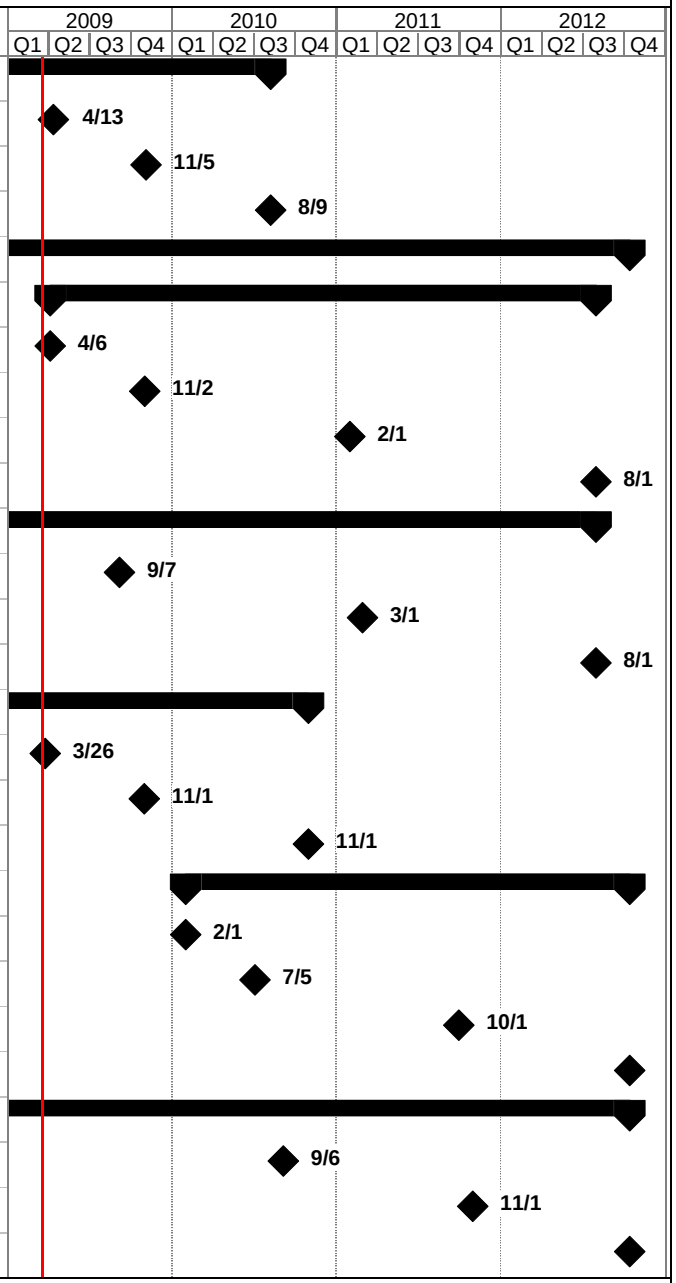
SCHEDULE FOR TRANSITION TO EVLA OPERATIONS

ID	Task Name	Start	Finish
1	**ANTENNA RETROFITS**	**11/4/08**	**8/9/10**
3	21 antennas retrofitted	4/13/09	4/13/09
4	24 antennas retrofitted	11/5/09	11/5/09
5	Last antenna retrofitted	8/9/10	8/9/10
6	**WIDE-BAND RECEIVERS**	**2/4/08**	**10/15/12**
7	**L-Band**	**4/6/09**	**8/1/12**
8	Start L-Band receiver production	4/6/09	4/6/09
9	6 L-Band receivers available	11/2/09	11/2/09
10	15 L-Band receivers available	2/1/11	2/1/11
11	27 L-Band receivers available	8/1/12	8/1/12
12	**S-Band**	**8/18/08**	**8/1/12**
14	6 S-Band receivers available	9/7/09	9/7/09
15	15 S-Band receivers available	3/1/11	3/1/11
16	27 S-Band receivers available	8/1/12	8/1/12
17	**C-Band**	**7/14/08**	**11/1/10**
19	8 C-Band receivers available	3/26/09	3/26/09
20	15 C-Band receivers available	11/1/09	11/1/09
21	27 C-Band receivers available	11/1/10	11/1/10
22	**X-Band**	**2/1/10**	**10/15/12**
23	Start X-Band receiver production	2/1/10	2/1/10
24	6 X-band receivers available	7/5/10	7/5/10
25	15 X-Band receivers available	10/1/11	10/1/11
26	27 X-Band receivers available	10/15/12	10/15/12
27	**Ku-Band**	**7/21/08**	**10/15/12**
29	6 Ku-Band receivers available	9/6/10	9/6/10
30	15 Ku-Band receivers available	11/1/11	11/1/11
31	27 Ku-Band receivers available	10/15/12	10/15/12



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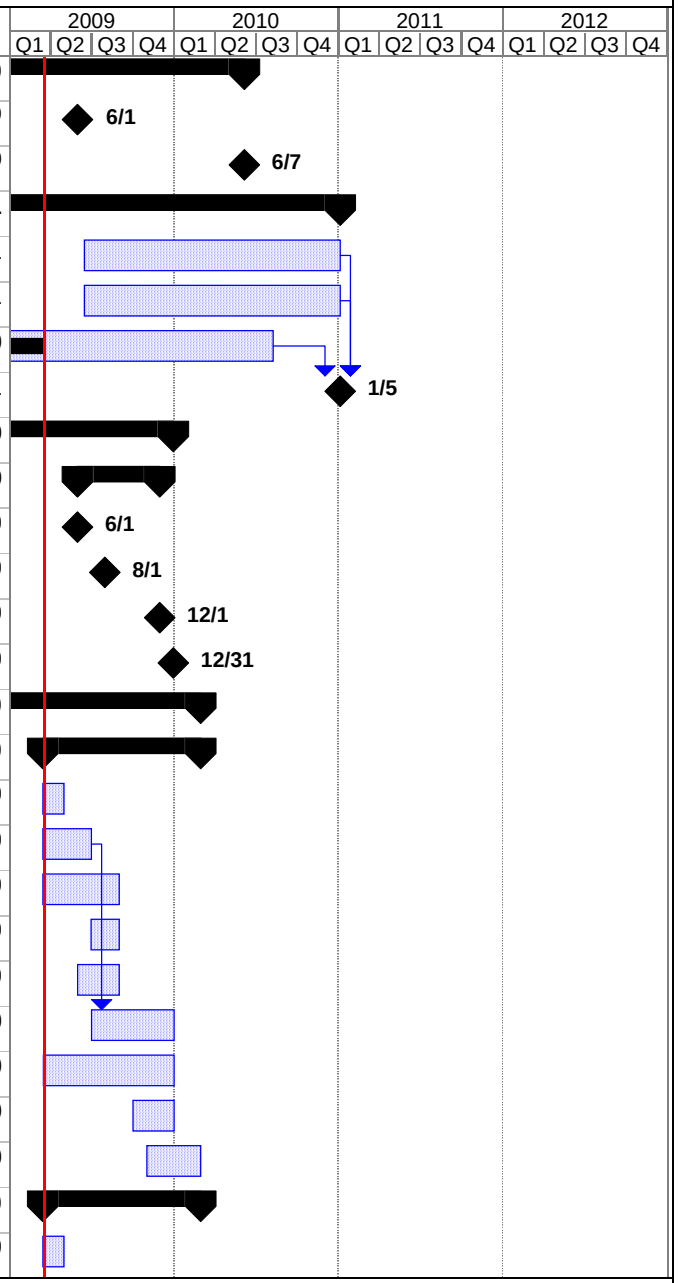
Task Progress Milestone Summary

SCHEDULE FOR TRANSITION TO EVLA OPERATIONS

ID	Task Name	Start	Finish
32	**Ka-Band**	**2/4/08**	**6/7/10**
35	15 Ka-Band receivers available	6/1/09	6/1/09
36	27 Ka-Band receivers available	6/7/10	6/7/10
37	**UPGRADES TO HARDWARE**	**4/9/08**	**1/5/11**
38	DTS (high speed samplers)	6/16/09	1/5/11
39	T302 (2nd set of synthesizers)	6/16/09	1/5/11
40	T304 (TPD, filters & equalizers)	4/9/08	8/9/10
41	EVLA Wide-Band upgrade complete	1/5/11	1/5/11
42	**WIDAR HARDWARE DELIVERY**	**3/26/08**	**12/31/09**
50	**Widar-0 Growth**	**6/1/09**	**12/1/09**
51	20 station boards delivered	6/1/09	6/1/09
52	40 station boards delivered	8/1/09	8/1/09
53	96 station boards delivered	12/1/09	12/1/09
54	All station, baseline and crossbar boards delivered	12/31/09	12/31/09
55	**PREPARATION FOR OSRO**	**4/1/08**	**3/1/10**
62	**WIDAR Software**	**3/16/09**	**3/1/10**
63	Develop OPT release for WIDAR-0 testing	3/16/09	5/1/09
64	Develop MCCC model handler	3/16/09	7/1/09
65	Finalize CPCC	3/16/09	9/1/09
66	Develop CBE decimation in time and frequency	7/1/09	9/1/09
67	Support CBE full data rates with cluster management software	6/1/09	9/1/09
68	Develop ability to pass VCI documents to the MCCC in the Executor	7/2/09	1/1/10
69	Implement configuration mapper in MCCC	3/17/09	1/1/10
70	Implement alerts and logs in MCCC	10/2/09	1/1/10
71	Develop support for mini-SDM in MCAF	11/2/09	3/1/10
72	**Science Commissioning**	**3/16/09**	**3/1/10**
73	Produce recommendations for Ka-band flux calibration	3/16/09	5/1/09



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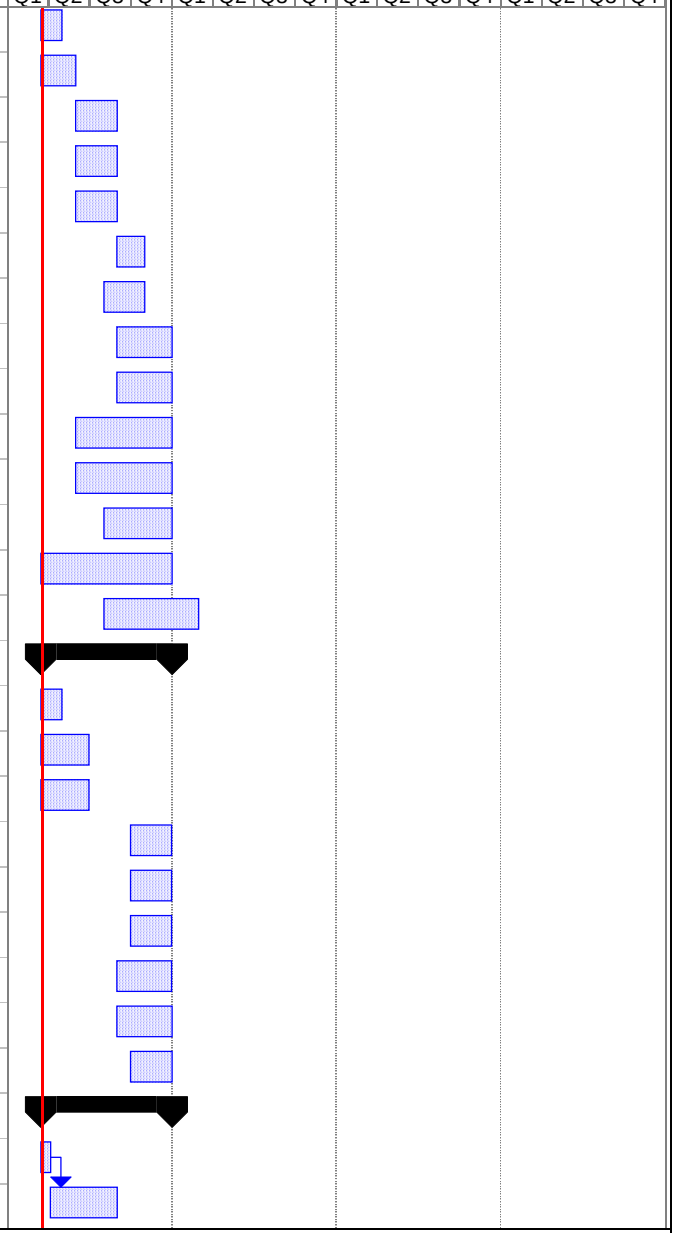
Task Progress Milestone Summary

SCHEDULE FOR TRANSITION TO EVLA OPERATIONS

ID	Task Name	Start	Finish
74	Implement tipping scan analysis in AIPS	3/16/09	5/1/09
75	Develop delay calibration procedure for WIDAR-0	3/16/09	6/1/09
76	Develop Tsys calculation for station board CMIBs	6/1/09	9/1/09
77	Test wideband bandpass stability with WIDAR-0	6/1/09	9/1/09
78	Develop system temperature calibration	6/1/09	9/1/09
79	Develop tipping scan/weather station analysis for new frequency bands	9/1/09	11/1/09
80	Determine antenna gain curves	8/3/09	11/1/09
81	Integrate API and weather station into M&C system	9/1/09	1/1/10
82	Develop procedures for accurate gain calibration	9/1/09	1/1/10
83	Develop new wideband calibrator models	6/1/09	1/1/10
84	Conduct calibrator survey	6/1/09	1/1/10
85	Develop WIDAR-0 CAL procedure w/ weak sources & multiple sub-bands	8/3/09	1/1/10
86	Make primary beam and holography measurements	3/16/09	1/1/10
87	Develop TelCal support for reference pointing only	8/3/09	3/1/10
88	**Data Analysis**	**3/16/09**	**1/1/10**
89	AIPS WIDAR data from CASA into AIPS via UVFITS	3/16/09	5/1/09
90	Modify CASA filler/UVFITS data path	3/16/09	6/30/09
91	Develop AIPS analysis of OSRO data reduction for typical user	3/16/09	6/30/09
92	Provide capability in CASA to handle "typical" data set sizes	10/1/09	12/31/09
93	Provide capability in CASA for spectral line and cube analysis	10/1/09	12/31/09
94	Provide plotting and image annotation in CASA	10/1/09	12/31/09
95	Provide CASA support for Solar System objects	9/1/09	12/31/09
96	Provide AIPS automated calibration procedure for OSRO modes	9/1/09	1/1/10
97	Analyze quality of AIPS EVLA data calibration	10/1/09	1/1/10
98	**Data Handling/Processing**	**3/16/09**	**1/1/10**
99	Automatic transfer and cataloging of EVLA data with AAT	3/16/09	4/6/09
100	Automatic conversion of retrieved EVLA data to UVFITS in AAT	4/6/09	9/1/09



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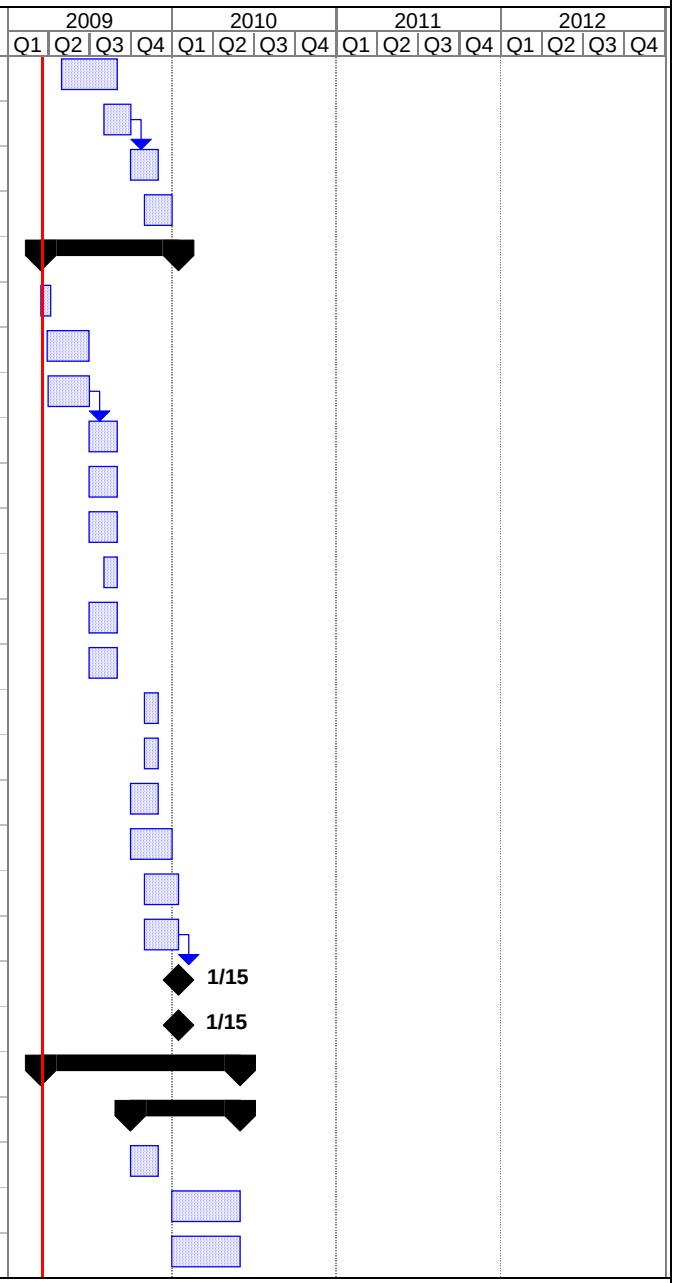
Task Progress Milestone Summary

SCHEDULE FOR TRANSITION TO EVLA OPERATIONS

ID	Task Name	Start	Finish
101	Provide CASA direct access to EVLA archive	5/1/09	9/1/09
102	Upgrade VLA-DSOC link to 1Gbps	8/3/09	10/1/09
103	Upgrade DSOC 1Gbps link to Internet2	10/1/09	12/1/09
104	Purchase archive disks	11/1/09	1/1/10
105	**User Support**	**3/16/09**	**1/15/10**
106	Pre-populate project from proposal with OPT	3/16/09	4/6/09
107	Develop proposal/scheduling process and configuration durations	3/30/09	6/30/09
108	Develop prototype for on-line helpdesk	4/1/09	7/1/09
109	Develop plan for supporting increased number of users	7/1/09	9/1/09
110	Revise exposure calculator for OSRO	7/1/09	9/1/09
111	Update PST for OSRO	7/1/09	9/1/09
112	Develop EVLA observational status summary for OSRO	8/3/09	9/1/09
113	Provide new EVLA website for all users	7/1/09	9/1/09
114	Update PST documentation for OSRO	7/1/09	9/1/09
115	Provide data analyst for data distribution via alternative media	11/1/09	12/1/09
116	Support remote user access	11/1/09	12/1/09
117	Provide final online helpdesk	10/1/09	12/1/09
118	Develop OPT documentation for OSRO	10/1/09	1/1/10
119	Update CASA cookbook for OSRO	11/1/09	1/15/10
120	Update AIPS cookbook for OSRO	11/1/09	1/15/10
121	Release OPT for OSRO users	1/15/10	1/15/10
122	Make VLA webisite available for archival information only	1/15/10	1/15/10
123	**PREPARATION FOR RSRO**	**3/16/09**	**6/1/10**
124	**Science Commissioning**	**10/1/09**	**6/1/10**
125	Develop gain CAL procedure for wide bandwidths, weak calibration source	10/1/09	12/1/09
126	Calibrate 3-bit samplers	1/1/10	6/1/10
127	Improve reference pointing for multiple sub-bands, weaker sources	1/1/10	6/1/10



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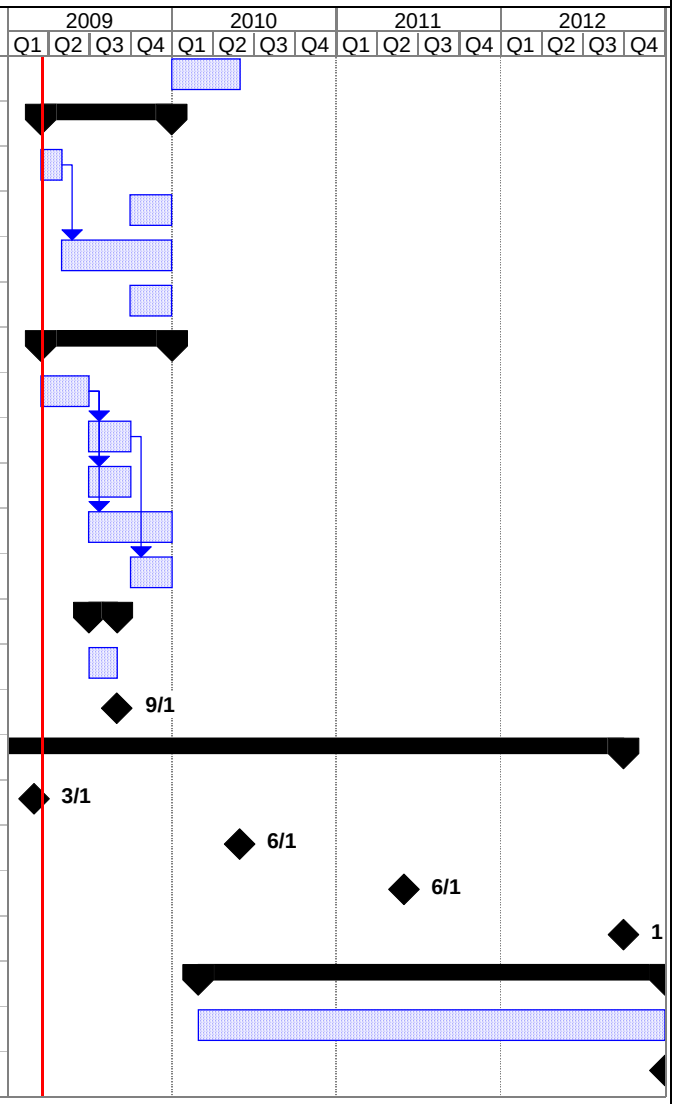
Task Progress Milestone Summary

SCHEDULE FOR TRANSITION TO EVLA OPERATIONS

ID	Task Name	Start	Finish
128	Determine time and frequency dependence of polarization calibration	1/1/10	6/1/10
129	**Data Analysis**	**3/16/09**	**12/31/09**
130	Wideband, narrow-filed imaging of single, unconfused sources	3/16/09	5/1/09
131	Provide automatic editing of UV data	9/30/09	12/31/09
132	Narrow-field imaging of single sources with confusing sources	5/1/09	12/31/09
133	Develop auto-boxing for CLEAN	9/30/09	12/31/09
134	**Data Handling/Processing**	**3/16/09**	**1/1/10**
135	Complete parallelization tests of prototype post-processing cluster	3/16/09	6/30/09
136	Develop specification for final post-processing cluster	6/30/09	10/1/09
137	Develop plan for access and use of post-processing cluster	6/30/09	10/1/09
138	Complete software for parallelized post-processing cluster	6/30/09	1/1/10
139	Purchase post-processing cluster	10/1/09	1/1/10
140	**User Support**	**7/1/09**	**9/1/09**
141	Develop mechanism for handling RSRO proposals	7/1/09	9/1/09
142	Release OPT for RSRO users	9/1/09	9/1/09
143	**DATA RATES AND NETWORKING**	**7/2/08**	**10/1/12**
145	WIDAR-0, Max rate = 20MBps small % time	3/1/09	3/1/09
146	RSRO, Max rate = 16 MB… 10%time	6/1/10	6/1/10
147	OSRO, Max rate = 2 MB…90%time	6/1/11	6/1/11
148	End of construction, Max rate = 75 MB…100%time	10/1/12	10/1/12
149	**OBSERVING**	**3/1/10**	**1/1/13**
150	Open shared risk observing (OSRO)	3/1/10	12/31/12
151	Begin full science operations	1/1/13	1/1/13



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