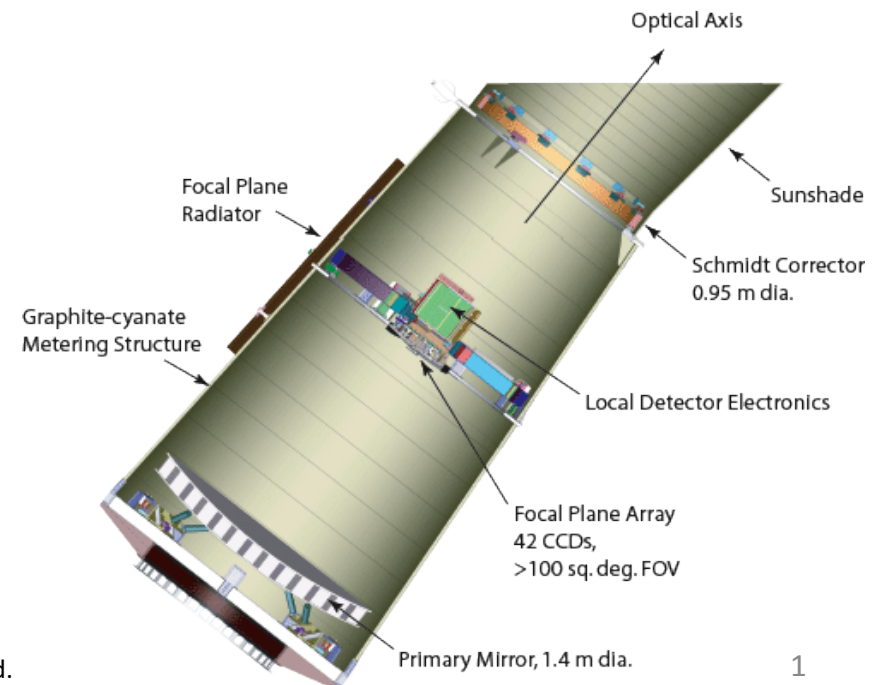




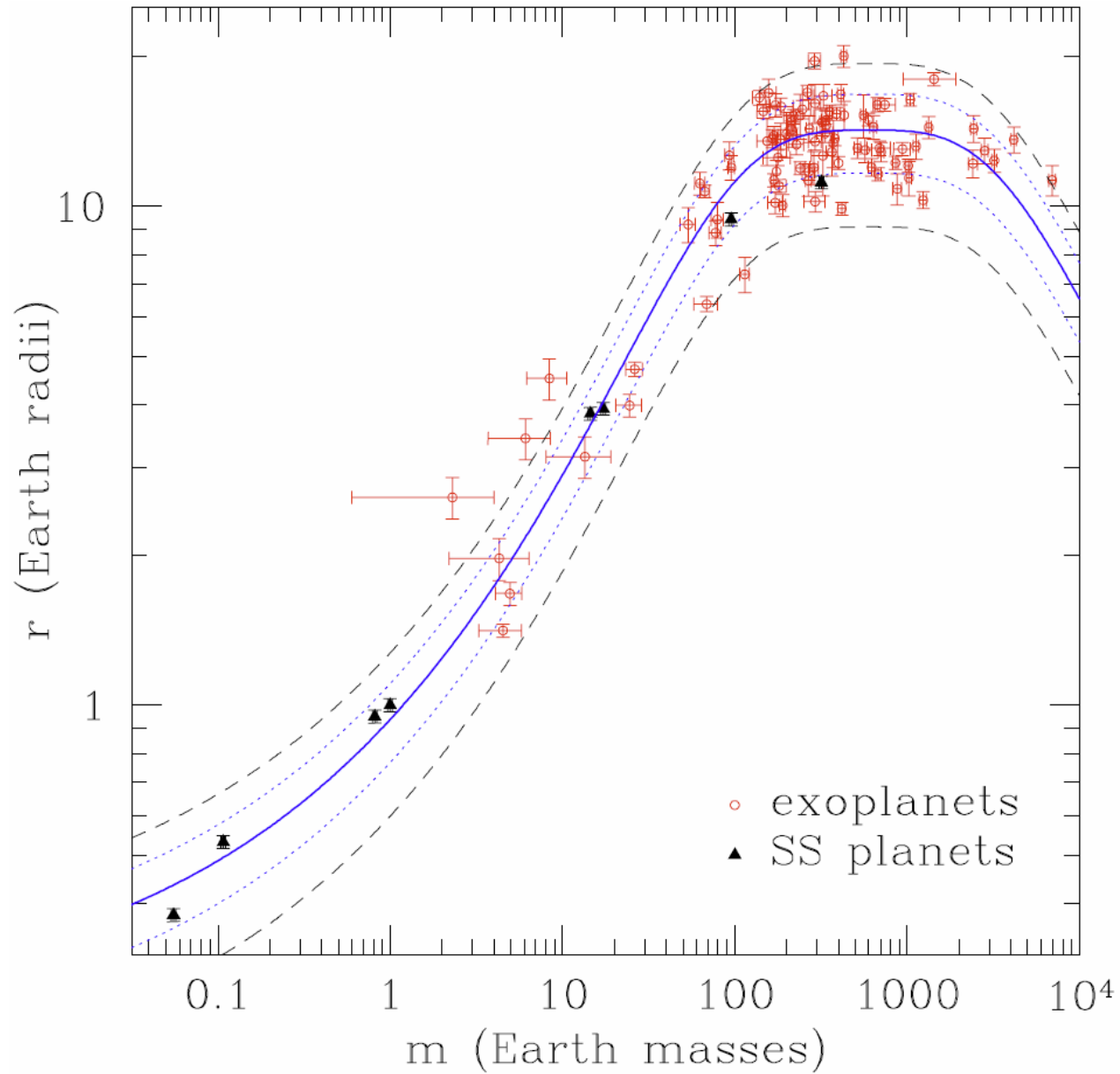
Terrestrial, Habitable-Zone Exoplanet Frequency from Kepler

Wesley A. Traub
Jet Propulsion Laboratory,
California Institute of Technology

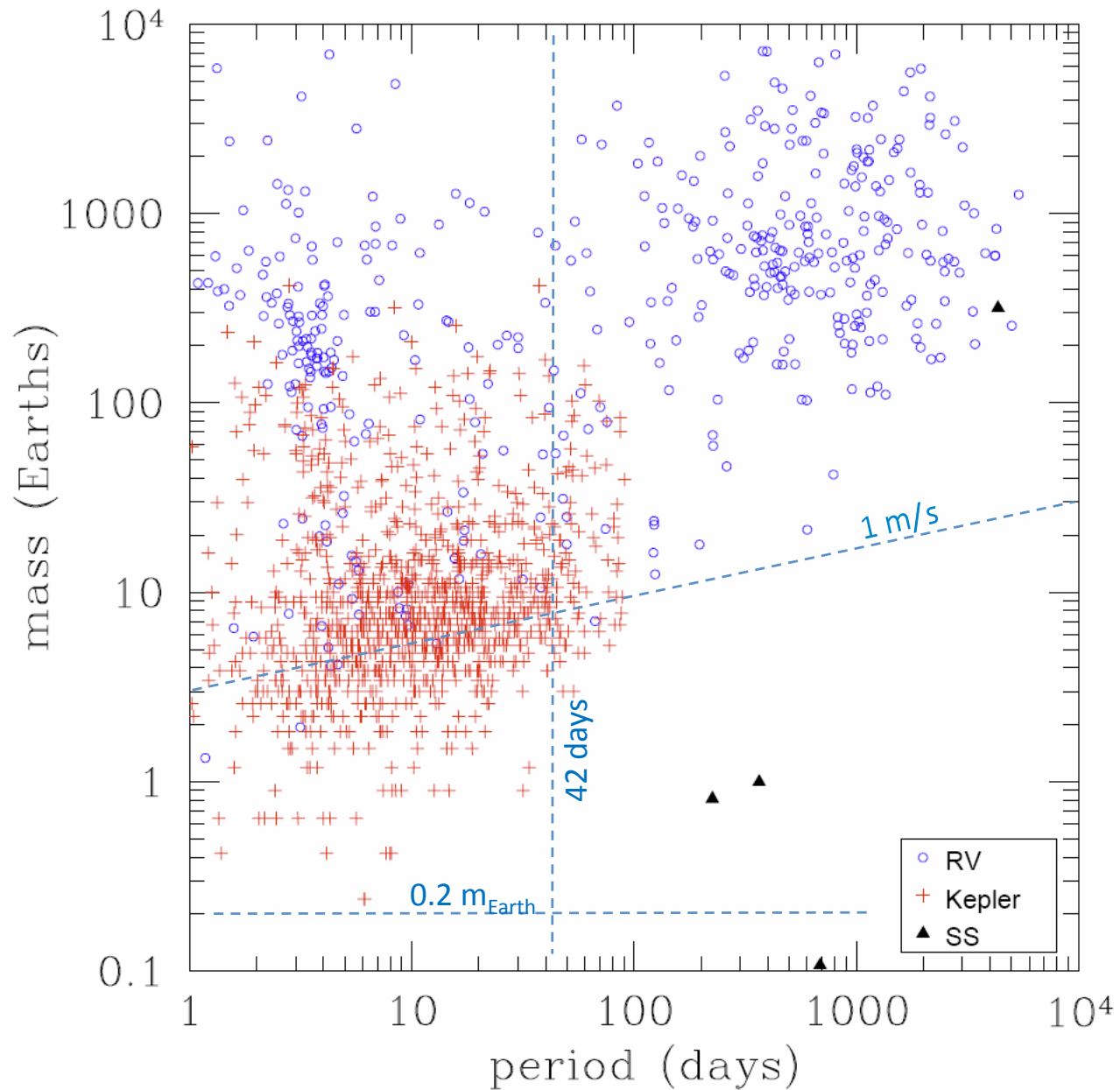
Joseph Fourier University
23 November 2011



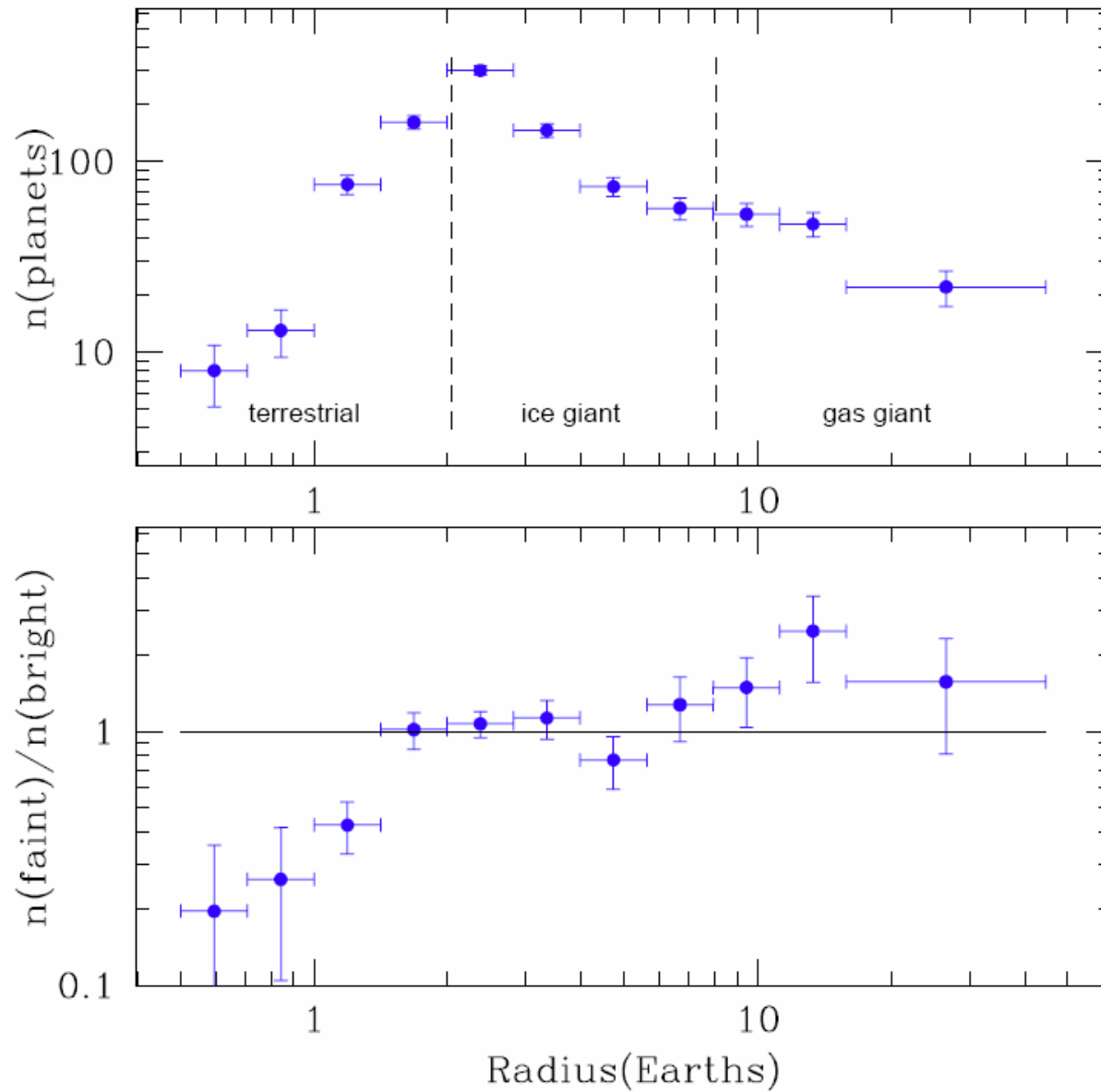
Radius vs mass from transits+RV



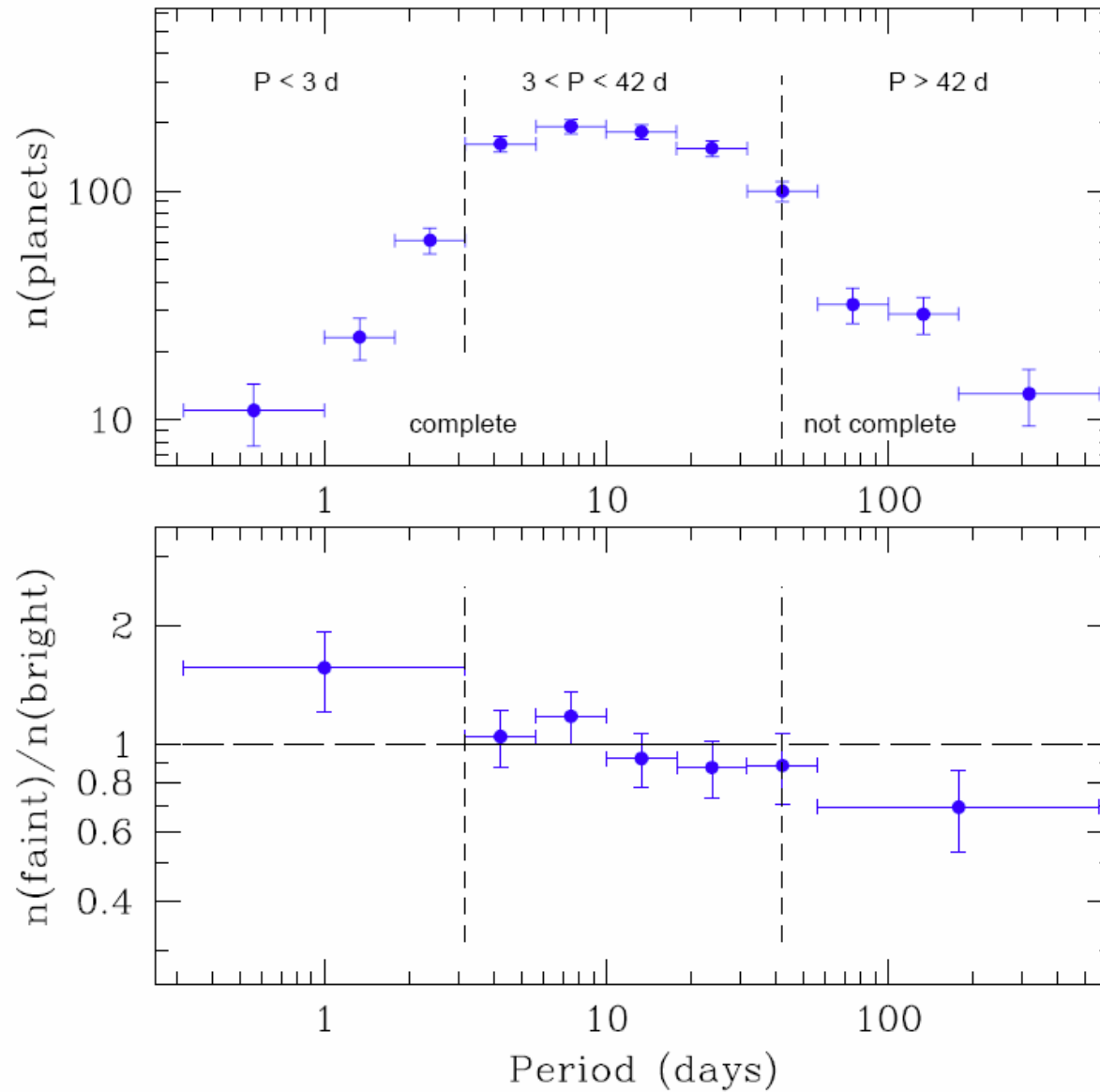
Mass vs period from RV & Kepler



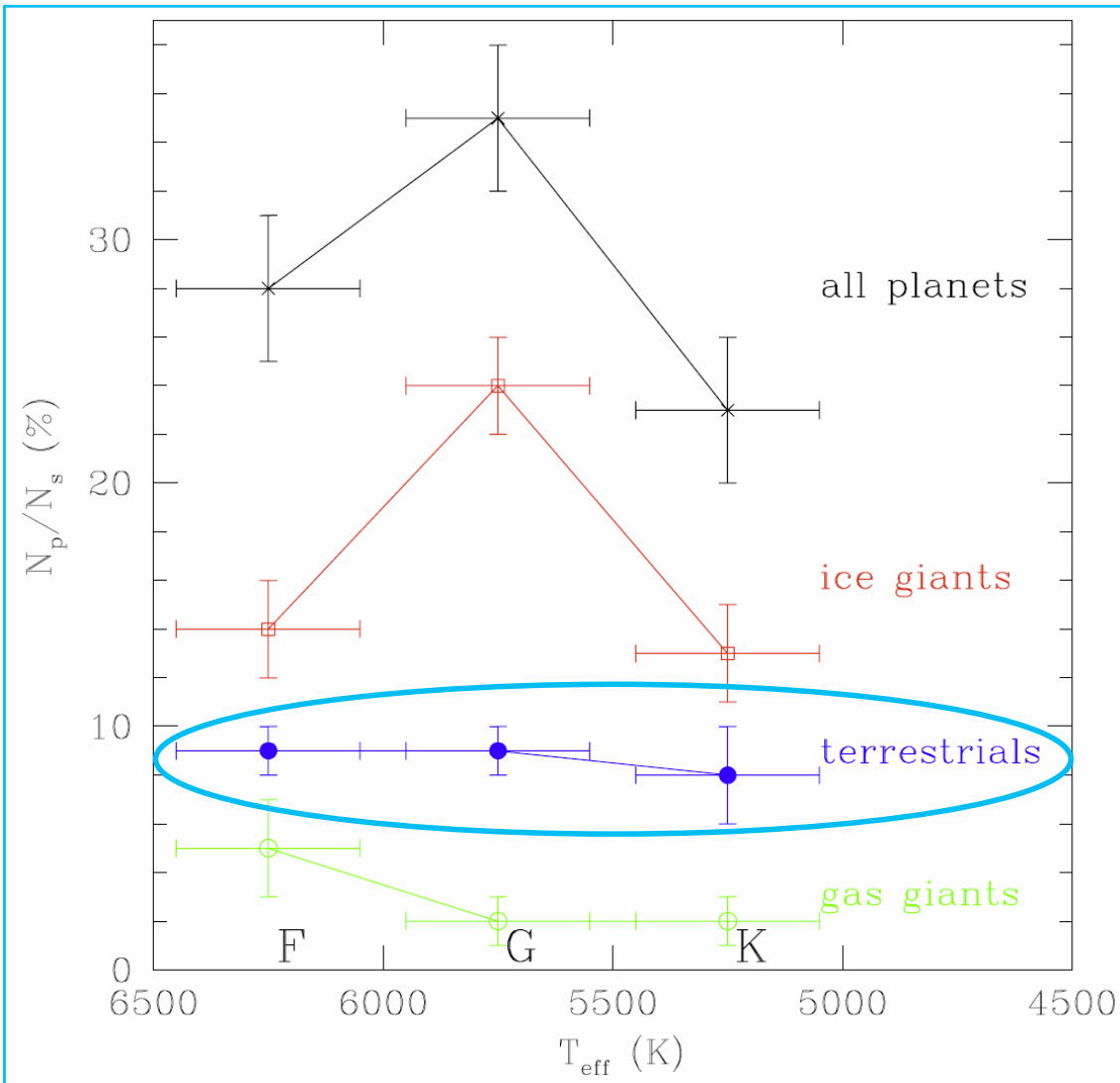
No. of planets vs radius, in sample



No. of planets vs period, in sample



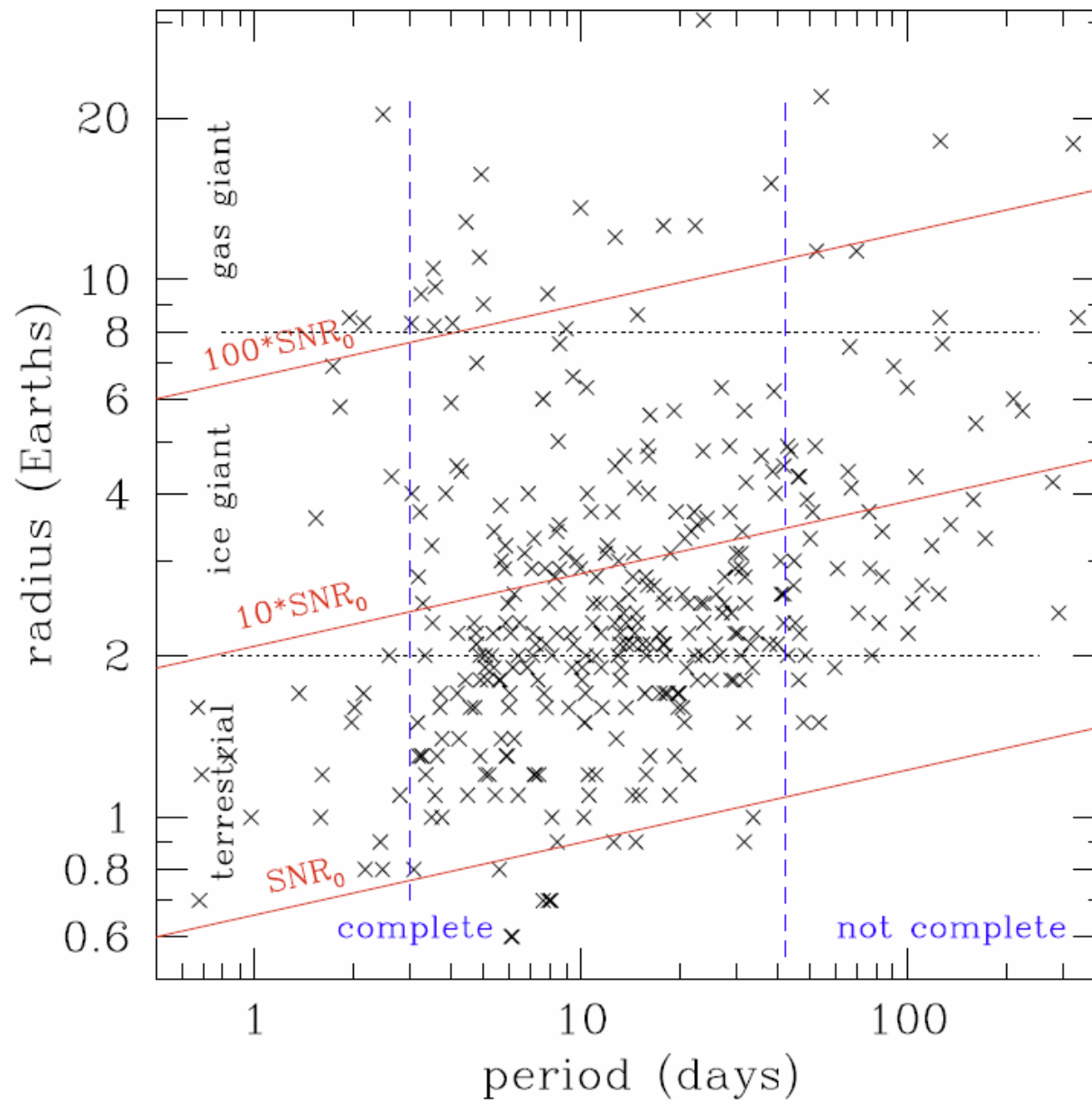
Planet types vs star spectral types in population



SpTy	$\frac{N_p(\text{terr})}{N_s}$ (%)	$\frac{N_p(\text{ice})}{N_s}$ (%)	$\frac{N_p(\text{gas})}{N_s}$ (%)	$\frac{N_p(\text{all})}{N_s}$ (%)
F	9 ± 1	14 ± 2	5 ± 2	28 ± 3
G	9 ± 1	24 ± 2	2 ± 1	35 ± 3
K	8 ± 2	13 ± 2	2 ± 1	23 ± 3
FGK	9 ± 1	18 ± 1	3 ± 1	29 ± 2

Close-in ($P < 42$ days),
terrestrial-size planets
are found around about
9% of each of F, G, K stars.

No. of planets vs radius & period, in sample



No. of planets vs period, in population

