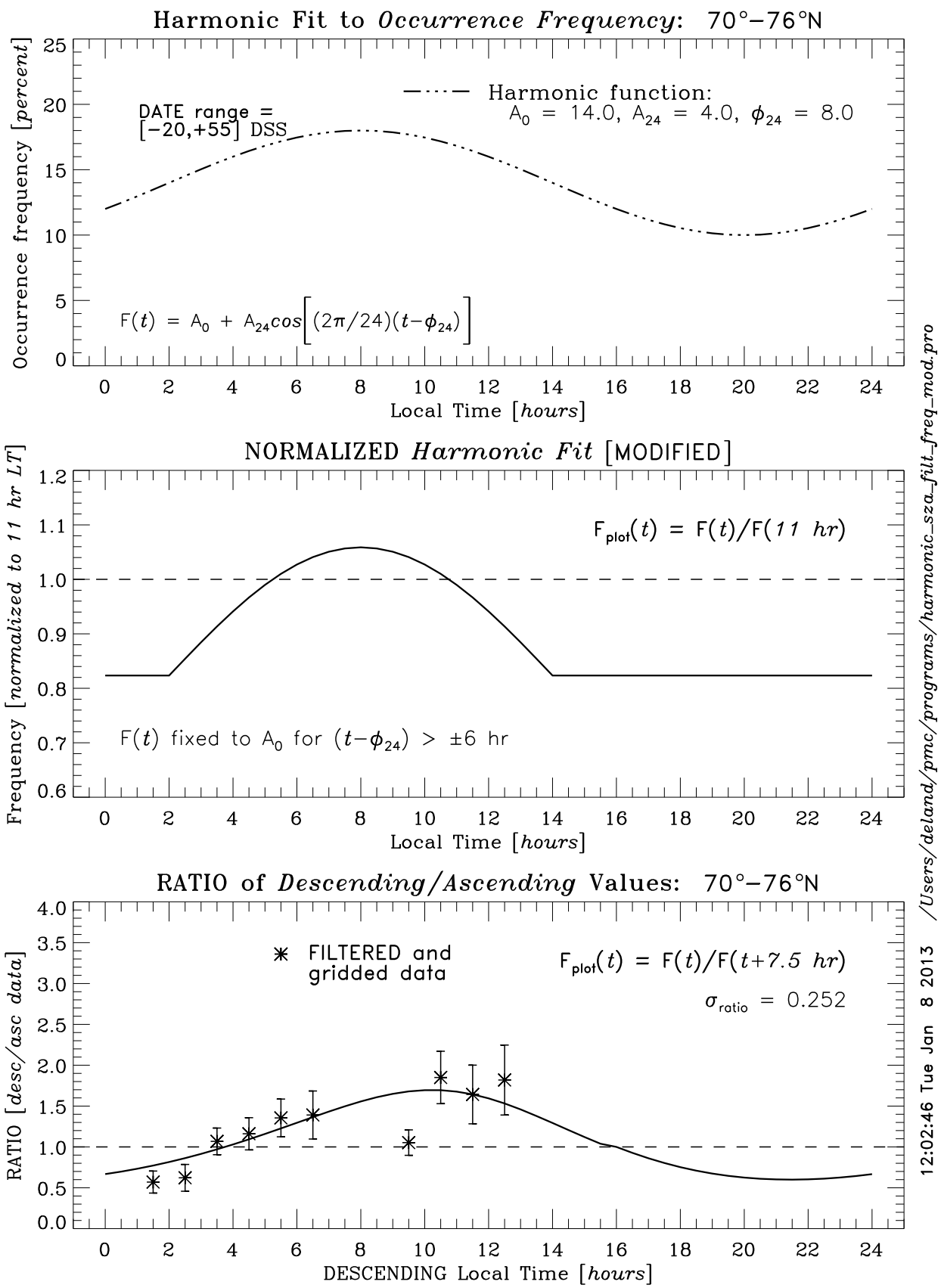
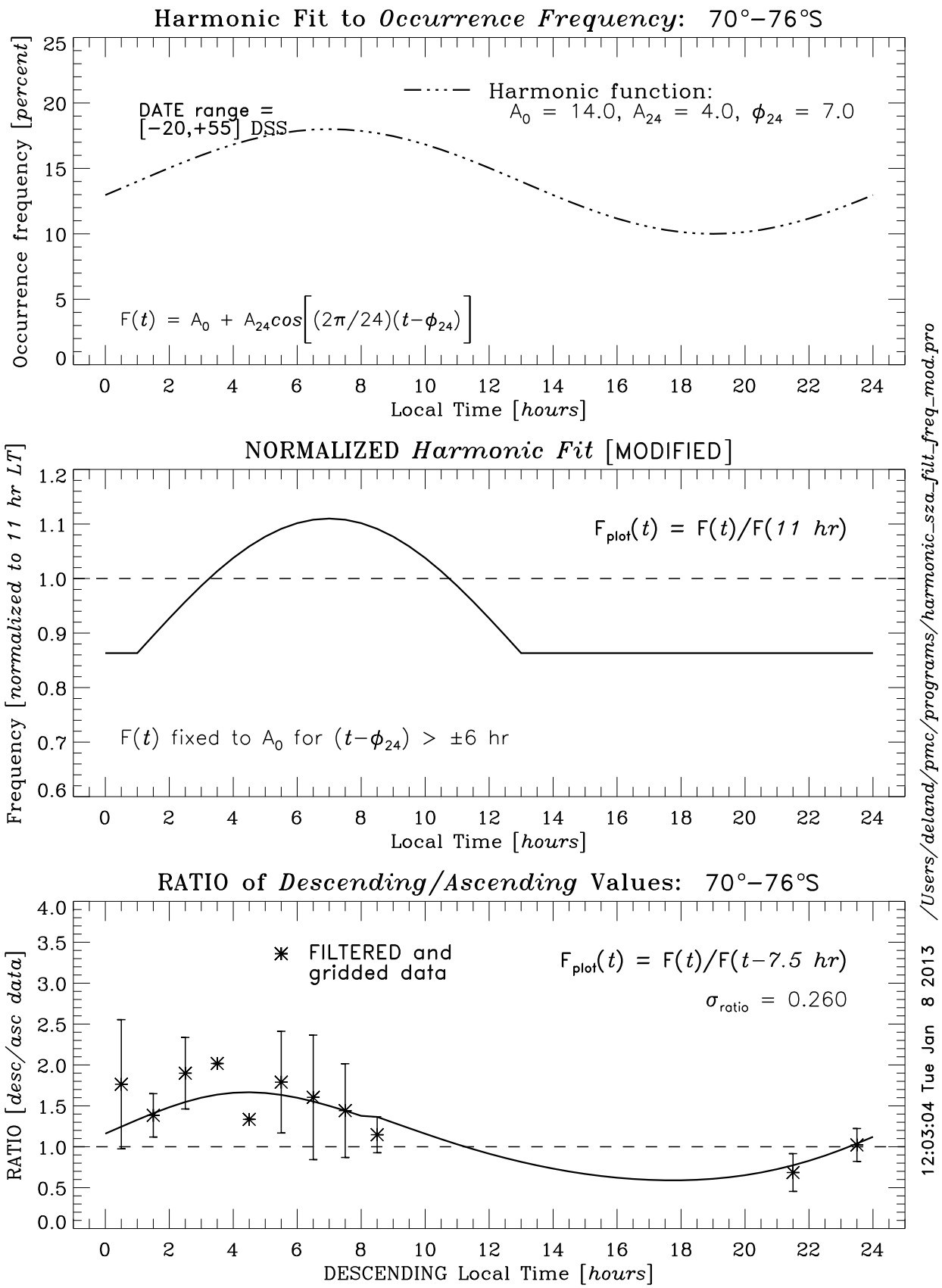

Harmonic Fit to Occurrence Frequency: 70°–76°N
Occurrence frequency [percent]
DATE range = [−20,+55] DSS
Harmonic function:
A0 = 14.0, A24 = 4.0, ϕ24 = 8.0
F(t) = A0 + A24cos[(2π/24)(t−ϕ24)]
Local Time [hours]
NORMALIZED Harmonic Fit [MODIFIED]
Frequency [normalized to 11 hr LT]
Fplot(t) = F(t)/F(11 hr)
F(t) fixed to A0 for (t−ϕ24) > ±6 hr
Local Time [hours]
RATIO of Descending/Ascending Values: 70°–76°N
RATIO [desc/asc data]
FILTERED and gridded data
Fplot(t) = F(t)/F(t+7.5 hr)
σratio = 0.252
DESCENDING Local Time [hours]
/Users/deland/pmc/programs/harmonic_sza_filt_freq_mod.pro
12:02:46 Tue Jan 8 2013


Harmonic Fit to Occurrence Frequency: 70°–76°S
Occurrence frequency [percent]
DATE range =
[−20,+55] DSS
Harmonic function:
A0 = 14.0, A24 = 4.0, ϕ24 = 7.0
F(t) = A0 + A24cos[(2π/24)(t−ϕ24)]
Local Time [hours]
NORMALIZED Harmonic Fit [MODIFIED]
Frequency [normalized to 11 hr LT]
Fplot(t) = F(t)/F(11 hr)
F(t) fixed to A0 for (t−ϕ24) > ±6 hr
Local Time [hours]
RATIO of Descending/Ascending Values: 70°–76°S
RATIO [desc/asc data]
FILTERED and gridded data
Fplot(t) = F(t)/F(t−7.5 hr)
σratio = 0.260
DESCENDING Local Time [hours]
/Users/deland/pmc/programs/harmonic_sza_filt_freq_mod.pro
12:03:04 Tue Jan 8 2013