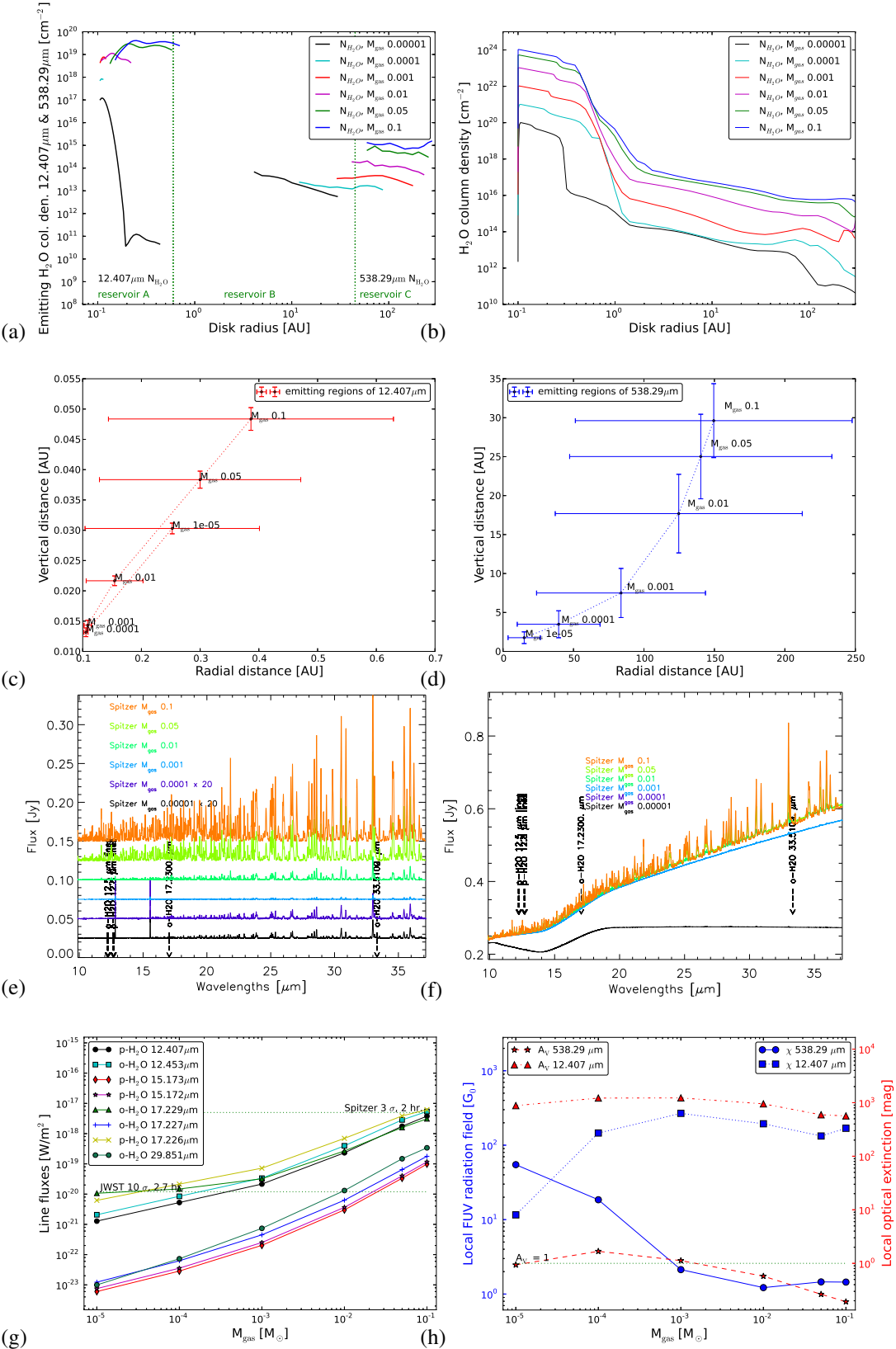
(a)
Emitting H_2O col. den. 12.407μm & 538.29μm [cm^{-2}]
Disk radius [AU]
12.407μm N_{H_2O}
reservoir A
reservoir B
538.29μm N_{H_2O}
reservoir C
N_{H_2O}, M_{gas} 0.00001
N_{H_2O}, M_{gas} 0.0001
N_{H_2O}, M_{gas} 0.001
N_{H_2O}, M_{gas} 0.01
N_{H_2O}, M_{gas} 0.05
N_{H_2O}, M_{gas} 0.1
(b)
H_2O column 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 M_{gas} 0.1
Spitzer M_{gas} 0.05
Spitzer M_{gas} 0.01
Spitzer M_{gas} 0.001
Spitzer M_{gas} 0.0001 x 20
Spitzer M_{gas} 0.00001 x 20
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]
M_{gas} [$M_\odot$]
(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]
M_{gas} [$M_\odot$]