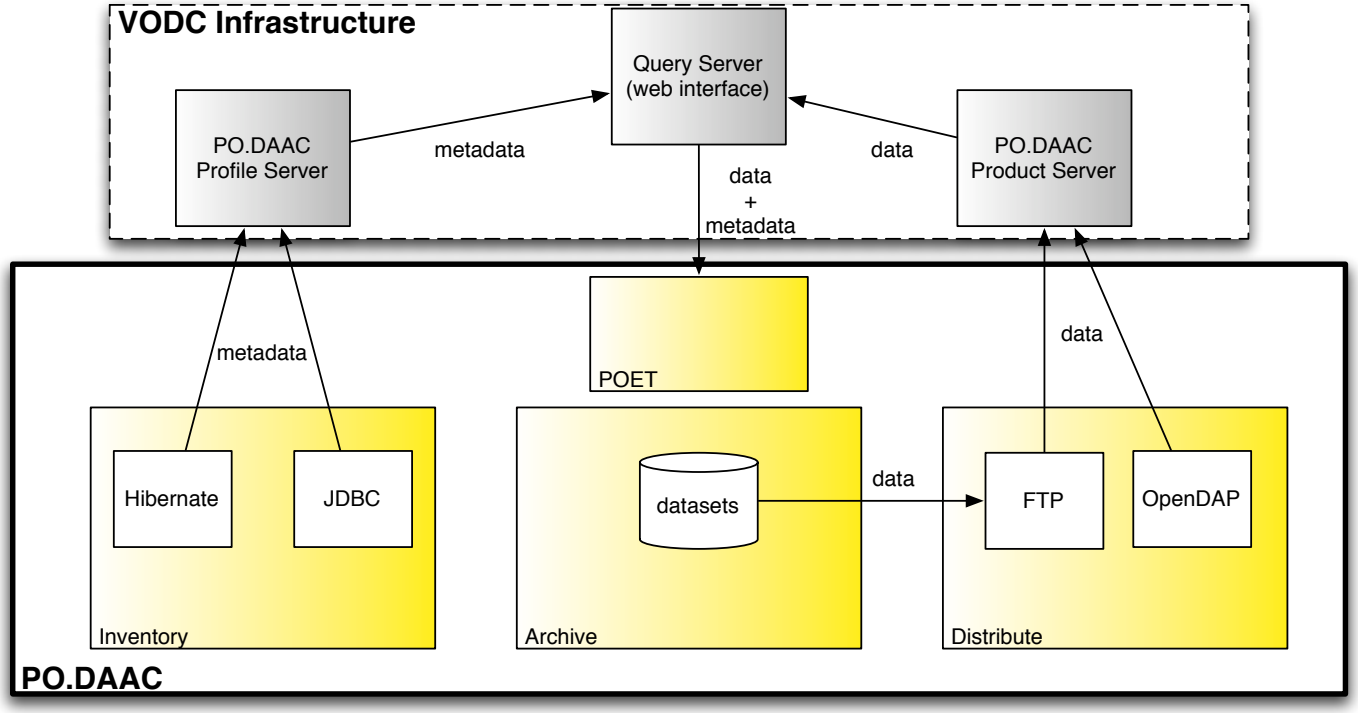
	Activity Name	Duration (Work Days)	Start Date	Finish Date	Resources Assigned	% Complete
1	Connect to PO.DAAC	**95.00**	**6/23/08**	**10/31/08**		**29%**
2	ECHO/PO.DAAC data model integration	20.00	6/23/08	7/18/08	Chris Mattmann, Rob Raski	40%
3	Define Profile Server to connect to Inventory Subsystem	20.00	7/7/08	8/1/08	Chris Mattmann	25%
4	Define Product Server to connect to Archive/Distribute Subsystems	20.00	7/14/08	8/8/08	Sean McCleese	50%
5	Define procedure to select VODC datasets	10.00	10/20/08	10/31/08	Chris Mattmann	0%
6	Demonstration to PO.DAAC	1.00	11/3/08	11/3/08	Chris Mattmann	0%
7	Prototype Space/Time Query Web Interface	**20.00**	**11/4/08**	**12/1/08**		**0%**
8	Link to Products available via Product Server	20.00	11/4/08	12/1/08	SeanMcCleese	0%
9	Demonstration to PO.DAAC	1.00	12/2/08	12/2/08	Chris Mattmann	0%
10	Define VODC higher level services	**20.00**	**12/3/08**	**12/30/08**		**0%**
11	Define a strategy for use of POET	20.00	12/3/08	12/30/08	Chris Mattmann, Rob Raski	0%
12	Deinfe a strategy for use of OpenDAP	20.00	12/3/08	12/30/08	Chris Mattmann, Rob Raski	0%
13	Demonstration to PO.DAAC	1.00	12/31/08	12/31/08	Chris Mattmann	0%



Near term deliverables

- OODT Profile and Product Server connection to GHRSST/PO.DAAC
  - ICD and signed MOU in preparation
  - Deployed software onto vodc.jpl.nasa.gov
- Prototype Space/Time web query interface
- Deployment of VODC portal for distributing software and disseminating presentations and papers, and news
- Command line tools for getting data and finding data
  - Shared infrastructure with CDX, IPP
- Plan for connecting to NVODS

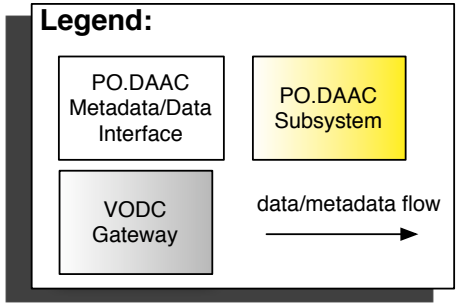
Architecture for GHRSST connection



Data Interfaces

Local -
FTP ftp://
OpenDAP: http://
Archive: file

Remote -
FTP
OpenDAP



Collaborations

- Presented VODC as part of joint CDX/IPP/VODC at 2 recent symposia
  - GO ESSP 2008 Workshop, 9/14/2008, Seattle, WA
  - SOA Workshop at GI-Science 2008 conference, Park City, UT, 9/22/2008-9/23/2008
- Potential for collaboration with myOcean, European Union funded project with similar goals
  - http://en.wikipedia.org/wiki/MyOcean

Questions?