

# Surface Brightness Density in HDF-S

Draft

Relevant to the IFS/MOS trade-off.

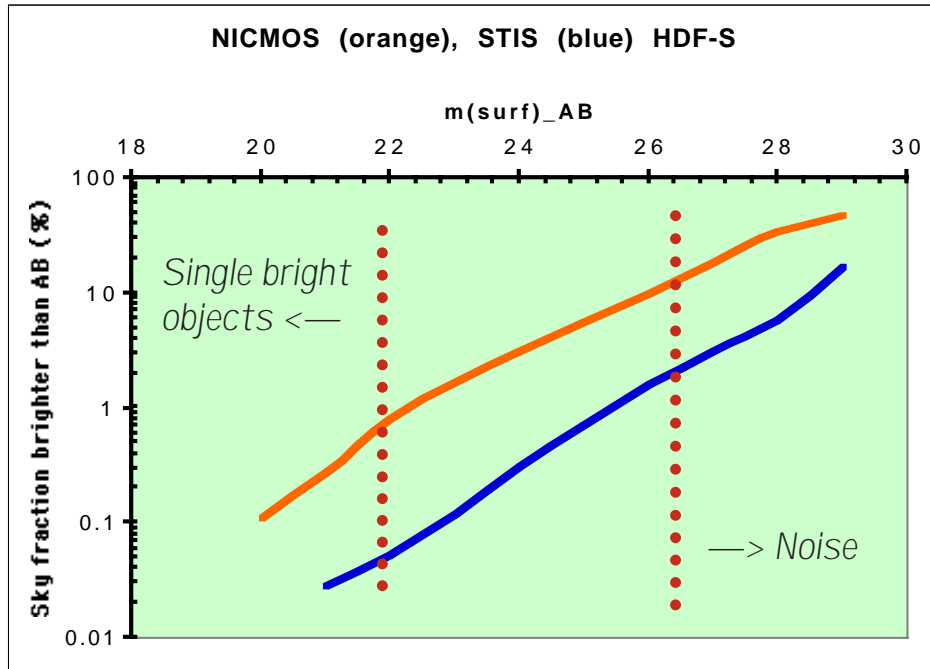
Bob Fosbury, Norbert Pirzkal & Stefano Cristiani, 25 January 1999

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





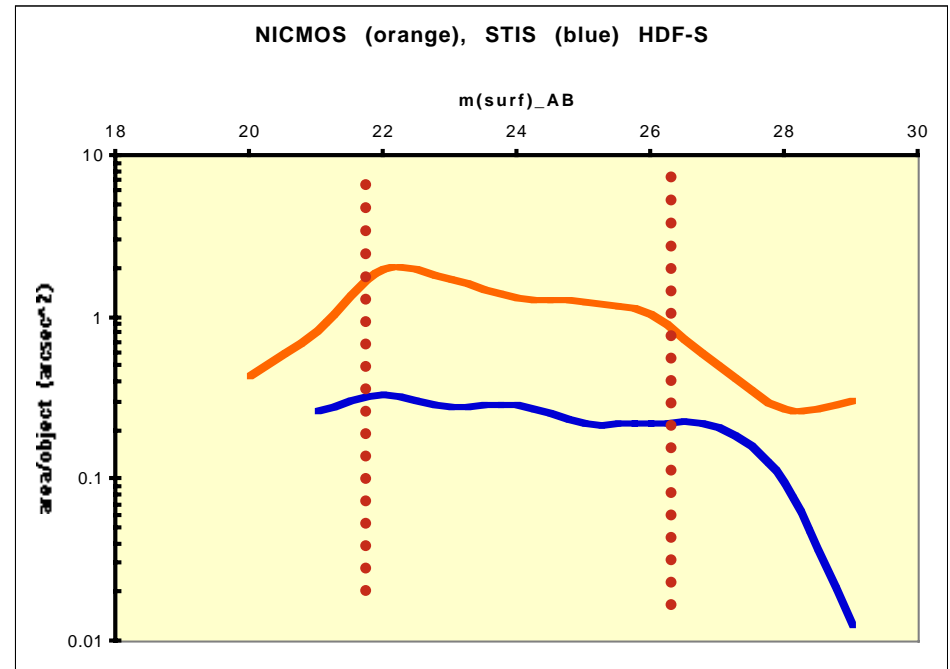
Fraction of sky covered above a given surface brightness.

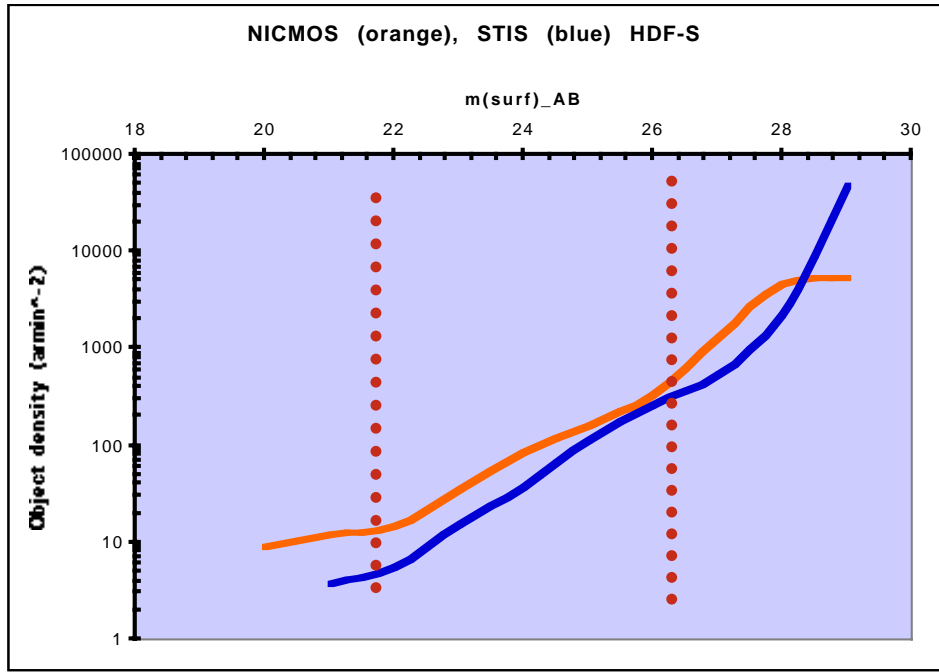
Area examined:

NICMOS — 0.76 arcmin<sup>2</sup>

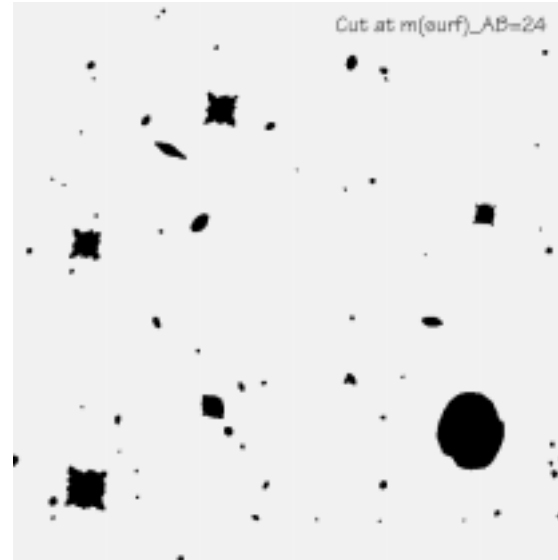
STIS — 0.53 arcmin<sup>2</sup>

Average area per object (arcsec<sup>2</sup>)

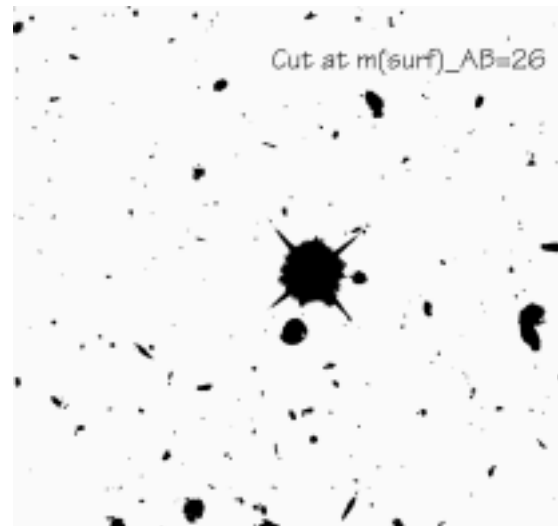




Object density per arcmin<sup>2</sup>



NICMOS



STIS

