Table 17.25-- ASTRONOMY AND RELATED FACILITIES AT THE SUMMITS OF MAUNAKEA FOR 2016 AND HALEAKALA FOR 2017

[Categories may not sum to totals due to rounding]

Facility and year (mirror diameter in meters)	Capital cost (\$ mil) 1/	Annual operating cost (\$ mil)	County based staff	Opera- tional
Maunakea observatories, 2016				
Total	601	72.4	501	(X)
UH 2.2-m (Optical/Infrared) Canada-France-Hawaii 3.6-m (Optical/Infrared) NASA IRTF 3.0-m (Infrared) UKIRT 3.8-m (Infrared) James Clerk Maxwell 15-m Submillimeter VLBA Antenna 25-m (Radio) W.M. Keck Observatory (Keck I & II) 10-m x 2 (Optical/Infrared) Subaru 8-m (Optical/Infrared) Fredrick C. Gillett Gemini 8-m (Optical/Infrared) Submillimeter Array 8x6-m Maunakea Observatories Support Services	5 30 10 5 32 7 170 170 170 92 80 (X)	1.0 7.5 5.1 2.2 4.5 0.4 14.2 17.0 15.0 5.5 2/ 5.4	6 49 19 6 36 2 125 101 83 23 51	1970 1979 1979 1979 1986 1992 1992/1996 1999 1999 2003 1980
Haleakala observatories, 2017				
Total	749	40.7	202	(X)
Mees Solar Observatory Haleakala Observatories Projects Maui Space Surveillance Site (MSSS) 3/ Ground-Based Electro-Optical Deep Space Surveillance (GEODSS) Faulkes 2-m Telescope Transportable Laser Ranging System (TLRS4) Panoramic Survey Telescope And Rapid Response System (Pan-STARRS) UH Haleakala Support Facilities	1 (X) 250 25 10 1 110 9	0.2 0.2 26.3 6.1 0.6 0.8 5.6 1.2	1 2 117 16 2 5 11	1963 (X) 1965 1983 2003 2005 2009 1962/2008
Daniel K. Inouye Solar Telescope (DKIST)	344	4/ 18.0	35	(5/)

X Not applicable.

 $1/\,$ Historical cost, not adjusted for inflation, and not including subsequent capital improvements for Maunakea Observatories.

2/ Only \$1.9 million are included in total, as the other \$3.5 million are part of facility operating costs.

3/ Formerly Air Force Maui Optical Station (AMOS).

4/ Operational cost of 18 million not included in the total.

5/ DKIST was scheduled to be operational by 2020. However, data are not yet available.

Source: University of Hawaii at Manoa, Institute for Astronomy, records.