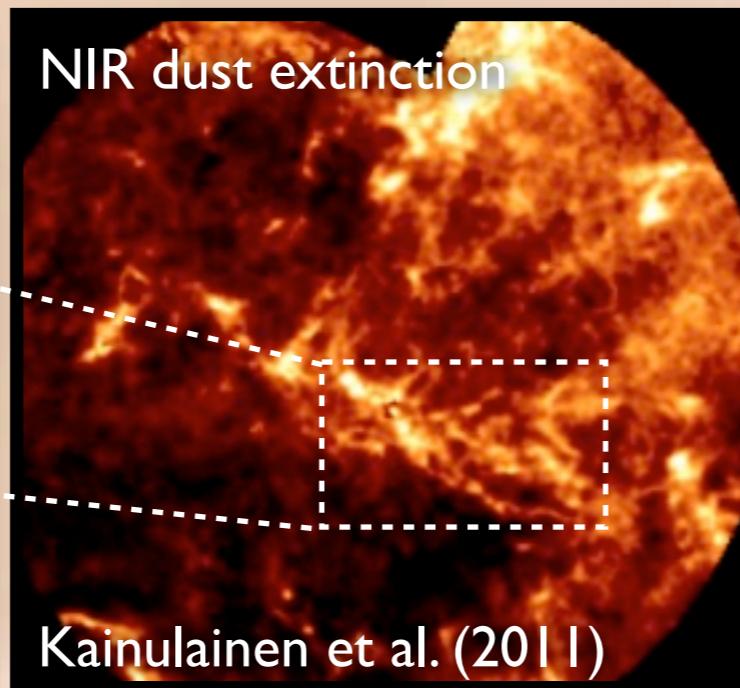
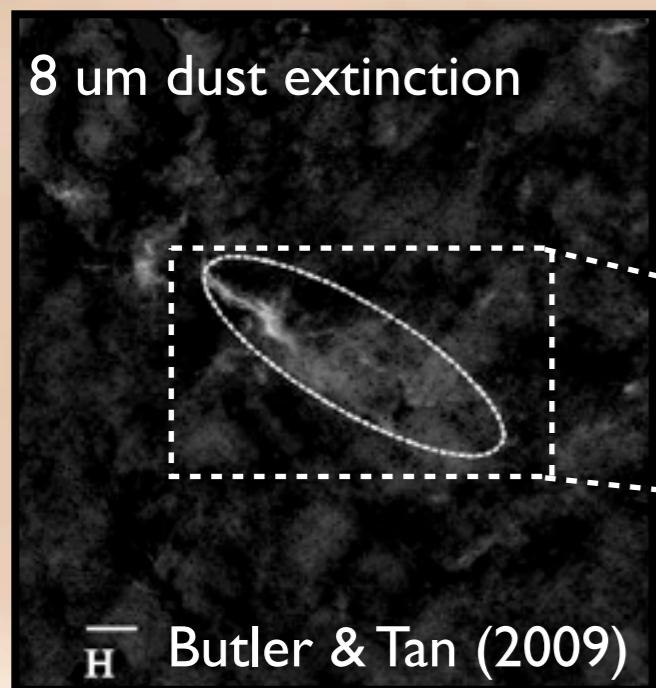


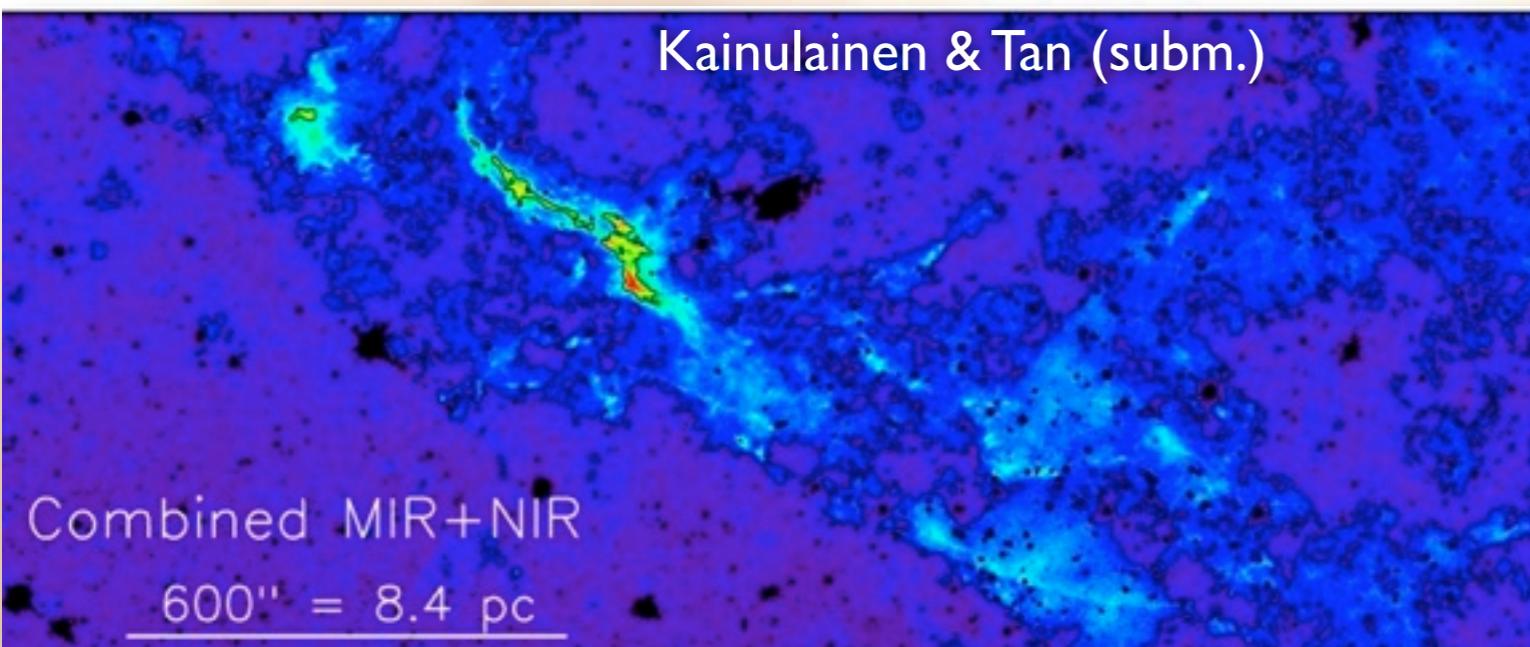
High-dynamic-range column density data for IRDCs: Dependence between the density structure and turbulence

Kainulainen J., Tan J.C.

Example: G035.39-00.33

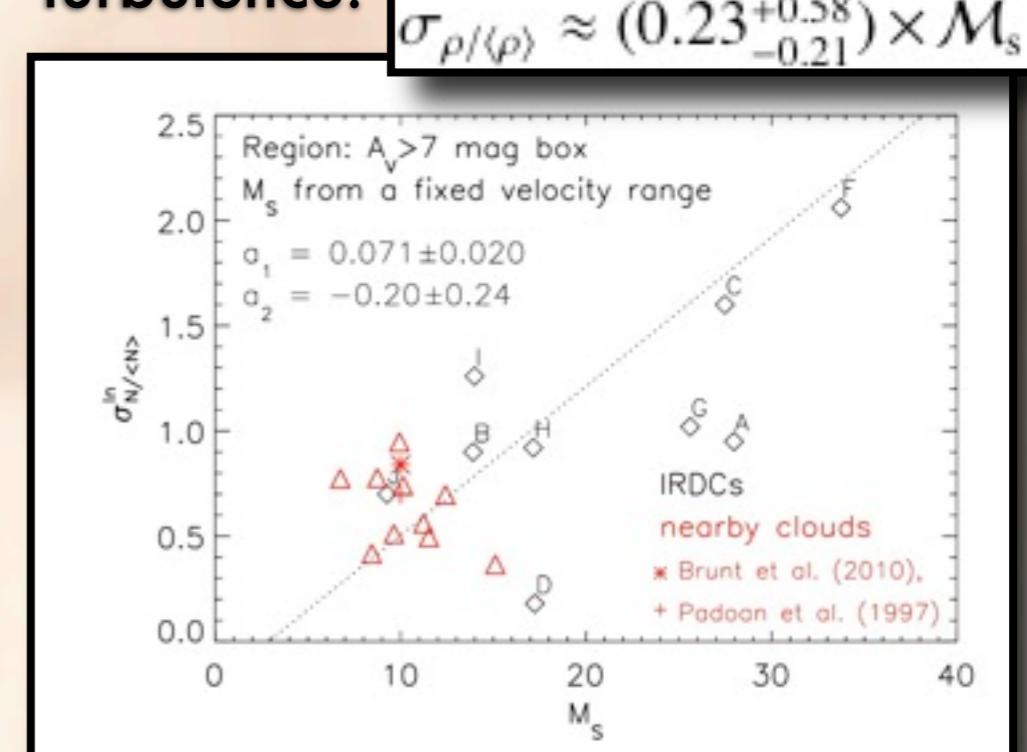


Kainulainen & Tan (subm.)



- ♦ A new, **high-dynamic-range** technique for measuring $N(H_2)$ in IRDCs using dust extinction.
- ♦ $A_V = 1\text{-}100 \text{ mag}$, $\text{FWHM} = 2''$. Low- ρ gas - envelopes - cores.
- ♦ The first direct observational detection of the dependence of the density fluctuations with turbulence:

$$\sigma_{\rho/\langle\rho\rangle} \approx (0.23^{+0.58}_{-0.21}) \times M_s$$



Kainulainen & Tan (subm.)