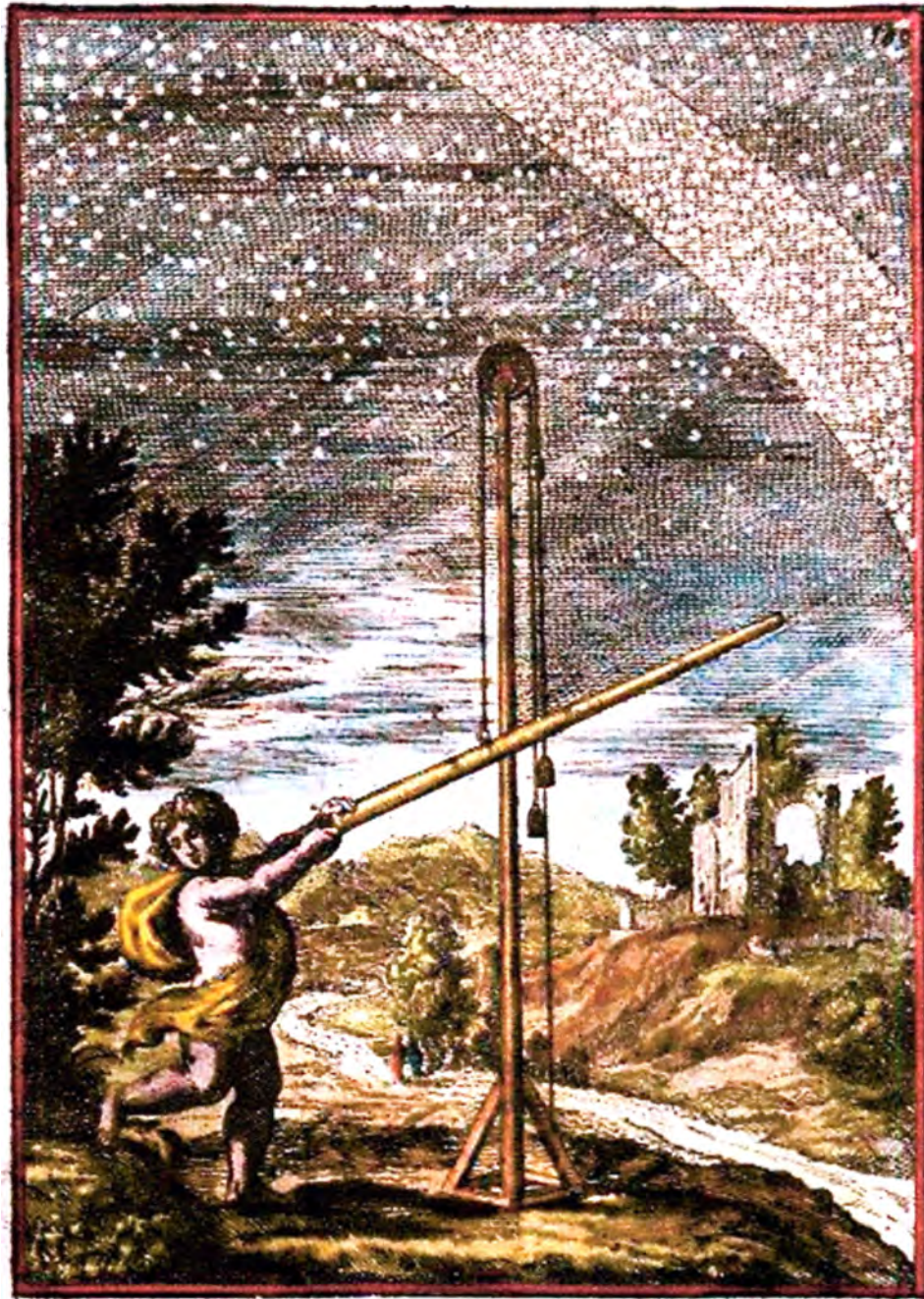


# Comparisons

## 12-Foot Mahogany Refracting Telescopes



anon

Rope and Pole Mounted Telescope



FRA29 12-ft. Long Dollond Telescope, c. 1761-66

## Comparison of Two 12-ft. 2-piece Tapered Mahogany Refracting Telescopes

Peter Louwman's Ramsden\*



Peter Louwman and Jan Jaecks holding 12-foot long Ramsden (un-mounted) during Duane and Jan Jaeck's visit in 2013.

Ed Wolf's Dollond



Ed Wolf standing beneath his 12-ft. long Dollond. Custom mahogany pole-and-rope trapeze mount with 30-lb. brass counterbalance (out of view).

## Comparison of Two 12-ft. 2-piece Tapered Mahogany Refracting Telescopes

Peter Louwman's Ramsden



Screw-on brass end cap configuration



Brass coupler for upper/lower sections  
No mounting bolts on telescope



Focuses as a spyglass

Ed Wolf's Dollond



Screw-on brass end cap configuration

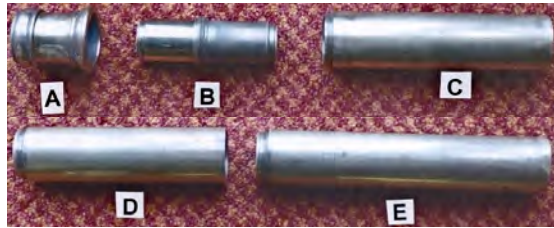


Telescope tethered to pole showing coupler and one of three mounting bolts; all three bolts have Dollond knurled nut fasteners



Rack-and-pinion fine focus superimposed on a drawtube focus. Note also original hardware (upper right) for attaching a stabilizer staff as shown

## Comparison of Two 12-ft. 2-piece Tapered Mahogany Refracting Telescopes



12-ft. Ramsden: 5-lens and 5-tube assembly



12-ft Dollond: 5-lens and 6-tube assembly  
(One tube is missing; a retrofit end-cap holds lens #1)



8-ft Dollond: 5-lens 6-tube eyepiece assembly  
(complete)

Eyepiece comparison includes an 8-ft. Dollond, FRA25 from the Wolf Collection. The two Dollond eyepieces are nearly identical; an in-depth comparison with the Ramsden may prove its similarity as well.

### Summary Conclusions

#### Similarities

- 12-ft. long, 2-piece screw-together, tapered, mahogany optical tube
- Exactly 92-mm objective lens diameter
- 5-lens sliding drawtube eyepiece (spyglass type)
- Screw-on brass objective lens cover or end cap
- Made in 1770s
- Signed by maker

#### Differences

- Ramsden is in better condition
- Dollond objective lens is a later cemented doublet replacement
- Dollond has rack-and-pinion fine focus in addition to drawtube focus
- Dollond has three (3) mounting bolts & knurled fasteners on upper section of OTA
- Dollond has a brass coupler presumably for attaching a stabilizer staff
- Dollond has sliding dust cover for the ocular

\*Photographs of 12-ft. Ramsden used with permission and courtesy of Peter Louwman and Jan Jaecks.