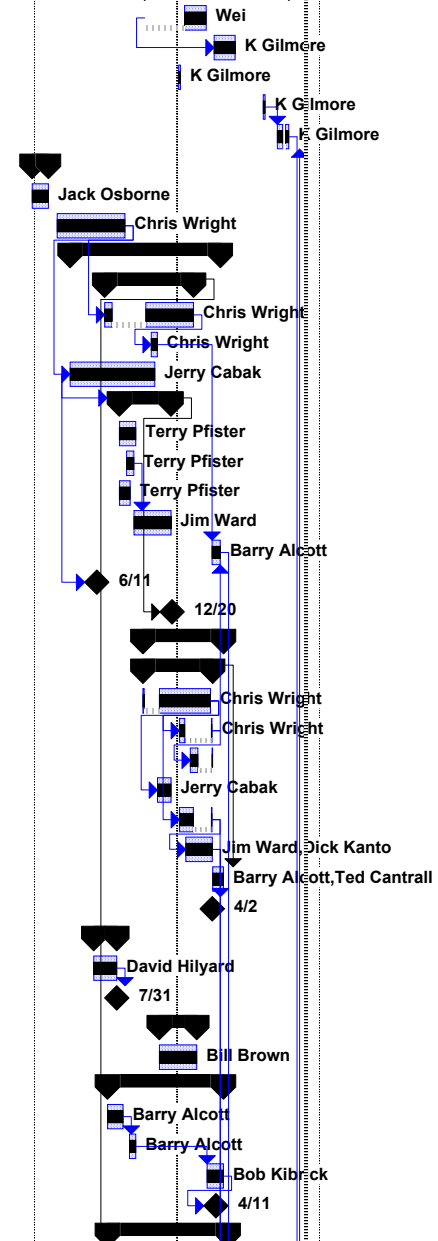


# All Tasks

# HIRES Dewar/Detector Upgrade

Tue 11/25/03

ID	Task Name	Duration	Remaining Duration	Start	Finish	Predecessors	% Complete	Remaining Work	2002				2003				2004				2005			
									Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4		
1	Science Grade CCDs (3)	252.8 days	0 days	Fri 10/11/02	Wed 10/15/03		100%	0 hrs																
2	Characterize and select CCDs	320 hrs	0 hrs	Fri 10/11/02	Mon 3/17/03		100%	0 hrs																
3	CCD/ backplane metrology	40 days	0 days	Mon 4/7/03	Fri 5/30/03	2SS+10 days	100%	0 hrs																
4	mount dead chips BP1	5 days	0 days	Mon 1/6/03	Fri 1/10/03		100%	0 hrs																
5	mount engineering grade chips BP2	5 days	0 days	Mon 8/11/03	Fri 8/15/03		100%	0 hrs																
6	mount science CCD hardware BP3	3.2 wks	0 wks	Tue 9/16/03	Wed 10/15/03	5FS+20 days	100%	0 hrs																
7	Documentation of existing dewar	30 days	0 days	Thu 12/27/01	Wed 2/6/02		100%	0 hrs																
8	Documentation of existing dewar	240 hrs	0 hrs	Thu 12/27/01	Wed 2/6/02		100%	0 hrs																
9	Conceptual Electronics Design	124 days	0 days	Fri 3/1/02	Wed 8/21/02		100%	0 hrs																
10	Dewar Design	264.5 days	0 days	Wed 4/3/02	Tue 4/22/03		100%	0 hrs																
11	Electronic design	153.5 days	0 days	Mon 7/1/02	Thu 2/13/03		100%	0 hrs																
12	CCD board	93.5 days	0 days	Mon 7/1/02	Thu 2/13/03	9	100%	0 hrs																
13	CCD board flex circuit	12 days	0 days	Mon 10/28/02	Tue 11/12/02	12	100%	0 hrs																
14	Mechanical Design	1238.9 hrs	0 hrs	Wed 4/3/02	Wed 11/6/02	9FS-500 hrs	100%	0 hrs																
15	Mechanical Fabrication	94 days	0 days	Wed 8/7/02	Tue 12/17/02	14SS+90 day	100%	0 hrs																
16	Fab of dewar body	6 wks	0 wks	Wed 8/7/02	Wed 9/18/02		100%	0 hrs																
17	Fab of back planes (3)	15 days	0 days	Mon 8/26/02	Fri 9/13/02		100%	0 hrs																
18	Fab Dewar Cold Finger	20 days	0 days	Wed 8/7/02	Wed 9/4/02		100%	0 hrs																
19	Fab of internal structures	66.5 days	0 days	Fri 9/13/02	Tue 12/17/02	17	100%	0 hrs																
20	Electronic Fabrication	3 wks	0 wks	Wed 4/2/03	Tue 4/22/03	13,26	100%	0 hrs																
21	Choice of LN2 or Cryo Tiger	0 days	0 days	Tue 6/11/02	Tue 6/11/02	14SS+950 hr	100%	0 hrs																
22	Completion of Vacuum Dewar	0 days	0 days	Fri 12/20/02	Fri 12/20/02	15	100%	0 hrs																
23	Dewar electronics box	138.5 days	0 days	Mon 10/7/02	Thu 5/1/03		100%	0 hrs																
24	Electronic design	118.5 days	0 days	Mon 10/7/02	Thu 4/3/03		100%	0 hrs																
25	analog switch board	85.8 days	0 days	Mon 10/7/02	Fri 3/28/03		100%	0 hrs																
26	power board	12 days	0 days	Wed 1/8/03	Tue 4/1/03	25	100%	0 hrs																
27	internal flex circuits	3 wks	0 wks	Wed 2/5/03	Thu 4/3/03	26	100%	0 hrs																
28	Concept Mechanical design	200 hrs	0 hrs	Wed 11/13/02	Tue 12/17/02	25FS-30 day	100%	0 hrs																
29	Detailed Mechanical Design	27.75 days	0 days	Wed 1/8/03	Tue 4/1/03	25	100%	0 hrs																
30	Mechanical fabricaton	381 hrs	0 hrs	Fri 1/24/03	Wed 4/2/03	29FS-200 hrs	100%	0 hrs																
31	Electrical fabricaton	4 wks	0 wks	Thu 4/3/03	Thu 5/1/03	24	100%	0 hrs																
32	Completion of Dewar System	0 days	0 days	Wed 4/2/03	Wed 4/2/03	30	100%	0 hrs																
33	Field Flattener	43 days	0 days	Mon 6/3/02	Wed 7/31/02		100%	0 hrs																
34	Optical fabrication	344 hrs	0 hrs	Mon 6/3/02	Wed 7/31/02		100%	0 hrs																
35	Completion of Field Flattener fab	0 days	0 days	Wed 7/31/02	Wed 7/31/02	34	100%	0 hrs																
36	Field Flattener coating	60 days	0 days	Mon 11/18/02	Fri 2/21/03		100%	0 hrs																
37	Coating at LL	60 days	0 days	Mon 11/18/02	Fri 2/21/03		100%	0 hrs																
38	Leach 2 vme Crate	203 days	0 days	Mon 7/8/02	Wed 4/30/03		100%	0 hrs																
39	Order parts/receive parts	6 wks	0 wks	Mon 7/8/02	Fri 8/16/02		100%	0 hrs																
40	Electronic fabricaton	100 hrs	0 hrs	Mon 9/2/02	Wed 9/18/02	39	100%	0 hrs																
41	software	240 hrs	0 hrs	Thu 3/20/03	Wed 4/30/03	40	100%	0 hrs																
42	VME Crate Complete	0 days	0 days	Fri 4/11/03	Fri 4/11/03	41	100%	0 hrs																
43	Leach 2 CCD Controler	211 days	0 days	Mon 7/8/02	Mon 5/12/03		100%	0 hrs																

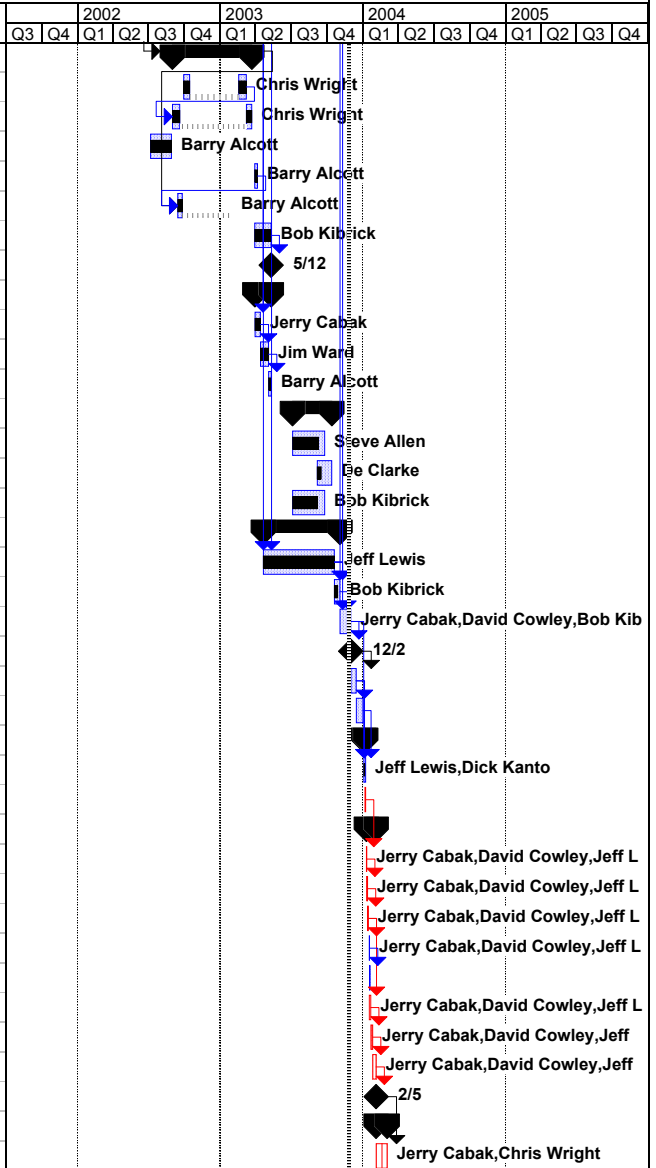


# All Tasks





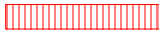








## HIRES Dewar/Detector Upgrade

Tue 11/25/03

ID	Task Name	Duration	Remaining Duration	Start	Finish	Predecessors	% Complete	Remaining Work	2002		2003				2004				2005					
									Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4		
44	<b>Electronic design</b>	135.75 days	0 days	Mon 9/2/02	Mon 3/24/03	11	100%	0 hrs																
45	CCD cable board	5 wks	0 wks	Tue 10/1/02	Mon 3/10/03		100%	0 hrs																
46	CCD cabling	5 wks	0 wks	Mon 9/2/02	Mon 3/24/03	45	100%	0 hrs																
47	order parts	8 wks	0 wks	Mon 7/8/02	Fri 8/30/02		100%	0 hrs																
48	test cables and video boards	1 wk	0 wks	Tue 4/1/03	Mon 4/7/03		100%	0 hrs																
49	electronic fabricaton	1.95 wks	0 wks	Mon 9/16/02	Fri 1/31/03	44,48	100%	0 hrs																
50	software	240 hrs	0 hrs	Tue 4/1/03	Mon 5/12/03		100%	0 hrs																
51	CCD controller complete	0 days	0 days	Mon 5/12/03	Mon 5/12/03	50	100%	0 hrs																
52	<b>CCD controller foot locker</b>	30 days	0 days	Tue 4/1/03	Tue 5/13/03		100%	0 hrs																
53	mechanical design	80 hrs	0 hrs	Tue 4/1/03	Tue 4/15/03	29	100%	0 hrs																
54	mechanical fabricaton	120 hrs	0 hrs	Tue 4/15/03	Tue 5/6/03	53	100%	0 hrs																
55	electronic fabrication	40 hrs	0 hrs	Tue 5/6/03	Tue 5/13/03	54	100%	0 hrs																
56	<b>Hires SW Upgrades</b>	72.5 days	22.73 days	Mon 7/7/03	Wed 10/15/03		69%	370 hrs																
57	Steve Allen	480 hrs	96 hrs	Mon 7/7/03	Fri 9/26/03		80%	96 hrs																
58	D Clarke	220 hrs	154 hrs	Mon 9/8/03	Wed 10/15/03		30%	154 hrs																
59	Bob Kibrick	480 hrs	120 hrs	Mon 7/7/03	Fri 9/26/03		75%	120 hrs																
60	<b>Assembly and test</b>	140 days	3.5 days	Wed 4/23/03	Tue 11/4/03		98%	28 hrs																
61	Assembly and test	26 wks	0 wks	Wed 4/23/03	Tue 10/21/03	30,20	100%	0 hrs																
62	characterization	10 days	3.5 days	Wed 10/22/03	Tue 11/4/03	61,6	65%	28 hrs																
63	<b>Pre Ship Review workup</b>	4 wks	4 wks	Wed 11/5/03	Tue 12/2/03	61,62	0%	640 hrs																
64	Preship review	0 days	0 days	Tue 12/2/03	Tue 12/2/03	63	0%	0 hrs																
65	Post PSR	2 wks	2 wks	Wed 12/3/03	Tue 12/16/03	64	0%	0 hrs																
66	FLOAT	13 days	13 days	Wed 12/17/03	Fri 1/2/04	65	0%	0 hrs																
67	<b>Pack and Ship</b>	5 days	2.5 days	Mon 1/5/04	Fri 1/9/04		50%	40 hrs																
68	P&S	1 wk	0.5 wks	Mon 1/5/04	Fri 1/9/04	63,65,66	50%	40 hrs																
69	Ship date	2 days	2 days	Thu 1/8/04	Fri 1/9/04		0%	0 hrs																
70	<b>Commissioning</b>	19 days?	19 days?	Mon 1/12/04	Thu 2/5/04		0%	640 hrs																
71	unpack and organize	1 day	1 day	Mon 1/12/04	Mon 1/12/04	69	0%	32 hrs																
72	remove existing dewar and foot locker	2 days	2 days	Tue 1/13/04	Wed 1/14/04	71	0%	64 hrs																
73	Install new dewar	2 days	2 days	Thu 1/15/04	Fri 1/16/04	72	0%	64 hrs																
74	install footlocker	1 day	1 day	Mon 1/19/04	Mon 1/19/04	73	0%	32 hrs																
75	Modify dark slide	1 day?	1 day?	Tue 1/20/04	Tue 1/20/04	74	0%	0 hrs																
76	mechanical and electrical connections	4 days	4 days	Mon 1/19/04	Thu 1/22/04	73	0%	128 hrs																
77	alignment	3 days	3 days	Fri 1/23/04	Tue 1/27/04	76	0%	96 hrs																
78	testing	7 days	7 days	Wed 1/28/04	Thu 2/5/04	77	0%	224 hrs																
79	Ready for first light	0 days	0 days	Thu 2/5/04	Thu 2/5/04	78	0%	0 hrs																
80	<b>Documentation</b>	20 days	20 days	Fri 2/6/04	Thu 3/4/04		0%	320 hrs																
81	completion of documentaiton	4 wks	4 wks	Fri 2/6/04	Thu 3/4/04	79	0%	320 hrs																



Project: HIRES-3 chips  
Date: Tue 11/25/03

Task		Summary		Rolled Up Progress		External Milestone	
Critical Task		Rolled Up Task		Split		Deadline	
Progress		Rolled Up Critical Task		External Tasks			
Milestone		Rolled Up Milestone		Project Summary	