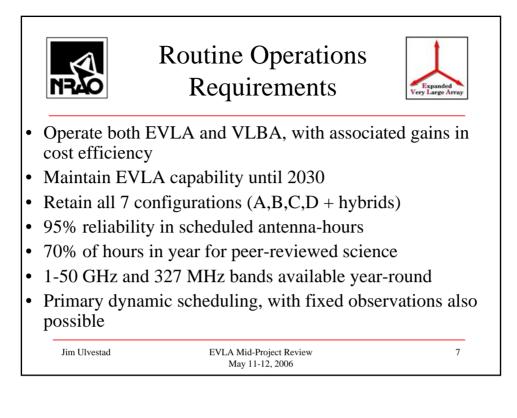


	Operations Personnel Summary	
Function	FTE (2000)	FTE (2012)
Array Science Center	30	62
Assistant Director's Office	5	4
Business Services	9.5	8
Array/Correlator Operations	25	19
Electronics	73	65
Engineering Services	52	48
Computing Infrastructure	9.5	10
Operational Software	9	11
(Education Center)	(1.5)	(8.5)
TOTAL (without Education Center)	213	227
Jim Ulvestad EVLA Mid-Proj May 11-12		4

Operations Personnel Plan, 2006-2012				
• Exclusive of full Array Science Center (annual increments not yet staged for ASC)				
·	Comment			
171	Current value			
176	EVLA scientific commissioning			
185	Commissioning; CASA to Ops			
190	Carpentry, painting at VLA			
192	EVLA Computing to Ops S/W			
194				
195	Baseline science support only			
	Plan sive of full nents not y FTEs 171 176 185 190 192 194			

Total EVLA/VLBA Ops Costs (FY03 \$\$)			
Function	2000 (03\$\$)	2012 (03\$\$)	2012 (12\$\$)
Personnel nominal science support (213 FTEs in 2000, 195 FTEs in 2012)	~\$14.9M	~\$13.6M	~\$18.5M
M&S, facilities, power, travel	\$4.2M	\$5.0M	\$6.8M
Subtotal present science support	~\$19.1M	~\$18.6M	~\$25.3M
Science Center Added Personnel	\$0M	\$3.1M	\$4.2M
Science Center Added Costs	\$0M	>\$2.8M	>\$3.8M
Grants	\$0M	??	??
Subtotal – Science Center extras	\$0M	>\$5.9M	>\$8.0M
TOTAL	\$19.1M	>\$24.5M	>\$33.3M
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	Array Science Center Personnel	
Function	FTE (2000)	FTE (2012)
Mgmt/Admin	2	6
EVLA/VLBA Sci. Support	13	9
User Support Services	3	6
Post-Processing + Algorithms	10	9
Pipeline/Archiving/Computing	0	6
Data Services	2	9
Software Support/Testing	0	2
Postdocs/visitors	0	8
H/W Development; New Initiatives	0	7
TOTAL	30	62
May 11	-12, 2006	



Annual Ops/Infrastructure Costs



- All costs in dollars of year (FY05\$ for 2005, FY12\$ for 2012 costs)
- FY05 cost includes pro-rated share of past infrastructure augmentations (FY05 direct budget totaled \$4.0M)

Function	Cost (2005)	Cost (2012)
M&S, Facilities, Travel	\$3.2M	\$3.9M
EVLA Power	\$0.6M	\$1.6M
AOC Power	\$0.3M	\$0.5M
VLBA Power	\$0.4M	\$0.7M
Added VLA-AOC Bandwidth	\$0.0M	\$0.1M
TOTAL	\$4.5M	\$6.8M

