Fork and yoke mounts

Shane 120”
Lick Observatory, CA

United Kingdom Infrared Telescope
(UKIRT), Mauna Kea

Hale 200” telescope, Mt. Palomar
In the prime focus cage
(a) Hyperboloidal secondary

(b) Paraboloidal primary

Ellipsoidal secondary
Hubble’s optics

Spherical aberration before and after COSTAR

Lots of bulky equipment at the Cassegrain focus, out of the light path
"Bent Cass" focus for SOFIA
Figure 1.3.8 Cross section through a grazing incidence x-ray telescope.
Figure 7.12. Illustrating the focusing 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.)

Figure 1.3.10 Section through a nested grazing incidence x-ray telescope.
Coude spectrograph room
McDonald Observatory
Keck telescopes and interferometer