

Surface Brightness Density in HDF-S

Draft

Relevant to the IFS/MOS trade-off.

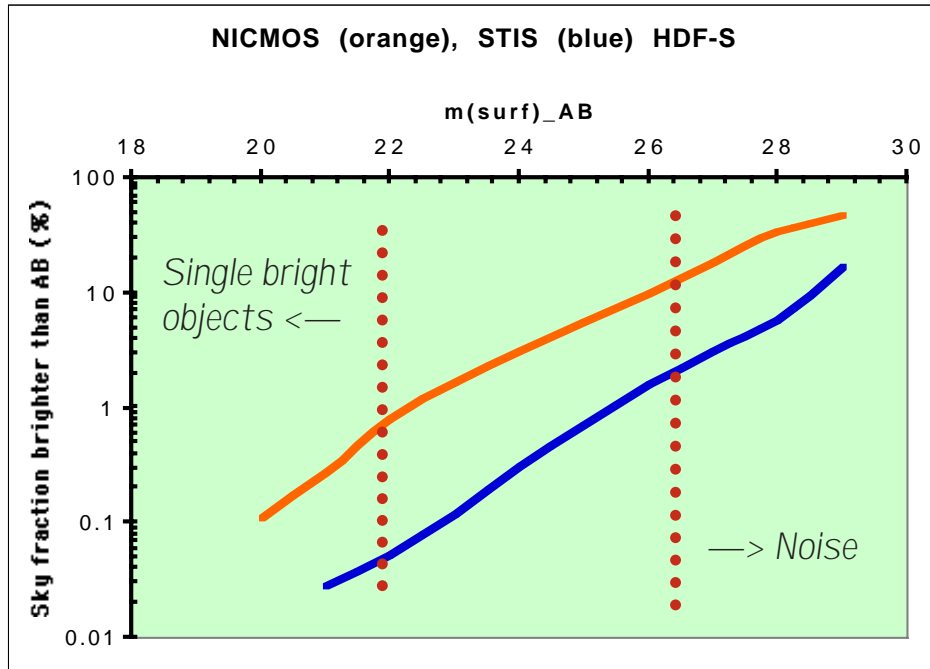
Bob Fosbury, Norbert Pirzkal & Stefano Cristiani, 25 January 1999

Measurements made from the NICMOS and
STIS HDF-S v1 released data products

SExtractor run at a series of surface
brightness levels: $m(\text{surf})_{AB}$

- 1) NICMOS F160W, 0.075 arcsec drizzled pixel
- 2) STIS 50ccd, 0.025 arcsec drizzled pixel





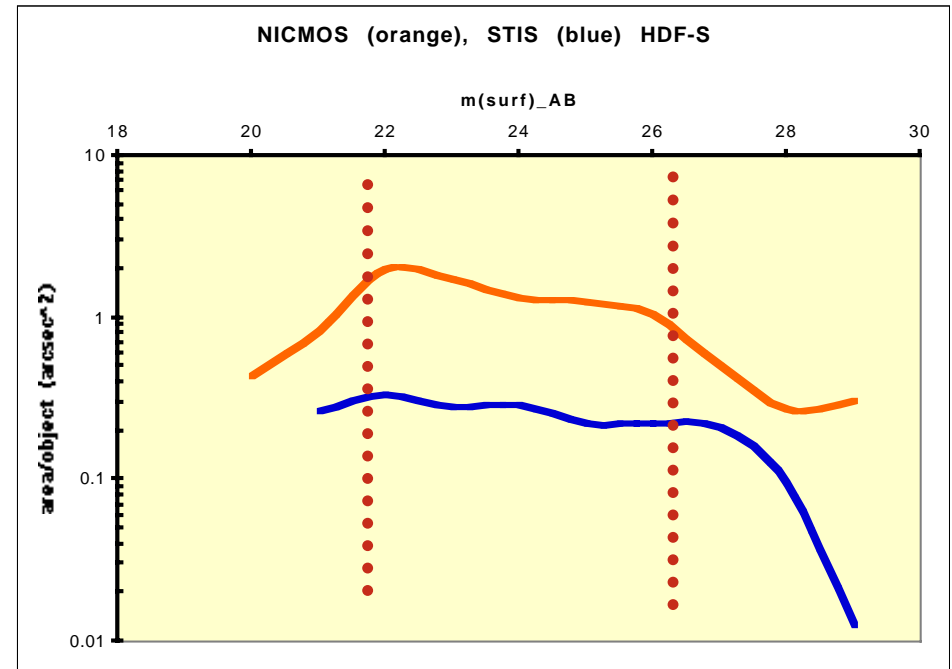
Fraction of sky covered above a given surface brightness.

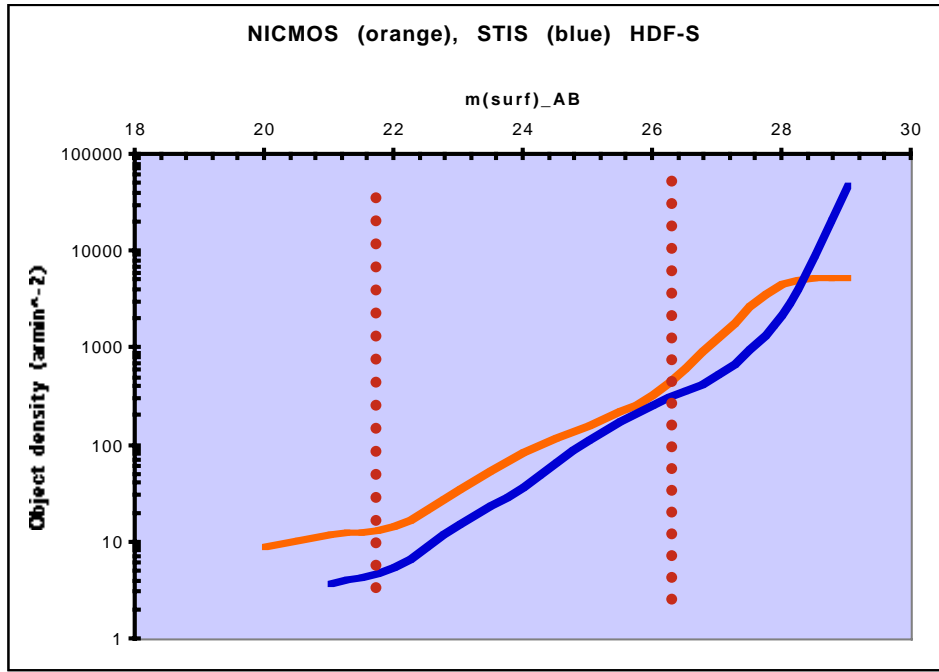
Area examined:

NICMOS — 0.76 arcmin²

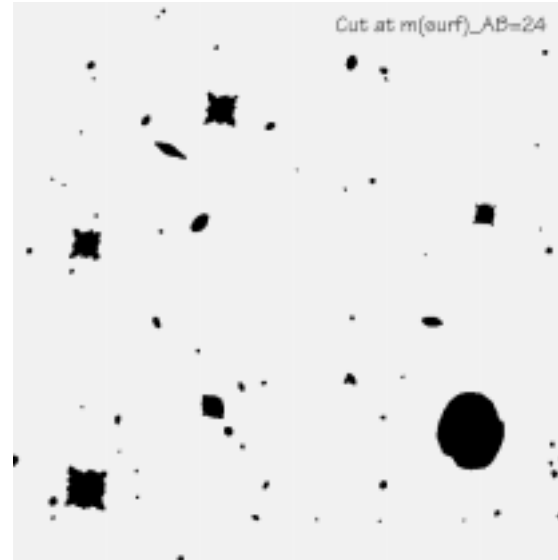
STIS — 0.53 arcmin²

Average area per object (arcsec²)

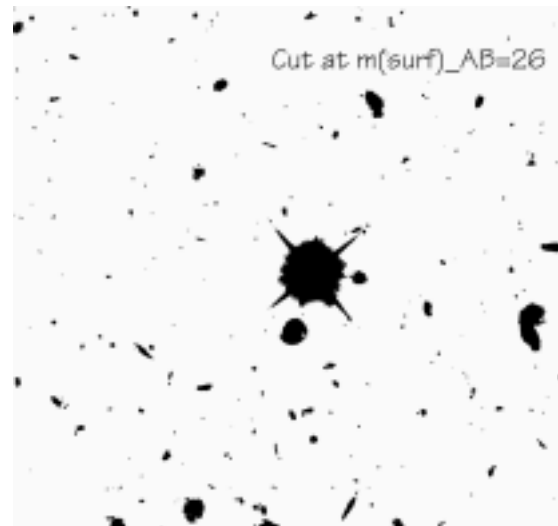




Object density per arcmin²



NICMOS



STIS

