

University of California Irvine

UV Background with Voyager

Professor Richard Conn Henry

Henry A. Rowland Dept. of Physics & Astronomy
The Johns Hopkins University

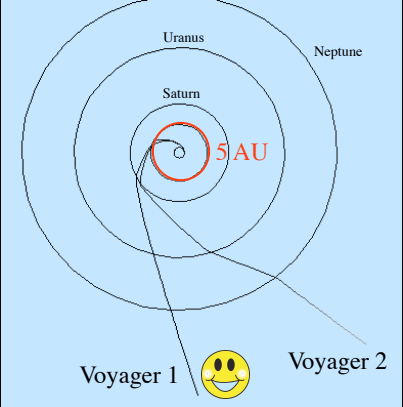
2010 March 25

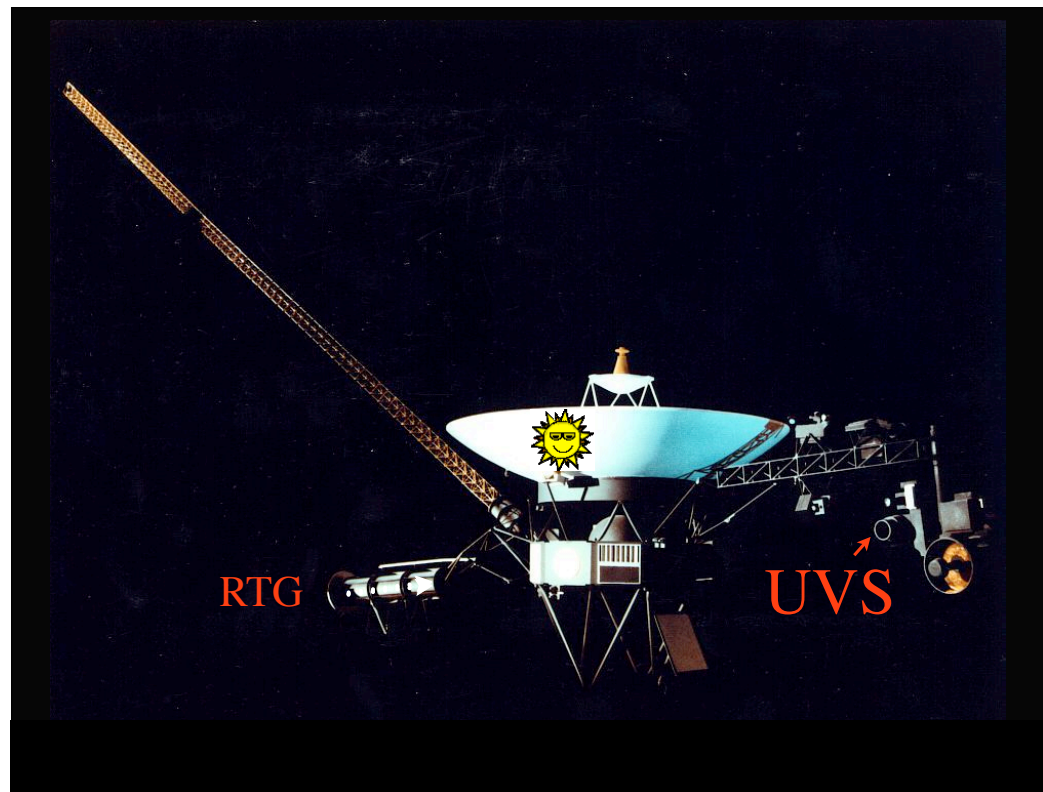
Jayant Murthy,

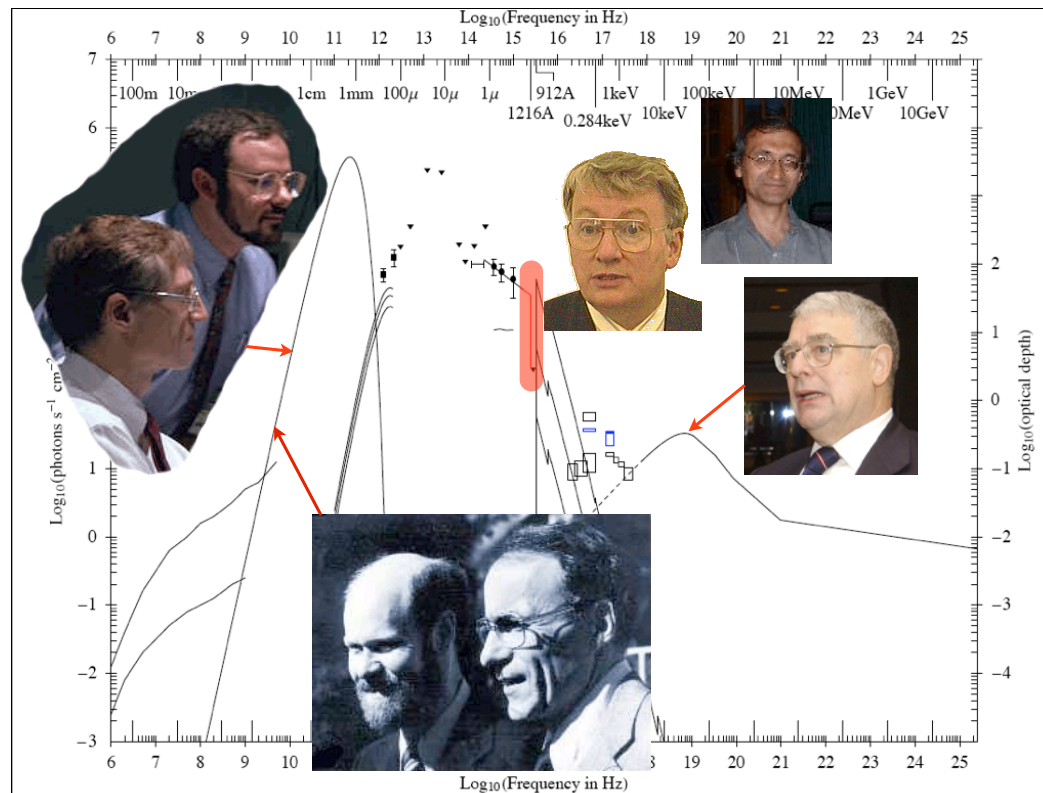
Indian Institute of Astrophysics

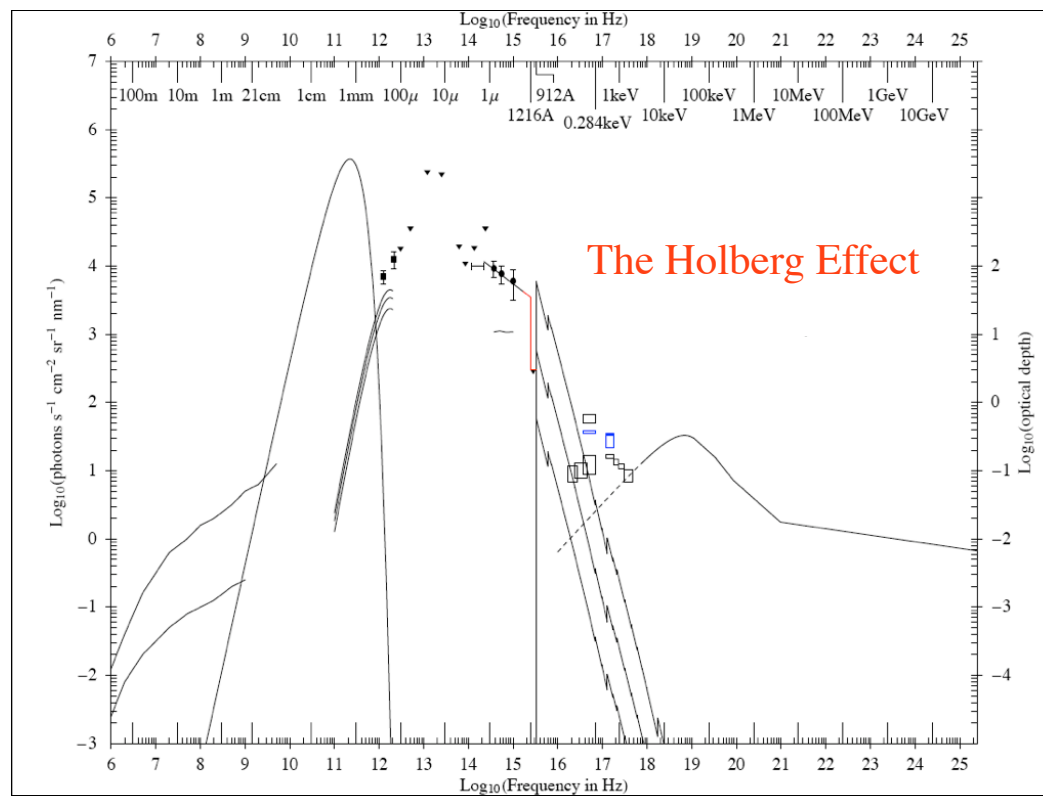
Jay Holberg,

University of Arizona







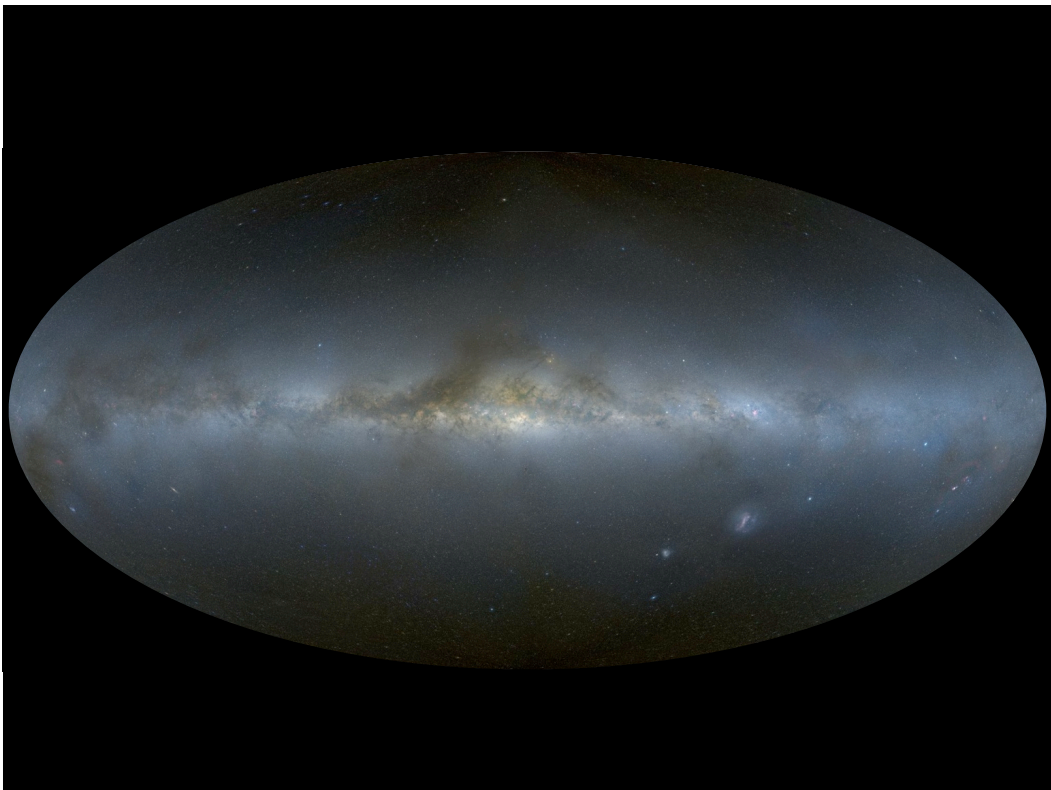


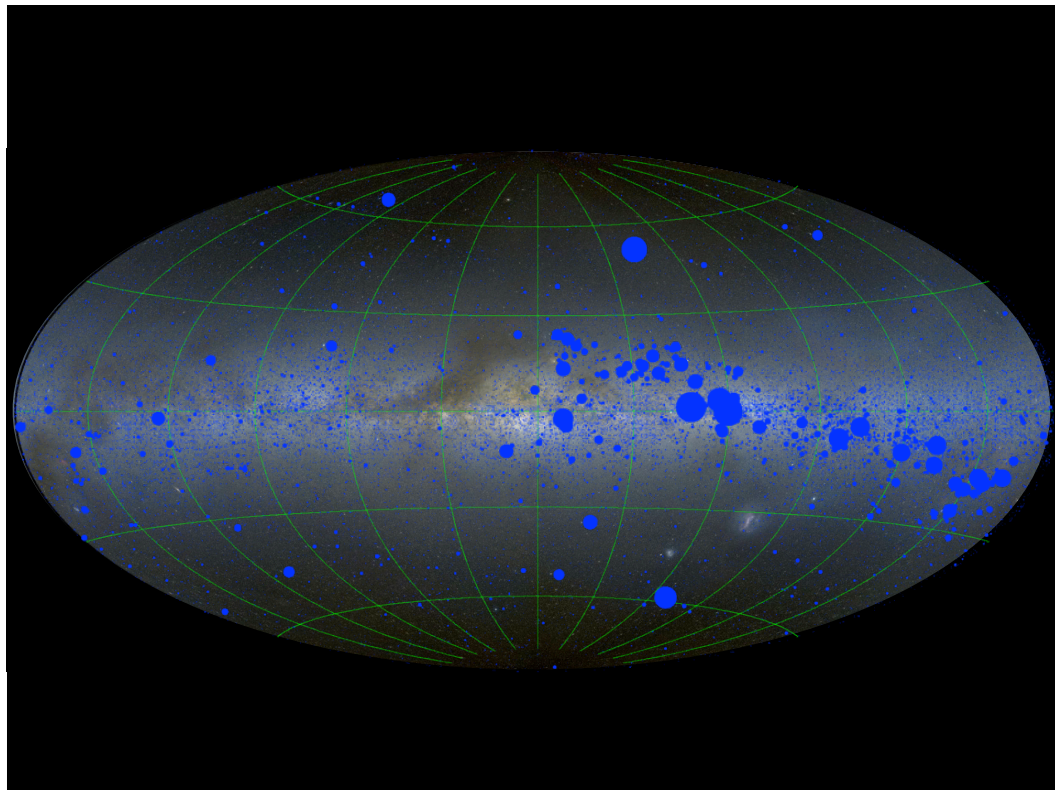
6 CONCLUSIONS

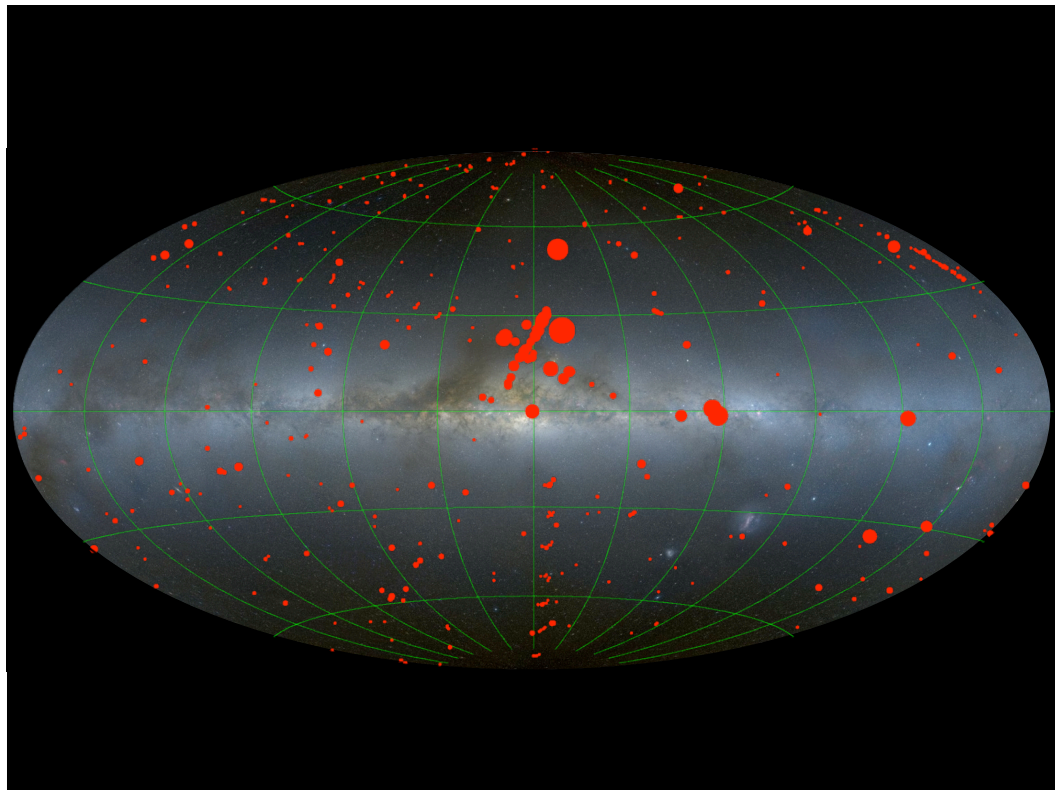
6.3 Diffuse Cosmic Ultraviolet Background Radiation

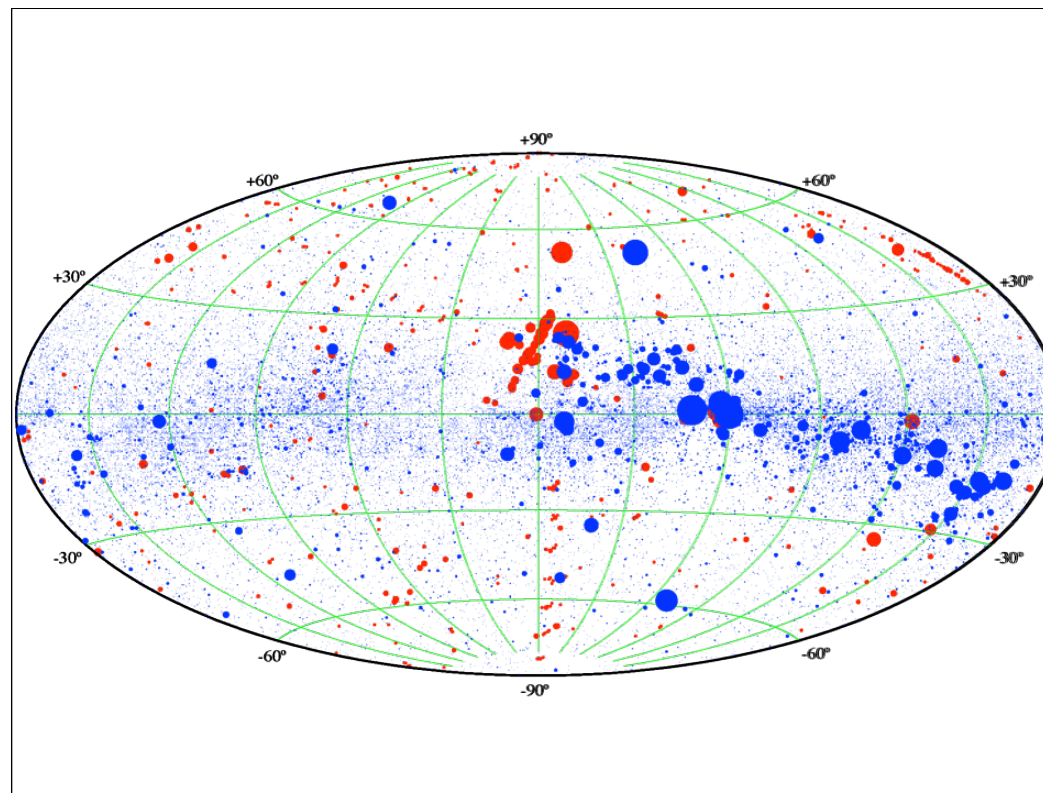
What is left? What is left is a background of ~ 400 units, which is present everywhere that has been observed at moderate and high galactic latitudes, and which is present everywhere from ~ 1216 to $3200 \text{ \AA}$ (and possibly beyond). This background is not present at wavelengths below $\sim 1216 \text{ \AA}$, where an upper limit of 100 units prevails.

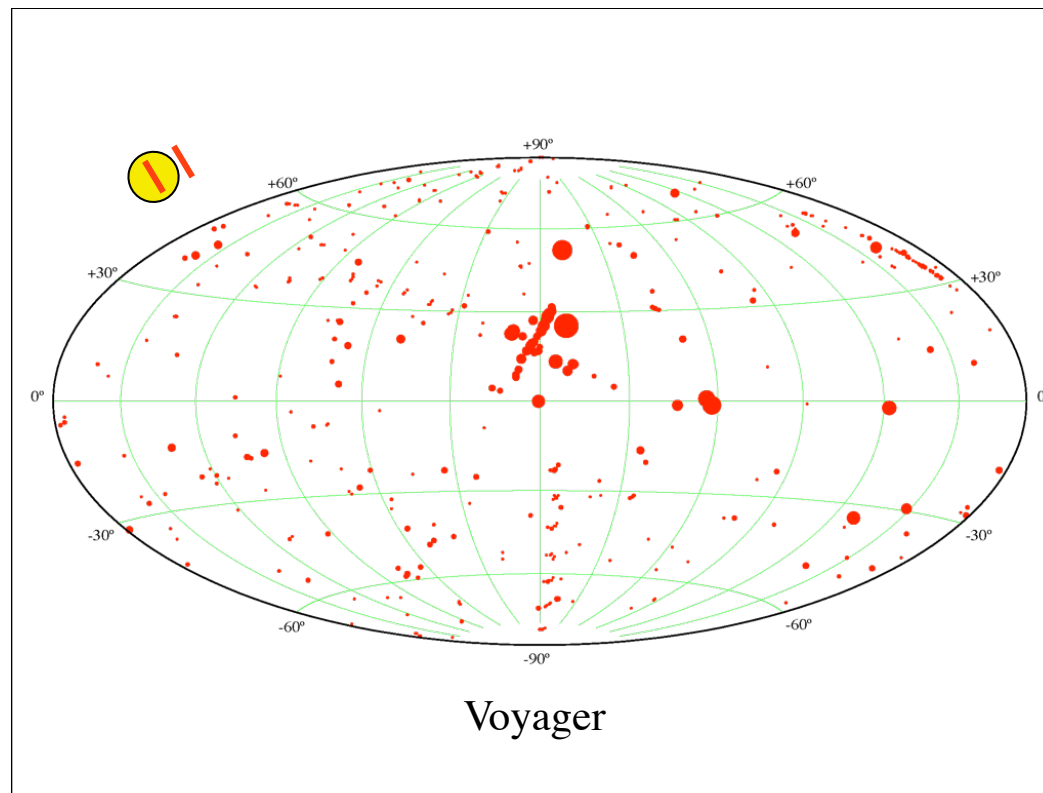
Please note that this conclusion was arrived at
BEFORE any GALEX data were available.

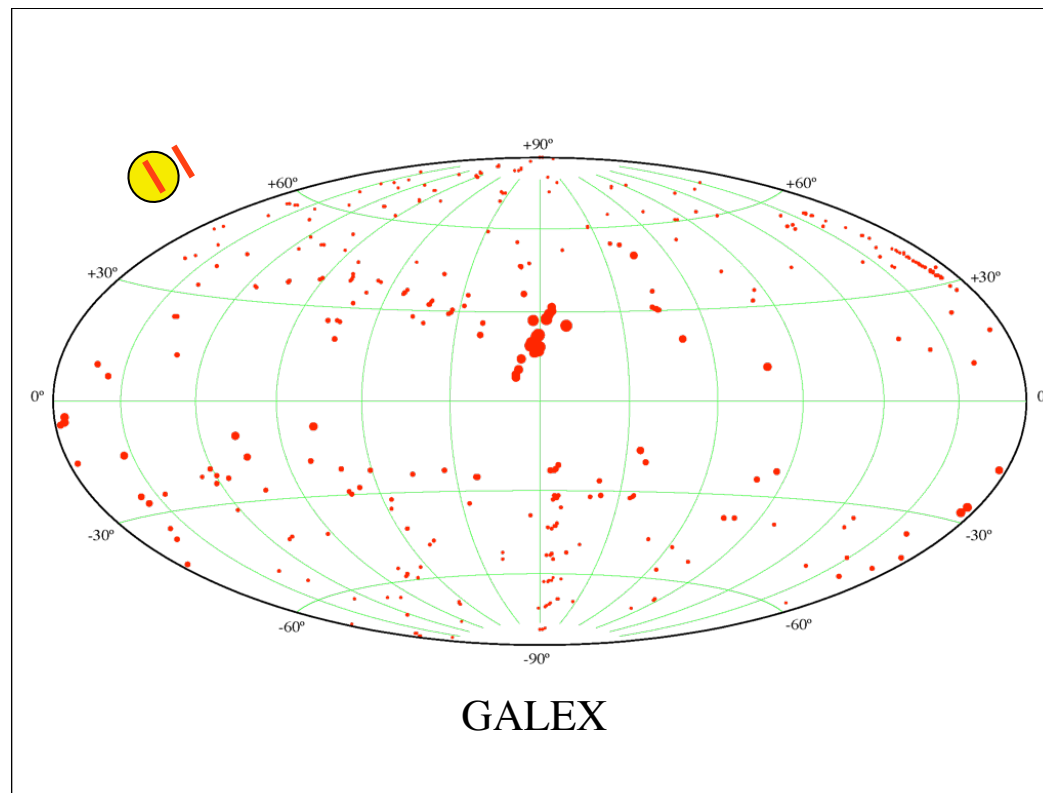


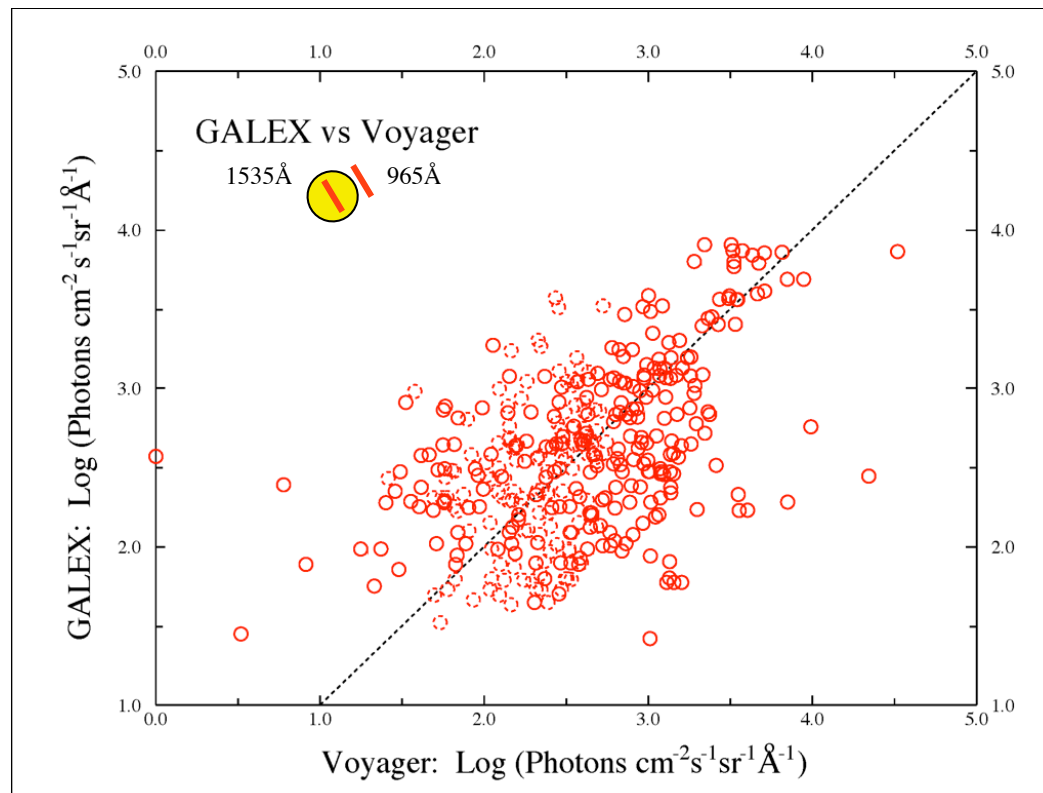


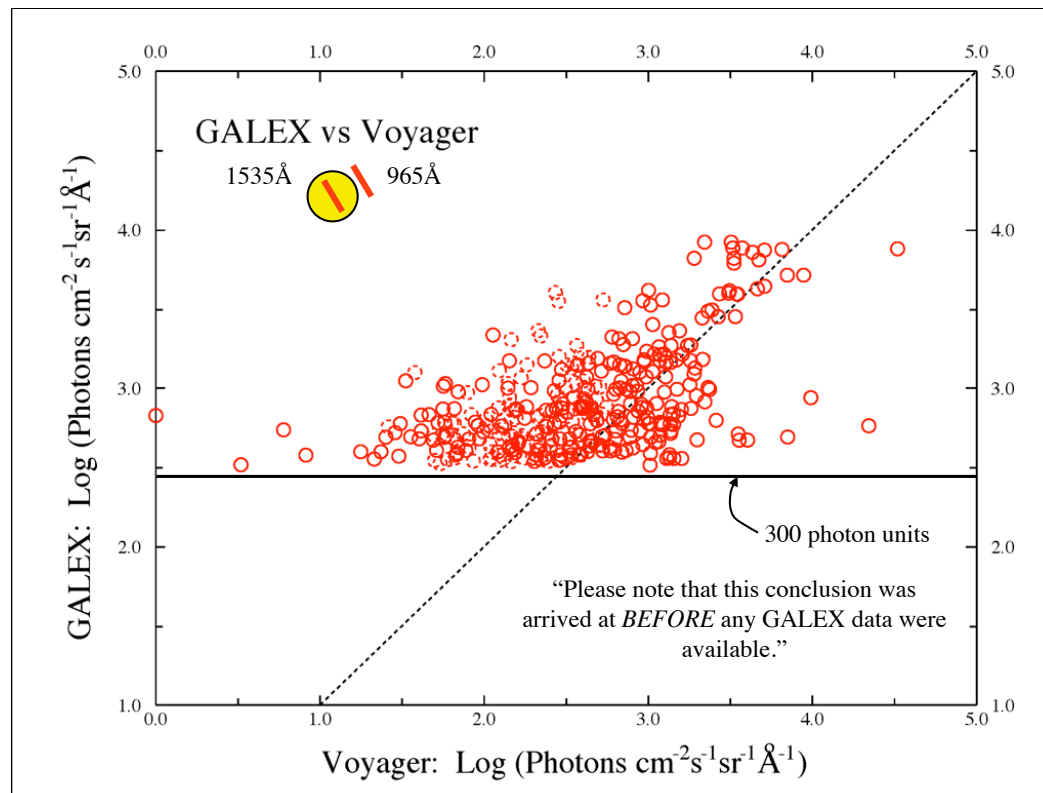


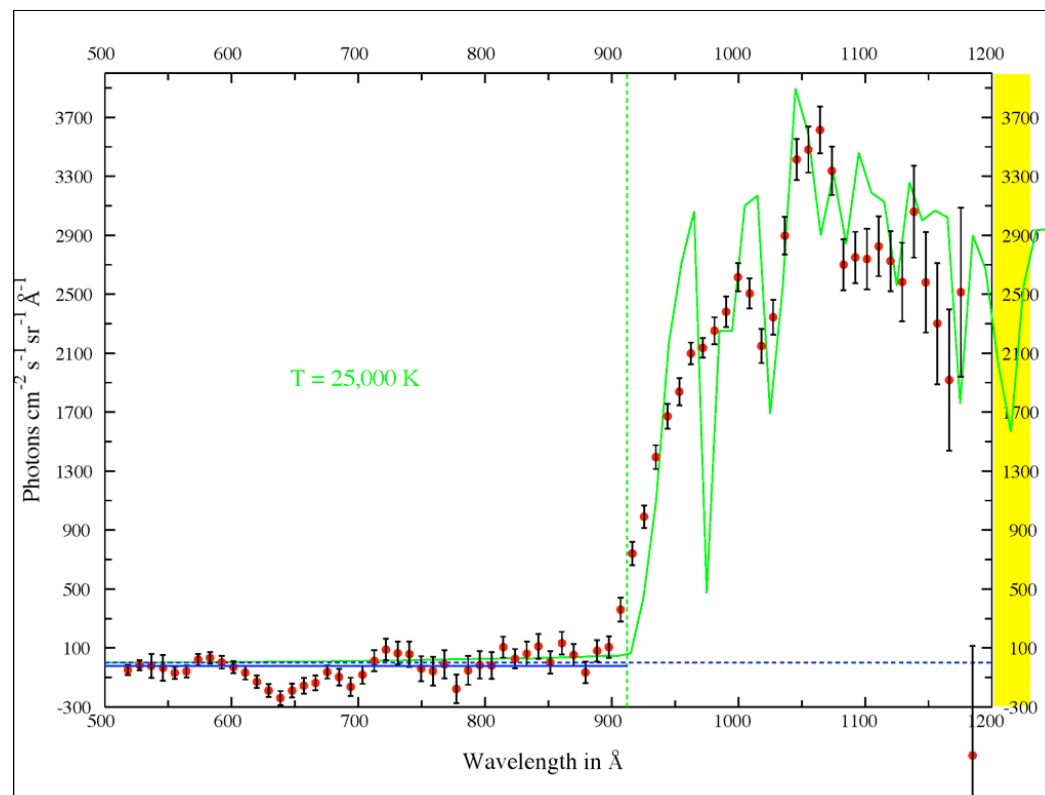


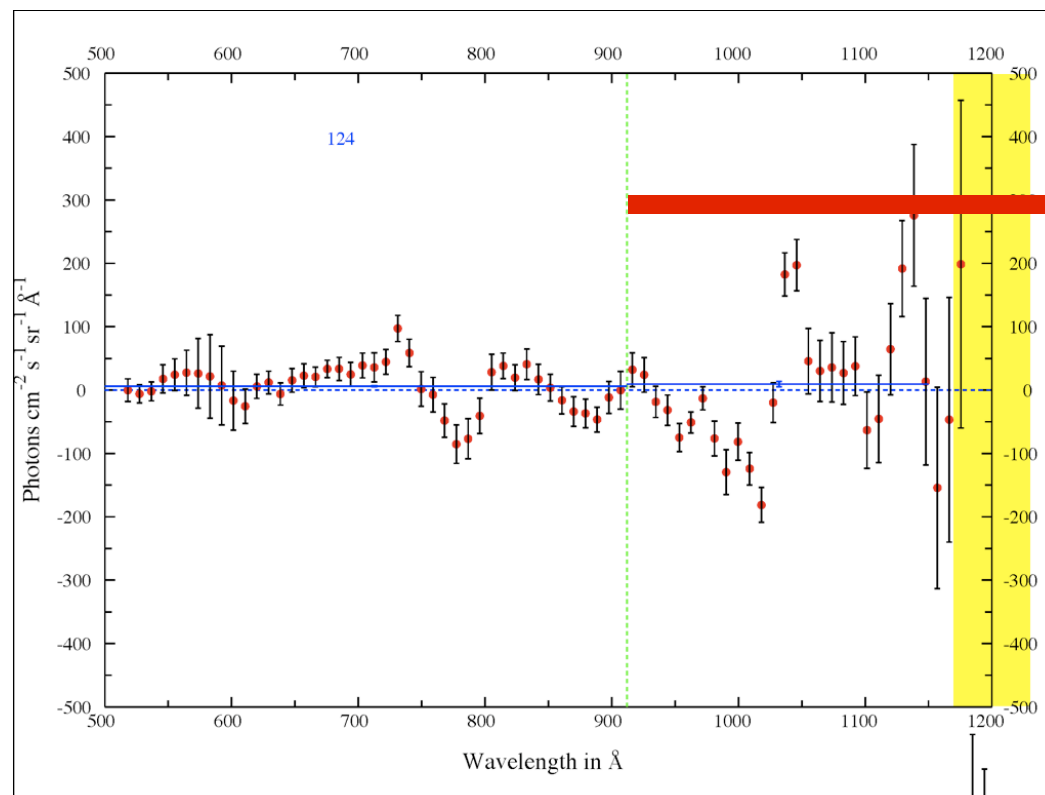


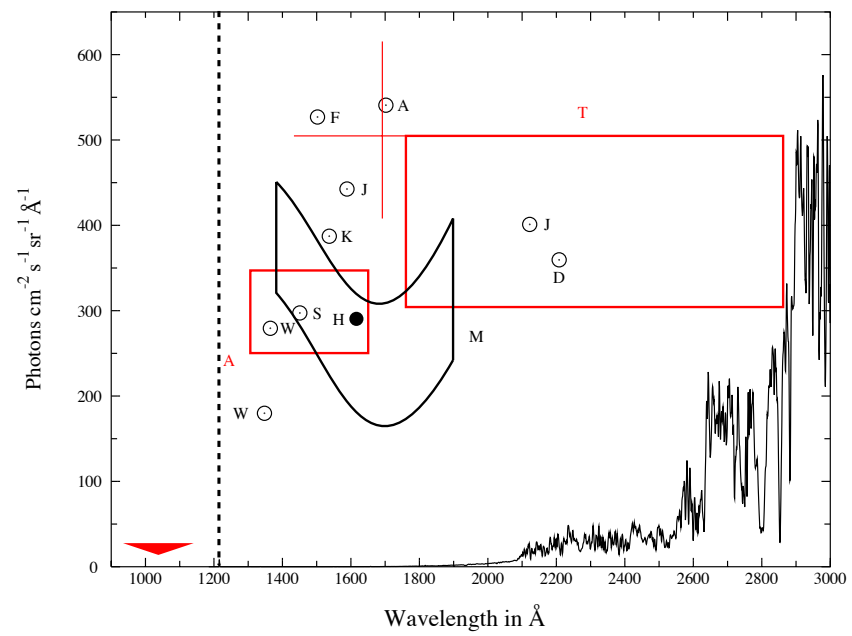


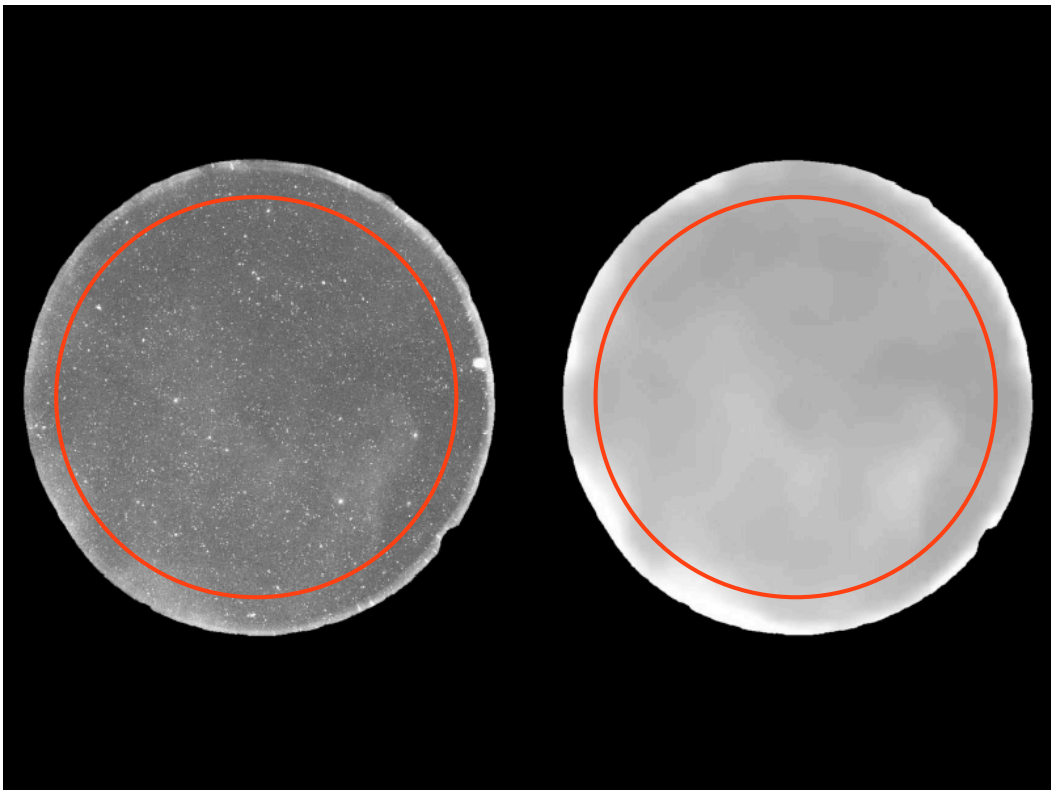


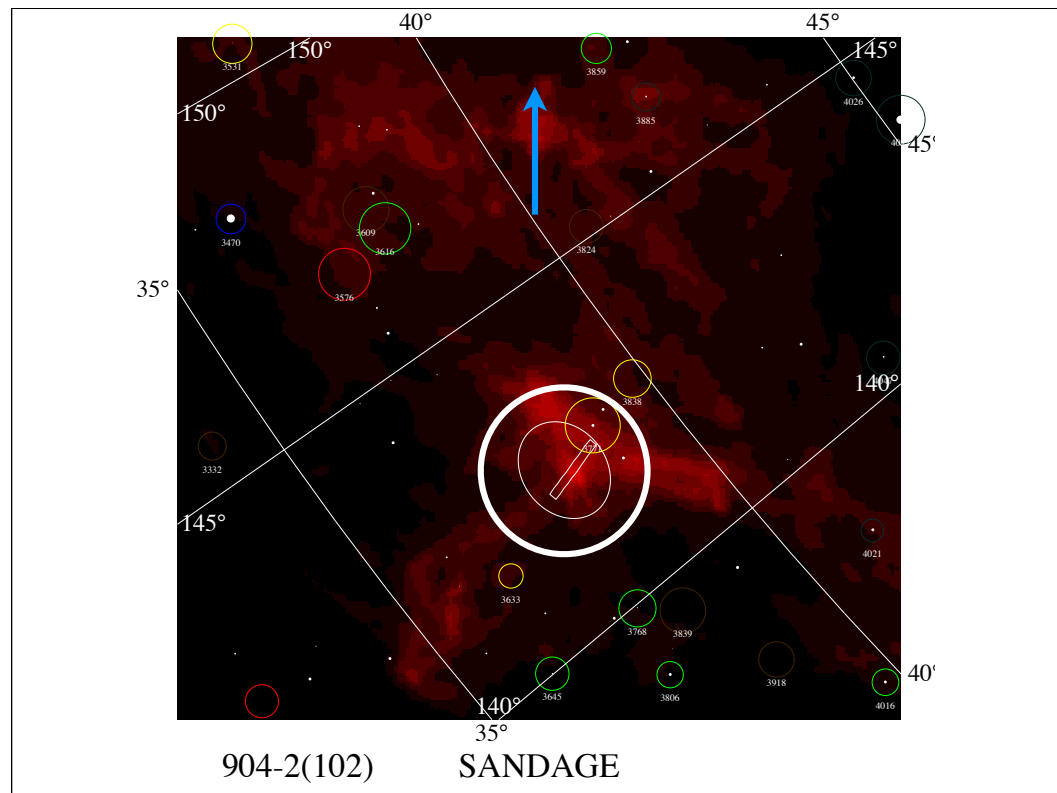


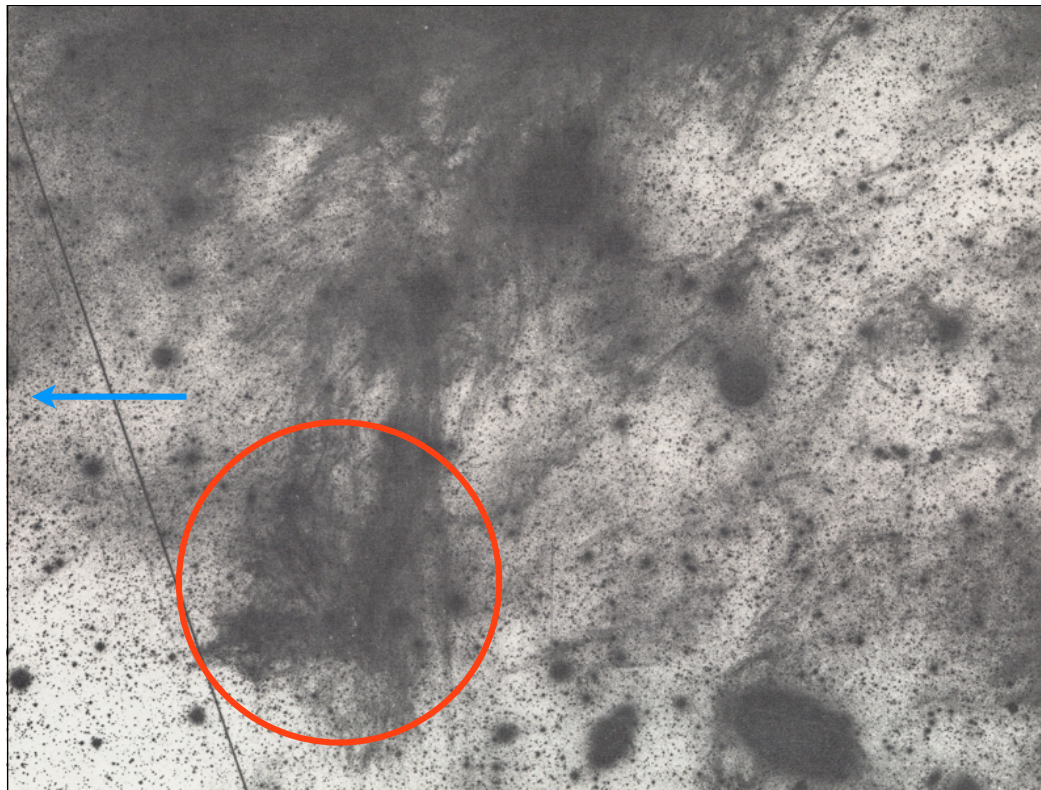






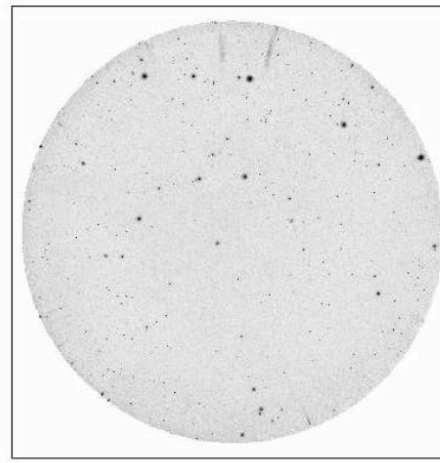
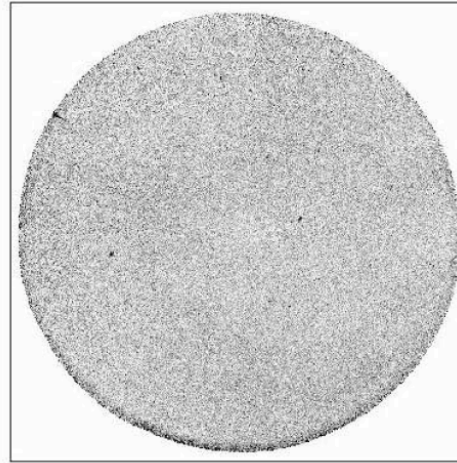






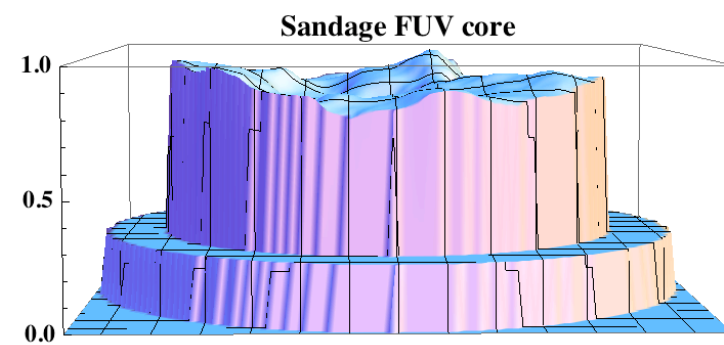
FUV -

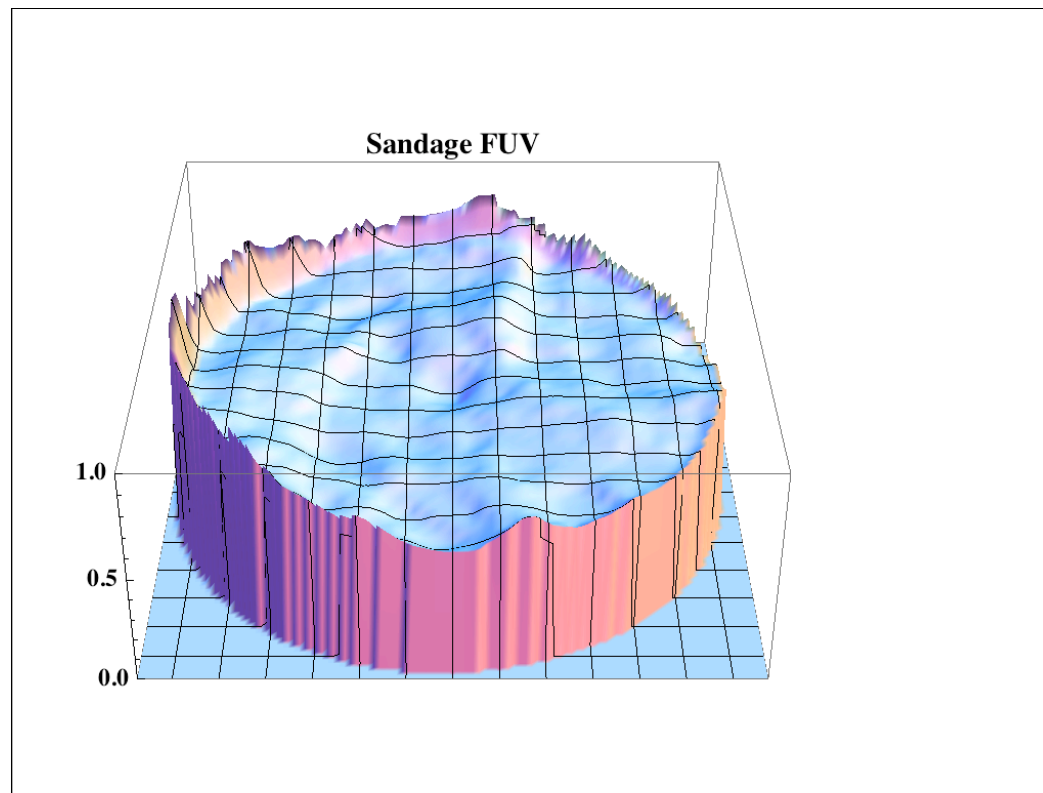
NUV -

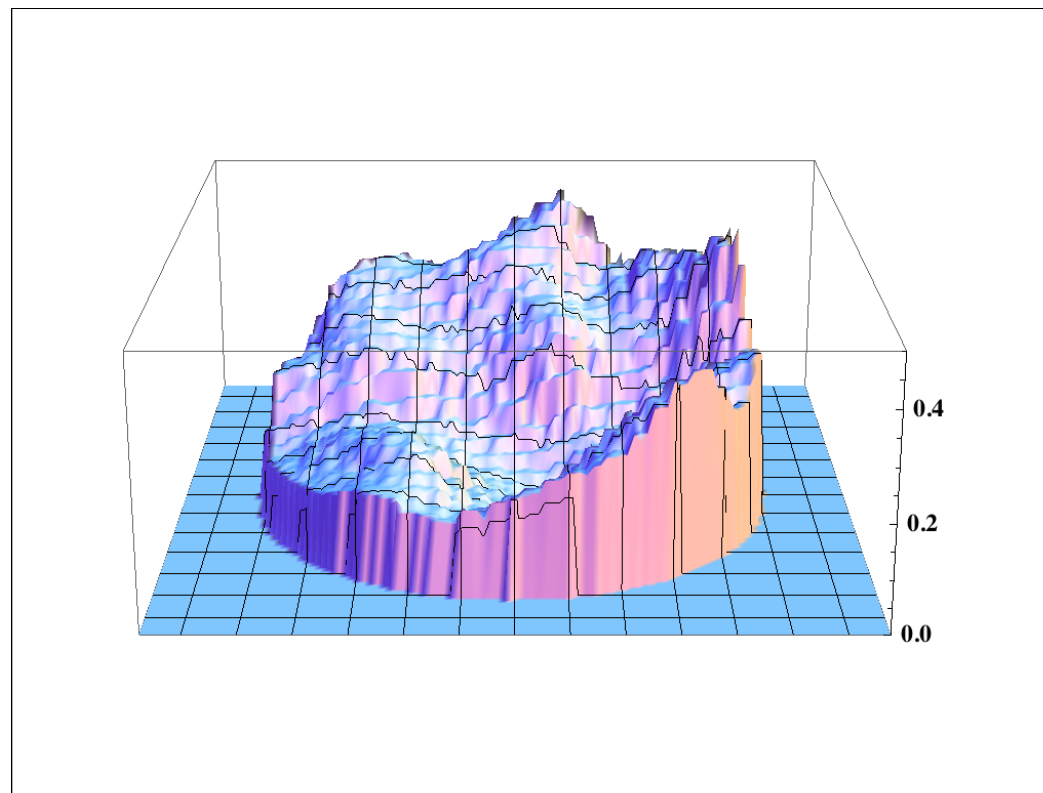


← North

GALEX images of the Sandage nebula

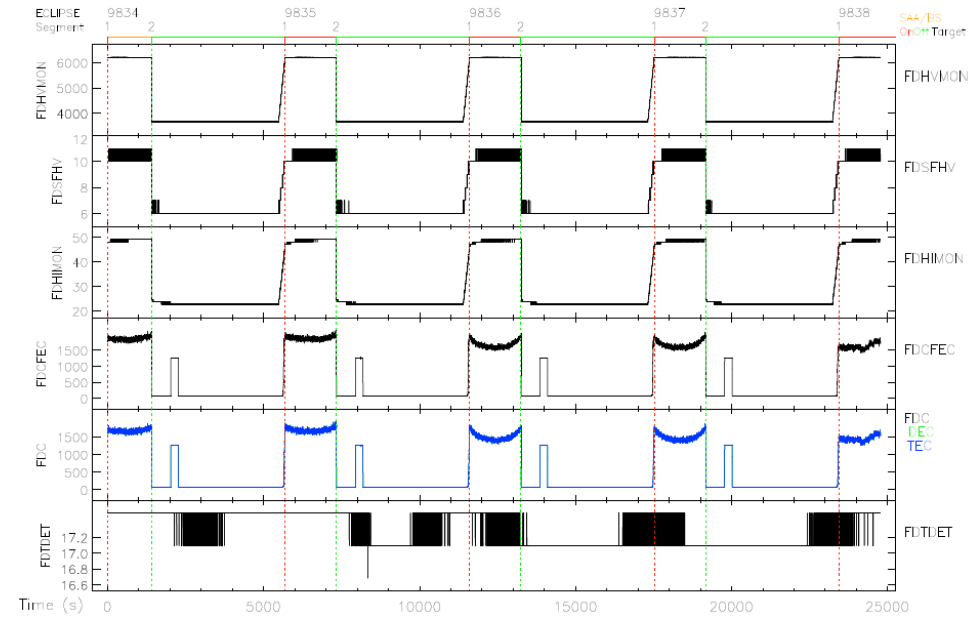


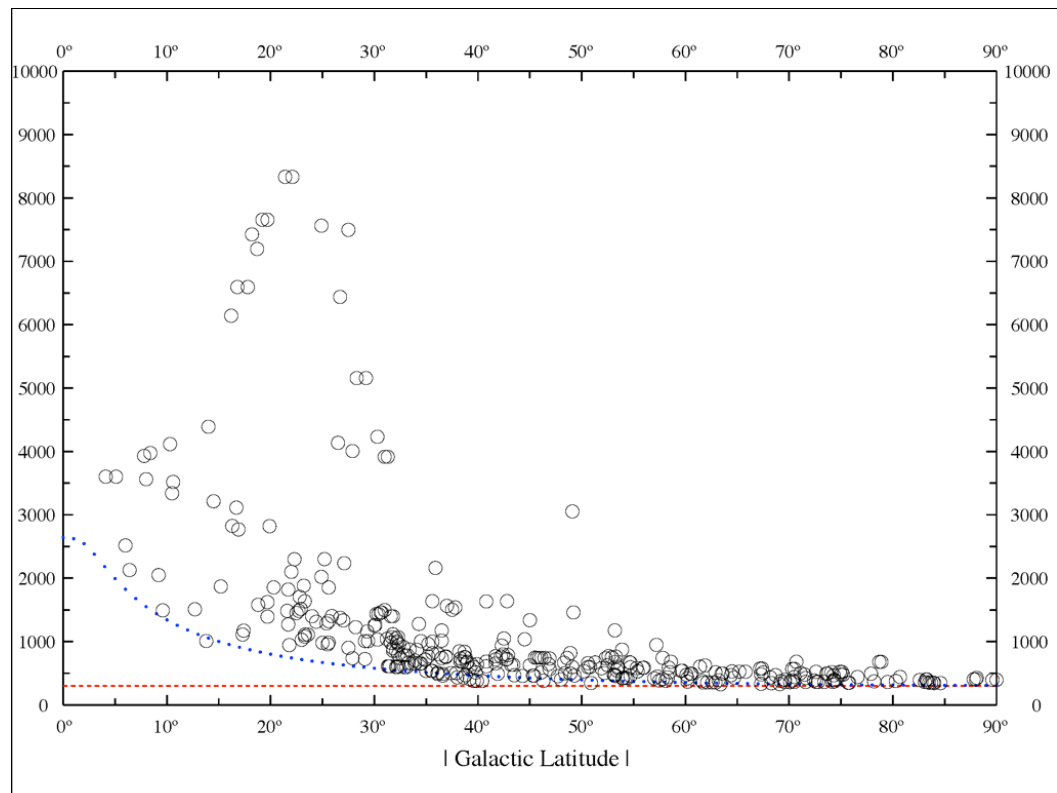


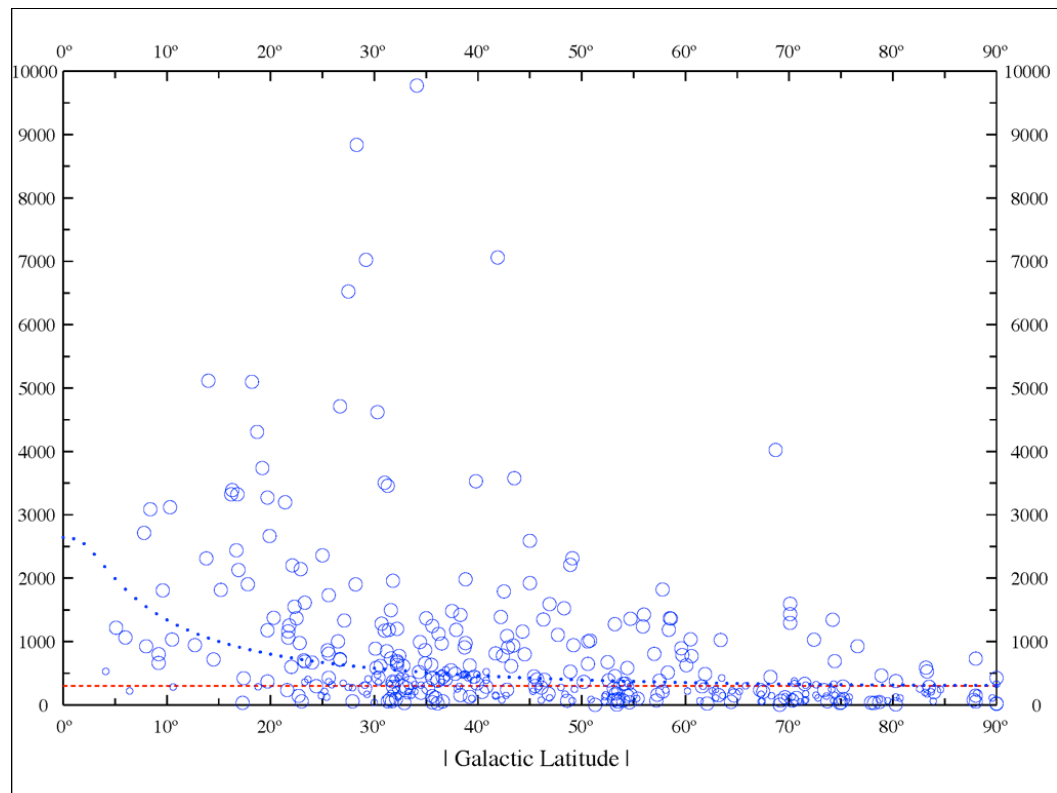


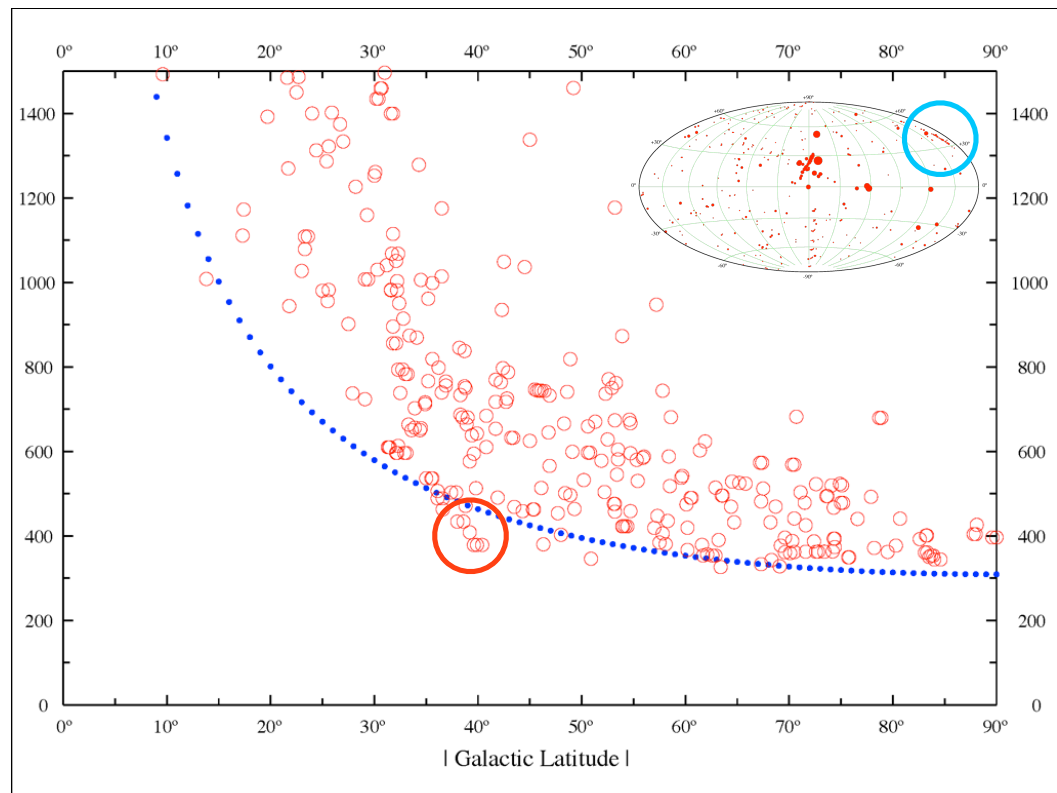
05061hz03i FUV Detector Health

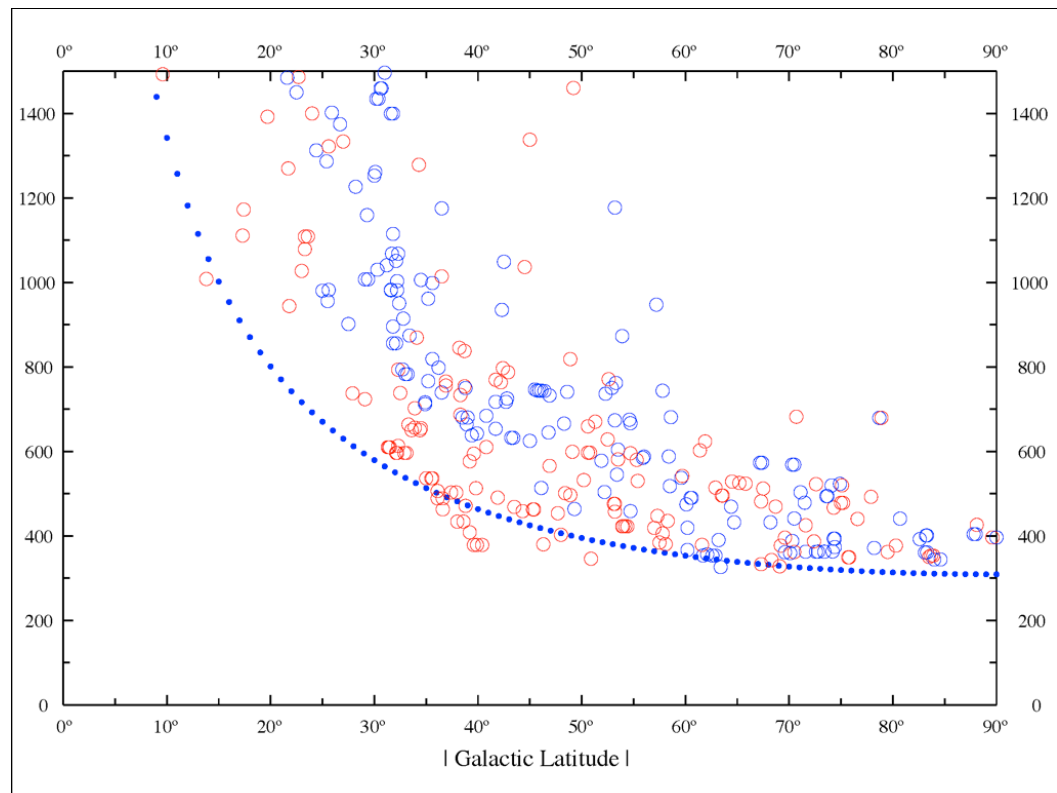
Obs Epoch +793764456 2005-03-02 02:07:36 CMT Exp: 24771s

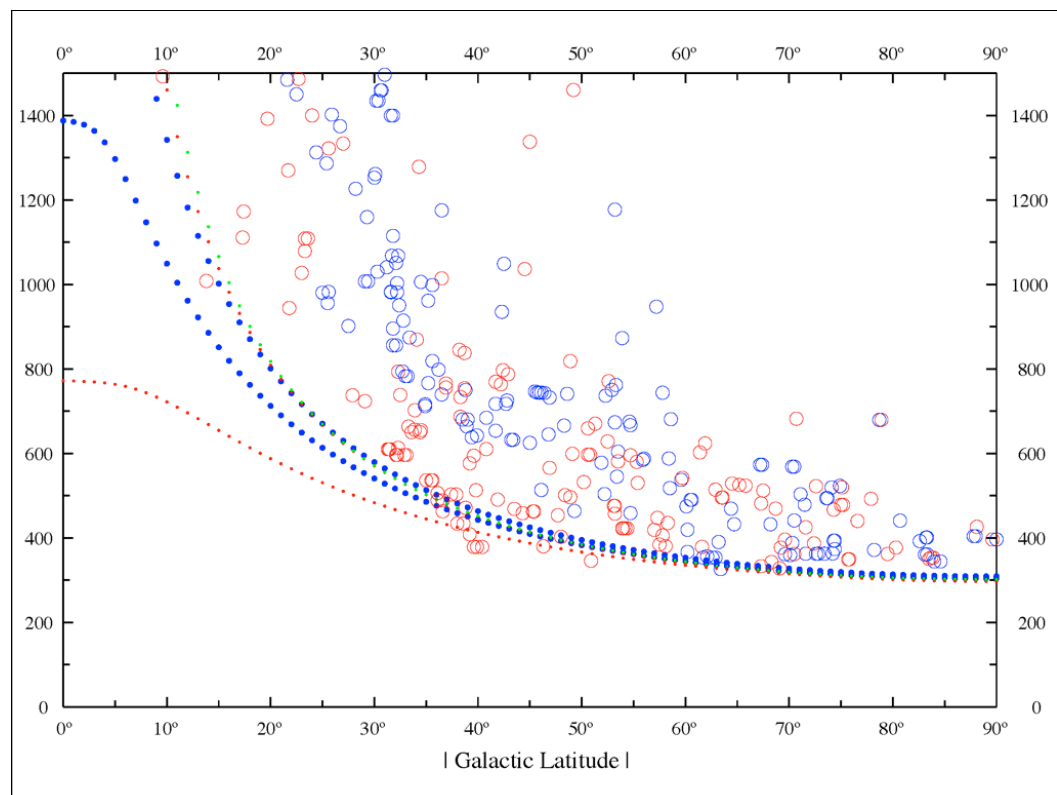


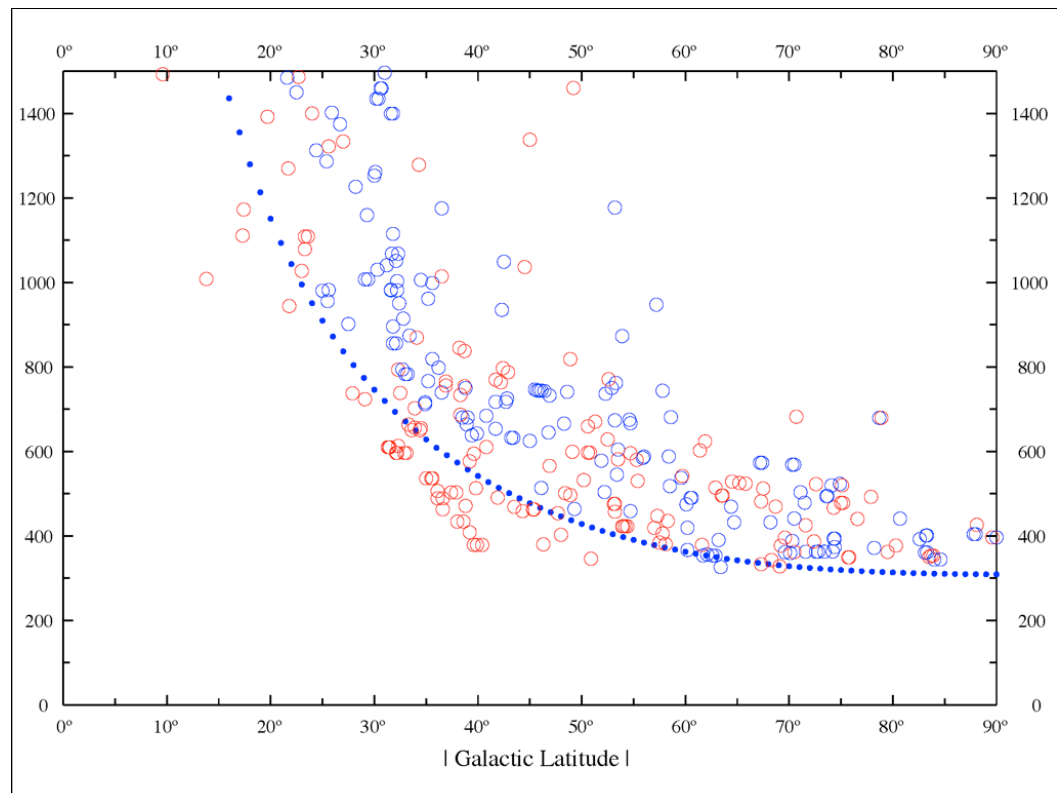


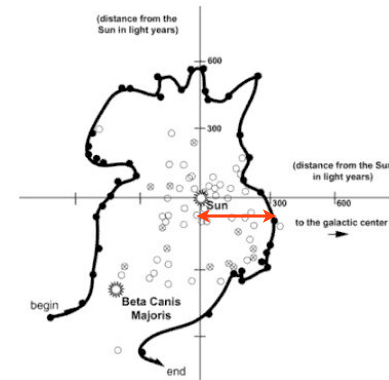
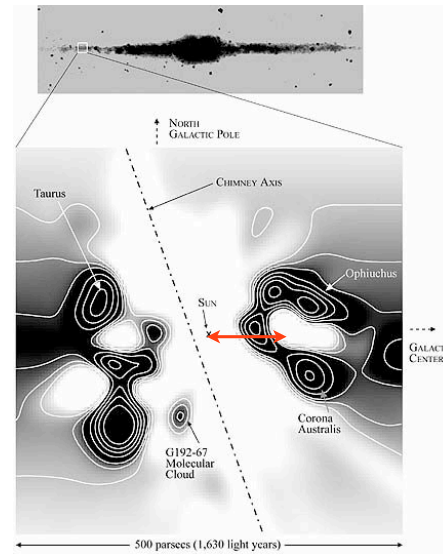


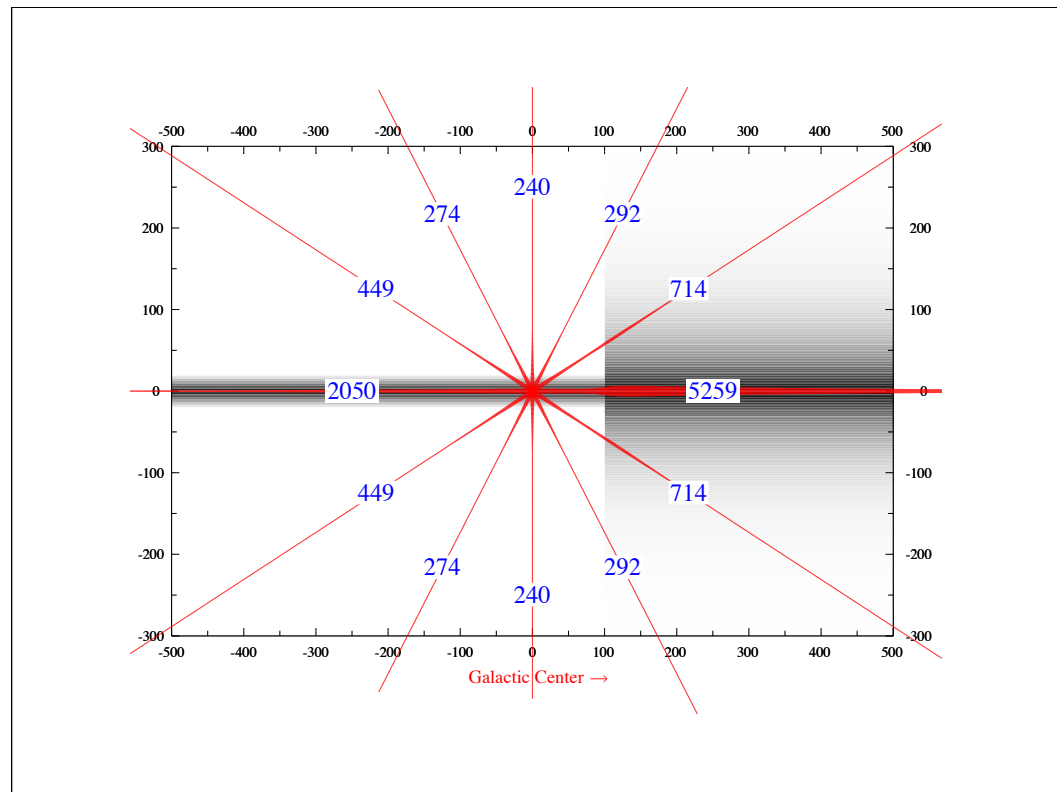


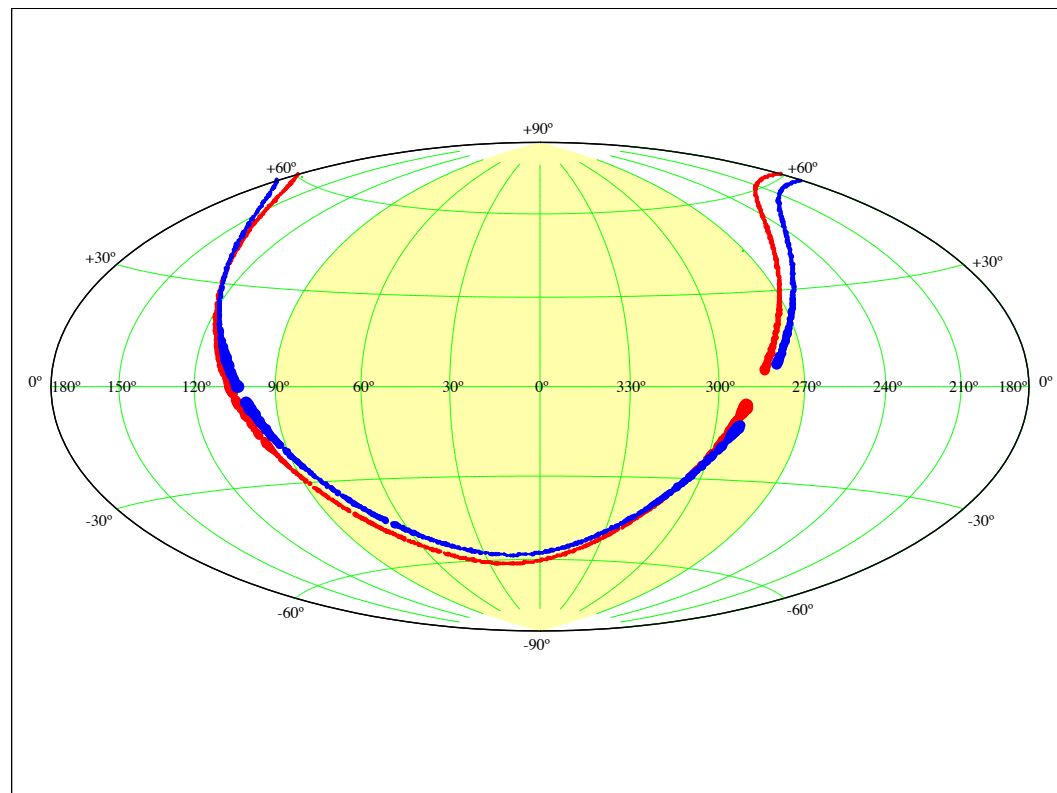


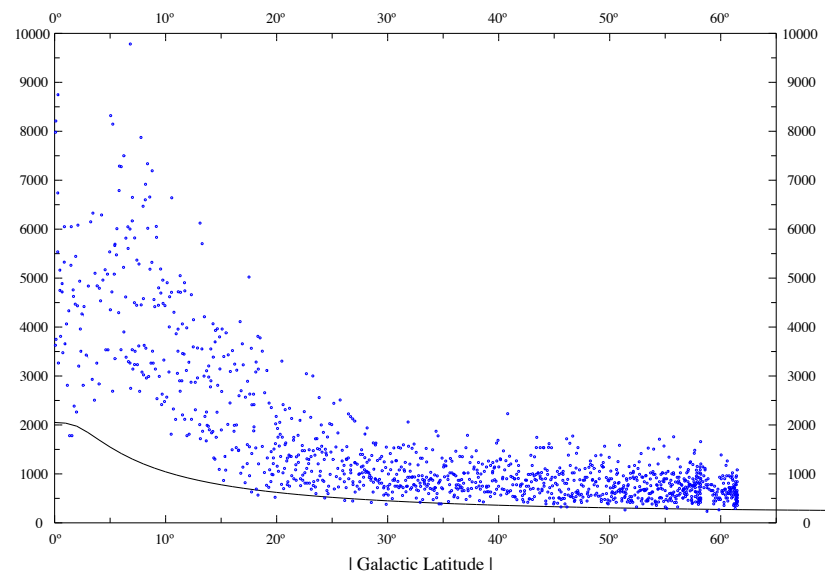


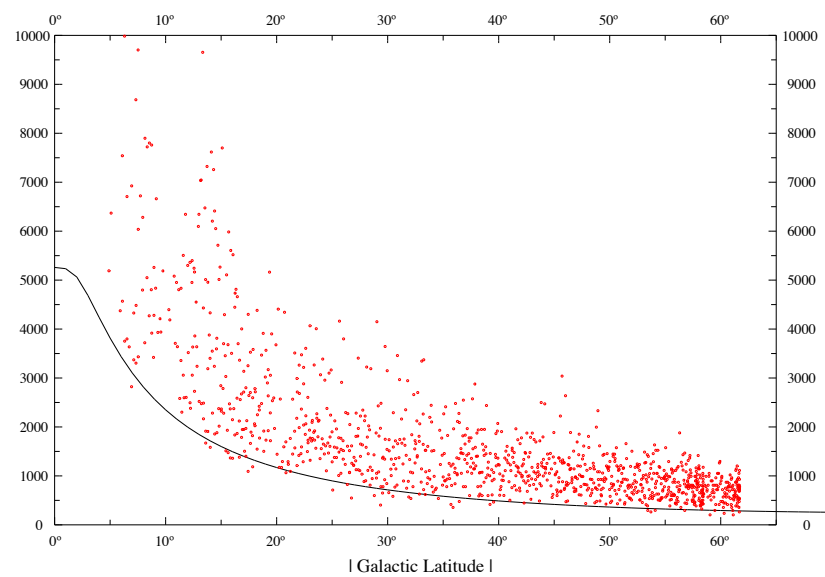


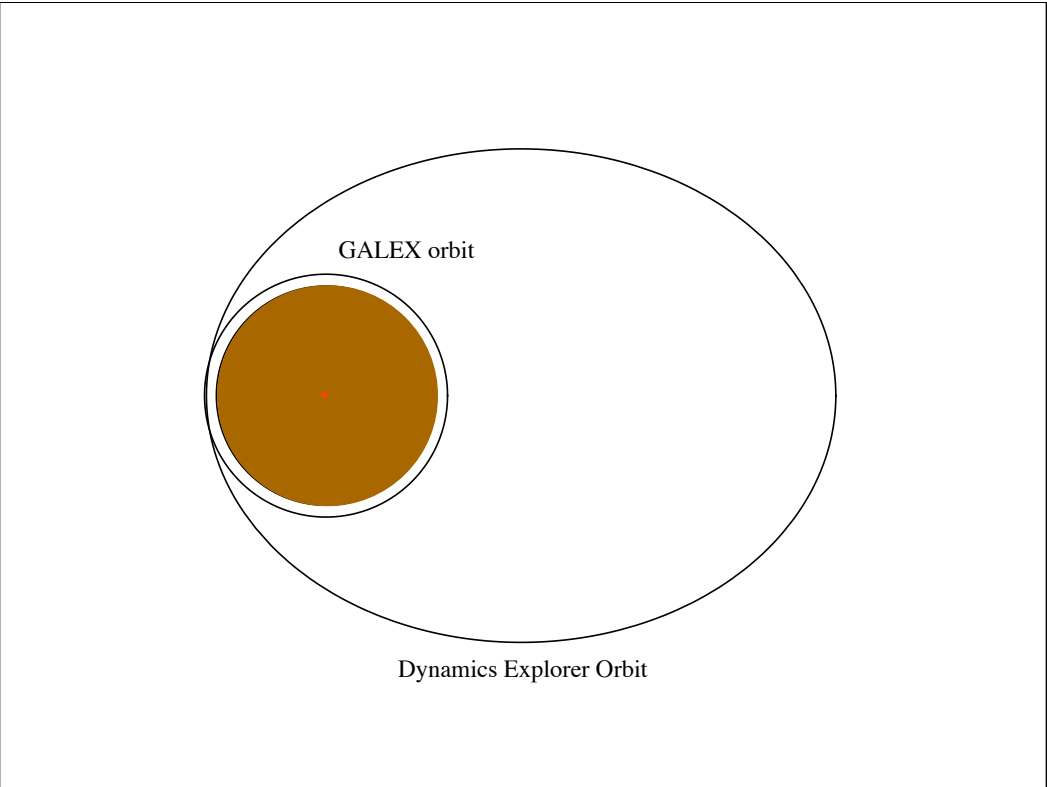


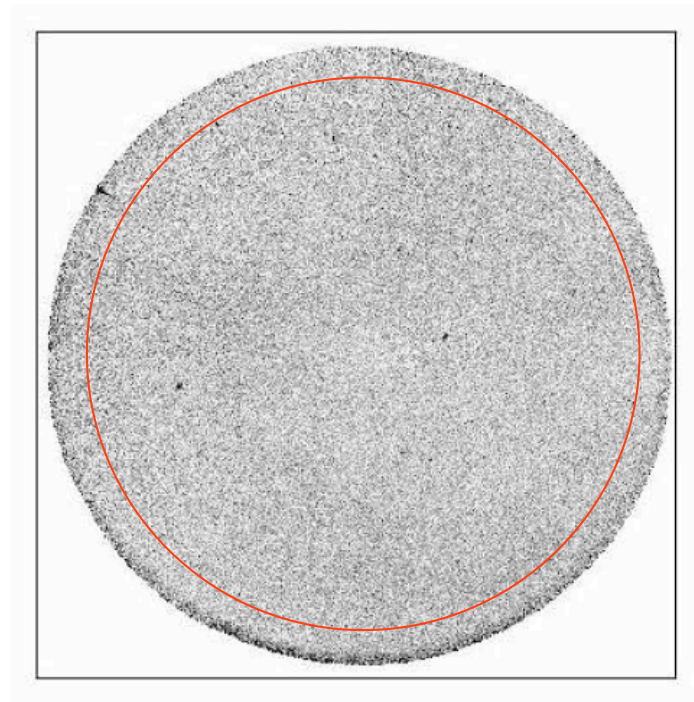


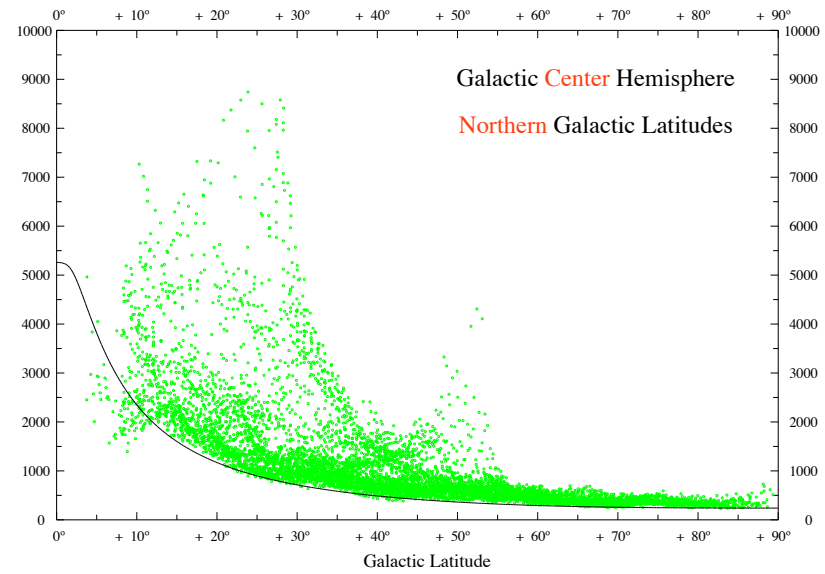


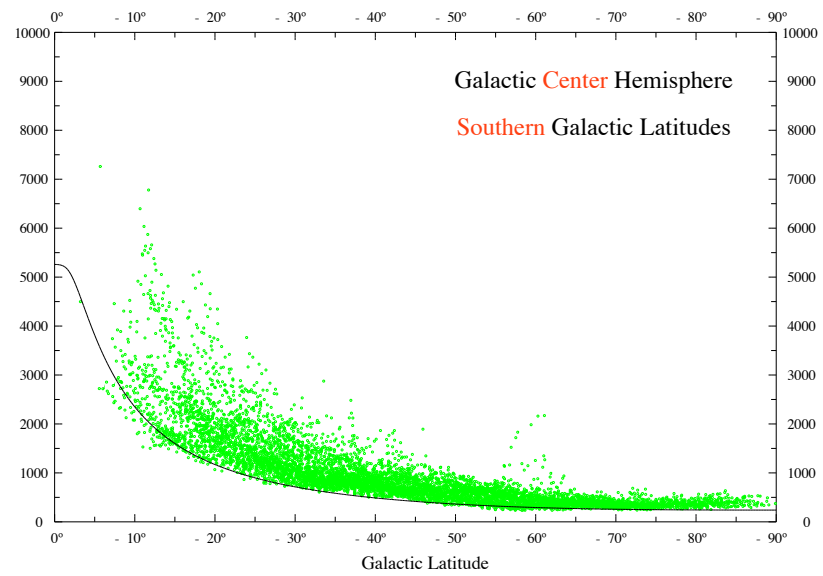


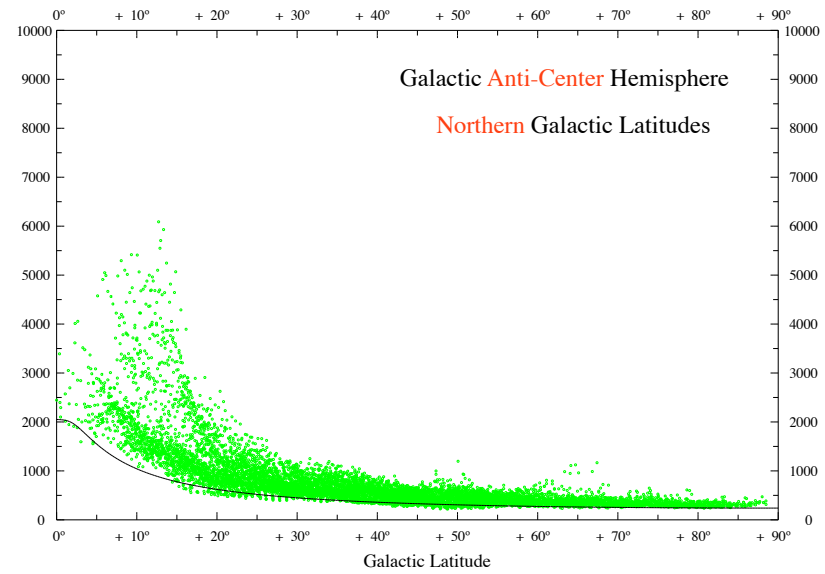


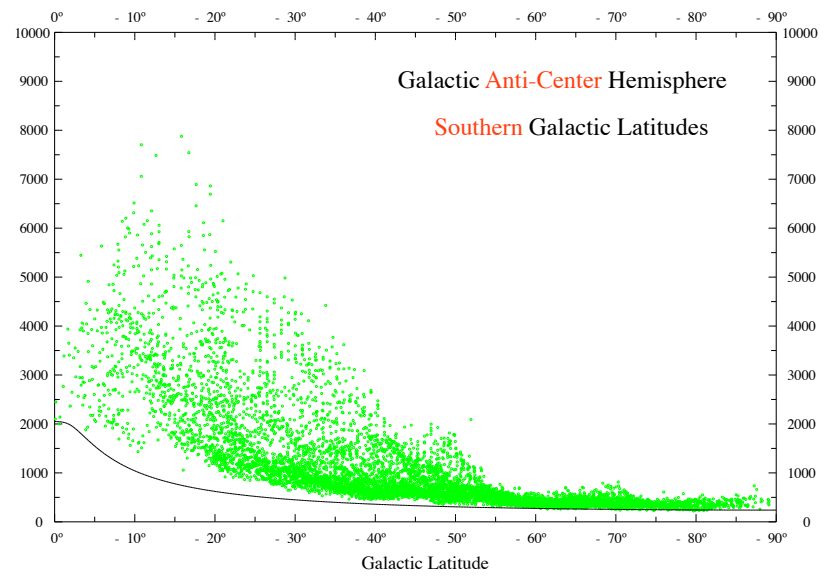


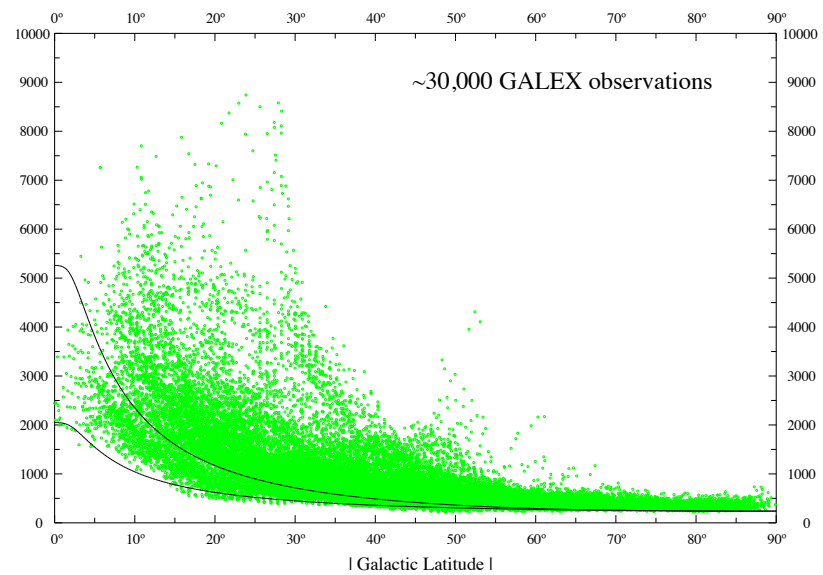


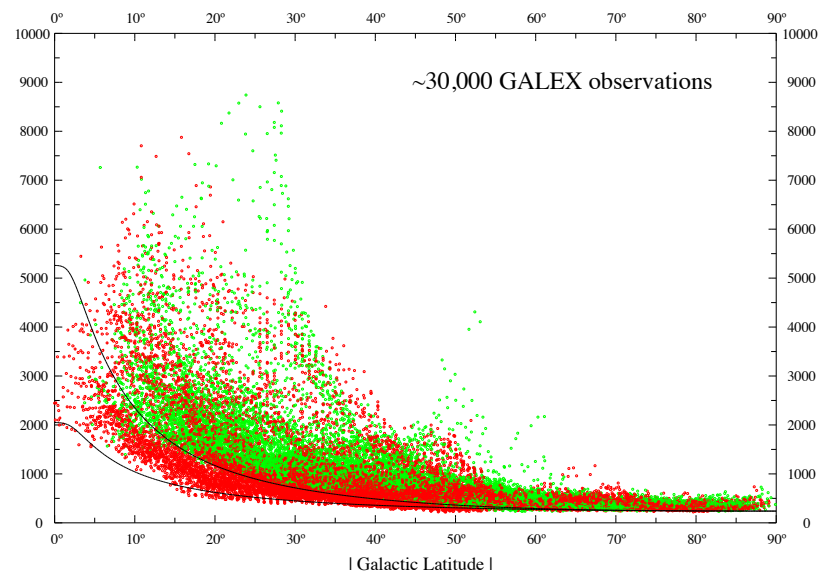


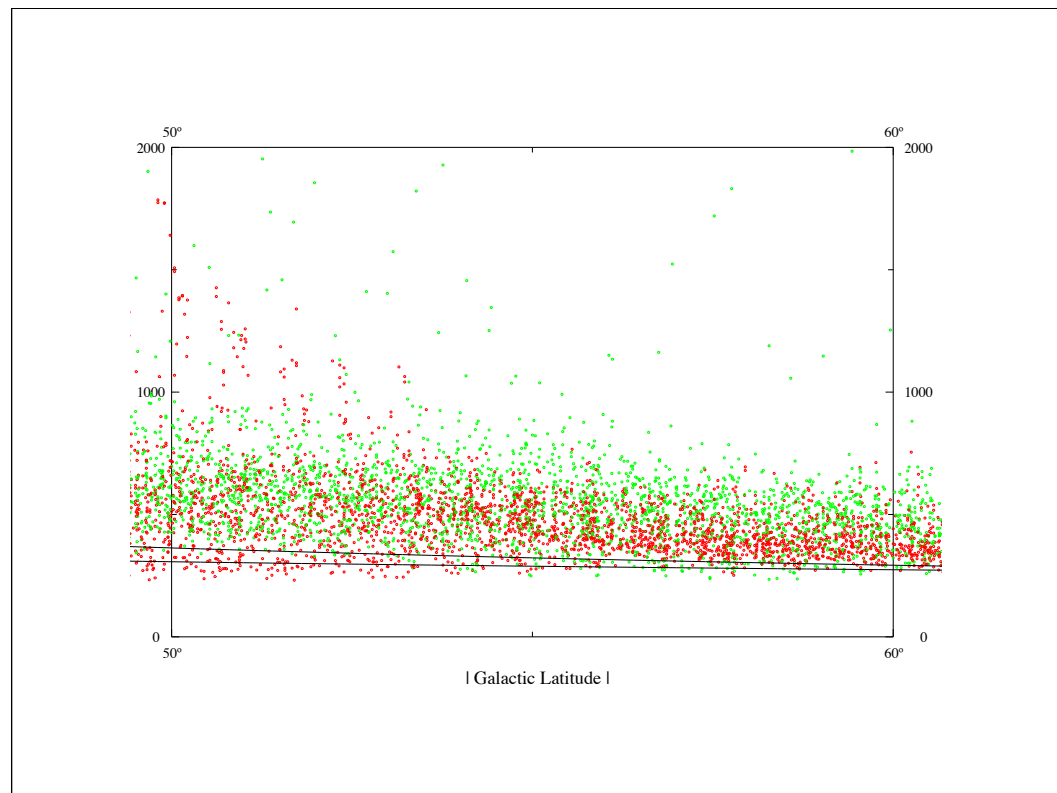






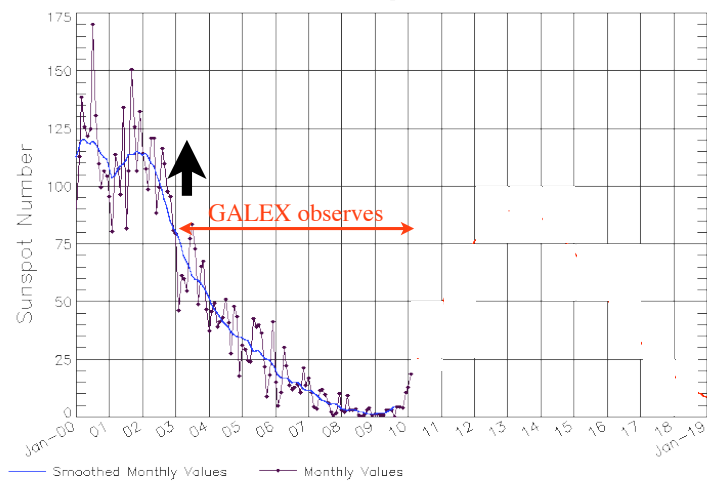






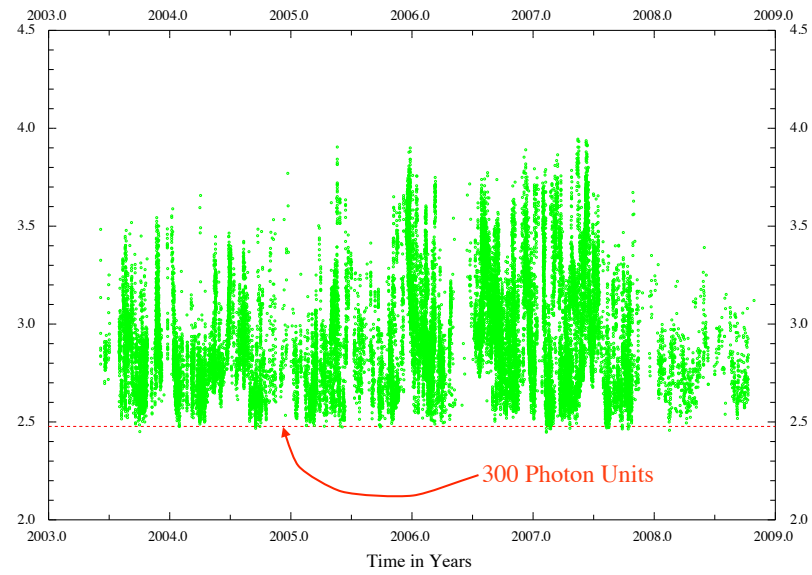
ISES Solar Cycle Sunspot Number Progression

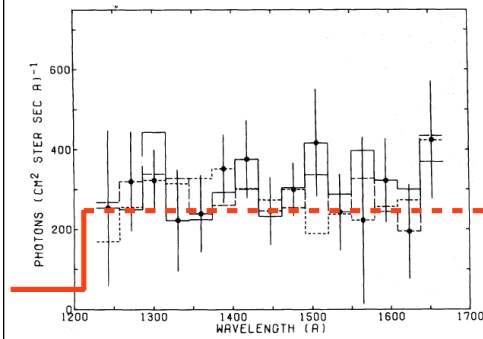
Observed data through Feb 2010



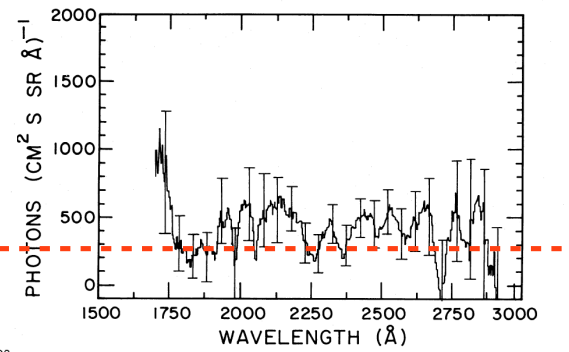
Updated 2010 Mar 4

NOAA/SWPC Boulder, CO USA





My student,
Rod
Anderson
1979



My student,
Pete
Tennyson
1988



University of California Irvine

UV Background with Voyager

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The Johns Hopkins University

2010 March 25

$$H = n_0 \left(1 + \frac{1}{1 + e^{-\frac{(7900-u)}{50}}} \right) \int_0^\infty e^{-\frac{rsinb}{s}} e^{-\tau(r)} dr$$

$$\tau(r) = - \left(\frac{A_{1500}}{A_V} \frac{A_V}{1000} \frac{\log_{10}(2.5112)}{\log_{10}(2.71828)} \right) \int_r^0 e^{-\frac{rsinb}{s}} dr$$