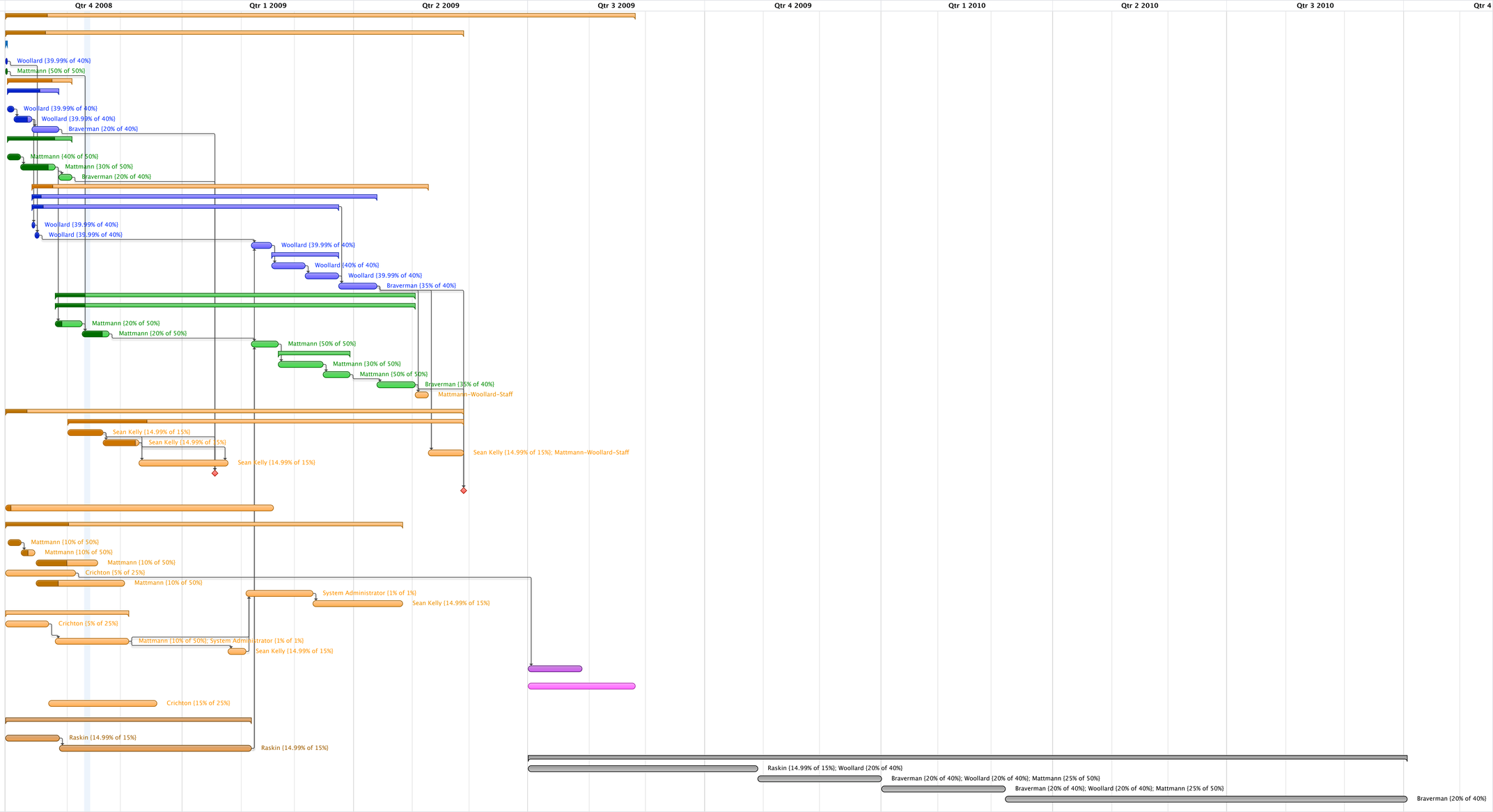Task	Effort
1) Virtual Network	55w 2d
Assumes Mattmann-Woollard-Staff at 100% starting 1/1/09.	
1.1) Basic CDX software	36w 2d 2h
1.1.1) Resource identification re: host missions	4h
Assumes AIRS and MLS provide servers for us until CDX servers are...	
1.1.1.1) Get accounts in AIRS SCF's; machine access, open...	2h
1.1.1.2) Get accounts in MLS SCF's machine access, open...	2h
1.1.2) Product servers (cdxls, cdxget)	2w 2h
1.1.2.1) Product server for AIRS. Metrics: 1) proportion o...	4d 2h
Woollard is already familiar with AIRS.	
1.1.2.1.1) Understand repository structure for AIRS	1d
1.1.2.1.2) Query handler for AIRS products	2d 2h
1.1.2.1.3) Test AIRS repository interfaces with comman...	1d
1.1.2.2) Product server for MLS: Metrics: 1) proportion o...	1w 1d
Mattmann is not already familiar with MLS.	
1.1.2.2.1) Understand repository structure for MLS	2d
1.1.2.2.2) Query handler for MLS products	3d
1.1.2.2.3) Test MLS repository interfaces with command...	1d
1.1.3) Profile servers (cdxsearch)	9w 2d 4h
1.1.3.1) Profile server for AIRS. Metrics: 1) Accuracy =...	3w 3d 4h
1.1.3.1.1) Develop interfaces to AIRS and mission...	2w 3d 4h
Woollard is already familiar with AIRS.	
1.1.3.1.1.1) Understanding AIRS data model	2h
1.1.3.1.1.2) Understand AIRS metadata	2h
1.1.3.1.1.3) Mapping to ontology for AIRS Level 2...	3d
1.1.3.1.1.4) Query handler for AIRS metadata	2w
1.1.3.1.1.4.1) Translate profile server queries int...	1w
1.1.3.1.1.4.2) Translate DOM results back into...	1w
1.1.3.1.2) Test AIRS catalog interfaces with command...	1w
1.1.3.2) Profile server for MLS. Metrics: 1) Accuracy =...	4w 4d
1.1.3.2.1) Develop interfaces to MLS mission data	4w 4d
Mattmann is not already familiar with MLS.	
1.1.3.2.1.1) Understanding MLS data model	2d
1.1.3.2.1.2) Understand MLS metadata	2d
1.1.3.2.1.3) Mapping to ontology for MLS Level 2...	1w
1.1.3.2.1.4) Query handler for MLS metadata	2w
1.1.3.2.1.4.1) Translate profile server queries int...	1w
1.1.3.2.1.4.2) Translate MySQL results back into...	1w
1.1.3.2.1.5) Test MLS catalog interfaces with...	1w
1.1.3.3) Build package to install (tarball) profile server...	1w
Temporarily assigned to Mattmann-Woollard-Staff.	
1.1.4) Command line tools	24w 4d
1.1.4.1) Develop tools	3w 4d
1.1.4.1.1) cdxls	2d
1.1.4.1.2) cdxget	2d
1.1.4.1.3) cdxsearch	3w
1.1.4.2) Build package to install tools on user machines	1w
1.1.4.3) Demo cdxls and cdxget for QMR on AIRS and...	
First major milestone.	
1.1.4.4) Demo cdxsearch for QMR on AIRS and MLS	
Second major milestone. Currently shows about 4 weeks too late.	
1.1.4.5) Open source distribution mechanism	20w
This is an on-going activity.	
1.2) CDX Infrastructure	3w 6h
These activities proceed in parallel with those in 1.1.	
1.2.1) Set up configuration management for CDX software	4h
1.2.2) Procedures for configuration management plan	4h
1.2.3) MOU's with MLS and AIRS	2d
1.2.4) Interface control document with IPP	1d
1.2.5) Hardware management plan	3d
1.2.6) Obtain PAR for CDX server	2h
1.2.7) CDX portal	1w
1.2.8) Hardware	3d 4h
1.2.8.1) Procure CDX server	4h
Prior to acquisition, we share IPP server.	
1.2.8.2) Set up CDX server	3d
1.3) Set up OODT on CDX server	1d
This is where we switch over to using CDX server.	
1.4) Integration/connection to ESG data source	4w
Need IPP schedule for this.	
1.5) Integration/connection to OCO data source	8w
Pending OCO launch.	
1.6) Architecture design	1w
This is an on-going activity.	
1.7) Ontology model for CDX	2w 3d
These activities proceed in parallel with 1.1 and 1.2.	
1.7.1) Attributes for supporting repository access	3d
1.7.2) Attributes for searching catalogs	2w
2) Data Rectification and Manipulation	24w
2.1) Metadata tools for CF convention	6w
2.2) Translators for spatial and temporal rectification	6w
2.3) Instrument samplers	6w
2.4) Functions/tools for user-defined gridded data	6w
Leverage Hook Hua's web services.