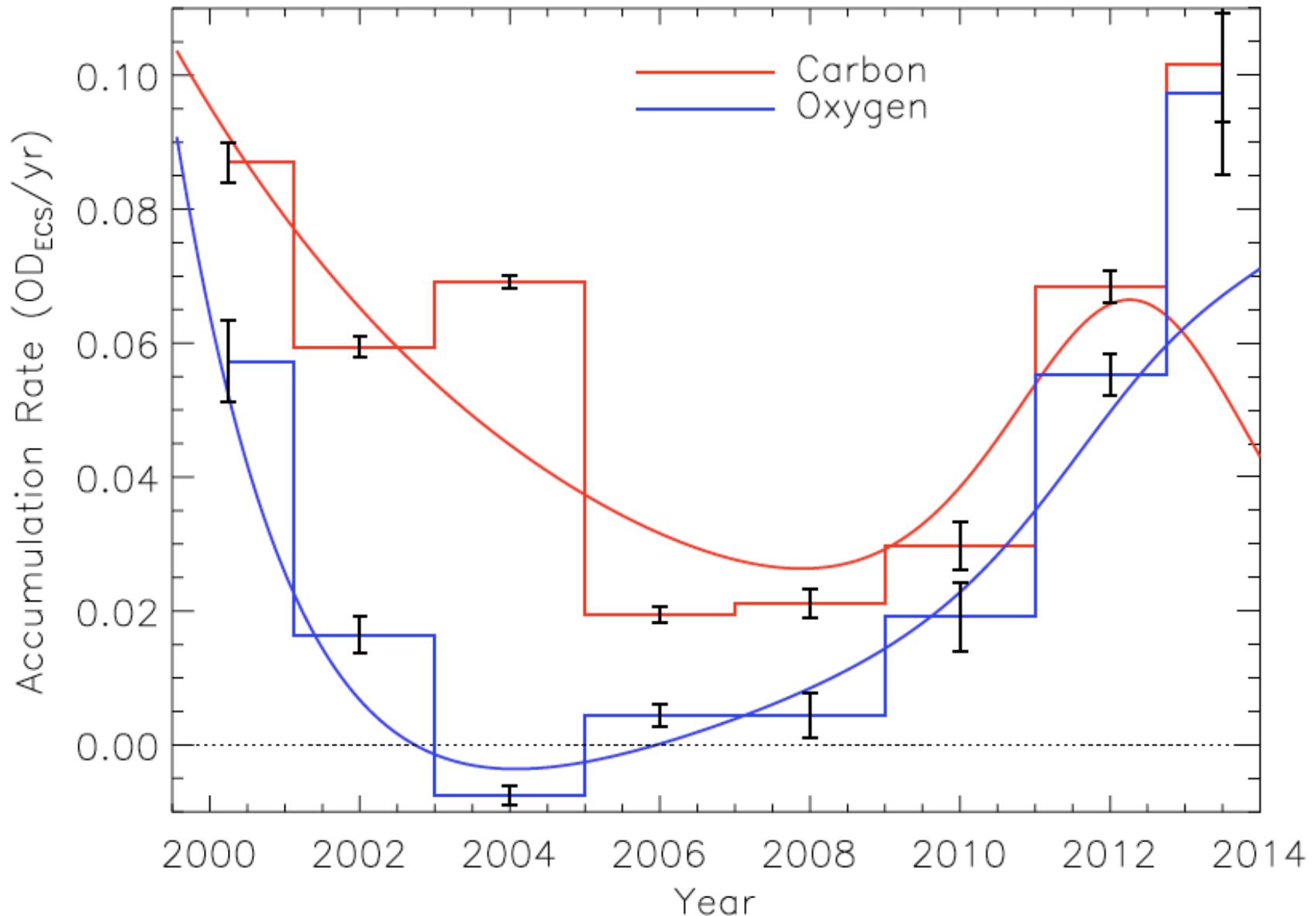
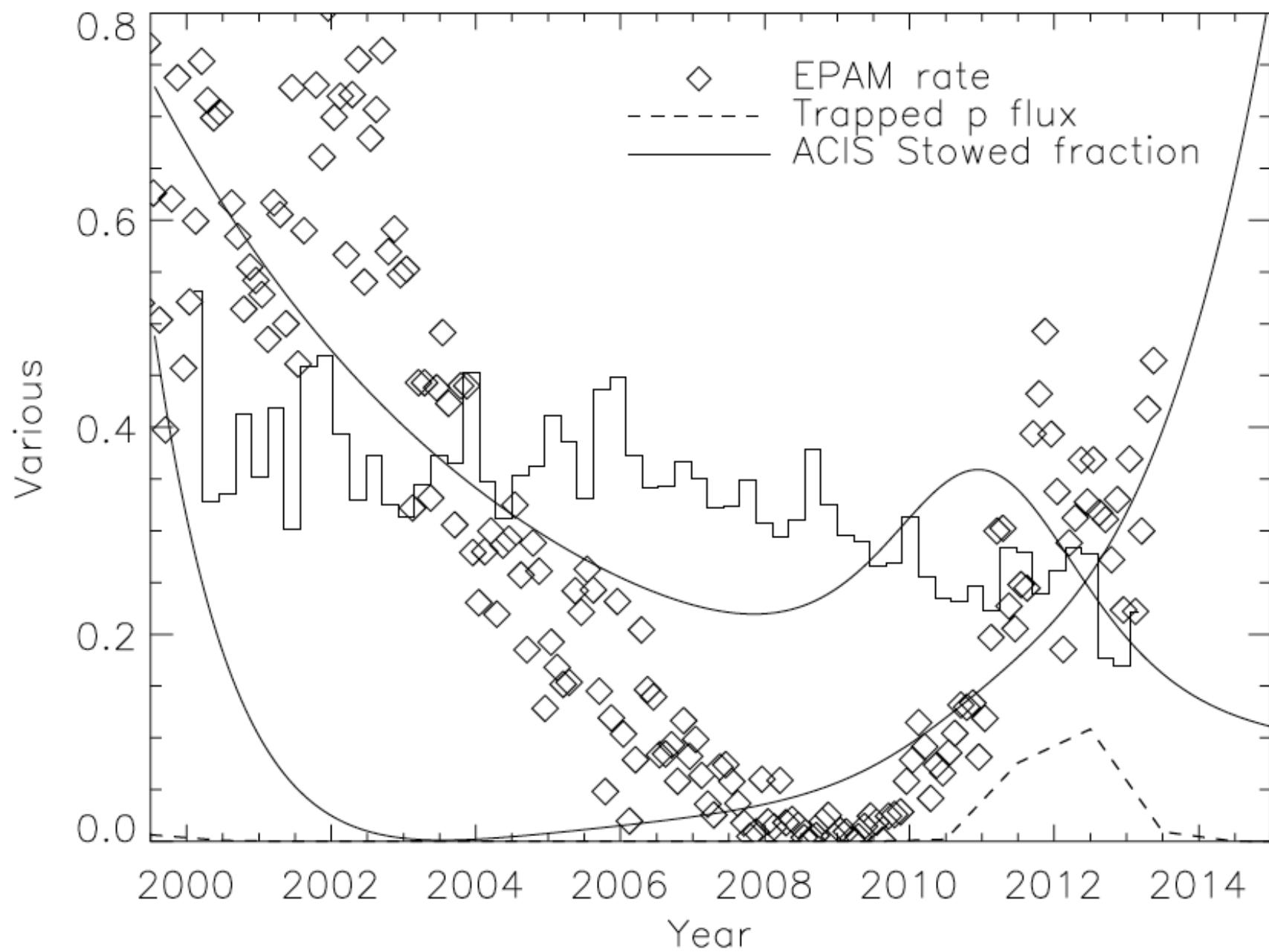


Herman Marshall — ACIS contamination

IACHEC — 5/12/14





Chandra Optical Bench

thicknesses of
C-fiber faceplates

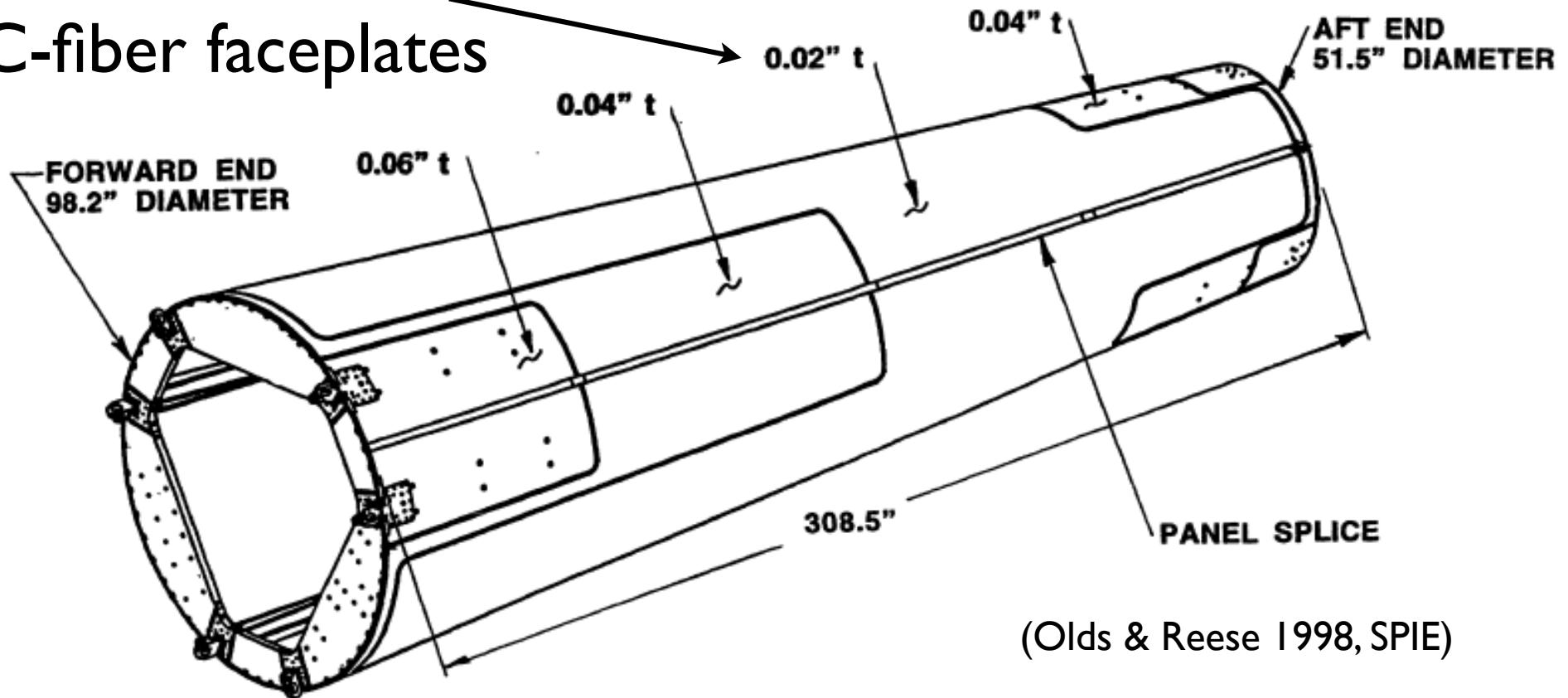
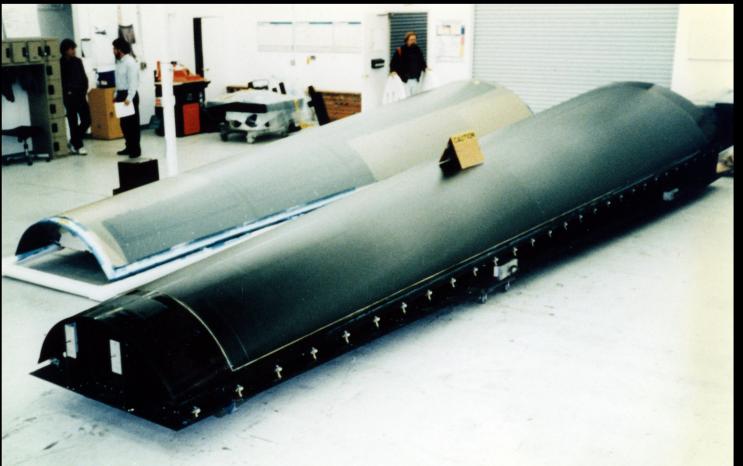


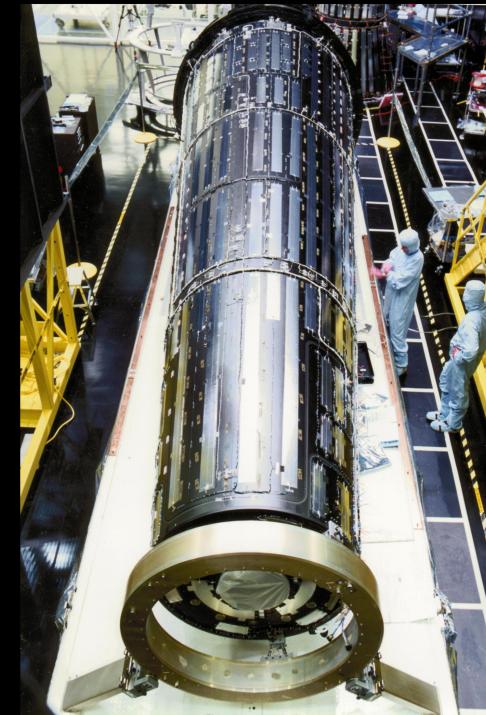
Figure 2.2-1 Optical bench.



Optical Bench during initial assembly at ITT



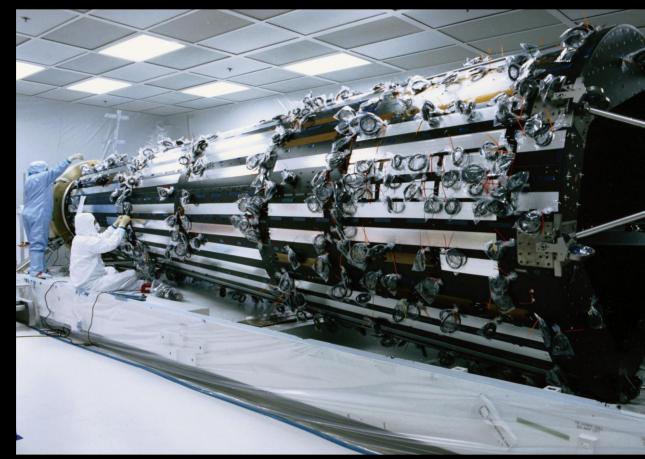
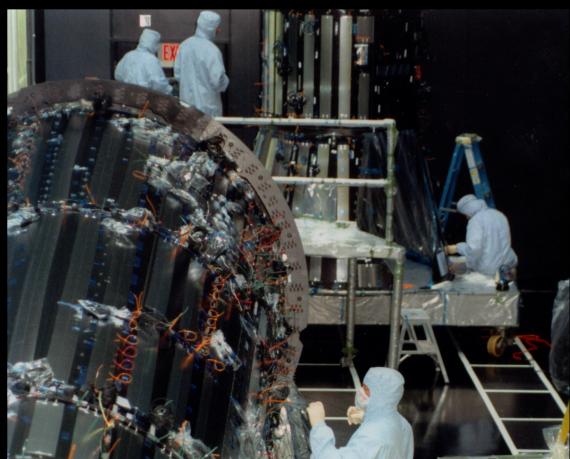
Structure being prepared for Static Load Test in Handling Fixture



Optical Bench Structure during Static Load Testing at ITT

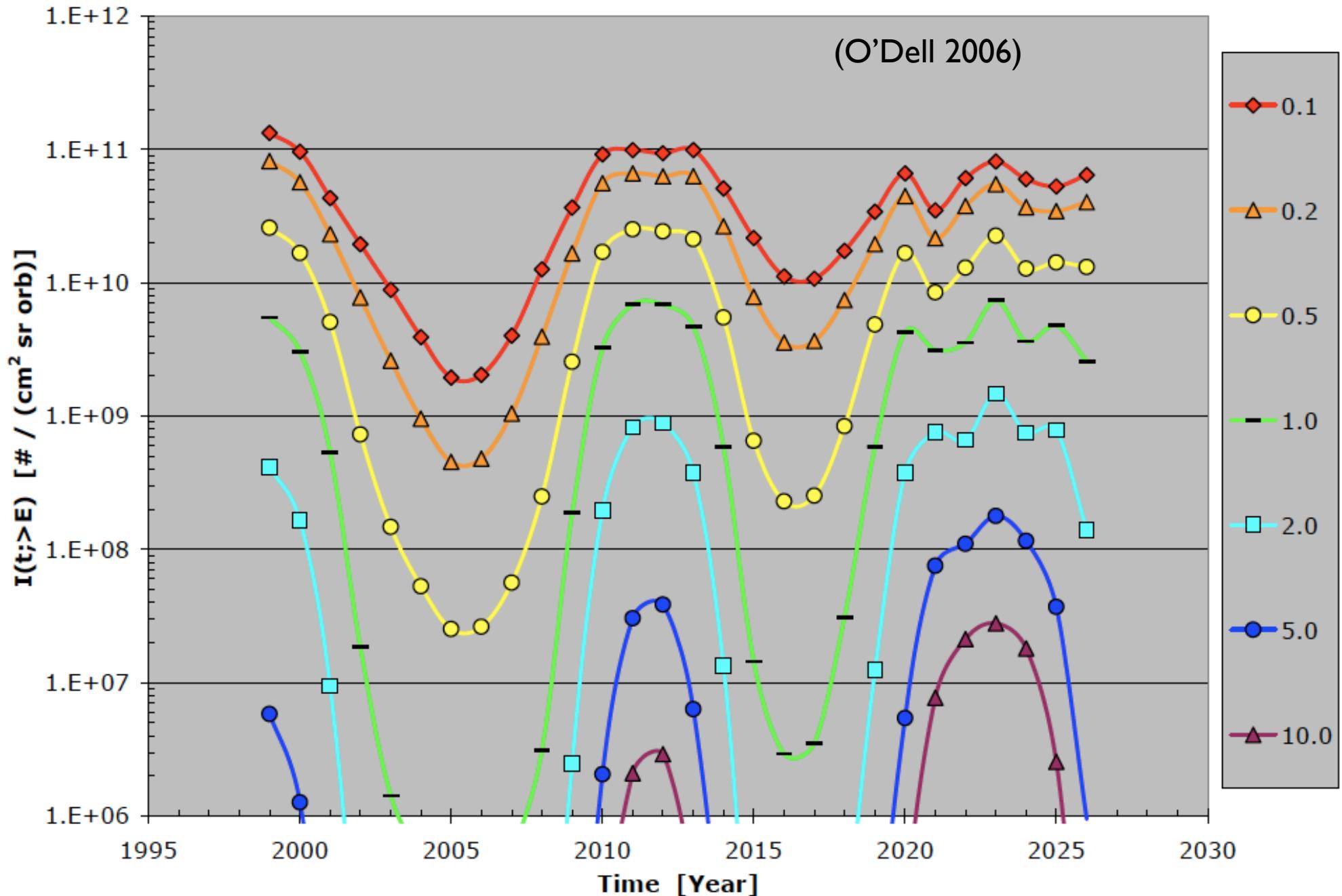


Completed OBA with blankets installed being prepared for HRMA integration at NGAS



Trapped-proton intensity

(O'Dell 2006)



Herman Marshall — ACIS contamination

IACHEC — 5/12/14

Proton Sputtering?

- $dN_C/dt \sim 10^{19-22}$ atoms/yr in contaminant
 - minimum = only on filter
 - maximum = 0.1% on filter, rest vents or elsewhere
- Trapped proton fluxes $\sim 200-10^7$ p/cm²/s/sr
 - minimum at 10 MeV, max at 100 keV
- At E ~ 10 MeV, p penetrates 1 mm C-fiber
 - dn/dt at 10 MeV: 10^{16} p/yr
 - E < 500 keV --> cascading sputter, $>2 \times 10^{20}$ atom/yr