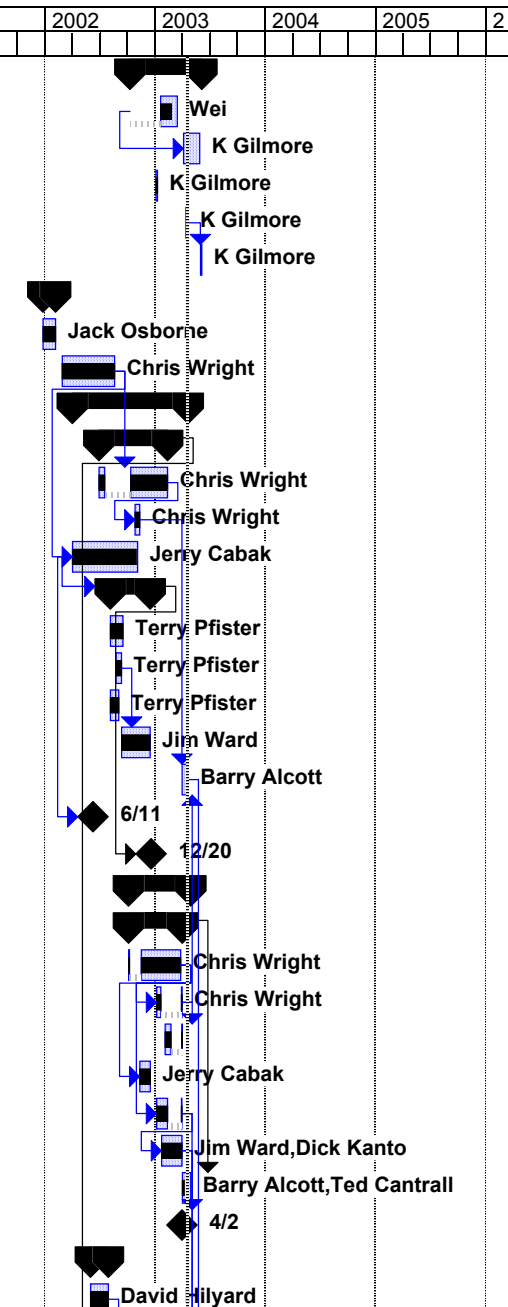


# All Tasks

# HIRES Dewar/Detector Upgrade

Thu 4/17/03

ID	Task Name	Duration	Remaining Duration	Start	Finish	% Complete	2002	2003	2004	2005	2
1	<b>Science Grade CCDs (3)</b>	<b>160.4 days</b>	<b>107.38 days</b>	<b>Fri 10/11/02</b>	<b>Fri 6/6/03</b>	<b>33%</b>					
2	Characterize and select CCDs	320 hrs	108.8 hrs	Fri 10/11/02	Mon 3/17/03	66%					
3	CCD/ backplane metrology	40 days	40 days	Mon 4/7/03	Fri 5/30/03	0%					
4	mount dead chips BP1	5 days	0 days	Mon 1/6/03	Fri 1/10/03	100%					
5	mount engineering grade chips BP2	5 days	5 days	Tue 4/15/03	Mon 4/21/03	0%					
6	mount science CCD hardware BP3	1 wk	1 wk	Mon 6/2/03	Fri 6/6/03	0%					
7	<b>Documentation of existing dewar</b>	<b>30 days</b>	<b>0 days</b>	<b>Thu 12/27/01</b>	<b>Wed 2/6/02</b>	<b>100%</b>					
8	Documentation of existing dewar	240 hrs	0 hrs	Thu 12/27/01	Wed 2/6/02	100%					
9	Conceptual Electronics Design	124 days	0 days	Fri 3/1/02	Wed 8/21/02	100%					
10	<b>Dewar Design</b>	<b>264.5 days</b>	<b>11.38 days</b>	<b>Wed 4/3/02</b>	<b>Tue 4/22/03</b>	<b>96%</b>					
11	<b>Electronic design</b>	<b>153.5 days</b>	<b>0 days</b>	<b>Mon 7/1/02</b>	<b>Thu 2/13/03</b>	<b>100%</b>					
12	CCD board	93.5 days	0 days	Mon 7/1/02	Thu 2/13/03	100%					
13	CCD board flex circuit	12 days	0 days	Mon 10/28/02	Tue 11/12/02	100%					
14	Mechanical Design	1238.9 hrs	20 hrs	Wed 4/3/02	Wed 11/6/02	98%					
15	<b>Mechanical Fabrication</b>	<b>94 days</b>	<b>0 days</b>	<b>Wed 8/7/02</b>	<b>Tue 12/17/02</b>	<b>100%</b>					
16	Fab of dewar body	6 wks	0 wks	Wed 8/7/02	Wed 9/18/02	100%					
17	Fab of back planes (3)	15 days	0 days	Mon 8/26/02	Fri 9/13/02	100%					
18	Fab Dewar Cold Finger	20 days	0 days	Wed 8/7/02	Wed 9/4/02	100%					
19	Fab of internal structures	66.5 days	0 days	Fri 9/13/02	Tue 12/17/02	100%					
20	Electronic Fabrication	3 wks	3 wks	Wed 4/2/03	Tue 4/22/03	0%					
21	Choise of LN2 or Cryo Tiger	0 days	0 days	Tue 6/11/02	Tue 6/11/02	100%					
22	Completion of Vacuum Dewar	0 days	0 days	Fri 12/20/02	Fri 12/20/02	100%					
23	<b>Dewar electronics box</b>	<b>138.5 days</b>	<b>9.5 days</b>	<b>Mon 10/7/02</b>	<b>Thu 5/1/03</b>	<b>93%</b>					
24	<b>Electroninc design</b>	<b>118.5 days</b>	<b>0 days</b>	<b>Mon 10/7/02</b>	<b>Thu 4/3/03</b>	<b>100%</b>					
25	analog switch board	85.8 days	0 days	Mon 10/7/02	Fri 3/28/03	100%					
26	power board	12 days	0 days	Wed 1/8/03	Tue 4/1/03	100%					
27	internal flex circuits	3 wks	0 wks	Wed 2/5/03	Thu 4/3/03	100%					
28	Concept Mechanical design	200 hrs	0 hrs	Wed 11/13/02	Tue 12/17/02	100%					
29	Detailed Mechanical Design	27.75 days	0 days	Wed 1/8/03	Tue 4/1/03	100%					
30	Mechanical fabricaton	381 hrs	0 hrs	Fri 1/24/03	Wed 4/2/03	100%					
31	Electrical fabrication	4 wks	3.2 wks	Thu 4/3/03	Thu 5/1/03	20%					
32	Completion of Dewar System	0 days	0 days	Wed 4/2/03	Wed 4/2/03	0%					
33	<b>Field Flattener</b>	<b>43 days</b>	<b>0 days</b>	<b>Mon 6/3/02</b>	<b>Wed 7/31/02</b>	<b>100%</b>					
34	Optical fabrication	344 hrs	0 hrs	Mon 6/3/02	Wed 7/31/02	100%					

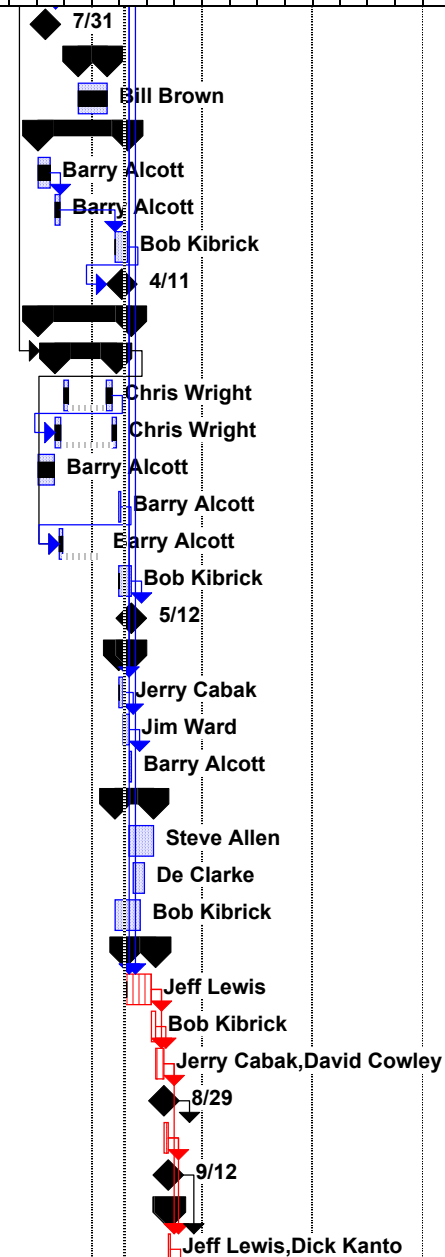


# All Tasks

# HIRES Dewar/Detector Upgrade

Thu 4/17/03

ID	Task Name	Duration	Remaining Duration	Start	Finish	% Complete	2002	2003	2004	2005	2
35	Completion of Field Flattener fab	0 days	0 days	Wed 7/31/02	Wed 7/31/02	100%		7/31			
36	<b>Field Flattener coating</b>	<b>60 days</b>	<b>0 days</b>	<b>Mon 11/18/02</b>	<b>Fri 2/21/03</b>	<b>100%</b>					
37	Coating at LL	60 days	0 days	Mon 11/18/02	Fri 2/21/03	100%					
38	<b>Leach 2 vme Crate</b>	<b>203 days</b>	<b>79.8 days</b>	<b>Mon 7/8/02</b>	<b>Wed 4/30/03</b>	<b>61%</b>					
39	Order parts/receive parts	6 wks	0 wks	Mon 7/8/02	Fri 8/16/02	100%					
40	Electronic fabricaton	100 hrs	0 hrs	Mon 9/2/02	Wed 9/18/02	100%					
41	software	240 hrs	228 hrs	Thu 3/20/03	Wed 4/30/03	5%					
42	VME Crate Complete	0 days	0 days	Fri 4/11/03	Fri 4/11/03	100%					
43	<b>Leach 2 CCD Controler</b>	<b>211 days</b>	<b>52.46 days</b>	<b>Mon 7/8/02</b>	<b>Mon 5/12/03</b>	<b>75%</b>					
44	<b>Electronic design</b>	<b>135.75 days</b>	<b>0 days</b>	<b>Mon 9/2/02</b>	<b>Mon 3/24/03</b>	<b>100%</b>					
45	CCD cable board	5 wks	0 wks	Tue 10/1/02	Mon 3/10/03	100%					
46	CCD cabling	5 wks	0 wks	Mon 9/2/02	Mon 3/24/03	100%					
47	order parts	8 wks	0 wks	Mon 7/8/02	Fri 8/30/02	100%					
48	test cables and video boards	1 wk	1 wk	Tue 4/1/03	Mon 4/7/03	0%					
49	electronic fabricaton	1.95 wks	0 wks	Mon 9/16/02	Fri 1/31/03	100%					
50	software	240 hrs	228 hrs	Tue 4/1/03	Mon 5/12/03	5%					
51	CCD controller complete	0 days	0 days	Mon 5/12/03	Mon 5/12/03	0%					
52	<b>CCD controller foot locker</b>	<b>30 days</b>	<b>29.5 days</b>	<b>Tue 4/1/03</b>	<b>Tue 5/13/03</b>	<b>2%</b>					
53	mechanical design	80 hrs	76 hrs	Tue 4/1/03	Tue 4/15/03	5%					
54	mechanical fabricaton	120 hrs	120 hrs	Tue 4/15/03	Tue 5/6/03	0%					
55	electronic fabrication	40 hrs	40 hrs	Tue 5/6/03	Tue 5/13/03	0%					
56	<b>Hires SW Upgrades</b>	<b>92 days</b>	<b>92 days</b>	<b>Thu 3/20/03</b>	<b>Fri 7/25/03</b>	<b>0%</b>					
57	Steve Allen	480 hrs	480 hrs	Mon 5/5/03	Fri 7/25/03	0%					
58	D Clarke	220 hrs	220 hrs	Mon 5/19/03	Wed 6/25/03	0%					
59	Bob Kibrick	480 hrs	480 hrs	Thu 3/20/03	Wed 6/11/03	0%					
60	<b>Assembly and test</b>	<b>72.5 days</b>	<b>69.38 days</b>	<b>Wed 4/23/03</b>	<b>Fri 8/1/03</b>	<b>4%</b>					
61	Assembly and test	12.5 wks	11.88 wks	Wed 4/23/03	Fri 7/18/03	5%					
62	characterization	10 days	10 days	Fri 7/18/03	Fri 8/1/03	0%					
63	<b>Pre Ship Review workup</b>	<b>4 wks</b>	<b>4 wks</b>	<b>Fri 8/1/03</b>	<b>Fri 8/29/03</b>	<b>0%</b>					
64	Preship review	0 days	0 days	Fri 8/29/03	Fri 8/29/03	0%					
65	Post PSR	2 wks	2 wks	Fri 8/29/03	Fri 9/12/03	0%					
66	FLOAT	0 days	0 days	Fri 9/12/03	Fri 9/12/03	0%					
67	<b>Pack and Ship</b>	<b>5 days</b>	<b>5 days</b>	<b>Fri 9/12/03</b>	<b>Fri 9/19/03</b>	<b>0%</b>					
68	P&S	1 wk	1 wk	Fri 9/12/03	Fri 9/19/03	0%					

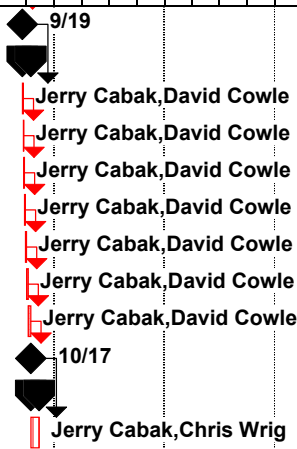


# All Tasks

# HIRES Dewar/Detector Upgrade



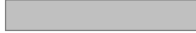










Thu 4/17/03

ID	Task Name	Duration	Remaining Duration	Start	Finish	% Complete	2002				2003				2004				2005				2				
69	Ship date	0 days	0 days	Fri 9/19/03	Fri 9/19/03	0%																					
70	<b>Commissioning</b>	<b>20 days</b>	<b>20 days</b>	<b>Fri 9/19/03</b>	<b>Fri 10/17/03</b>	<b>0%</b>																					
71	unpack and organize	1 day	1 day	Fri 9/19/03	Mon 9/22/03	0%																					
72	remove existing dewar and foot locker	2 days	2 days	Mon 9/22/03	Wed 9/24/03	0%																					
73	Install new dewar	2 days	2 days	Wed 9/24/03	Fri 9/26/03	0%																					
74	install footlocker	1 day	1 day	Fri 9/26/03	Mon 9/29/03	0%																					
75	mechanical and electrical connections	4 days	4 days	Mon 9/29/03	Fri 10/3/03	0%																					
76	alignment	3 days	3 days	Fri 10/3/03	Wed 10/8/03	0%																					
77	testing	7 days	7 days	Wed 10/8/03	Fri 10/17/03	0%																					
78	Ready for first light	0 days	0 days	Fri 10/17/03	Fri 10/17/03	0%																					
79	<b>Documentation</b>	<b>20 days</b>	<b>20 days</b>	<b>Fri 10/17/03</b>	<b>Fri 11/14/03</b>	<b>0%</b>																					
80	completion of documentaiton	4 wks	4 wks	Fri 10/17/03	Fri 11/14/03	0%																					





Project: HIRES-3 chips  
Date: Thu 4/17/03

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