



WISE Science Data Center CDR

WSDC Management

R. Cutri - IPAC WISE Science Data Manager





WSDC Top Level Schedule



WSDC Management

	Activity Name	Start	Finish	2007		2008				2009				2010				2011				2012					
	Activity name	Date	Date	Q 1	Q 2	Q 3	Q 4	Q 1	Q 2	Q 3		Q 1	Q 2		Q 4	Q 1	Q 2	Q 3		Q 1	Q 2	Q 3	Q 4	Q 1	Q 2	Q 3	Q 4
1	Mission Milestones	7/19/05			-	•		•			•							1	$\blacklozenge \blacklozenge$		_						
2					CDR	MOS CDR		SDC CDR			SIR		L (DRR	aunch	Surve	ey Ops			el Data elease				al Data lease			
3	Payload/MOS Testing	12/12/06	11/3/09			CDK						_								elease				lease			
4	Fayload/wiOS Testing	7/24/08						_		• •		-	-		· ·												
5							_	_	-																		
6	WSDS System Dev/Test					vO				v1		v2		vЗ	<u>v</u>	3.5		Ľ	14								
7	System Design	3/16/05	4/16/08				<u></u>		•	_																	
8	WSDS V0	11/1/06	10/3/07			<	\sim																				
9	WSDS v1																										
10	Development	6/4/07	6/19/08		•																						
11	1&T	6/19/08	7/3/08						۰																		
12	Reserve	7/3/08	7/17/08																								
13	Delivery	7/17/08								•																	
14	WSDS v2	3/19/08	2/28/09									-															
	WSDS v3	2/28/09 10/15/08	8/4/09								-	-		_													
15		8/4/09 8/17/09	1/26/10								•			<u> </u>													
16	WSDS v3.5	1/26/10												-		۰											
17	WSDS v4	1/27/10 10/18/10	10/18/10													-			₹								
18																											
19	Processing/FPG Ops																										
20	IOC Support	11/2/09	12/1/09												44												
21	Survey Operations Support	12/2/09	6/4/10												Ŧ												
22	First Pass Processing	1/27/10	7/21/10													Ψ=		ų									
23	Prelim. Release FPG	3/31/10	8/11/10														•—										
24	Prelim. Release Validation	8/12/10	11/30/10															-	-								
25	Second Pass Processing	10/21/10	2/22/11																-								
26	Final Release FPG	2/23/11	5/24/11																	Ŧ	-						
27	Final Product Validation	5/25/11	10/28/11																		Ţ		ų				
28	User Support	12/1/10	4/27/12																Ŧ						-		
29																											
30	WISE Product Release																										
31	Prelim. Release Review	10/27/10																	٠								
32	Prelim. Release Approval	11/17/10						_											•								
33	Prelim. Data Release	12/1/10																									
34	Final Release Review	9/28/11						-											-			-					
34				First	Second	Third	Fourth	First	Sacon	d Third	Fourth	First	Second	1 Third	Fourth	First	Second	Third	Fourth	First	Second	Third	Fourth	First	Second	Third	Fourth
				rust	second	nind	rouith	riist	secon	u mila	routh	FILSC	second	i nina	Pourth	FIIST	second	mina	routh	TIISL 3	second	mma	rounn	FIISC	second	milia	routin





WSDC Task Plan



WSDC Management

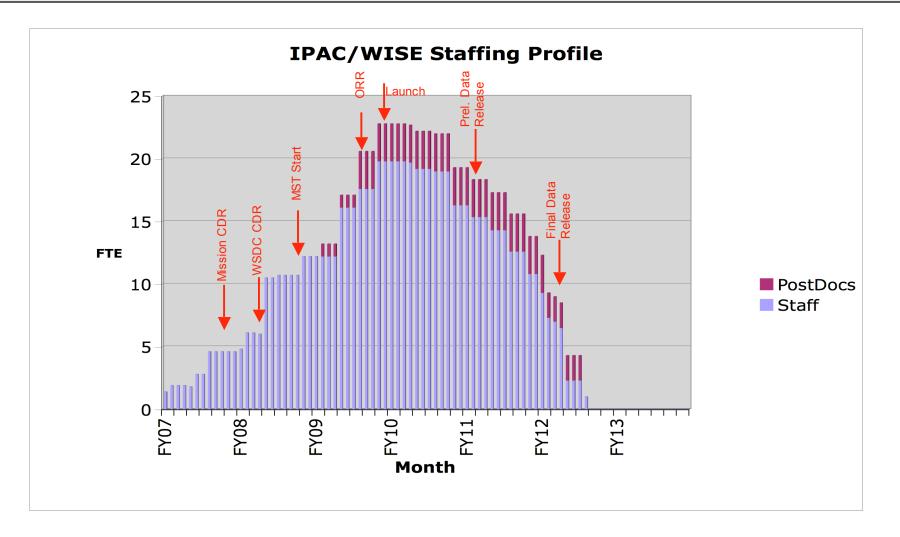
Fiscal Year	FY06	FY07	FY08	FY09	FY10	FY11	FY12	FY13	Total
Phase	В	B/C	С	C/D	D/E	E	E		
Project Lead									
Lead Scientist	0.56	0.60	0.73	0.80		0.80	0.50	0.00	4.79
Lead Engineer	0.42	0.50	0.50	0.50		0.50	0.17	0.00	3.08
Lead QA/Analysis Scientist	0.30	0.30	0.50	0.50	0.50	0.50	0.31	0.00	2.91
Subystem Development Engineers									
Pipeline Executive/Config. Mgmt./I&T	0.00	0.13	0.81	1.00	0.92	0.29	0.00	0.00	3.15
Data Ingest System	0.00	0.18	0.47	1.00	0.58	0.00	0.00	0.00	2.23
Instrumental Calibration	0.00	0.00	0.50	0.50	0.50	0.22	0.00	0.00	1.72
Image Construction/Mosaicing	0.00	0.21	0.83	1.00	1.00	0.54	0.17	0.00	3.75
Source Detection	0.00	0.21	0.50	0.50		0.29	0.00	0.00	2.00
Source Photometry	0.00	0.21	1.82	2.30	2.30	1.88	0.34	0.00	8.85
Position Reconstruction	0.00	0.58	0.83	1.00	0.92	0.50	0.17	0.00	4.00
Bandmerge	0.00	0.00	0.33	0.50	0.42	0.00	0.00	0.00	1.25
Artifact Identification	0.00	0.21	0.50	0.83	1.00	0.54	0.10	0.00	3.19
Photometric Calibration	0.00	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	0.00	0.27	0.28	0.00	0.00	0.00	0.55
Quality Assurance System Development	0.00	0.00	0.33	0.71	0.92	0.46	0.02	0.00	2.44
Operations, QA, Analysis, Support									
Pipeline Operations	0.00	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	0.00
Quality Assurance Scientists	0.00	0.00	0.00	1.08	2.00	2.00	0.33	0.00	5.42
Documentation and User Support	0.00	0.00	0.00	0.03	0.20	0.48	0.31	0.00	1.02
Archive									
Archive Interface/Load	0.00	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	0.00	0.04	0.92	2.00	2.00	0.56	0.00	5.52
Test Data Archive Curator	0.00	0.00	0.11	0.10	0.03	0.00	0.00	0.00	0.23
Total Staff (FTE)	1.28	3.13	9.27	15.79	18.86	13.72	3.17	0.00	65.20
PostDoctoral Analysts (FTE)	0.00	0.00	0.00	1.75	3.00	3.00	1.25	0.00	9.00
Total Workforce by Month (FTE)	1.28	3.13	9.27	17.54	21.86	16.72	4.42	0.00	74.20





WSDC Staffing Profile



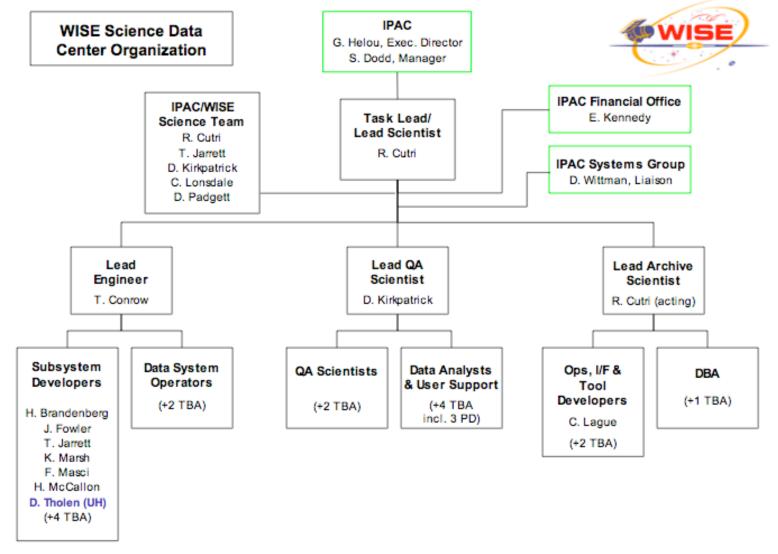




WSDC Organization



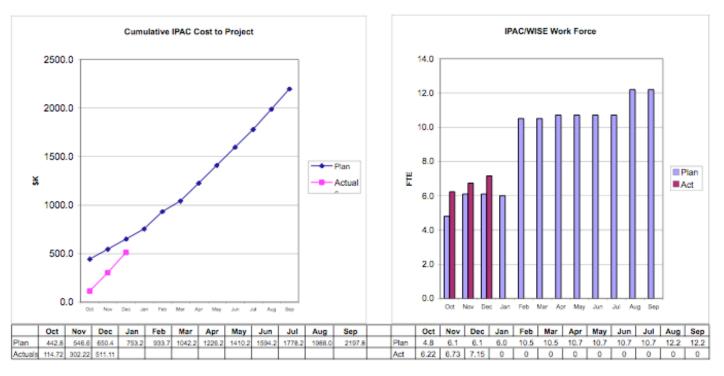
WSDC Management







- 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
- Budget reserve is held/managed at project level. Formal lien process in place.







Milestone Performance Tracking



• Phase C/D/E schedule developed by WSDC, and integrated into Project Master schedule

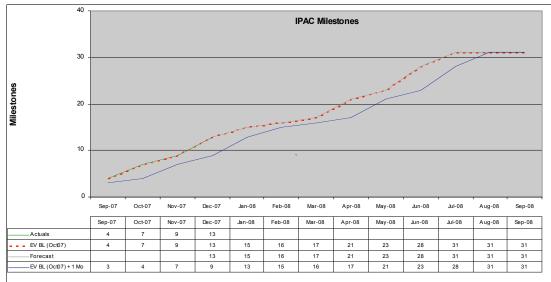
- Maintained in-house with FastTrack

• 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







- 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
 - Lien process and risk tracking
- Weekly "tag-up" calls with Project Scientist
 - Discussion of science-related developments, algorithms, issues





Coordination 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)







- Bi-weekly meetings with IPAC Executive Director
- Weekly WSDC staff meetings
 - Project news, reports from ISG, IRSA liaisons, status reports from each developer and scientist
- WSDC document, reports shared on internal *wiki*, web pages
- Monthly written status reports from each subsystem/module cognizant engineer/scientist to incorporate into MMR
- Frequent informal discussions to work specific design and implementation topics

