Table 1. FY14 Expenditures by Project

		51.1	_						_	umulative		
Project name	PI or manager	Related telescope	٢	Y14 total cost	FY1	.4 external funds	N	let cost to UCO	n	et cost to UCO	External fund source	Comments
•												
Planned projects at UCSC:												
TMT MOBIE	Bernstein	TMT	\$	499,584	\$	368,529	\$	131,055	\$	131,055	TMT project	Revenue-neutral
TMT motor-control software	Deich	TMT	\$	170,002	\$	-	\$	170,002	\$	301,057	TMT project	Partial cost recovery sought Contract sought from
Advanced coatings research	Bolte, Phillips	TMT, Keck	\$	414,259	\$	-	\$	414,259	\$	715,317		Advanced Solar Telescope
											Moore	AO optics, laser, IRCAL camera,
Shane AO	Gavel, Max	Keck, TMT	\$	1,035,594		129,760	\$	905,834			Foundation	wind-predictive AO
Next-Generation AO proposal	Max, Gavel	Keck	\$	132,980	\$	-	\$	132,980	\$	1,754,130		For NSF Mid-scale program Camera, detector software;
KCWI spectrograph	Martin (Caltech)	Keck	\$	358,883	\$	158,321	\$	200,562	\$	1,954,692	KCWI project Keck	revenue-neutral Azimuth encoder, laser launch
Keck support projects	Rockosi	Keck	\$	93,507	\$	-	\$	93,507	\$	2,048,199	Observatory	telescope; contracts sought
Remote observing support	Deich	Keck, Lick	\$	63,418	\$	-	\$	63,418	\$	2,111,617		
Gemini Planet Imager Automated Planet-Finder	Macintosh (LLNL) Vogt (UCSC),	Gemini-South	\$	29,252	\$	16,500	\$	12,752	\$	2,124,369	GPI project PIs Vogt and	Revenue-neutral
telescope	Marcy (UCB)	APF	\$	90,545	\$	52,503	\$	38,042	\$	2,162,411	Marcy	Revenue-neutral
Shane KAST upgrade New proposal development,			\$	56,967	\$	35,713	\$	21,254	\$	2,183,665	Private donor Small software	Revenue-neutral
contingency, unallocated effort			\$	819,197	\$	15,046	\$	804,151	\$	2,987,816	contract	
												External funds may increase if
Planned project totals			\$	3,764,188	\$	776,372	\$	2,987,816				new contracts come through
Fixed expenses:												
UCSC faculty			\$	2,006,569	\$	-	\$	2,006,569	\$	4,994,385		
Faculty stipends			\$	20,000	\$	-	\$	20,000	\$	5,014,385		
Director's office administration			\$	411,217	\$	-	\$	411,217	\$	5,425,602		
FY14 salary & benefits increases			\$	147,000	\$	-	\$	147,000	\$	5,572,602		For faculty and staff
												TMT IRIS is the major funded
UCLA operations			\$	340,000		-	\$	340,000		5,912,602		UCO project at UCLA
Lick Observatory operations		Shane	\$	1,312,083	\$	-	\$	1,312,083	\$	7,224,685		Spartan model
Grand totals, planned budge	et		\$	8,001,057	\$	776,372	\$	7,224,685				

Uncommitted funds: \$7.548		Assumes that FY14 budget is
M - \$7.225 M	\$ 323,315	\$7.548 M, same as FY13

Candidate additional project	ts, currently unfo	ınded:	Cost		
Keck I tertiary mirror	Prochaska (UCSC)	Keck	\$ 195,202	NSF	Likely will be rejected
Keck OSIRIS IR detector upgrade	Larkin (UCLA)	Keck	\$ 187,000	NSF	Likely will be rejected
Keck NIRSPEC detector upgrade	Mclean (UCLA) Larkin (UCLA),	Keck	\$ 281,000	NASA	Rejected Systems engineers for MOBIE
TMT system engineers	Bernstein (UCSC)	TMT	\$ 240,000		and IRIS Additional UCO-supported work of an as-yet-unspecified
KCWI spectrograph	Martin (Caltech)	Keck	TBD		nature

Other budget needs for FY1		beyond: ermanent			
	aug	mentation	One-	ime funds	
Service buyouts for systemwide					Three full-effort UCO faculty @ \$42 k per faculty; will increase
astronomy faculty Project mgt/cost-accounting	\$	126,000	\$	-	in FY15 and future years For MOBIE and to streamline
software at UCSC	\$	-	\$	250,000	UCO business office Hire spring 2014; \$40 k needed
Managing director	\$	160,000	\$	-	in FY14
Director salary and startup	\$	300,000	\$	300,000	Needed in FY15
Capital improvements fund	\$	300,000	\$	-	Replace aging equipment
Total other budget needs	\$	886,000	\$	550,000	

Notes:

- 1) Administrative costs are divided into three pieces, the director's office administration, technical administration, and Lick Observatory. The director's administration is a separate line item, the Lick administration is included in the Lick costs, and technical administration is pro-rated across the technical projects.
- 2) Project costs include technical staff, research scientists, and pro-rated technical administration; purchases not included.
- 3) "Revenue-neutral" means external funds cover technical salaries but not pro-rated technical administrative costs. This is why the net cost to UCO is always positive.
- 4) External funds are still being sought for some projects. See comments.