

The 40" Yerkes refractor



Reflector telescopes

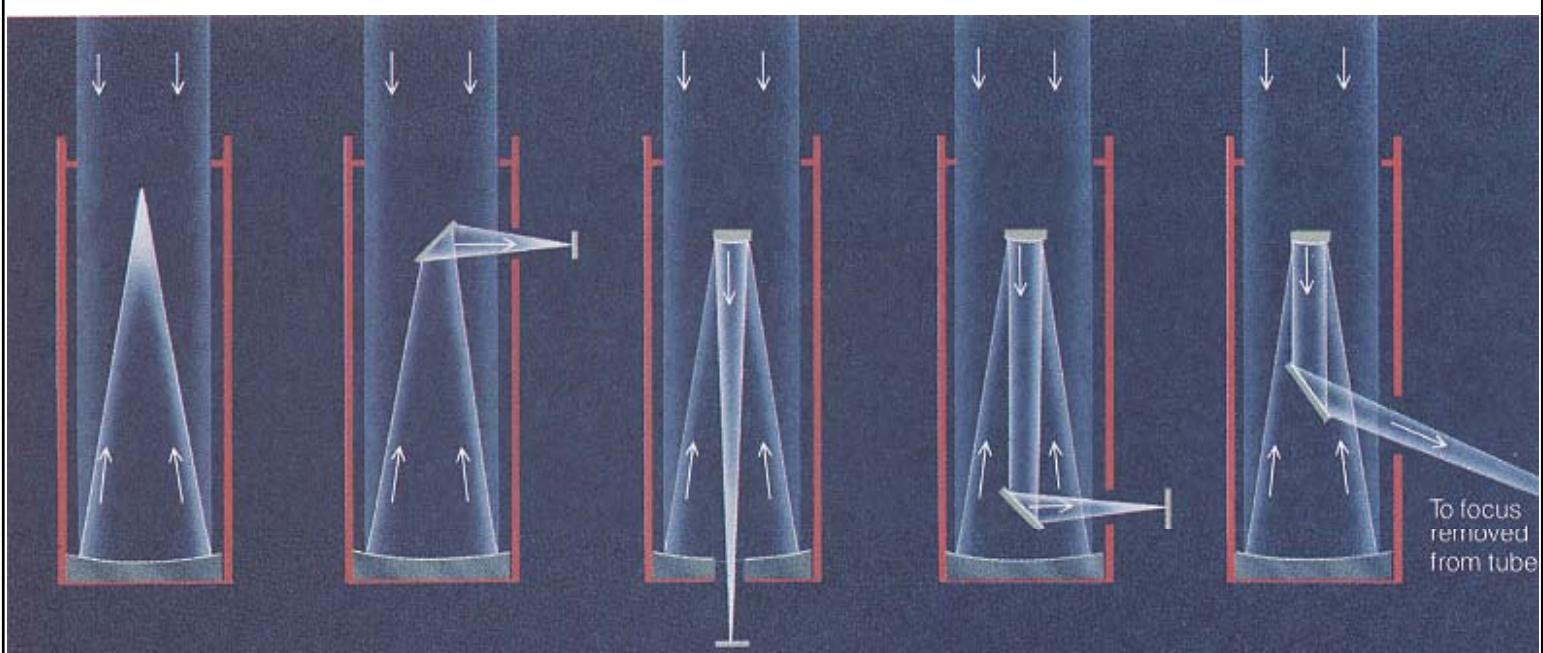


Shane 120''
Lick Observatory, CA



Hale 200''
Mount Palomar, CA

Telescope focal positions



Prime focus

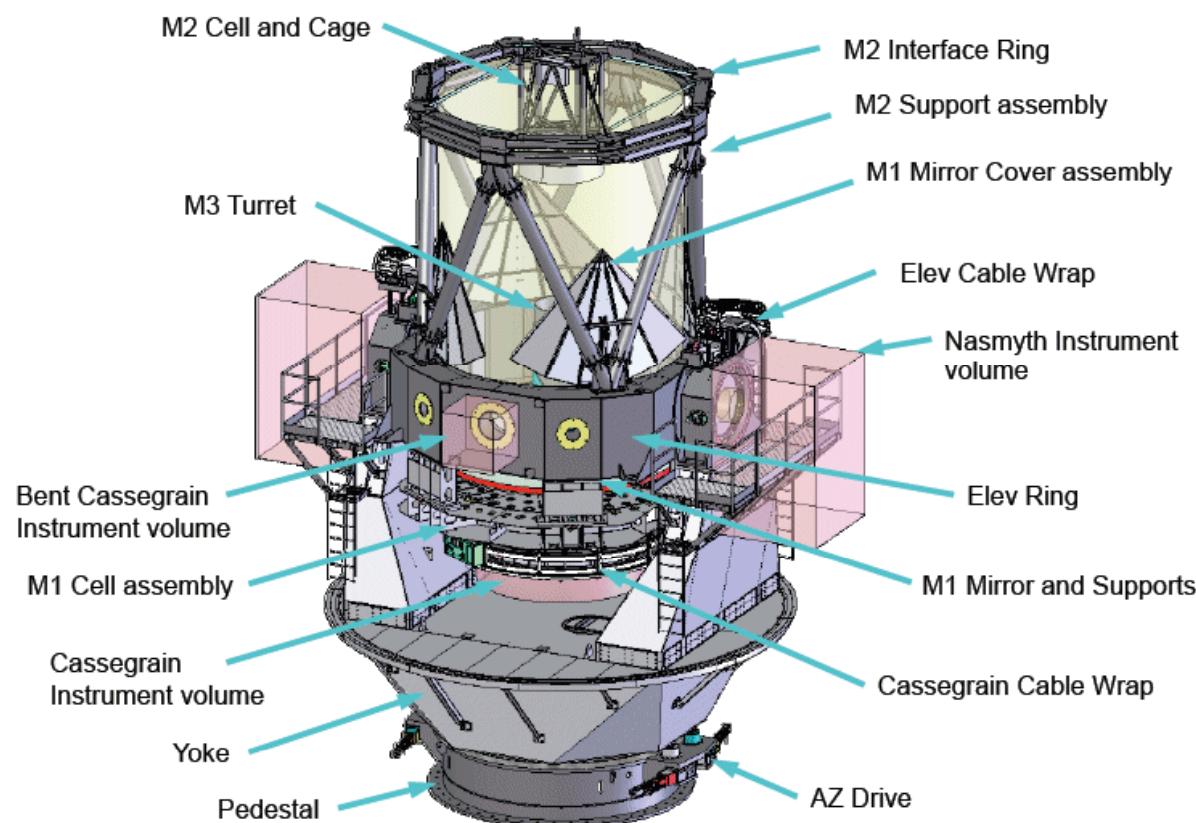
Newtonian

Cassegrain

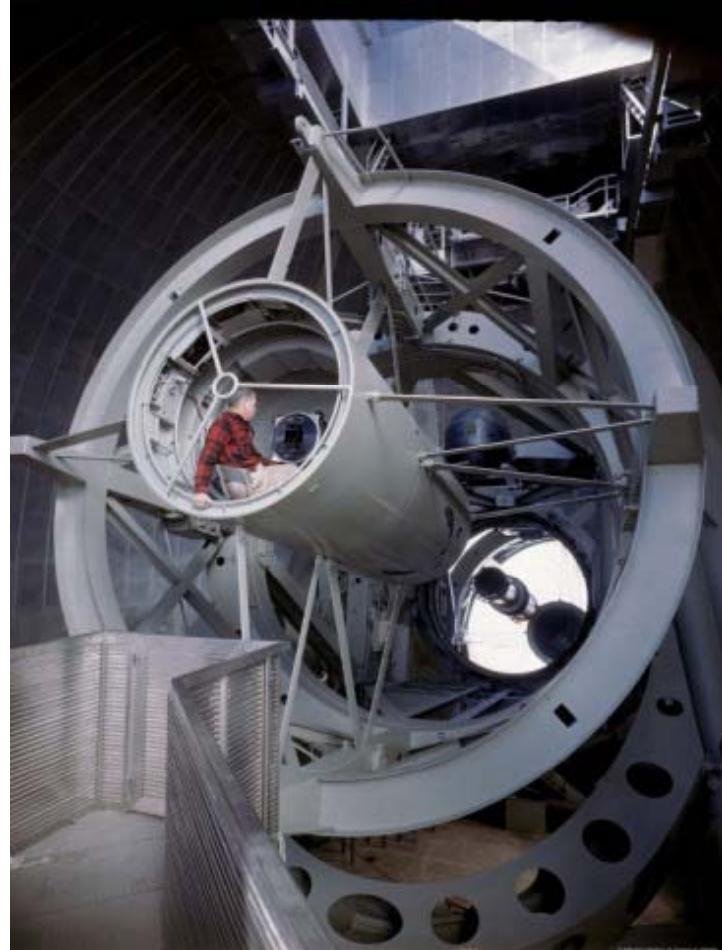
Bent Cass or
Nasmyth

Coude

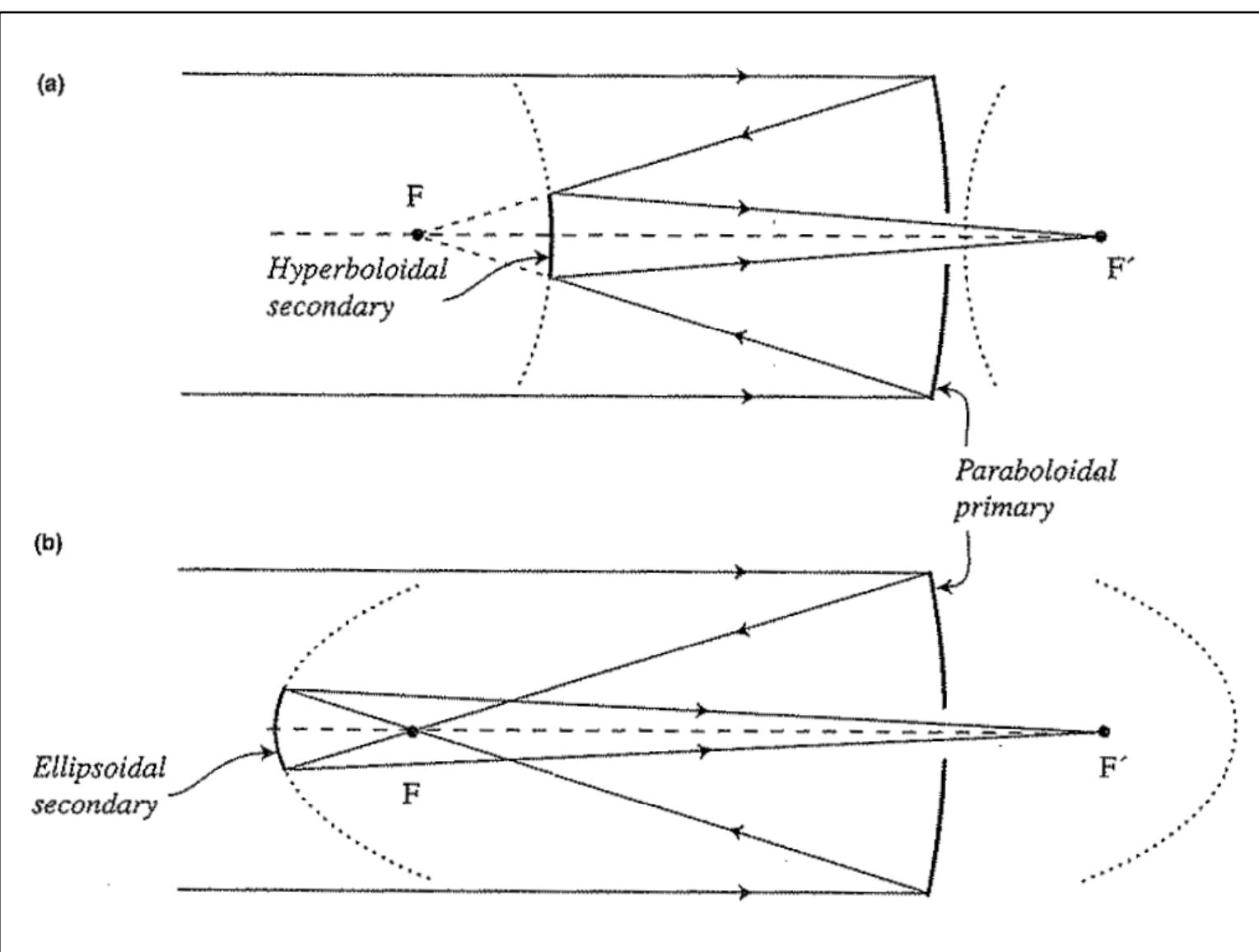
Discovery Channel Telescope



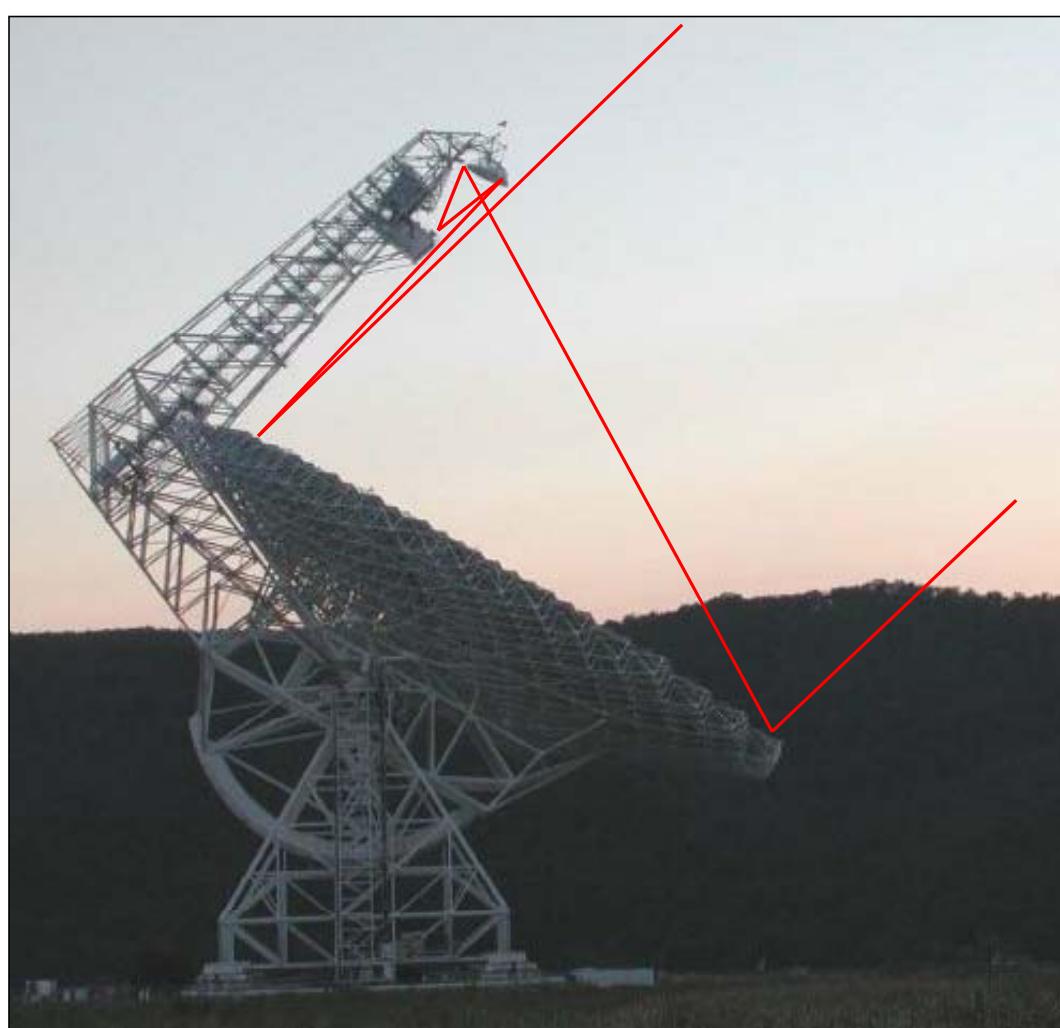
In the prime focus cage



Reber telescope



The Herschel Space Telescope



X-ray telescopes: grazing incidence

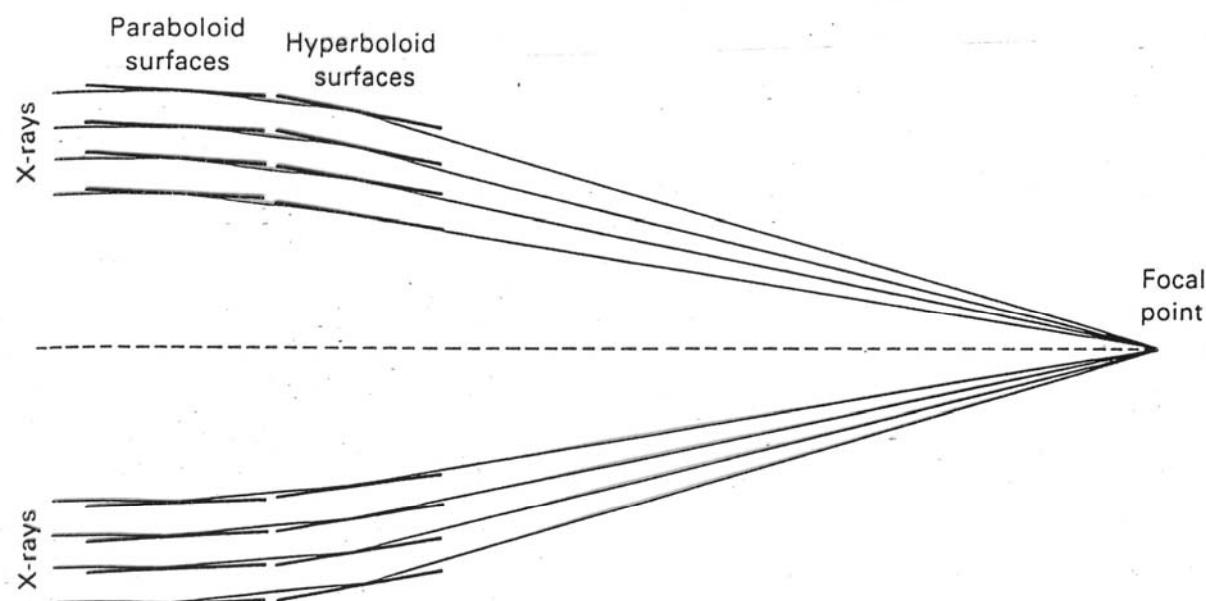


Figure 7.12. Illustrating the focussing of X-rays by a nested set of paraboloid–hyperboloid mirrors. This is the arrangement which was used in the Einstein X-ray Observatory. (From W. Tucker and R. Giacconi (1985). *The X-ray universe*, page 105, Cambridge: Harvard University Press.)

Nested mirrors, central block

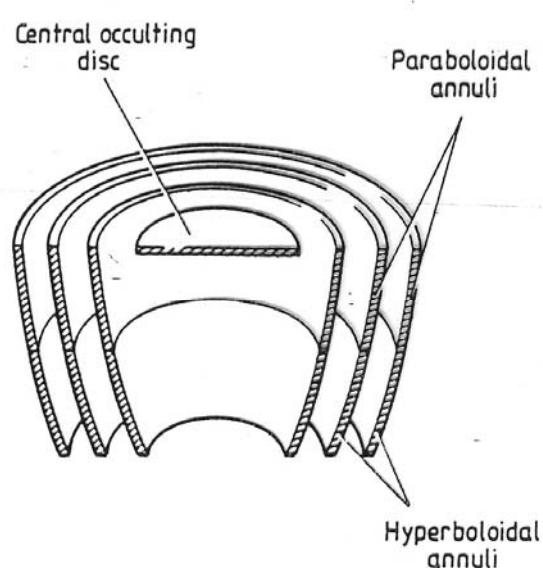
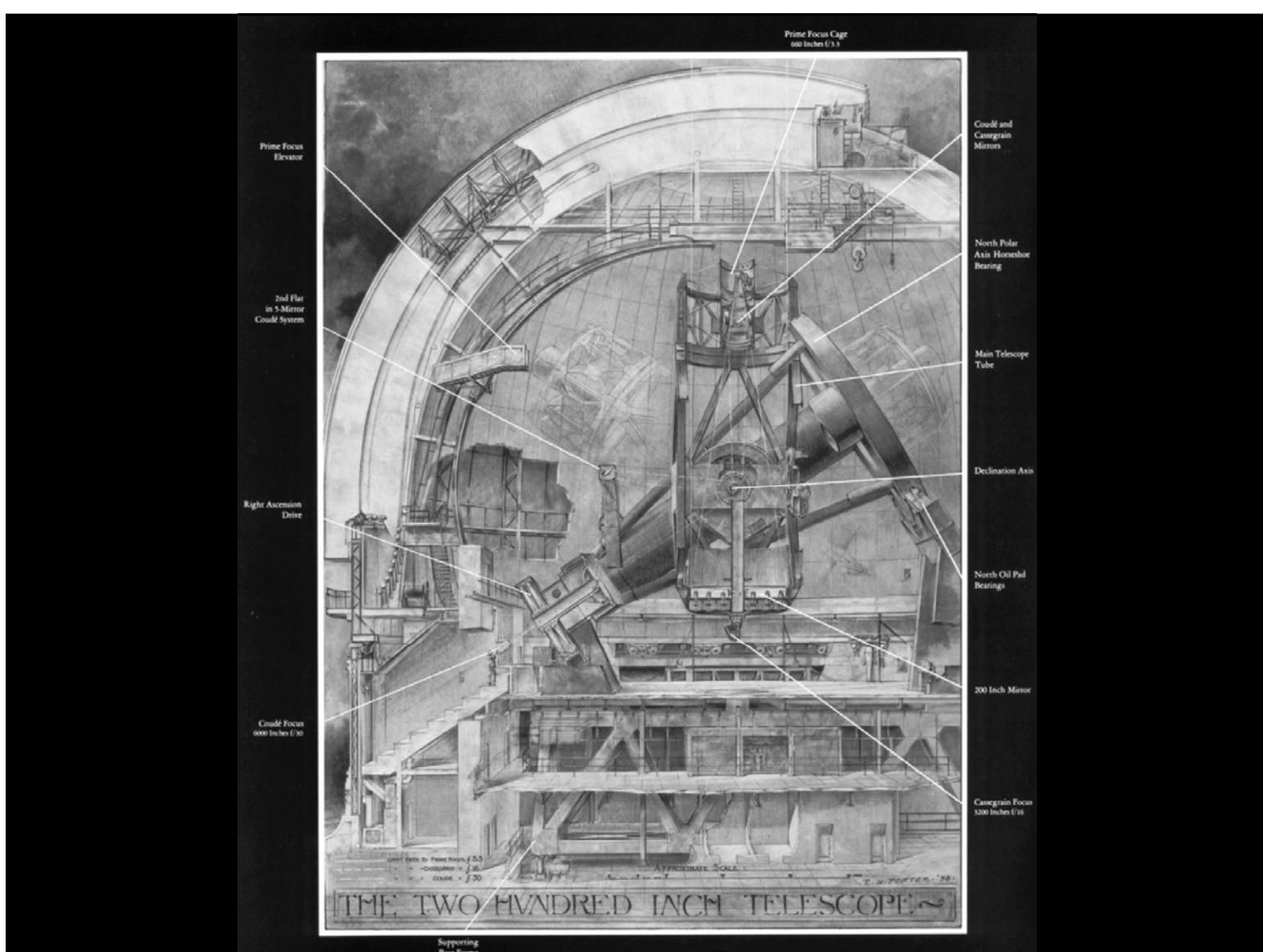
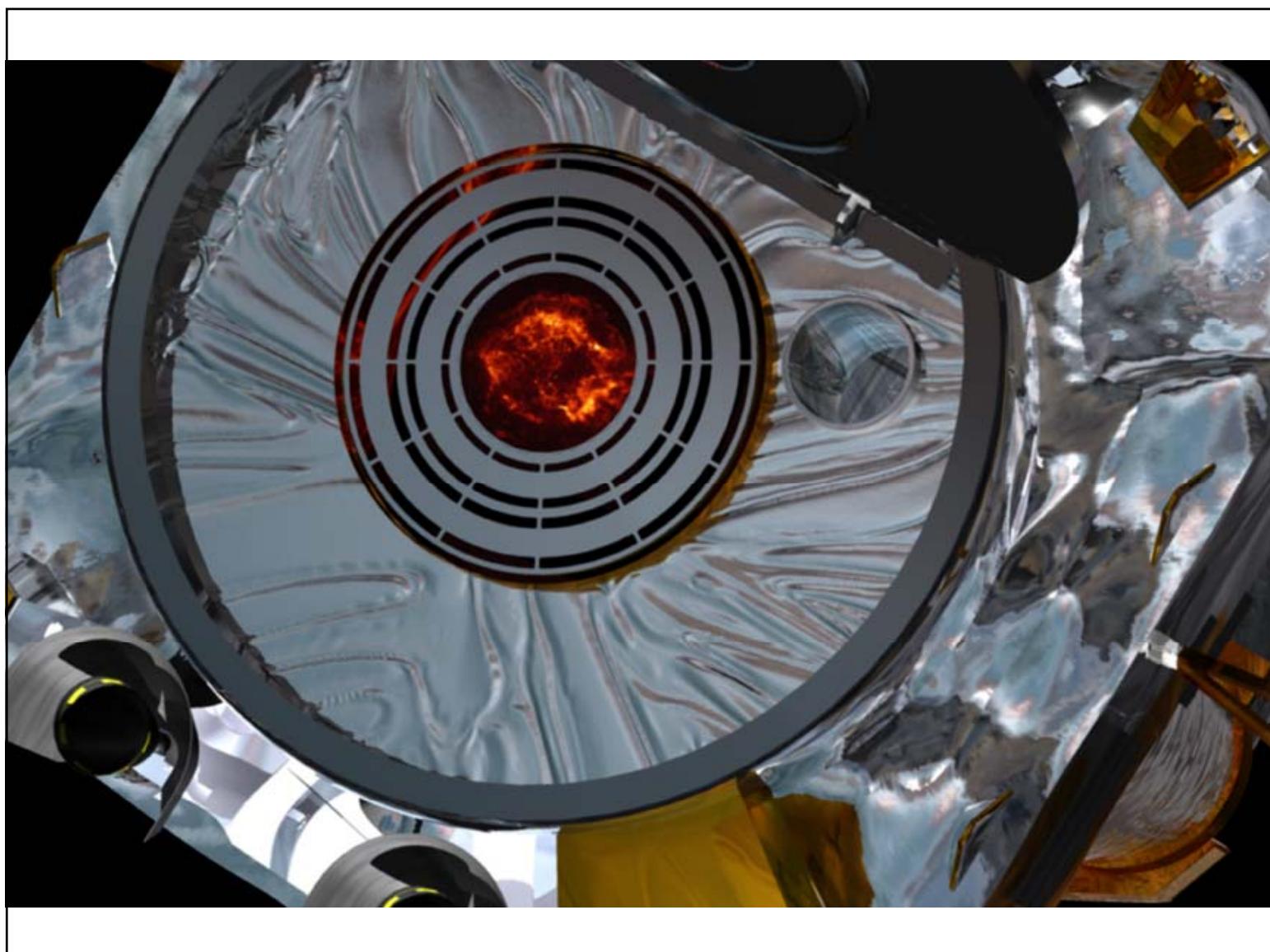
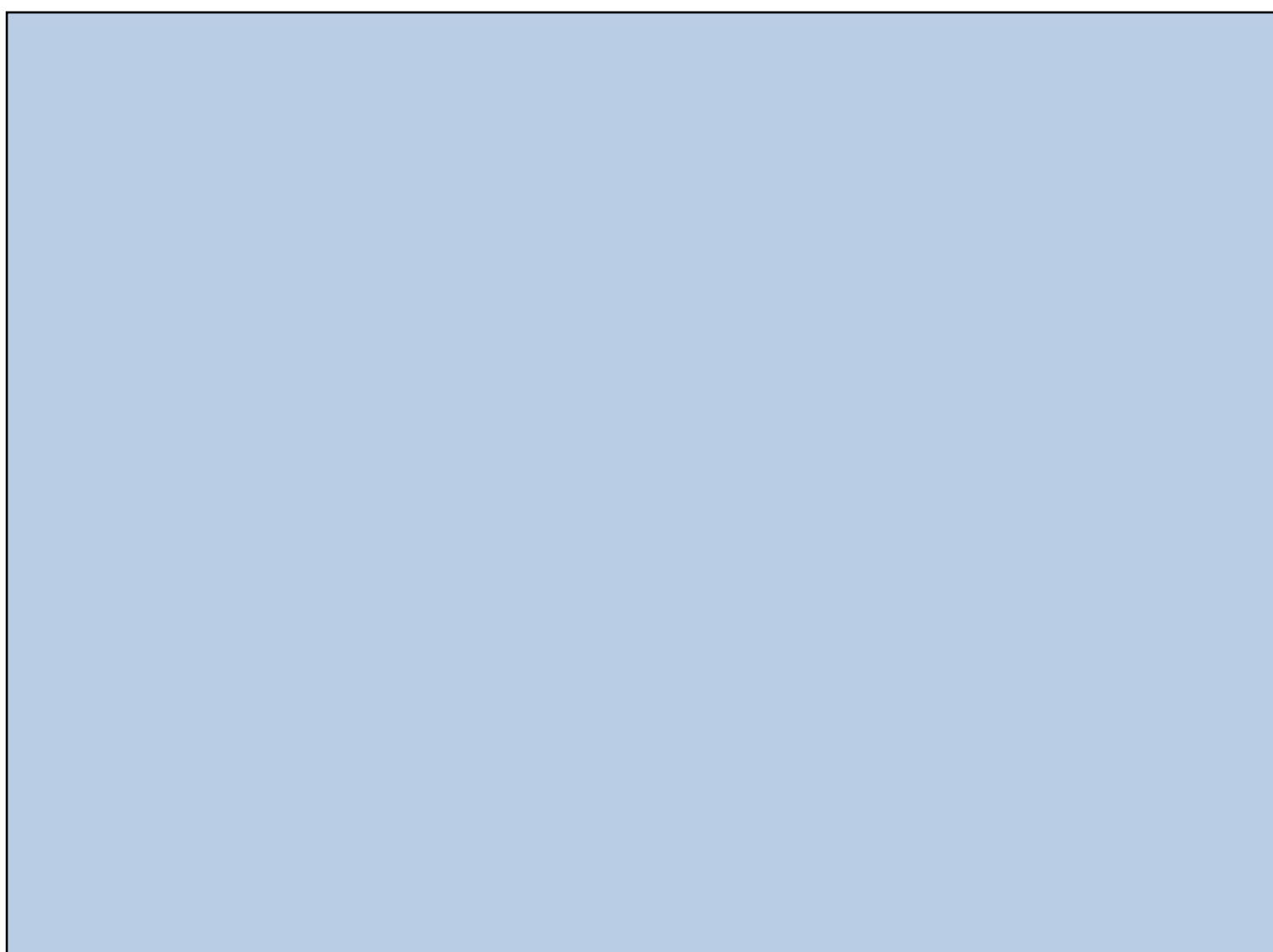
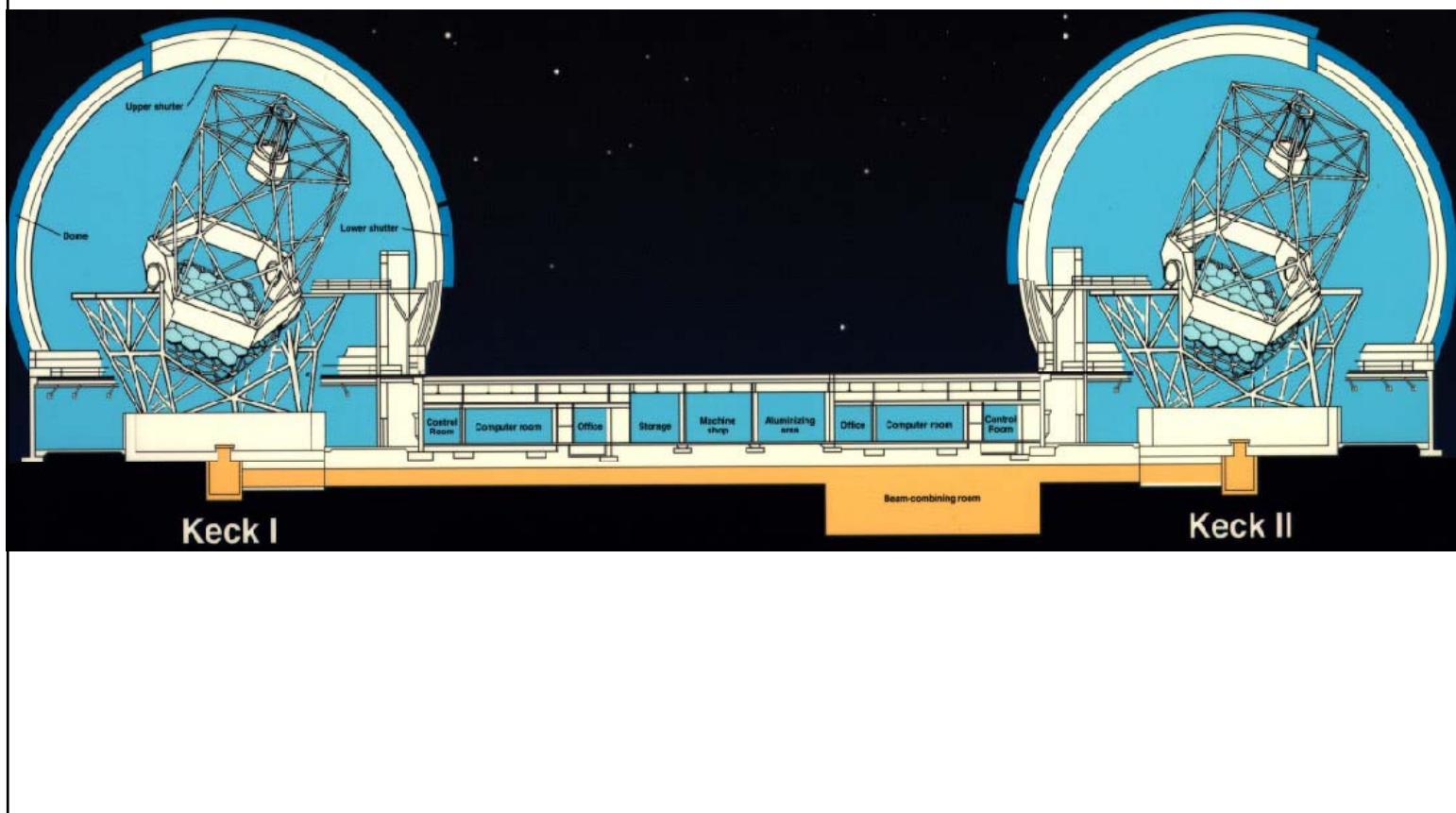
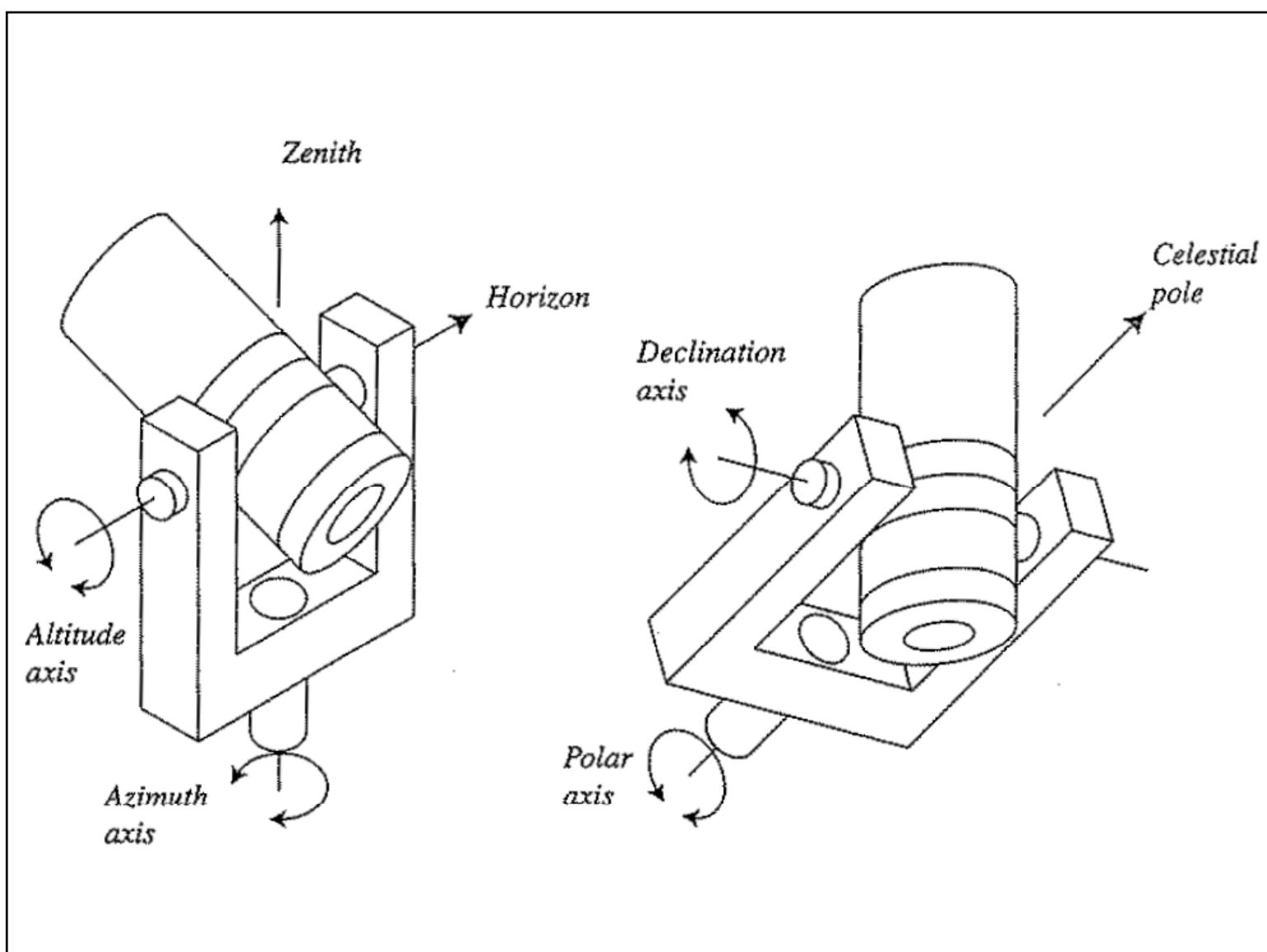
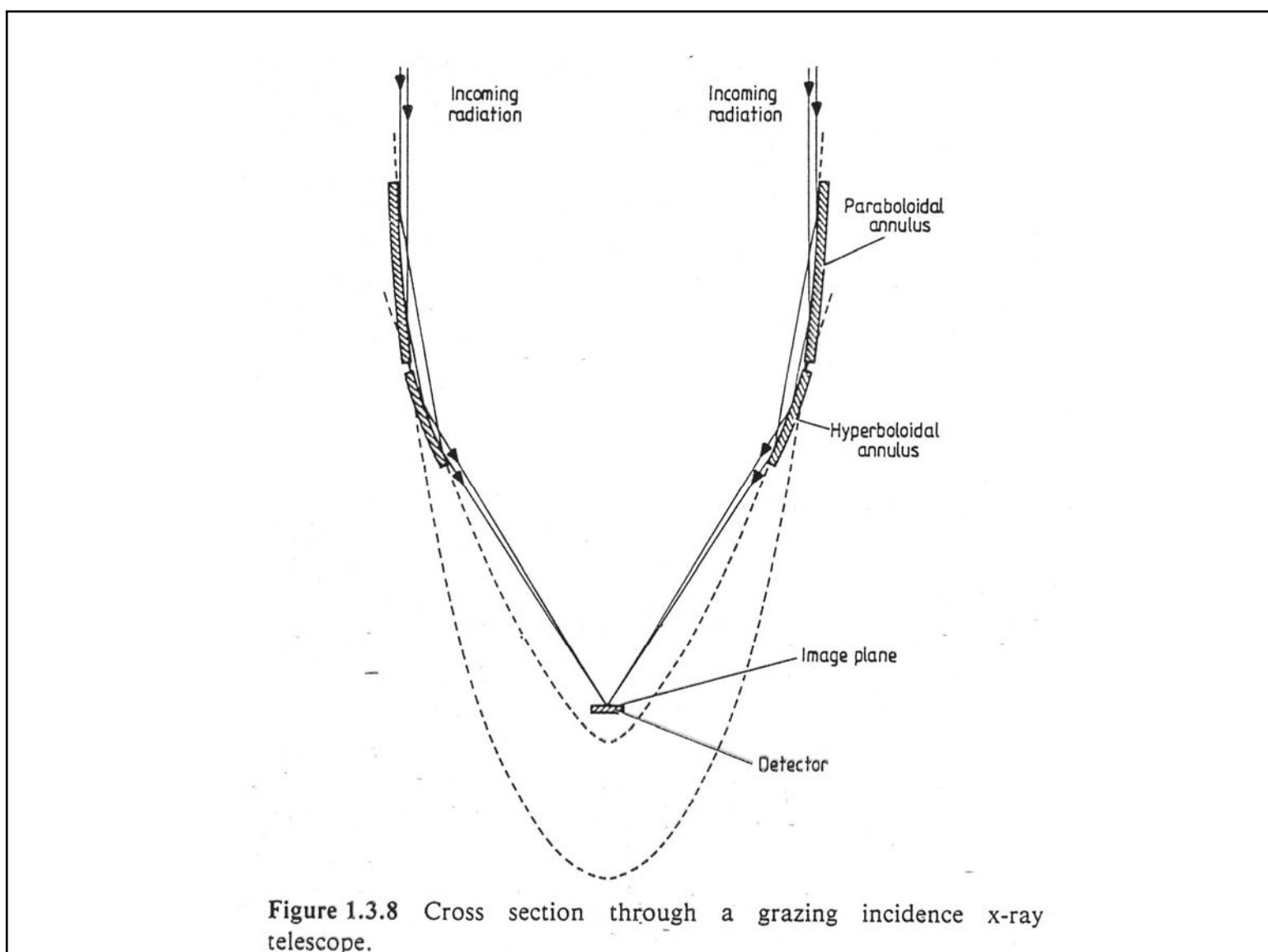


Figure 1.3.10 Section through a nested grazing incidence x-ray telescope.

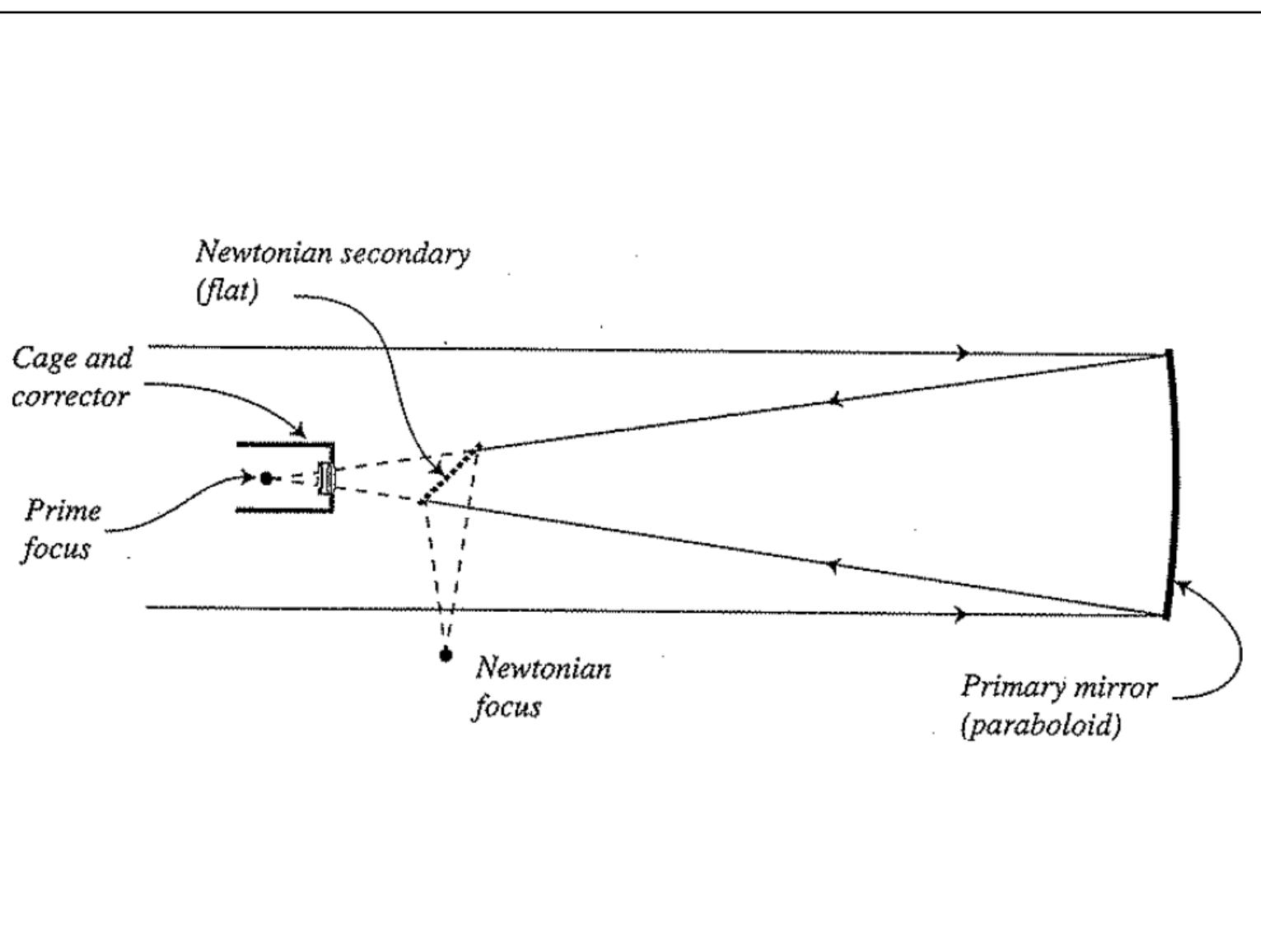


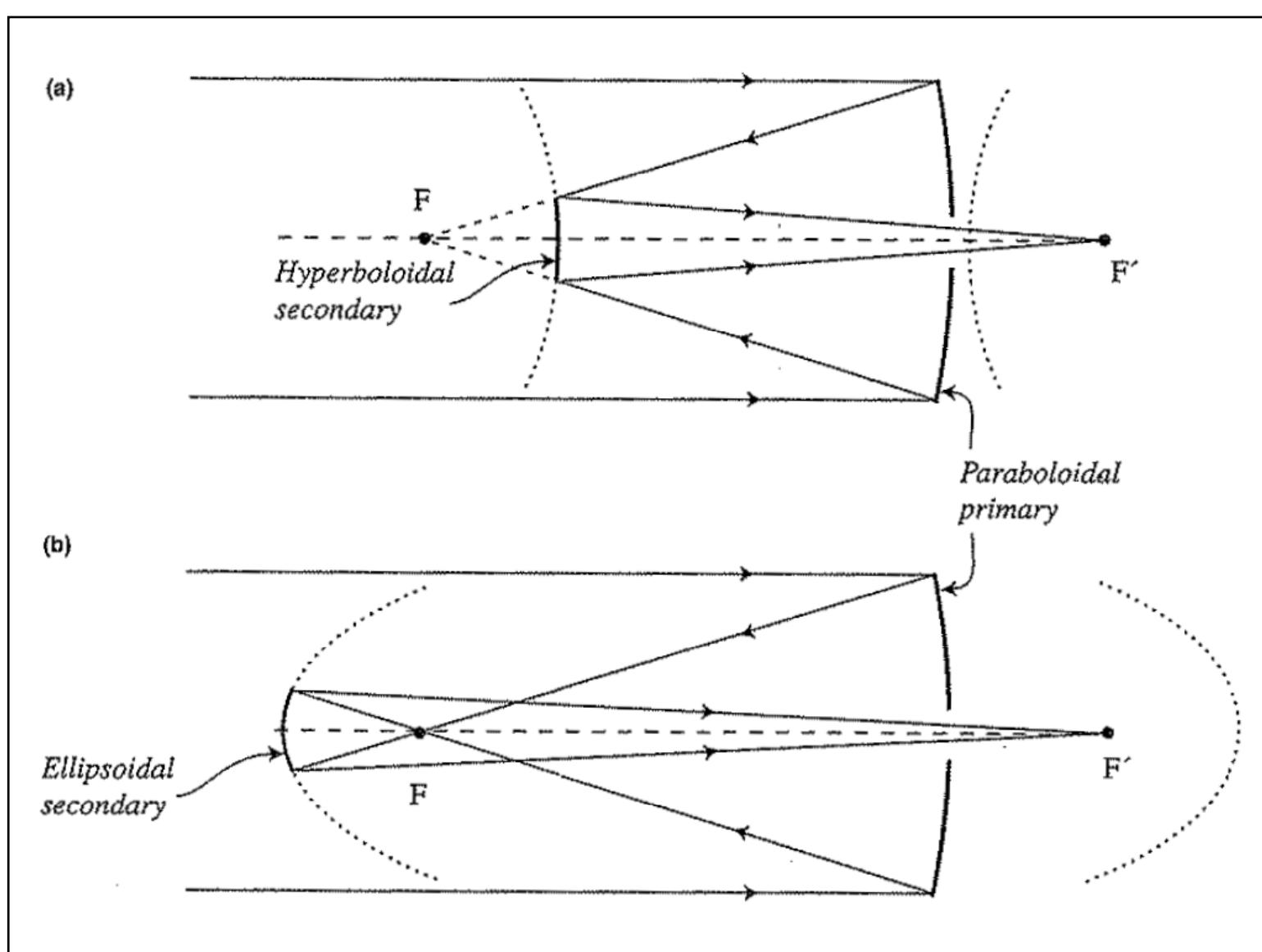
Keck telescopes and interferometer



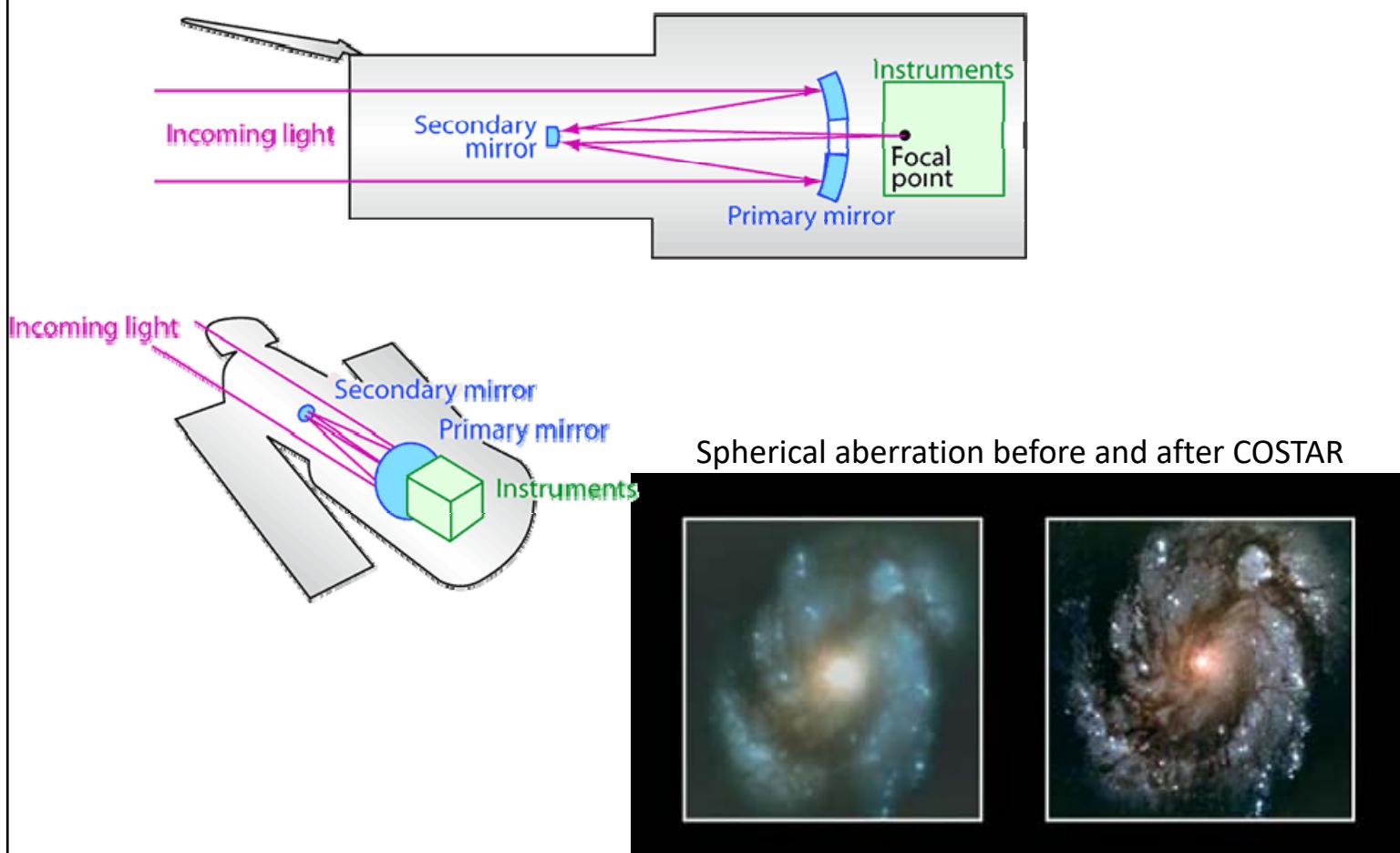


Hale 200" telescope, Mt. Palomar

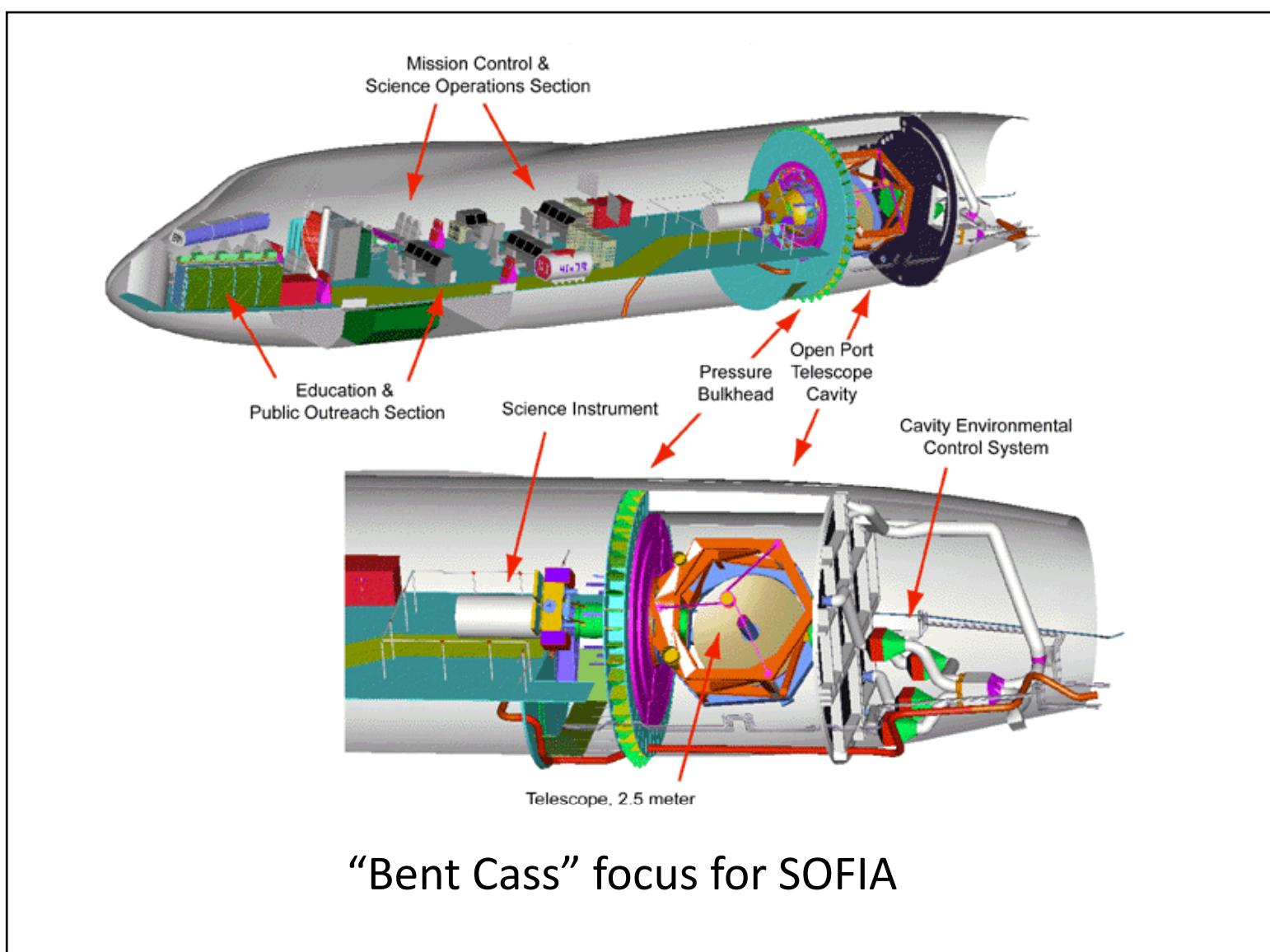




Hubble's optics



Lots of bulky equipment at the Cassegrain focus, out of the light path



“Bent Cass” focus for SOFIA

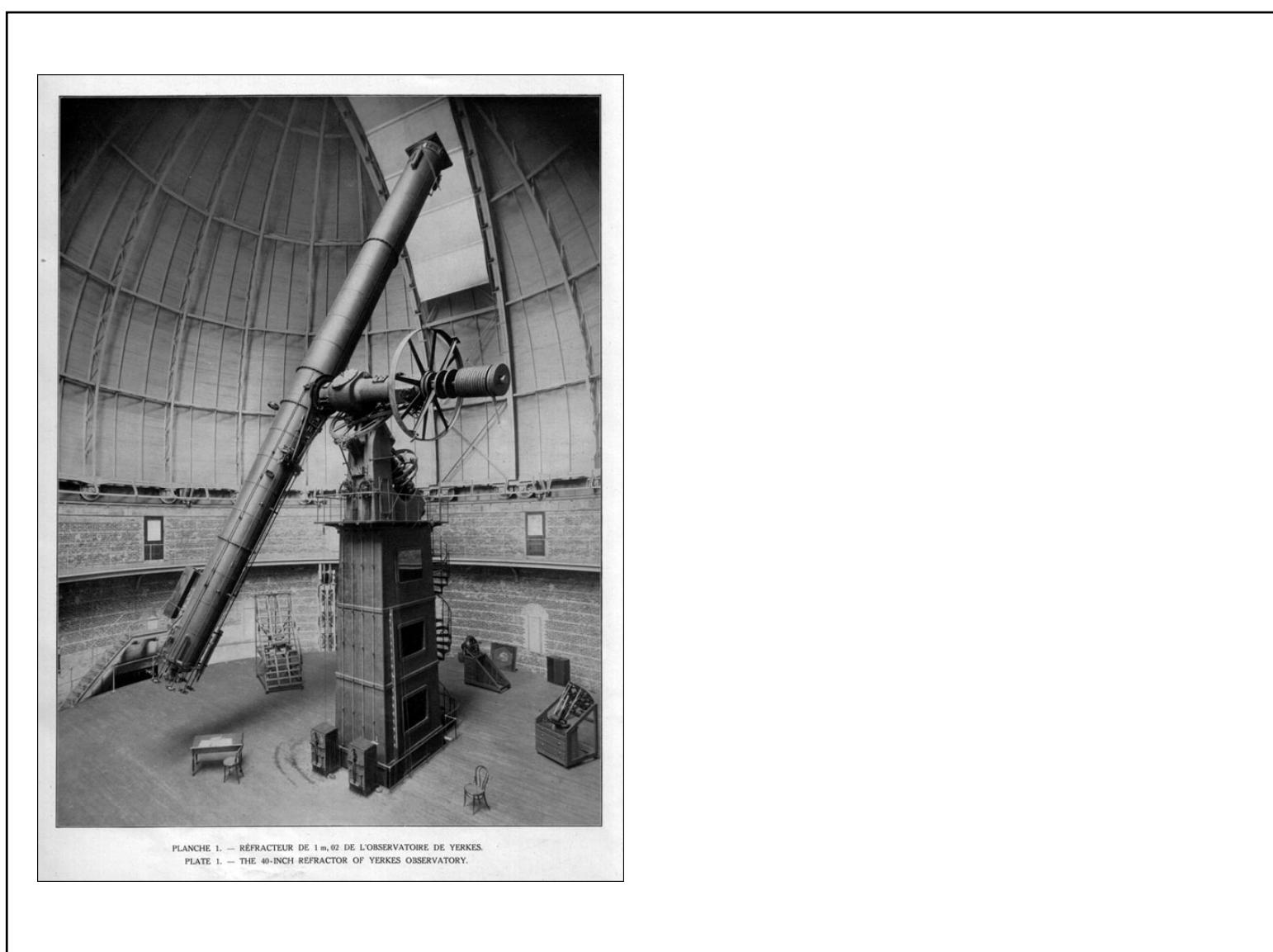


PLANCHE 1. — RÉFRACTEUR DE 1 m. 02 DE L'OBSERVATOIRE DE YERKES.
PLATE 1. — THE 40-INCH REFRACTOR OF YERKES OBSERVATORY.

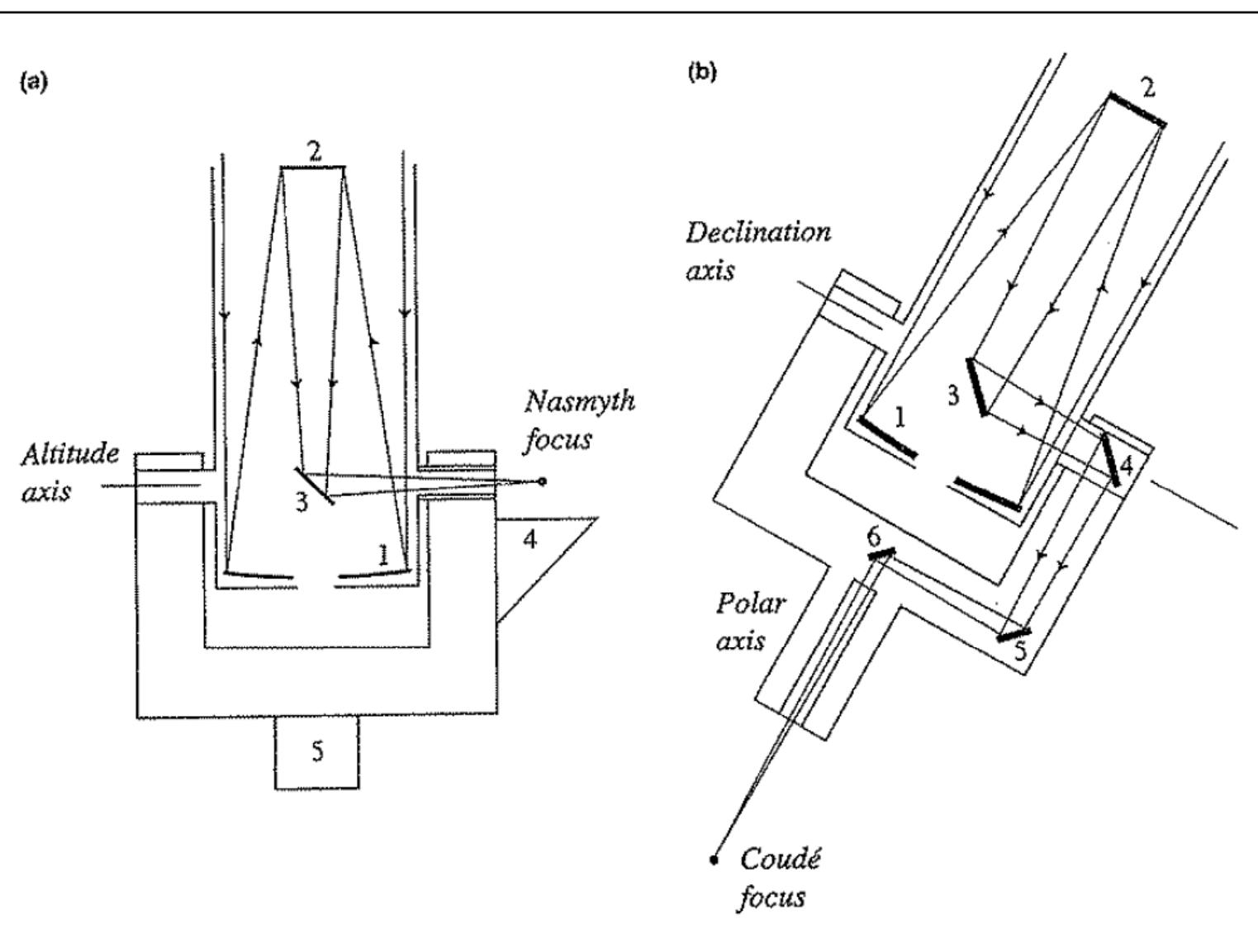
Fork and yoke mounts

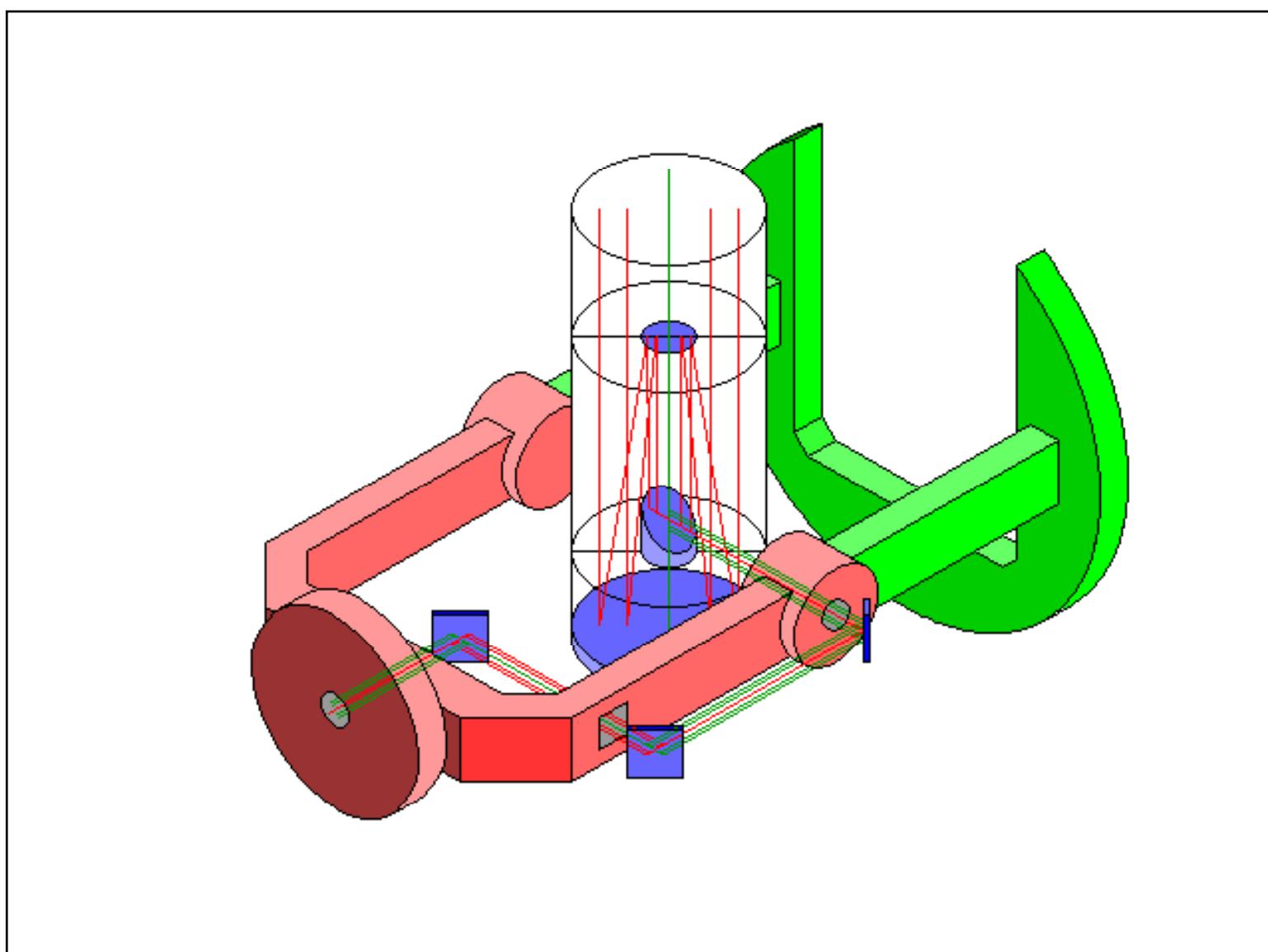


Shane 120"
Lick Observatory, CA



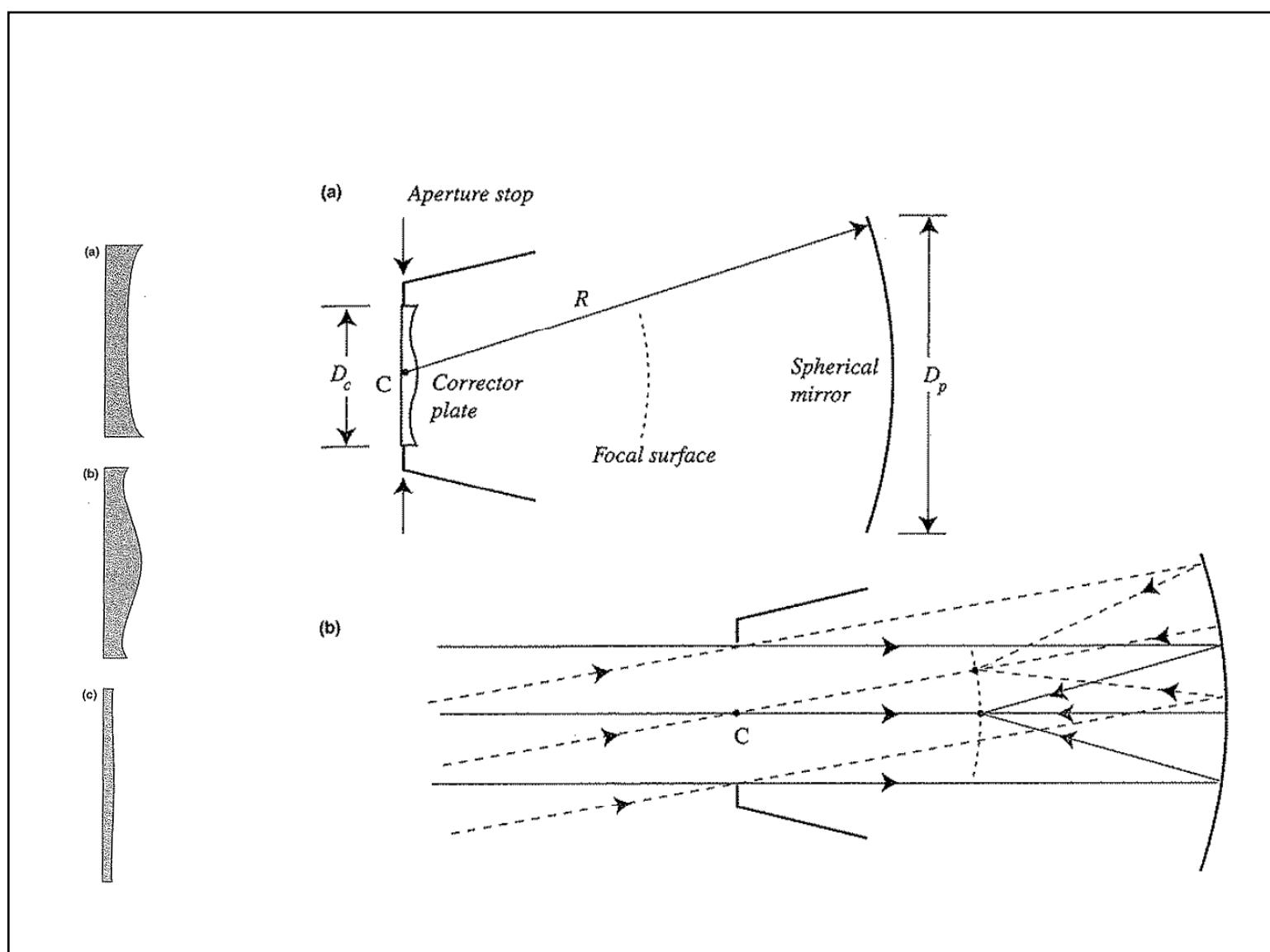
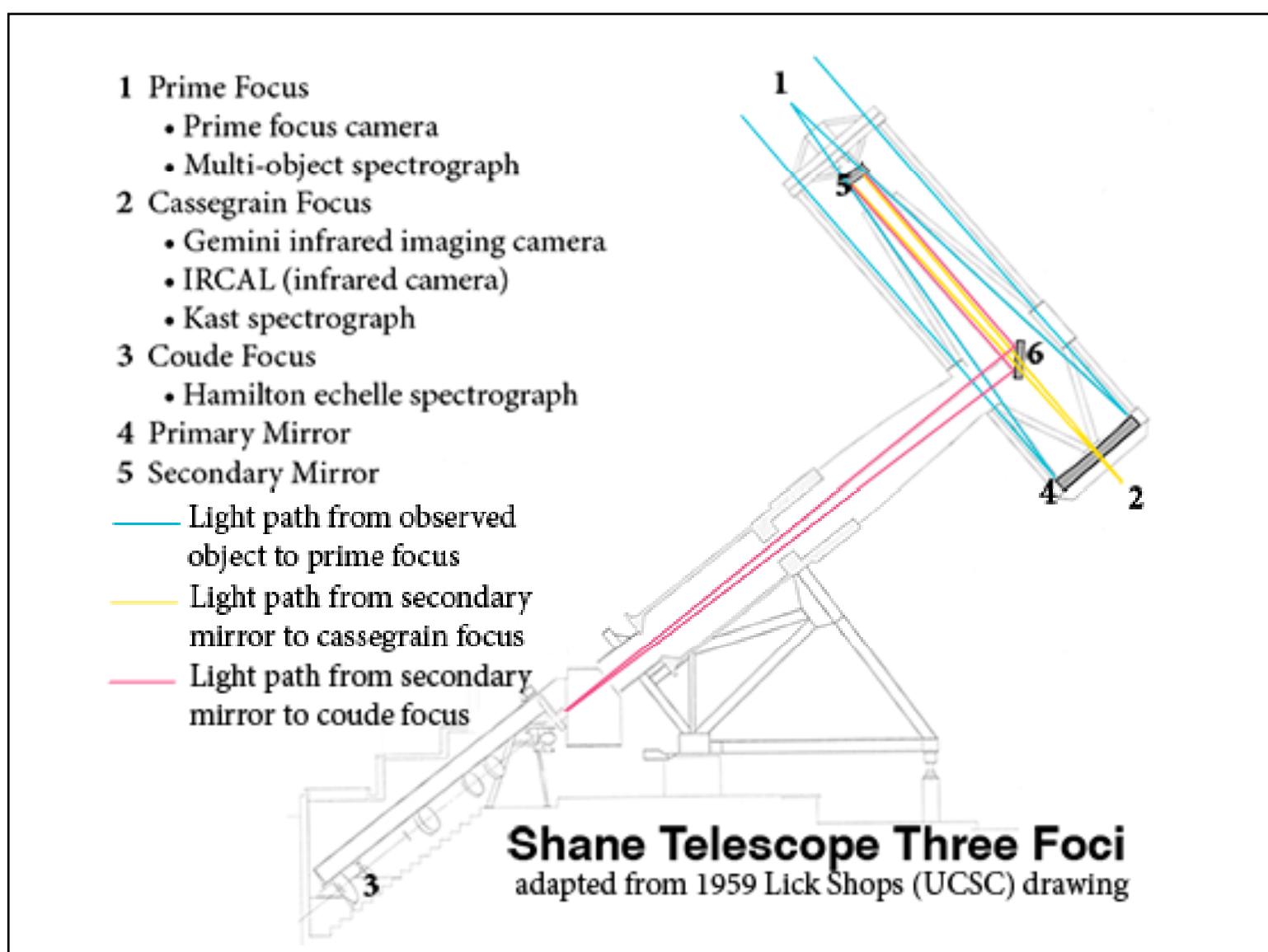
United Kingdom Infrared Telescope
(UKIRT), Mauna Kea



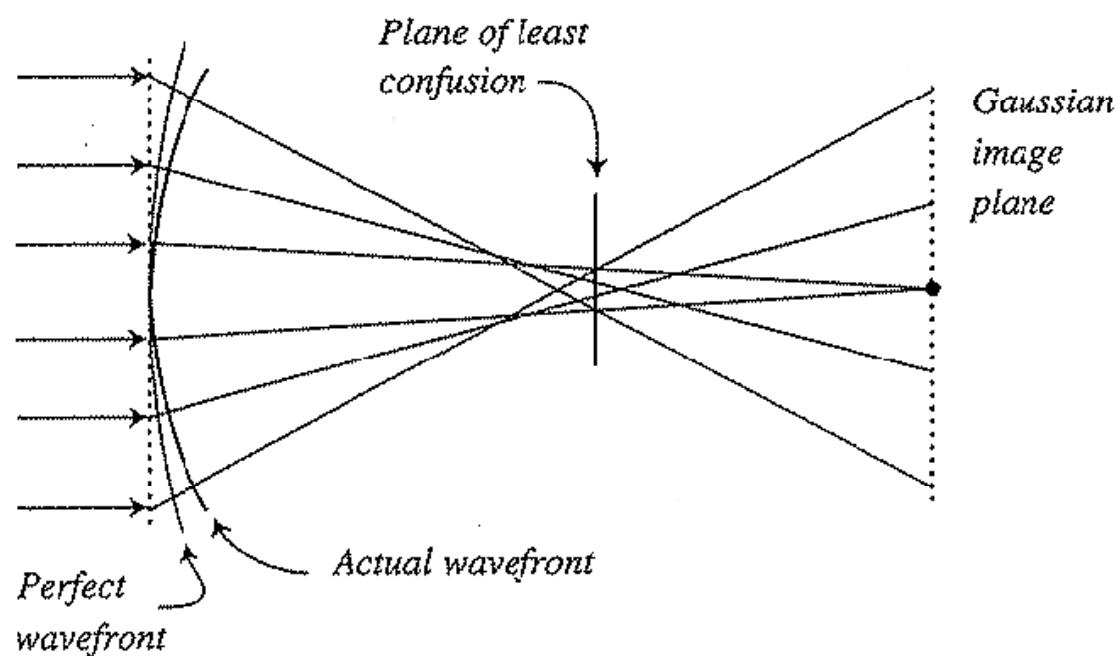


Coude spectrograph room
McDonald Observatory





Spherical aberration



48" Schmidt telescope on Mt. Palomar



