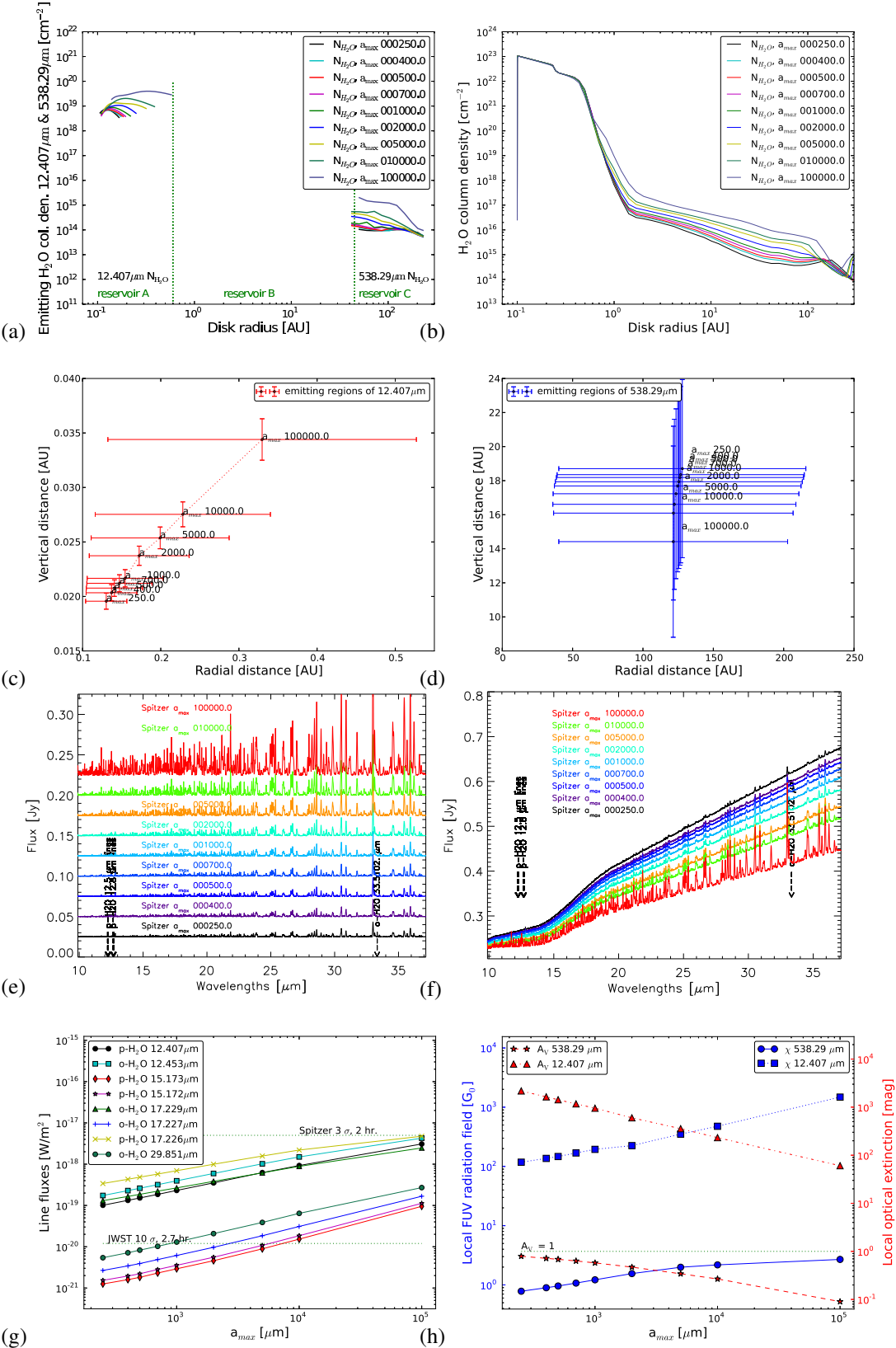
(a)
Emitting H_2O col. den. 12.407μm & 538.29μm [cm^{-2}]
Disk radius [AU]
12.407μm N_{H_2O}
reservoir A
reservoir B
538.29μm N_{H_2O}
reservoir C
N_{H_2O}, a_{max} 000250.0
N_{H_2O}, a_{max} 000400.0
N_{H_2O}, a_{max} 000500.0
N_{H_2O}, a_{max} 000700.0
N_{H_2O}, a_{max} 001000.0
N_{H_2O}, a_{max} 002000.0
N_{H_2O}, a_{max} 005000.0
N_{H_2O}, a_{max} 010000.0
N_{H_2O}, a_{max} 100000.0
(b)
H_2O column density [cm^{-2}]
Disk radius [AU]
(c)
emitting regions of 12.407μm
Vertical distance [AU]
Radial distance [AU]
(d)
emitting regions of 538.29μm
Vertical distance [AU]
Radial distance [AU]
(e)
Spitzer a_{max} 100000.0
Spitzer a_{max} 010000.0
Spitzer a_{max} 005000.0
Spitzer a_{max} 002000.0
Spitzer a_{max} 001000.0
Spitzer a_{max} 000700.0
Spitzer a_{max} 000500.0
Spitzer a_{max} 000400.0
Spitzer a_{max} 000250.0
Flux [Jy]
Wavelengths [μm]
(f)
Flux [Jy]
Wavelengths [μm]
(g)
p-H_2O 12.407μm
o-H_2O 12.453μm
p-H_2O 15.173μm
p-H_2O 15.172μm
o-H_2O 17.229μm
o-H_2O 17.227μm
p-H_2O 17.226μm
o-H_2O 29.851μm
Spitzer 3 σ, 2 hr.
JWST 10 σ, 2.7 hr.
Line fluxes [W/m^2]
a_{max} [μm]
(h)
A_V 538.29 μm
A_V 12.407 μm
χ 538.29 μm
χ 12.407 μm
A_V = 1
Local FUV radiation field [G_0]
Local optical extinction [mag]
a_{max} [μm]