

ID	Task Name	Duration	Start	Finish	2000												2001											
					Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	
1	<b>Antennas to Pads:</b>	<b>365 days</b>	<b>7/4/00</b>	<b>11/23/01</b>																								
2	- antenna 4	0 days	7/4/00	7/4/00																								
3	- antenna 7	0 days	11/22/00	11/22/00																								
4	- antenna 8	0 days	11/29/00	11/29/00																								
5	- antenna 5	0 days	12/22/00	12/22/00																								
6	- rebuilt antenna 2	0 days	5/15/01	5/15/01																								
7	- antenna 6	0 days	6/22/01	6/22/01																								
8	- rebuilt antenna 3	0 days	10/23/01	10/23/01																								
9	- antenna 1	0 days	11/23/01	11/23/01																								
10																												
11																												
12	<b>Receivers:</b>	<b>192 days</b>	<b>2/1/00</b>	<b>10/20/00</b>																								
13	- remove rx (#1) from ant 3	2 days	2/1/00	2/2/00																								
14	- ship rx 1 to Cambridge	5 days	2/3/00	2/9/00																								
15	- rebuild old ant 3 (rx 1)	15 days	3/2/00	3/22/00																								
16	- [ install rx 1, mt 4, RFI test, 3 feq ]	4 days	3/23/00	3/28/00																								
17	- ship rx 4 to HI ?	5 days	2/28/00	3/3/00																								
18	- reassemble rx 4 in Hilo	2 days	3/3/00	3/6/00																								
19	- move rx 4 to summit	1 day	3/7/00	3/7/00																								
20	- install rx 4 in mt 3	2 days	3/8/00	3/9/00																								
21	- new 230 insert in ant 3	3 days	4/20/00	4/24/00																								
22	- ship rebuilt rx 1 HI, mt 4	5 days	6/15/00	6/21/00																								
23	- install rx 1 in mt 4	2 days	6/26/00	6/27/00																								
24	- autotuning (1x230 LO)???	10 days	6/5/00	6/16/00																								
25	- 650 upgrade (1 insert, 2 LO's)	10 days	9/4/00	9/15/00																								
26	- calibrated load ?	4 days	10/17/00	10/20/00																								
27																												
28																												

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29	<b>IF/LO system:</b>	<b>257 days</b>	<b>10/19/99</b>	<b>10/6/00</b>																								
30	- rack installation (AR 1 - 8)	15 days	10/19/99	11/8/99																								
31	- move interf. IF/LO cables mt 2/3	6 days	2/7/00	2/14/00																								
32	- prepare mt 2/3 new IF/LO assembly	4 days	2/15/00	2/18/00																								
33	- install IF/LO assembly mt 4 (Hay)	5 days	3/6/00	3/10/00																								
34	- install 1/4 Final DDS (4 ant,1rx)	20 days	6/26/00	7/21/00																								
35	- strip racks for duct install	2 days	3/22/00	3/23/00																								
36	- rack installation (AR 9 - 13)	12 days	4/20/00	5/5/00																								
37	- install Final IF/LO assembly mt2,3 ?	10 days	6/26/00	7/7/00																								
38	- IF/LO in mt 4	3 days	6/20/00	6/22/00																								
39	- install partial DC LO distribution sys	7 days	6/26/00	7/4/00																								
40	- install 3-5 DC power supplies	5 days	7/10/00	7/14/00																								
41	- install 3-5 Downconverter draws (;	10 days	7/3/00	7/14/00																								
42	- end to end phase stability test ?	0 days	4/3/00	4/3/00																								
43	Aim is: 5 ant, 1 rx, 3 block	0 days	7/31/00	7/31/00																								
44	- min is 3 ant, 1rx, 1 blk	0 days	7/31/00	7/31/00																								
45	- install final MRG	5 days	10/2/00	10/6/00																								
46																												
47	<b>PowerPC upgrade:</b>	<b>90 days</b>	<b>10/25/99</b>	<b>2/25/00</b>																								
48	- purchase 22 PPC systems	60 days	11/22/99	2/11/00																								
49	- remove MXI interface	90 days	10/25/99	2/25/00																								
50	- freeze cables (ant 2, 3)	0 days	11/15/99	11/15/99																								
51	- full accn prototype	0 days	1/3/00	1/3/00																								
52	- mt 1 tests with PPC	60 days	11/8/99	1/28/00																								
53	- PPC into mt 2, 3	15 days	2/7/00	2/25/00																								
54																												
55	<b>Correlator:</b>	<b>614 days</b>	<b>1/28/00</b>	<b>5/31/02</b>																								
56	- rack installation	13 days	2/9/00	2/25/00																								

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57	<b>Software:</b>	<b>112 days</b>	<b>1/28/00</b>	<b>6/30/00</b>																								
58	- multi sideband, multi chunk op	0 days	1/28/00	1/28/00																								
59	- 2nd down conv (LO phase rot	0 days	2/25/00	2/25/00	2/25																							
60	- multi baseline operation	0 days	6/30/00	6/30/00													6/30											
61																												
62	<b>Hardware:</b>	<b>592 days</b>	<b>2/29/00</b>	<b>5/31/02</b>																								
63	- 2nd 1/4 correlator delivery	0 days	2/29/00	2/29/00	2/29																							
64	- 3 baselines, 1 block	0 days	6/26/00	6/26/00													6/26											
65	- 4 ant, 6 baselines, 1 block	0 days	7/19/00	7/19/00													7/19											
66	- 3rd 1/4 correlator delivered	0 days	7/31/00	7/31/00													7/31											
67	- 4 ant, 6 base, 2 blocks	0 days	8/17/00	8/17/00													8/17											
68	- 4 ant, 6 base, 3 blocks	0 days	8/31/00	8/31/00													8/31											
69	- 5 ant, 10 base, 3 blocks	0 days	9/29/00	9/29/00													9/29											
70	- 6 ant, 15 base, 3 blocks	0 days	11/30/00	11/30/00													11/30											
71	- 4th 1/4 correlator delivery	0 days	12/29/00	12/29/00													12/29											
72	- 6 ant, 15 base, 6 blocks	0 days	12/29/00	12/29/00													12/29											
73	- 7 ant, 21 base, 6 blocks	0 days	3/30/01	3/30/01													3/30											
74	Digital Correl finish (except HiRe	0 days	7/31/01	7/31/01													7/31											
75	- 8 ant, 28 base, 6 blocks	0 days	8/31/01	8/31/01													8/31											
76	- add 2nd rx/ant ?	0 days	9/28/01	9/28/01													9/28											
77	- complete 8 ant ops, *2,*4 HiRe	0 days	12/28/01	12/28/01													12/28											
78	- complete 10 ant, 1/5 bandwid	0 days	5/31/02	5/31/02													12/28											
79																												
80	<b>Correlator room a/c</b>	<b>131 days</b>	<b>11/15/99</b>	<b>5/12/00</b>																								
81	- let contract	1 day	11/15/99	11/15/99																								
82	- control conduit wiring	15 days	3/28/00	4/17/00																								
83	- pad addition	3 days	3/20/00	3/22/00																								
84	- A/C power wiring	5 days	3/22/00	3/28/00																								

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85	- install ducts elec, etc	12 days	3/24/00	4/10/00																								
86	- install PACU	10 days	4/14/00	4/27/00																								
87	- install Controls system	10 days	4/18/00	5/1/00																								
88	- Govenair tests	5 days	5/8/00	5/12/00																								
89																												
90	<b>Pad completion:</b>	<b>84 days</b>	<b>4/3/00</b>	<b>7/25/00</b>																								
91	- fiber pull (loop A)	8 days	4/3/00	4/12/00																								
92	- fiber pull (loop B)	10 days	4/13/00	4/26/00																								
93	- fiber pull (loop C)	10 days	4/27/00	5/9/00																								
94	- mold delivered HI	0 days	5/31/00	5/31/00																								
95	- pad 9 grout	10 days	5/31/00	6/13/00																								
96	- pad 14 grout	10 days	6/14/00	6/27/00																								
97	- pad 10 grout	10 days	6/28/00	7/11/00																								
98	- pad 6 grout	10 days	7/12/00	7/25/00																								
99	Delay grout till after ant 4 ?	0 days	7/5/00	7/5/00																								
100																												
101	<b>SMA/CSO/JCMT:</b>	<b>134 days</b>	<b>1/26/00</b>	<b>7/28/00</b>																								
111																												
112	<b>Servo:</b>	<b>126 days</b>	<b>10/18/99</b>	<b>4/10/00</b>																								
113	- design, prototype	55 days	10/18/99	12/31/99																								
114	- final hardware (mt 1)	0 days	1/11/00	1/11/00																								
115	- available for ASIAA ?	0 days	1/31/00	1/31/00																								
116	- install mt 4, tests Haystack	7 days	3/31/00	4/10/00																								
117																												
118																												
119	<b>Hanger space:</b>	<b>391 days</b>	<b>5/29/00</b>	<b>11/22/01</b>																								
120	- mount 7	25 days	10/11/00	11/13/00																								
121	- mount 4	25 days	5/29/00	6/30/00																								











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268	<b>Rebuild cabin on Antenna 3</b>	<b>87 days</b>	<b>6/25/01</b>	<b>10/23/01</b>																								
269	- move into hanger	1 day	6/25/01	6/25/01																								
270	- remove old fixtures	10 days	6/26/01	7/9/01																								
271	- fit new cabin	30 days	7/10/01	8/20/01																								
272	- install IO box, servo, cabling	30 days	8/21/01	10/1/01																								
273	- refit rx	15 days	10/2/01	10/22/01																								
274	- move to pad	1 day	10/23/01	10/23/01																								