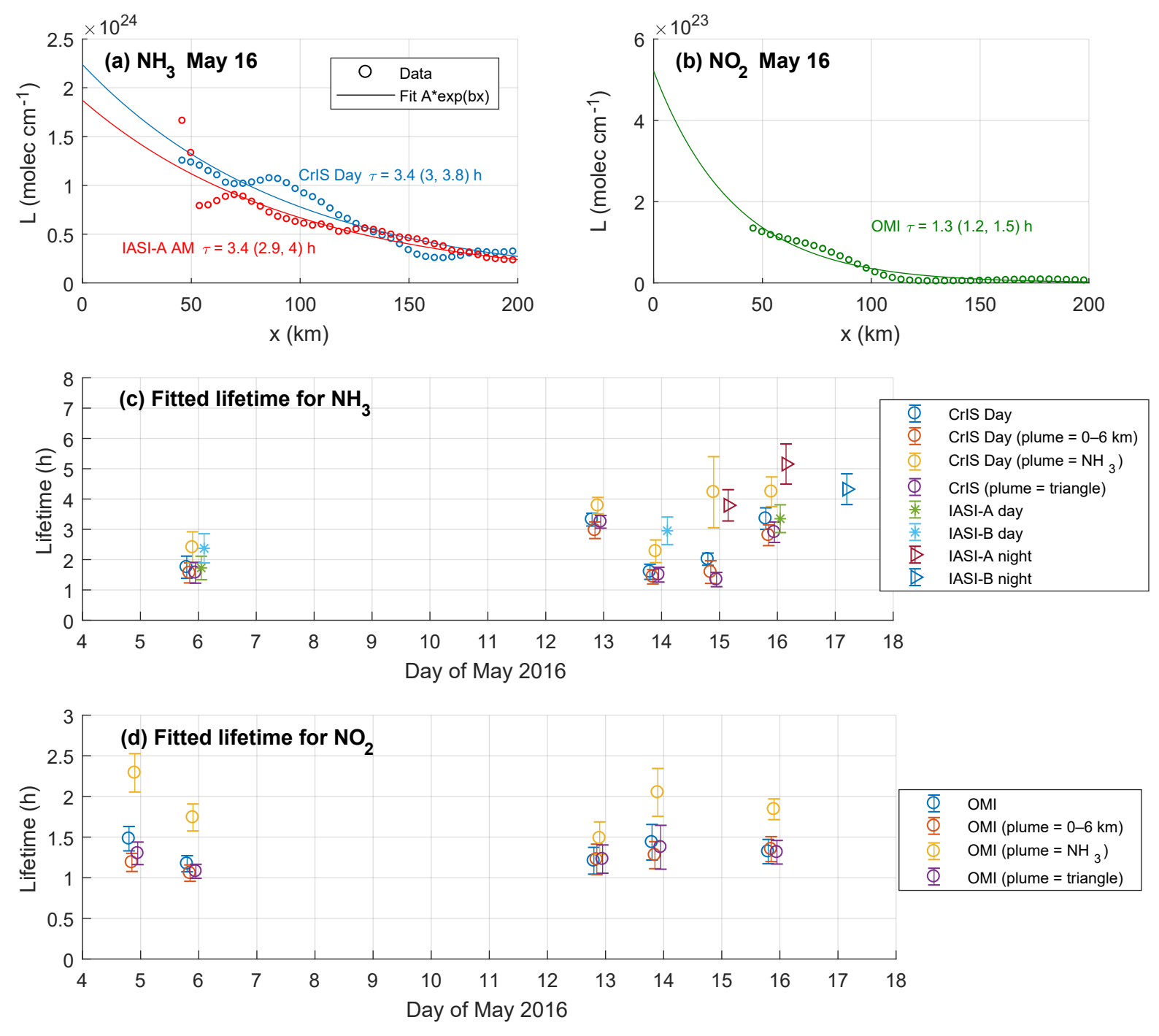
(a) NH3 May 16
×10^24
L (molec cm^-1)
x (km)
Data
Fit A*exp(bx)
CrIS Day τ = 3.4 (3, 3.8) h
IASI-A AM τ = 3.4 (2.9, 4) h
(b) NO2 May 16
×10^23
L (molec cm^-1)
x (km)
OMI τ = 1.3 (1.2, 1.5) h
(c) Fitted lifetime for NH3
Lifetime (h)
Day of May 2016
CrIS Day
CrIS Day (plume = 0–6 km)
CrIS Day (plume = NH 3)
CrIS (plume = triangle)
IASI-A day
IASI-B day
IASI-A night
IASI-B night
(d) Fitted lifetime for NO2
Lifetime (h)
Day of May 2016
OMI
OMI (plume = 0–6 km)
OMI (plume = NH 3)
OMI (plume = triangle)