



National Aeronautics and Space  
Administration  
Jet Propulsion Laboratory  
California Institute of Technology



WSDC Management

# WISE Science Data Center CDR

## WSDC Management

R. Cutri - IPAC

WISE Science Data Manager



WISE Science Data Center CDR – January 29-30, 2008

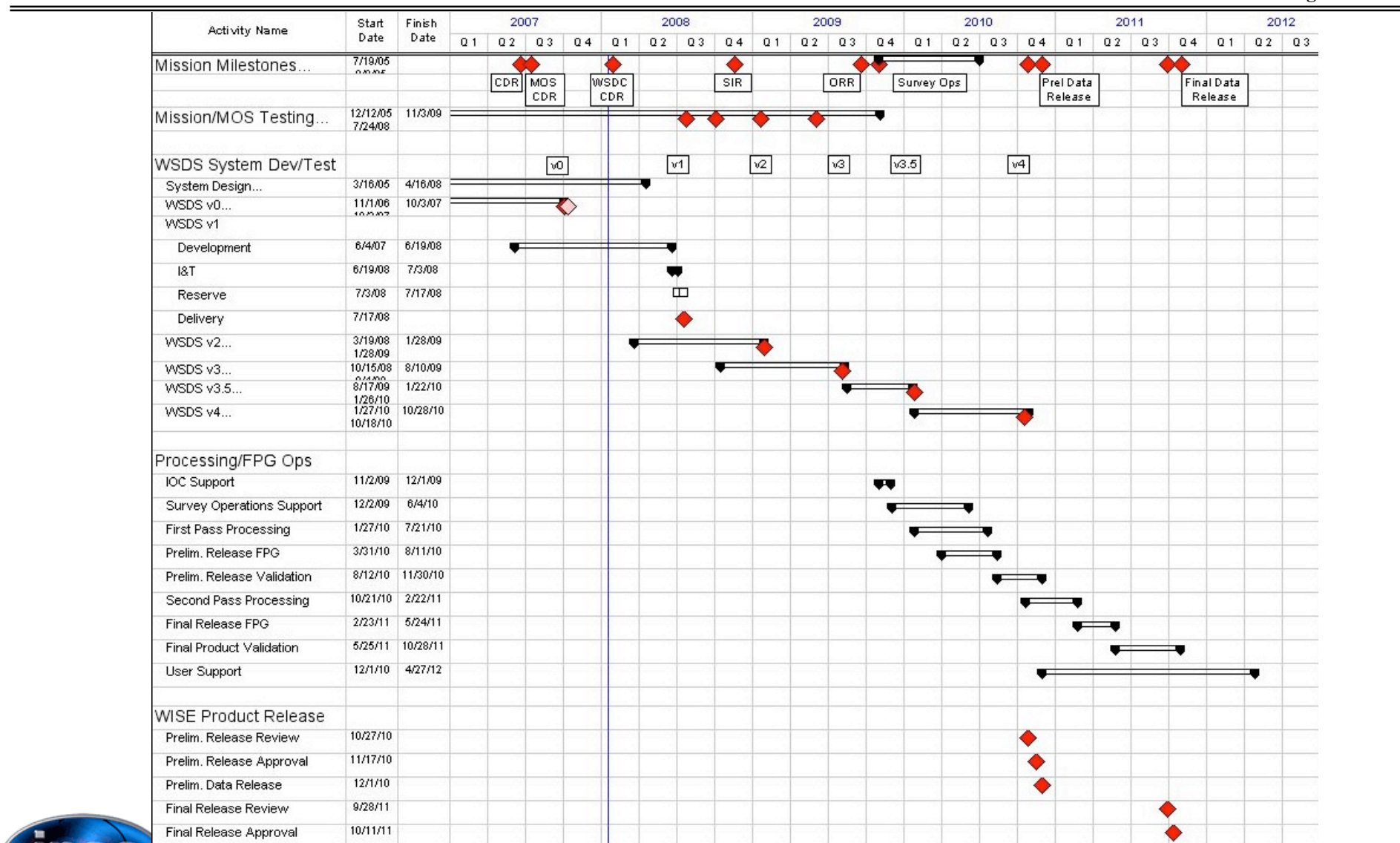
RMC - 1



# WSDC Top Level Schedule



WSDC Management



WISE Science Data Center CDR – January 29-30, 2008

RMC - 2



# WSDC WBS and Task Plan

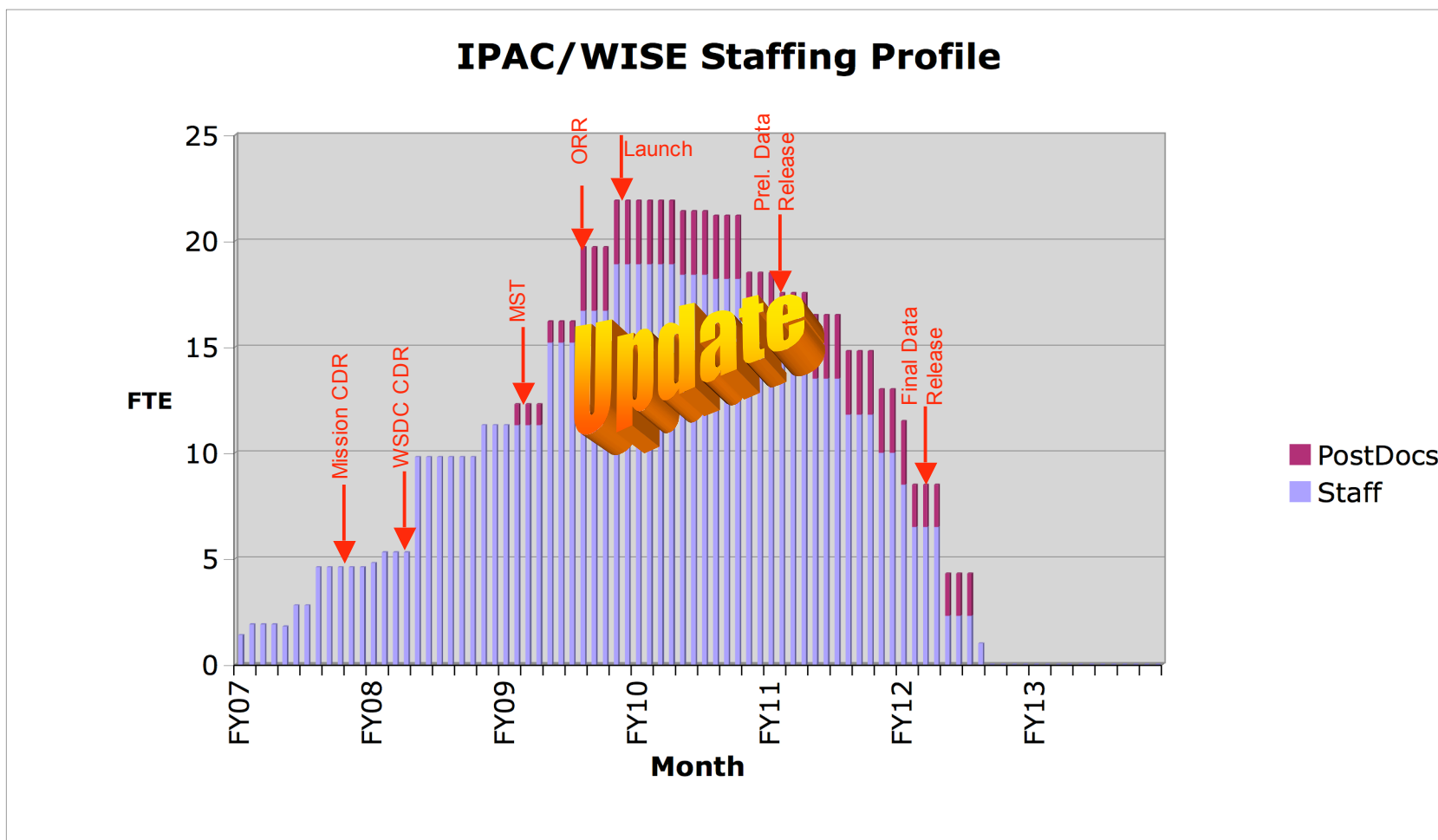


WSDC Management

	Fiscal Year Month Phase	FY07	FY08	FY09	FY10	FY11	FY12	FY13	Total
		B/C	C	C/D	D/E	E	E	E	
<b>Project Lead</b>									
Lead Scientist		0.60	0.73	0.80	0.80	0.80	0.50	0.00	4.79
Lead Engineer		0.50	0.50	0.50	0.50	0.50	0.17	0.00	3.08
Lead QA/Analysis Scientist		0.30	0.50	0.50	0.50	0.50	0.31	0.00	2.91
<b>Subsystem Development Engineers</b>									
Pipeline Executive/Config. Mgmt./I&T		0.13	0.81	1.00	0.92	0.29	0.00	0.00	3.15
Data Ingest System		0.18	0.47	1.00	0.58	0.00	0.00	0.00	2.23
Instrumental Calibration		0.00	0.50	0.50	0.50	0.22	0.00	0.00	1.72
Image Construction/Mosaicing		0.21	0.83	1.00	1.00	0.54	0.17	0.00	3.75
Source Detection		0.21	0.50	0.50	0.50	0.29	0.00	0.00	2.00
Source Photometry		0.00	0.00	0.00	1.50	1.08	0.17	0.00	5.63
Position Reconstruction		0.00	0.00	0.00	0.92	0.50	0.17	0.00	4.00
Bandmerge		0.00	0.00	0.50	0.42	0.00	0.00	0.00	1.25
Artifact Identification		0.00	0.00	0.83	1.00	0.54	0.10	0.00	3.19
Photometric Calibration		0.00	0.33	0.83	1.00	0.88	0.08	0.00	3.13
Known Solar System Object ID		0.00	0.00	0.27	0.28	0.00	0.00	0.00	0.55
Quality Assurance System Development		0.00	0.33	0.71	0.92	0.46	0.02	0.00	2.44
<b>Operations, QA, Analysis, Support</b>									
Pipeline Operations		0.00	0.08	1.00	2.00	1.58	0.04	0.00	4.71
Instrument Characterization Scientists		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Quality Assurance Scientists		0.00	0.00	1.08	2.00	2.00	0.33	0.00	5.42
Documentation and User Support		0.00	0.00	0.03	0.20	0.48	0.31	0.00	1.02
<b>Archive</b>									
Archive Interface/Load		0.00	0.04	0.42	0.50	0.26	0.07	0.00	1.29
Archive Support (DBA,Metadata Mgmt,Tool Dev)		0.00	0.04	0.92	2.00	2.00	0.56	0.00	5.52
<b>Total Staff (FTE)</b>		3.13	8.51	14.89	18.03	12.92	2.99	0.00	61.75
<b>PostDoctoral Analysts (FTE)</b>		0.00	0.00	1.75	3.00	3.00	1.25	0.00	9.00
<b>Total Workforce by Month (FTE)</b>		3.13	8.51	16.64	21.03	15.92	4.24	0.00	70.75



# WSDC Staffing Profile

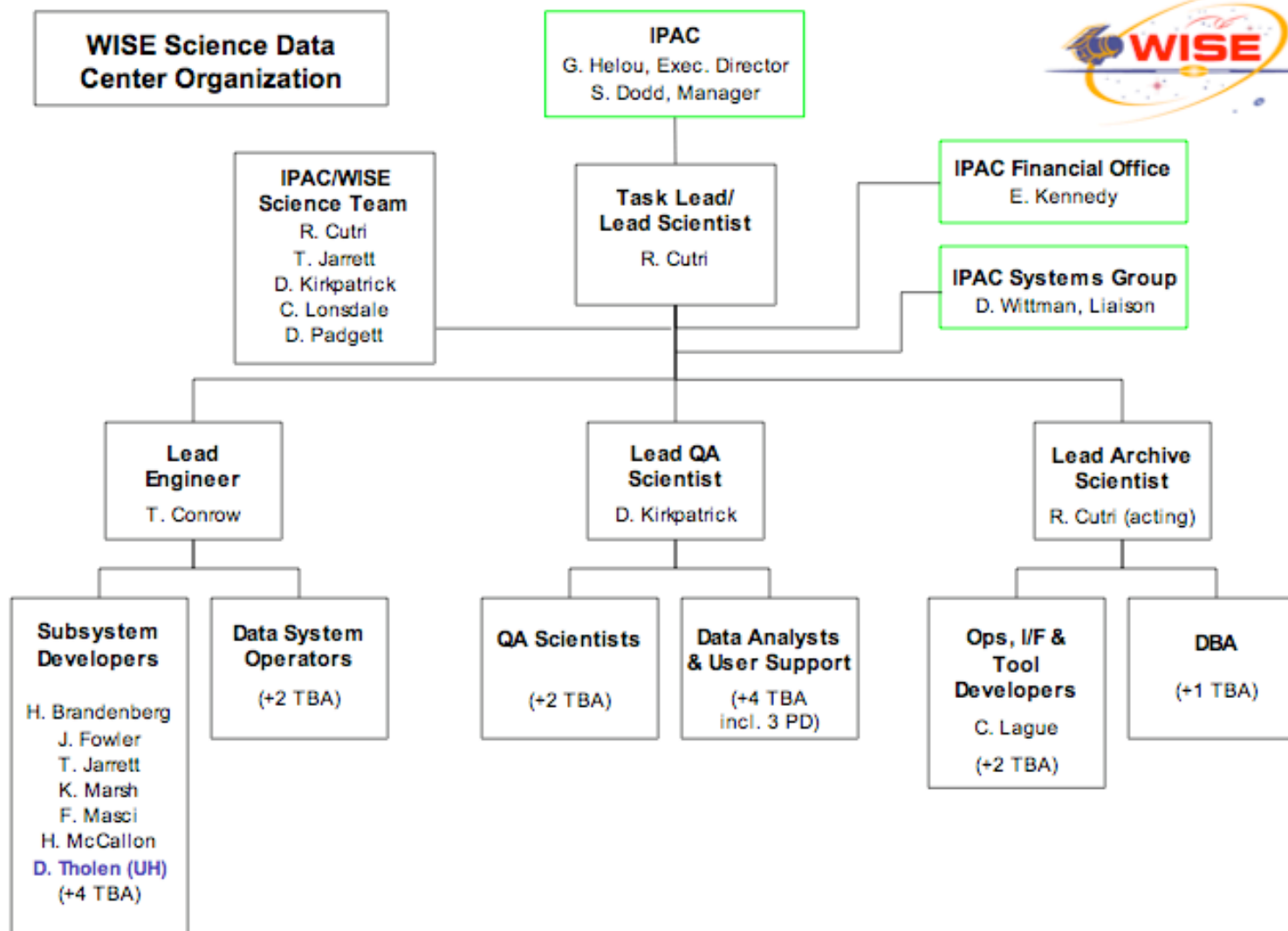




# WSDC Organization



WSDC Management

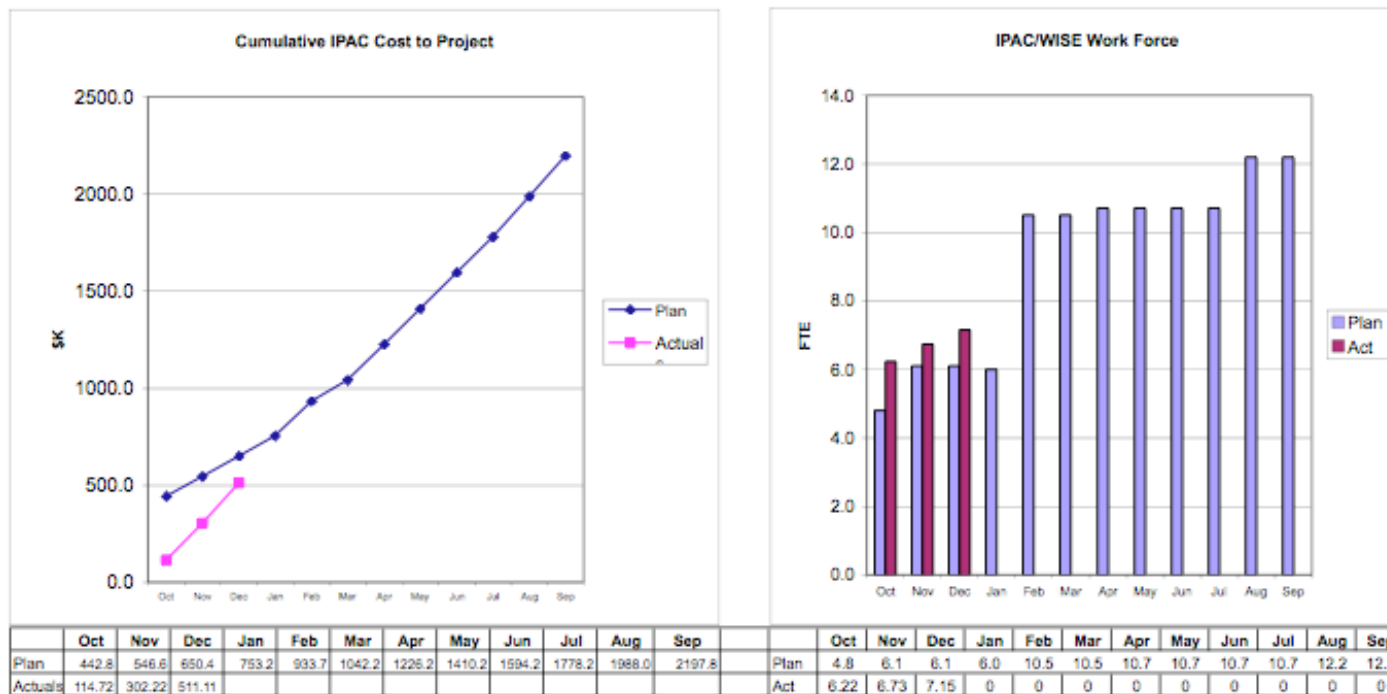




# Monthly Resource Tracking



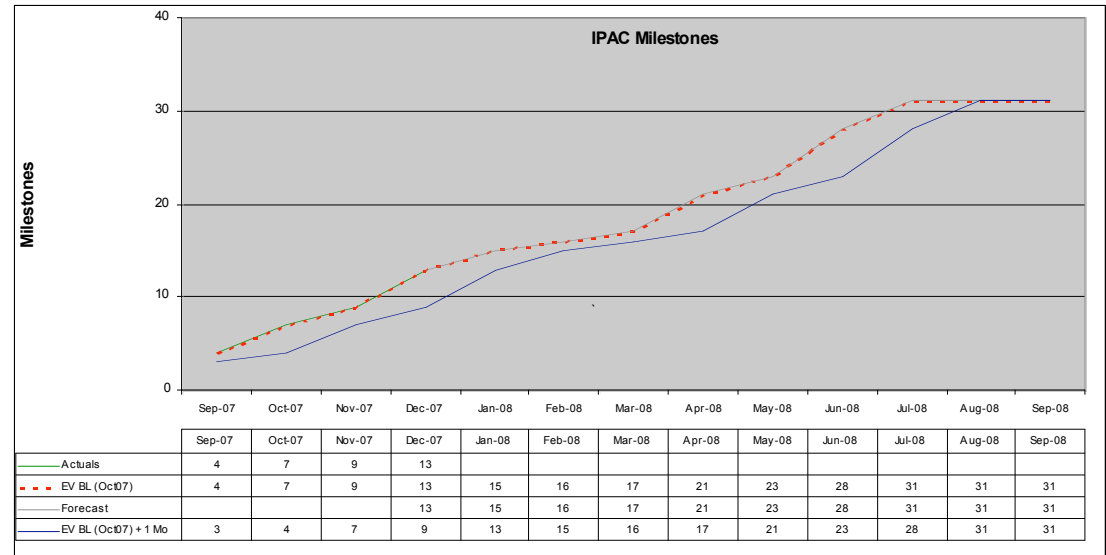
- Full Phase C/D/E cost and staffing plan (one month resolution) submitted to WISE project management and incorporated into WISE budget plan
- Monthly Staffing/Financial reports provided by IPAC accounting office summarize actuals versus plan



# Milestone Performance Tracking

- Phase C/D/E schedule developed by WSDC, and integrated into Project Master schedule
  - Maintained in-house with FastTrack
- One year look-out “rolling-wave” milestone plan tied to schedule, updated every 6 months

- Approximately one milestone/\$100k
- Tracked by WSDC and WISE project office
- Graphical reports provided by project office





# Project Level Reporting



- MOS Monthly Management Reports (MMR)
  - Detailed schedule, cost, milestone reporting
  - Sub-element achievement/status reports
- Monthly Project Element Status Report (PESR) telecons
  - High-level status/milestone reports from all project elements
- Monthly Management “Face-to-face” meetings
  - Project level strategic planning discussions
- Weekly “tag-up” calls with Project Scientist
  - Discussion of science-related developments, algorithms, issues







# Integration with Other Project Elements



- Weekly Mission Systems Engineering Team telecons (Cutri)
- Weekly V&V Team telecons (Kirkpatrick)
- MOS Design Team meetings, when appropriate (Conrow)
- Monthly Science Team telecons and bi-annual face-to-face meetings (Cutri, Jarrett, Kirkpatrick, Lonsdale, Padgett)





# WSDC Internal Reporting



- Weekly WSDC staff meetings
  - All IPAC/WISE staff
  - Project news, reports from ISG, IRSA liaisons, status reports from each developer and scientist
- Monthly written status reports from each subsystem cognizant engineer/scientist to incorporate into MMR
- Frequent informal discussions to work specific design and implementation
  - Advantage of being co-located

