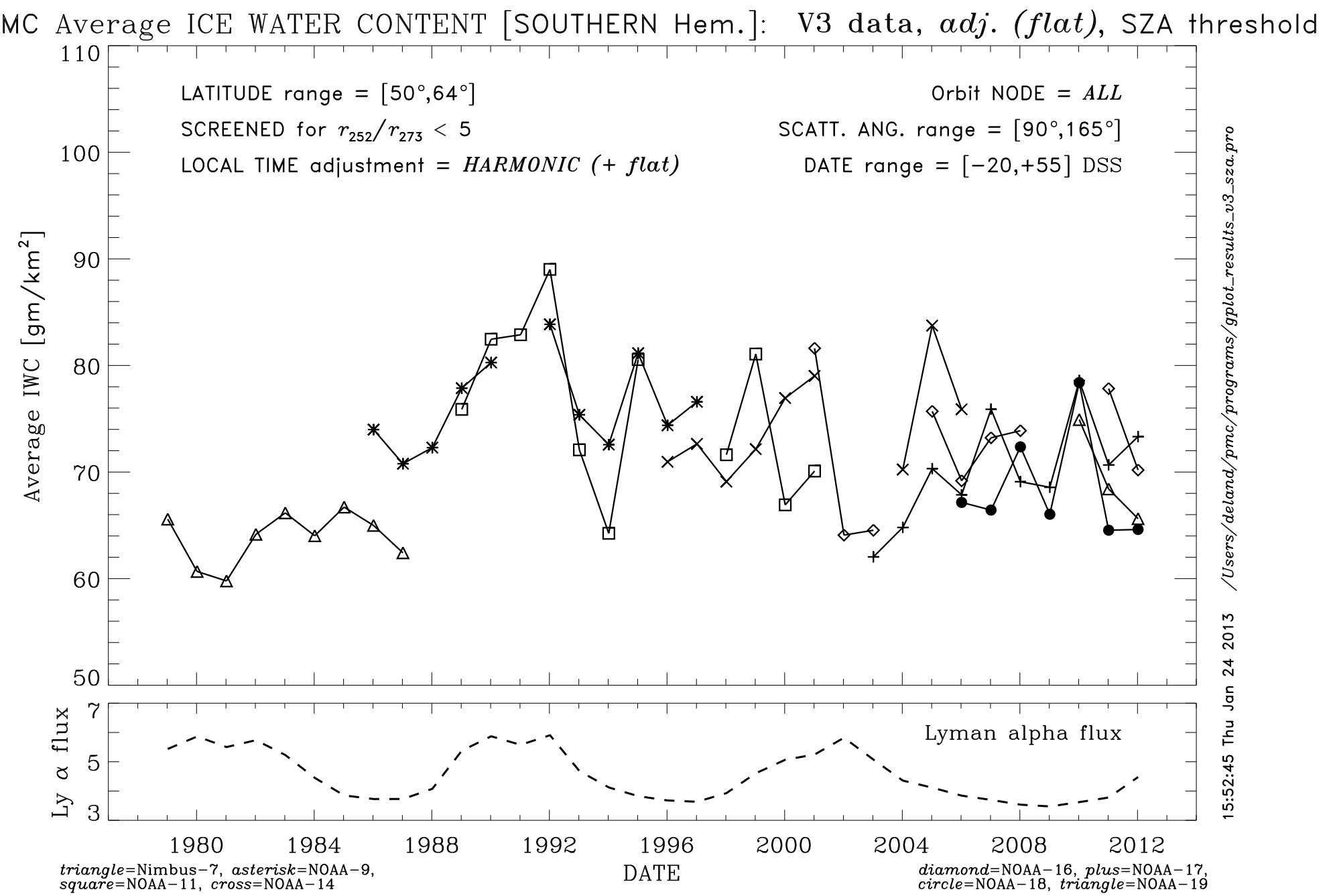
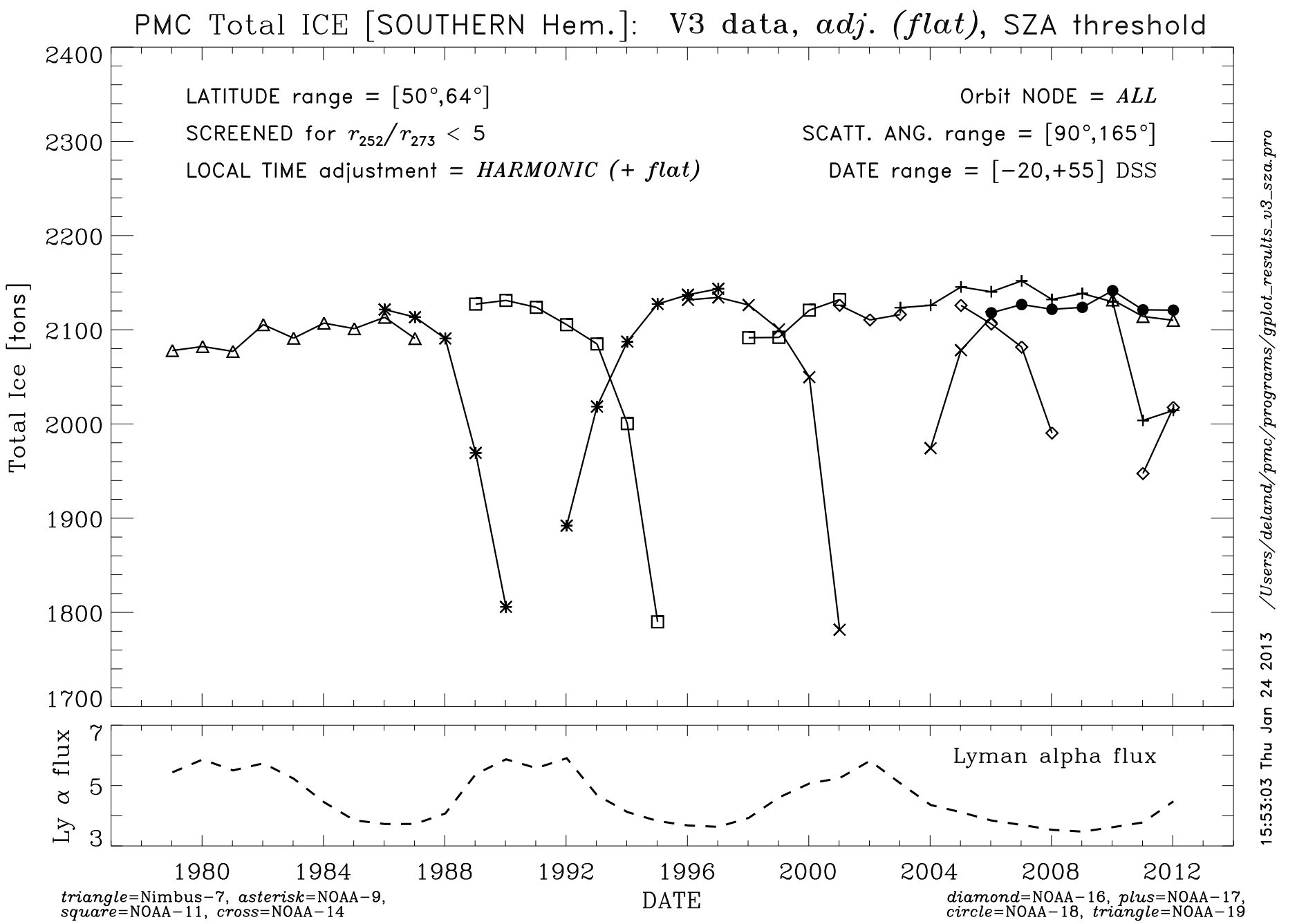
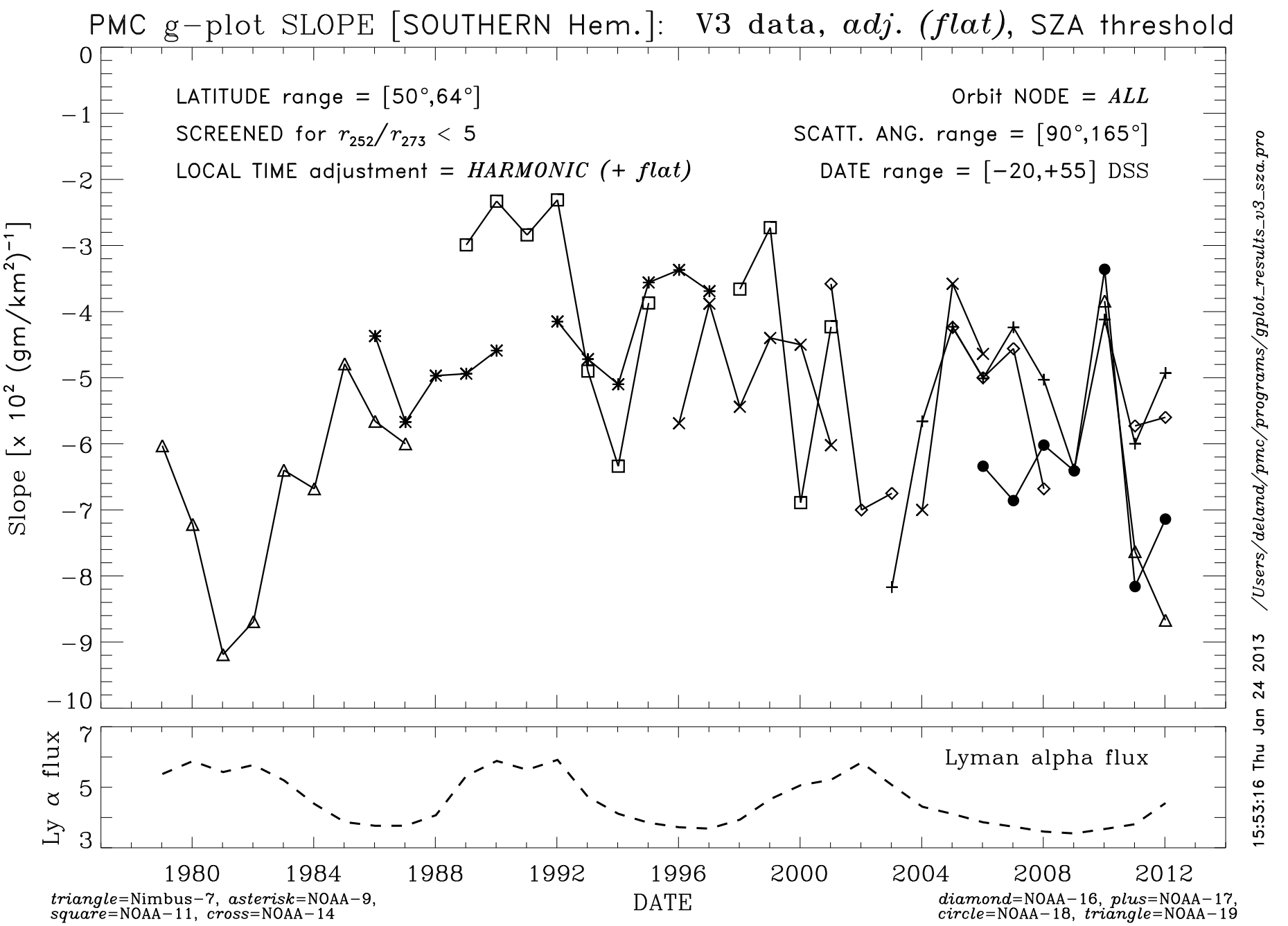
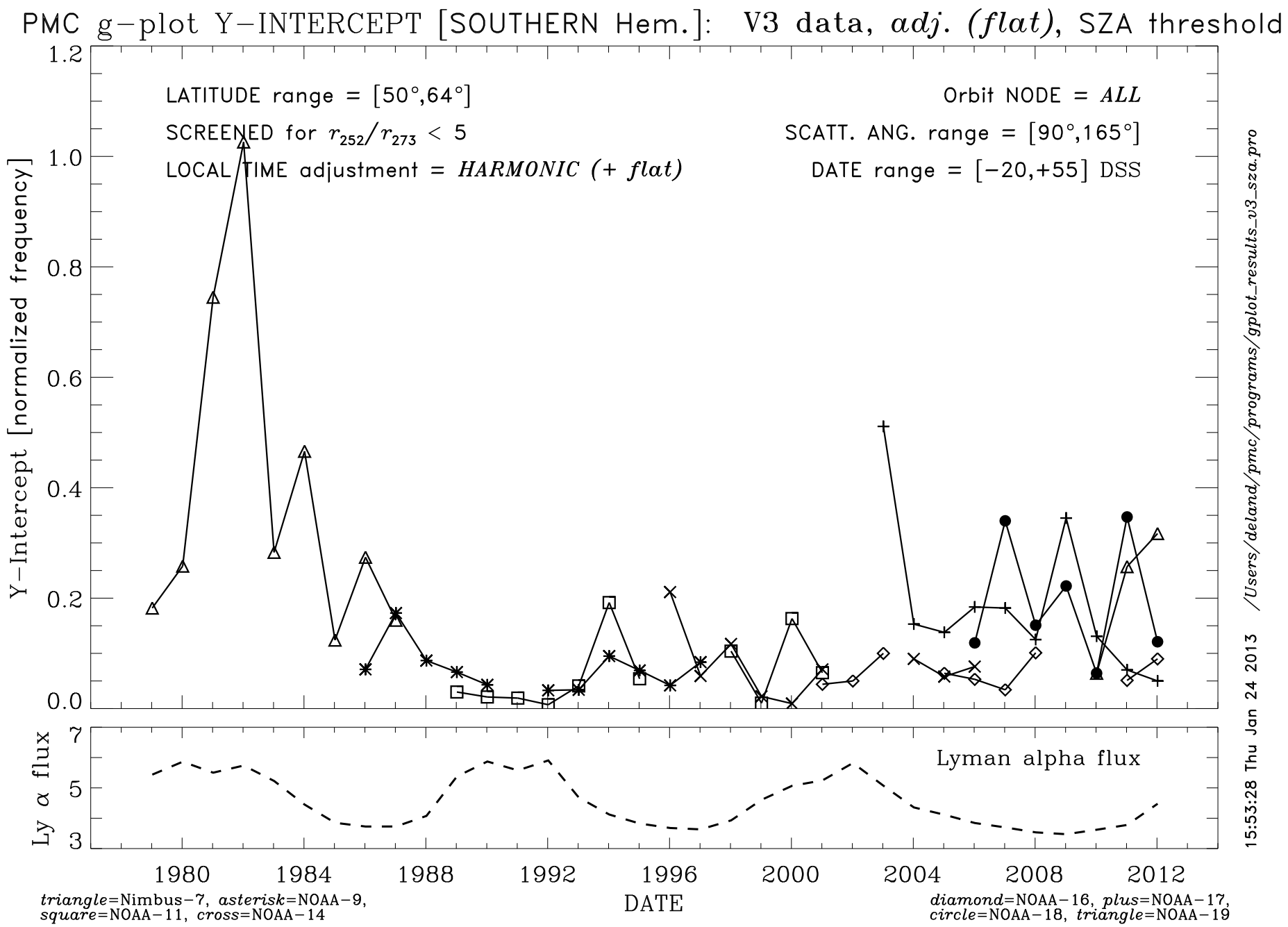
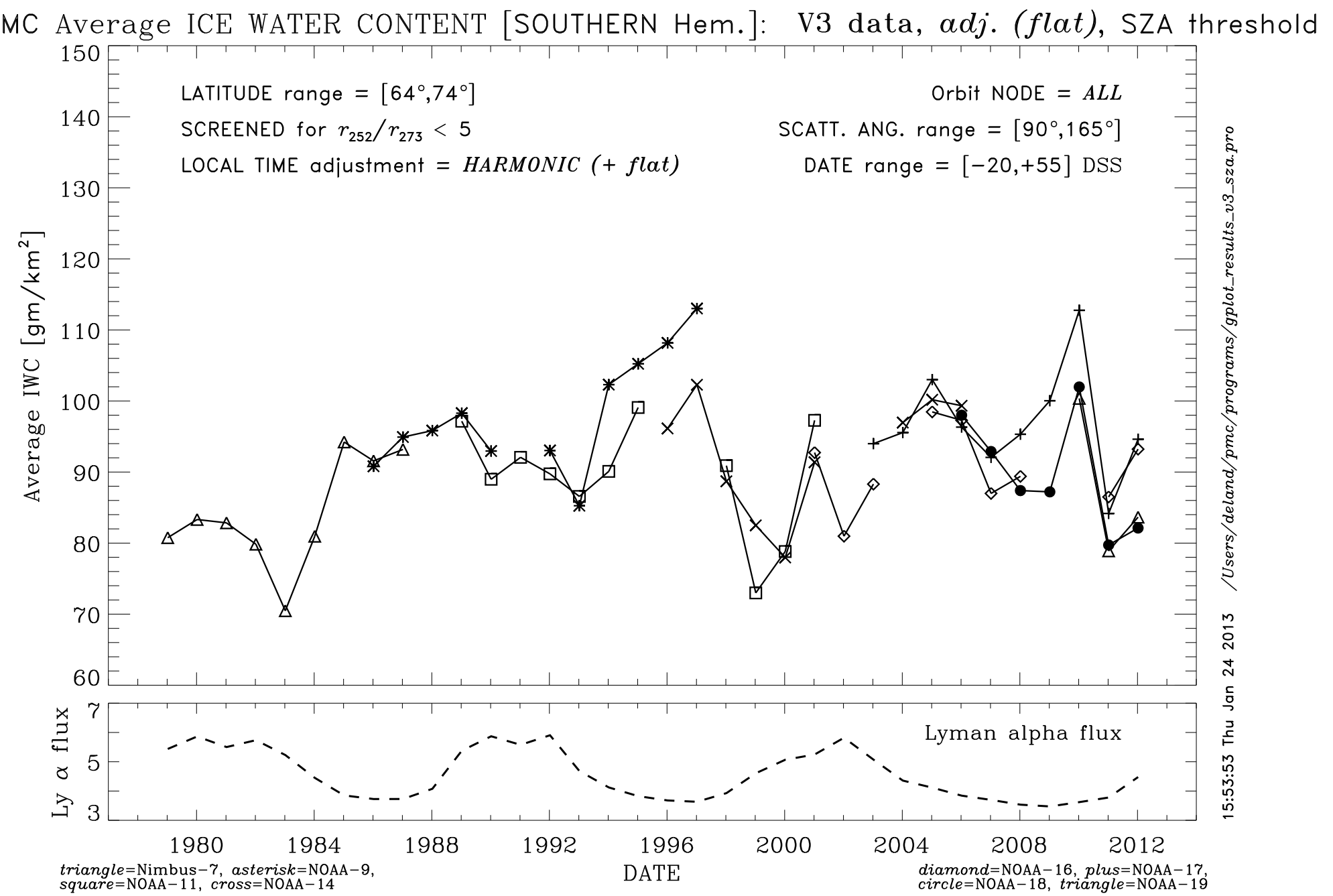
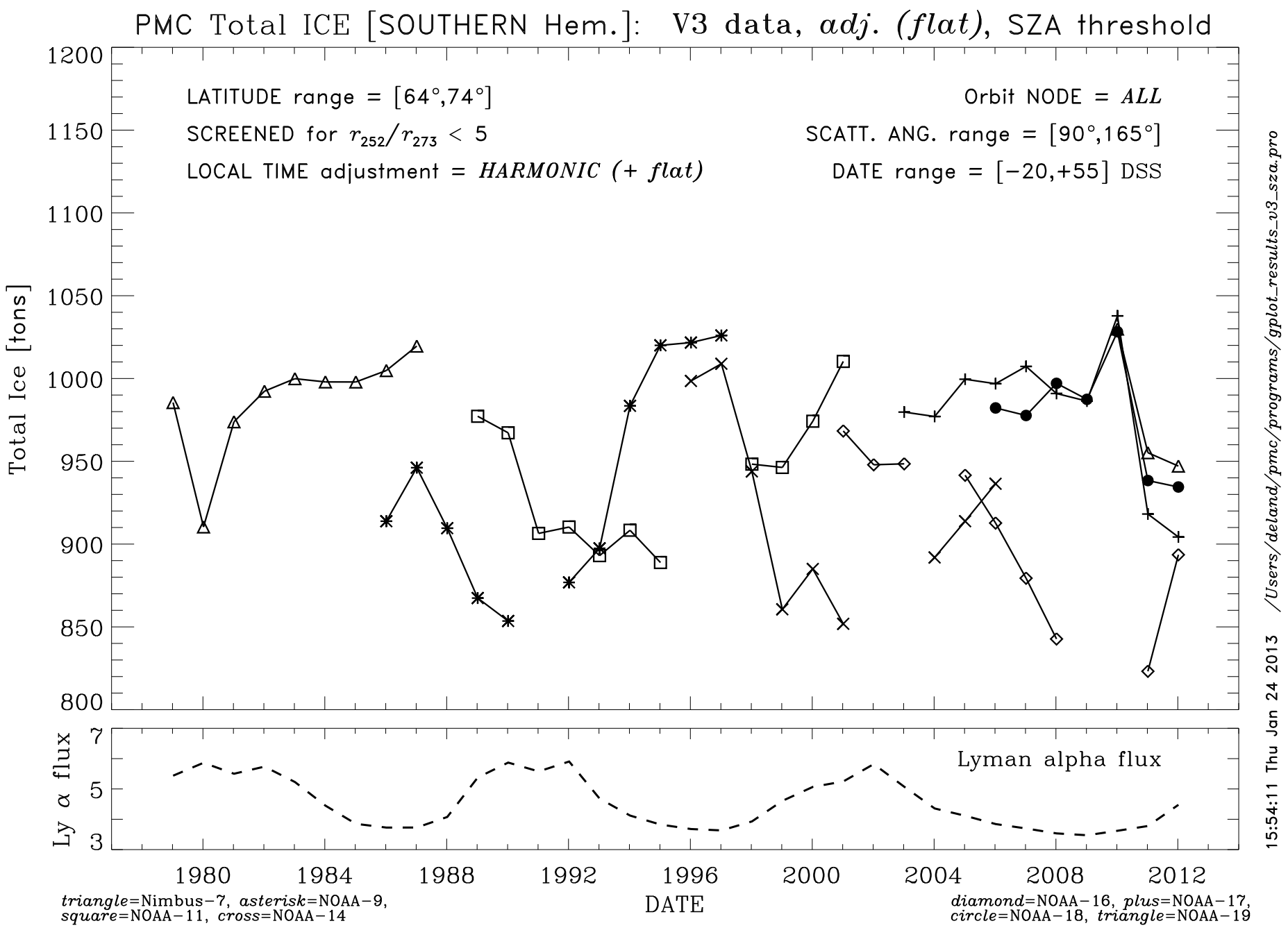

PMC Average ICE WATER CONTENT [SOUTHERN Hem.]: V3 data, adj. (flat), SZA threshold
LATITUDE range = [50°,64°]
SCREENED for $r_{252}/r_{273} < 5$
LOCAL TIME adjustment = HARMONIC (+ flat)
Orbit NODE = ALL
SCATT. ANG. range = [90°,165°]
DATE range = [−20,+55] DSS
Average IWC [gm/km^2]
110
100
90
80
70
60
50
Ly α flux
7
5
3
Lyman alpha flux
1980
1984
1988
1992
1996
2000
2004
2008
2012
DATE
triangle=Nimbus−7, asterisk=NOAA−9,
square=NOAA−11, cross=NOAA−14
diamond=NOAA−16, plus=NOAA−17,
circle=NOAA−18, triangle=NOAA−19
/Users/deland/pmc/programs/gplot_results_v3_sza.pro
15:52:45 Thu Jan 24 2013

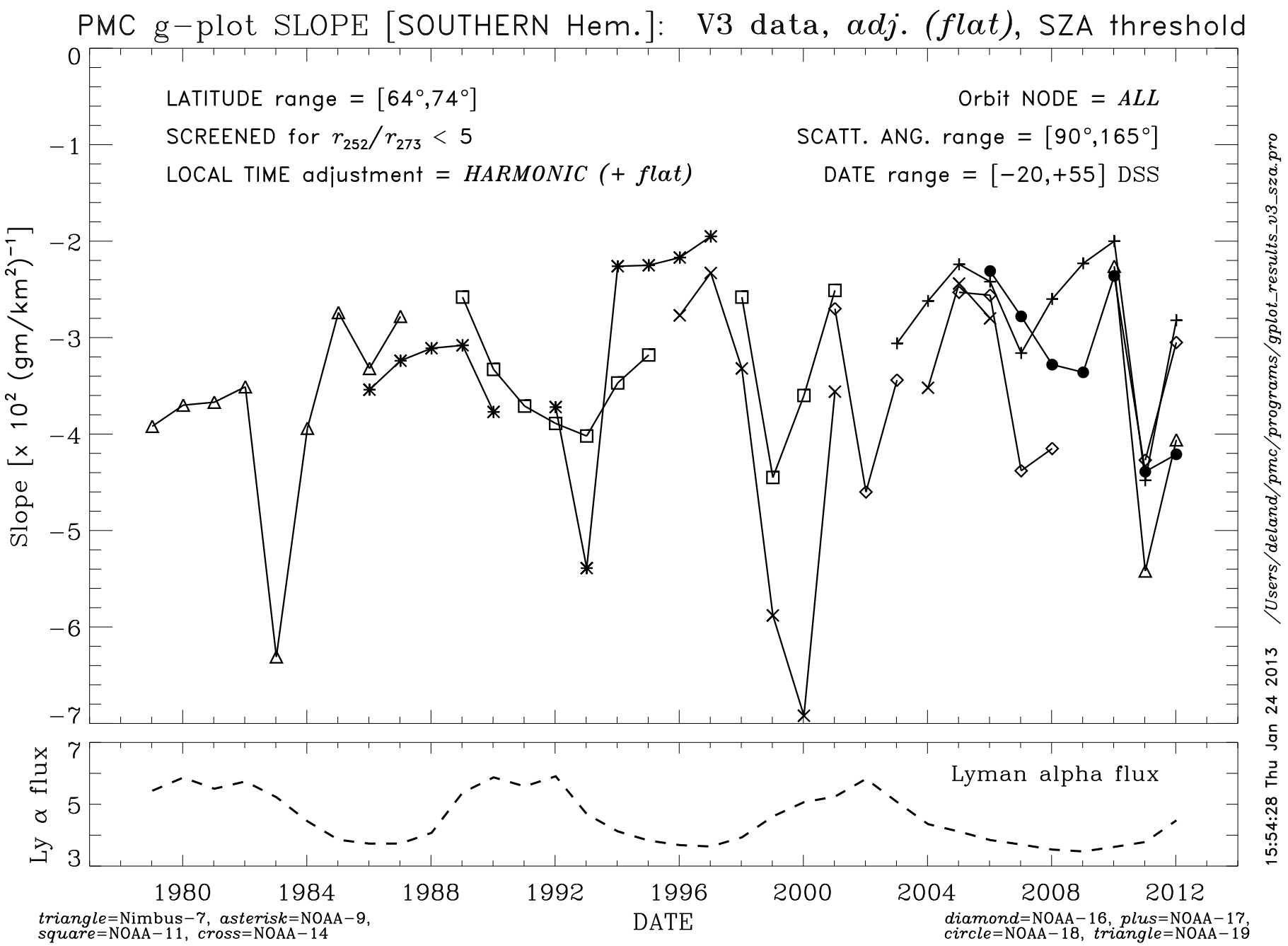

PMC Total ICE [SOUTHERN Hem.]: V3 data, adj. (flat), SZA threshold
LATITUDE range = [50°,64°]
SCREENED for r_{252}/r_{273} < 5
LOCAL TIME adjustment = HARMONIC (+ flat)
Orbit NODE = ALL
SCATT. ANG. range = [90°,165°]
DATE range = [−20,+55] DSS
Total Ice [tons]
2400
2300
2200
2100
2000
1900
1800
1700
Ly α flux
7
5
3
Lyman alpha flux
1980
1984
1988
1992
1996
2000
2004
2008
2012
DATE
triangle=Nimbus−7, asterisk=NOAA−9,
square=NOAA−11, cross=NOAA−14
diamond=NOAA−16, plus=NOAA−17,
circle=NOAA−18, triangle=NOAA−19
15:53:03 Thu Jan 24 2013 /Users/deland/pmc/programs/gplot_results_v3_sza.pro

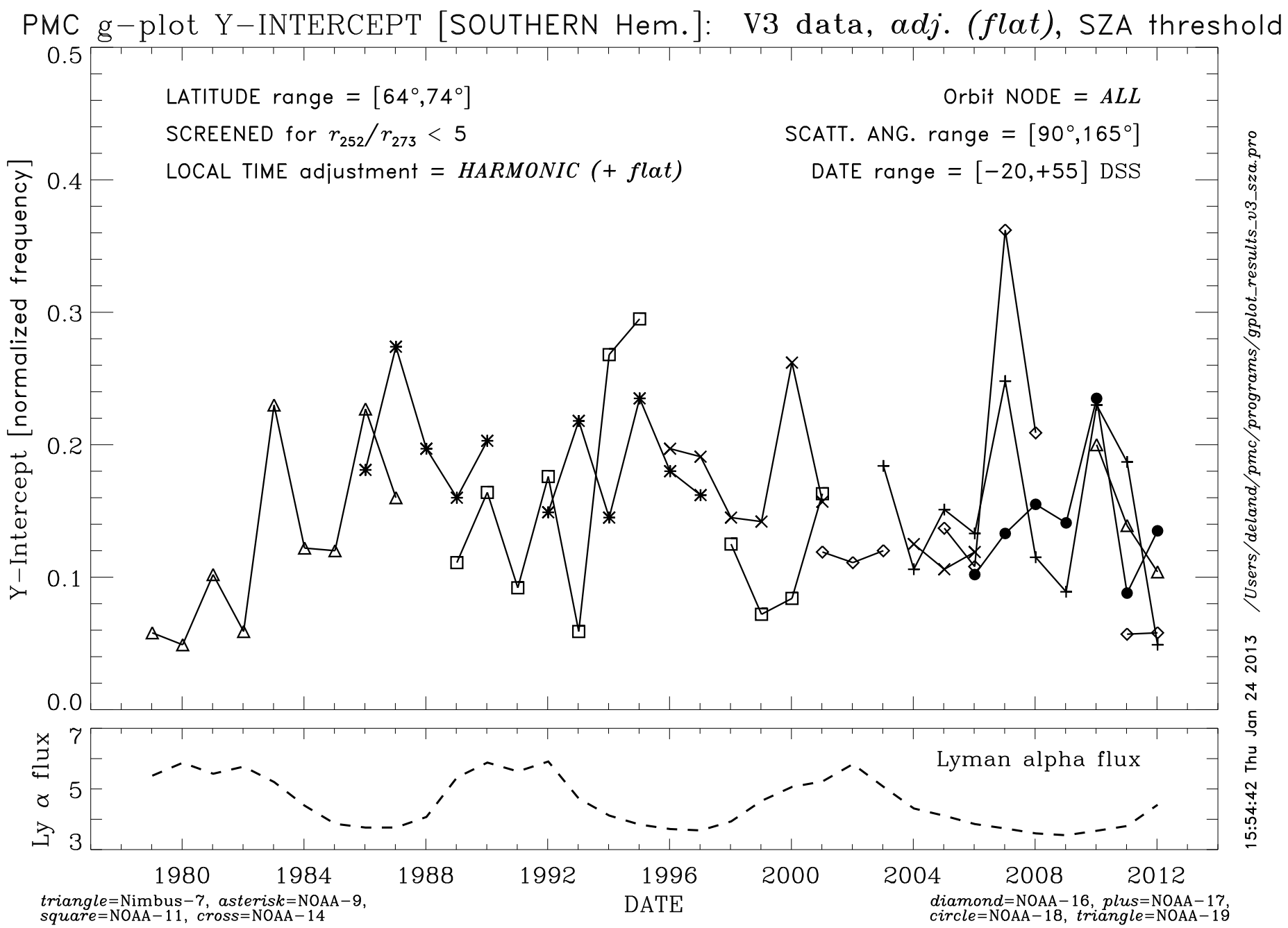

PMC g−plot SLOPE [SOUTHERN Hem.]: V3 data, adj. (flat), SZA threshold
LATITUDE range = [50°,64°]
SCREENED for r_{252}/r_{273} < 5
LOCAL TIME adjustment = HARMONIC (+ flat)
Orbit NODE = ALL
SCATT. ANG. range = [90°,165°]
DATE range = [−20,+55] DSS
Slope [x 10² (gm/km²)⁻¹]
0
−1
−2
−3
−4
−5
−6
−7
−8
−9
−10
Ly α flux
7
5
3
Lyman alpha flux
1980
1984
1988
1992
1996
2000
2004
2008
2012
DATE
triangle=Nimbus−7, asterisk=NOAA−9,
square=NOAA−11, cross=NOAA−14
diamond=NOAA−16, plus=NOAA−17,
circle=NOAA−18, triangle=NOAA−19
15:53:16 Thu Jan 24 2013 /Users/deland/pmc/programs/gplot_results_v3_sza.pro


PMC g−plot Y−INTERCEPT [SOUTHERN Hem.]: V3 data, adj. (flat), SZA threshold
LATITUDE range = [50°,64°]
SCREENED for r_{252}/r_{273} < 5
LOCAL TIME adjustment = HARMONIC (+ flat)
Orbit NODE = ALL
SCATT. ANG. range = [90°,165°]
DATE range = [−20,+55] DSS
Y−Intercept [normalized frequency]
1.2
1.0
0.8
0.6
0.4
0.2
0.0
Ly α flux
7
5
3
Lyman alpha flux
1980
1984
1988
1992
1996
2000
2004
2008
2012
DATE
triangle=Nimbus−7, asterisk=NOAA−9,
square=NOAA−11, cross=NOAA−14
diamond=NOAA−16, plus=NOAA−17,
circle=NOAA−18, triangle=NOAA−19
15:53:28 Thu Jan 24 2013 /Users/deland/pmc/programs/gplot_results_v3_sza.pro


PMC Average ICE WATER CONTENT [SOUTHERN Hem.]: V3 data, adj. (flat), SZA threshold
LATITUDE range = [64°,74°]
SCREENED for $r_{252}/r_{273} < 5$
LOCAL TIME adjustment = HARMONIC (+ flat)
Orbit NODE = ALL
SCATT. ANG. range = [90°,165°]
DATE range = [−20,+55] DSS
Average IWC [gm/km^2]
150
140
130
120
110
100
90
80
70
60
Ly α flux
7
5
3
Lyman alpha flux
1980
1984
1988
1992
1996
2000
2004
2008
2012
DATE
triangle=Nimbus−7, asterisk=NOAA−9,
square=NOAA−11, cross=NOAA−14
diamond=NOAA−16, plus=NOAA−17,
circle=NOAA−18, triangle=NOAA−19
/Users/deland/pmc/programs/gplot_results_v3_sza.pro
15:53:53 Thu Jan 24 2013


PMC Total ICE [SOUTHERN Hem.]: V3 data, adj. (flat), SZA threshold
LATITUDE range = [64°,74°]
SCREENED for r_{252}/r_{273} < 5
LOCAL TIME adjustment = HARMONIC (+ flat)
Orbit NODE = ALL
SCATT. ANG. range = [90°,165°]
DATE range = [−20,+55] DSS
Total Ice [tons]
1200
1150
1100
1050
1000
950
900
850
800
Ly α flux
7
5
3
Lyman alpha flux
1980
1984
1988
1992
1996
2000
2004
2008
2012
DATE
triangle=Nimbus−7, asterisk=NOAA−9,
square=NOAA−11, cross=NOAA−14
diamond=NOAA−16, plus=NOAA−17,
circle=NOAA−18, triangle=NOAA−19
15:54:11 Thu Jan 24 2013 /Users/deland/pmc/programs/gplot_results_v3_sza.pro


PMC g−plot SLOPE [SOUTHERN Hem.]: V3 data, adj. (flat), SZA threshold
LATITUDE range = [64°,74°]
SCREENED for r_{252}/r_{273} < 5
LOCAL TIME adjustment = HARMONIC (+ flat)
Orbit NODE = ALL
SCATT. ANG. range = [90°,165°]
DATE range = [−20,+55] DSS
Slope [x 10² (gm/km²)⁻¹]
0
−1
−2
−3
−4
−5
−6
−7
Ly α flux
7
5
3
Lyman alpha flux
1980
1984
1988
1992
1996
2000
2004
2008
2012
DATE
triangle=Nimbus−7, asterisk=NOAA−9,
square=NOAA−11, cross=NOAA−14
diamond=NOAA−16, plus=NOAA−17,
circle=NOAA−18, triangle=NOAA−19
/Users/deland/pmc/programs/gplot_results_v3_sza.pro
15:54:28 Thu Jan 24 2013


PMC g−plot Y−INTERCEPT [SOUTHERN Hem.]: V3 data, adj. (flat), SZA threshold
LATITUDE range = [64°,74°]
SCREENED for r_{252}/r_{273} < 5
LOCAL TIME adjustment = HARMONIC (+ flat)
Orbit NODE = ALL
SCATT. ANG. range = [90°,165°]
DATE range = [−20,+55] DSS
Y−Intercept [normalized frequency]
0.0
0.1
0.2
0.3
0.4
0.5
Ly α flux
3
5
7
Lyman alpha flux
1980
1984
1988
1992
1996
2000
2004
2008
2012
DATE
triangle=Nimbus−7, asterisk=NOAA−9,
square=NOAA−11, cross=NOAA−14
diamond=NOAA−16, plus=NOAA−17,
circle=NOAA−18, triangle=NOAA−19
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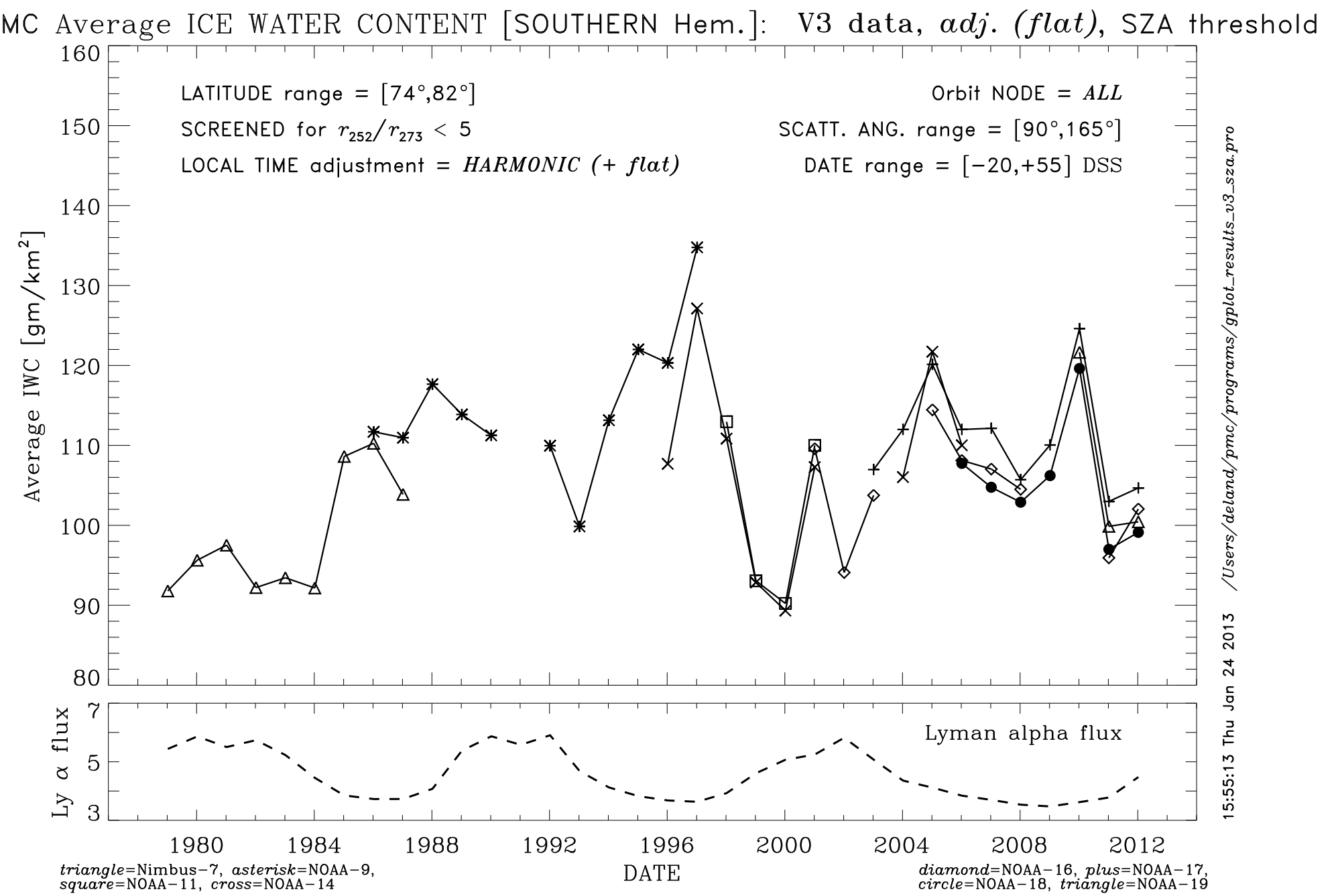
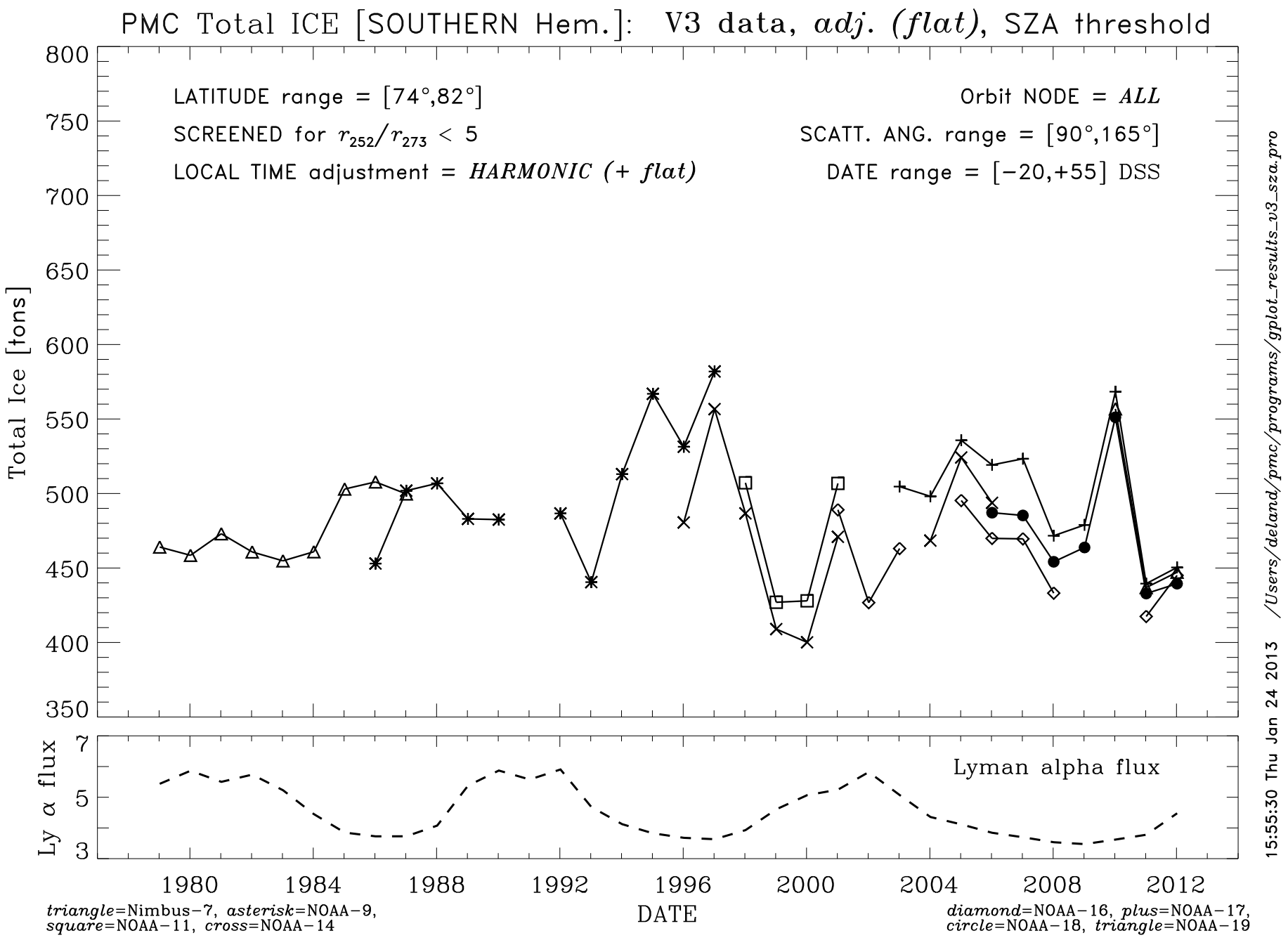
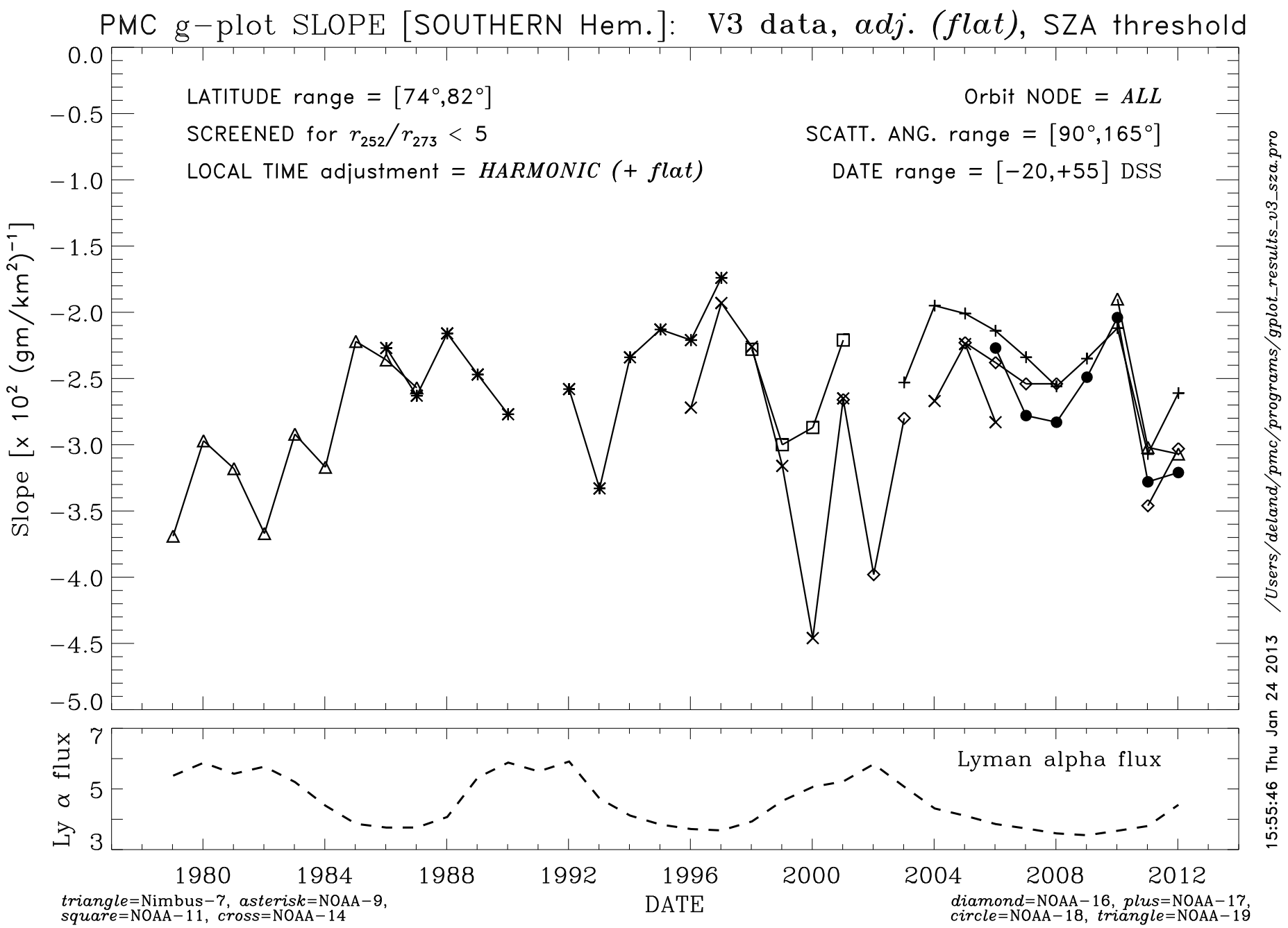
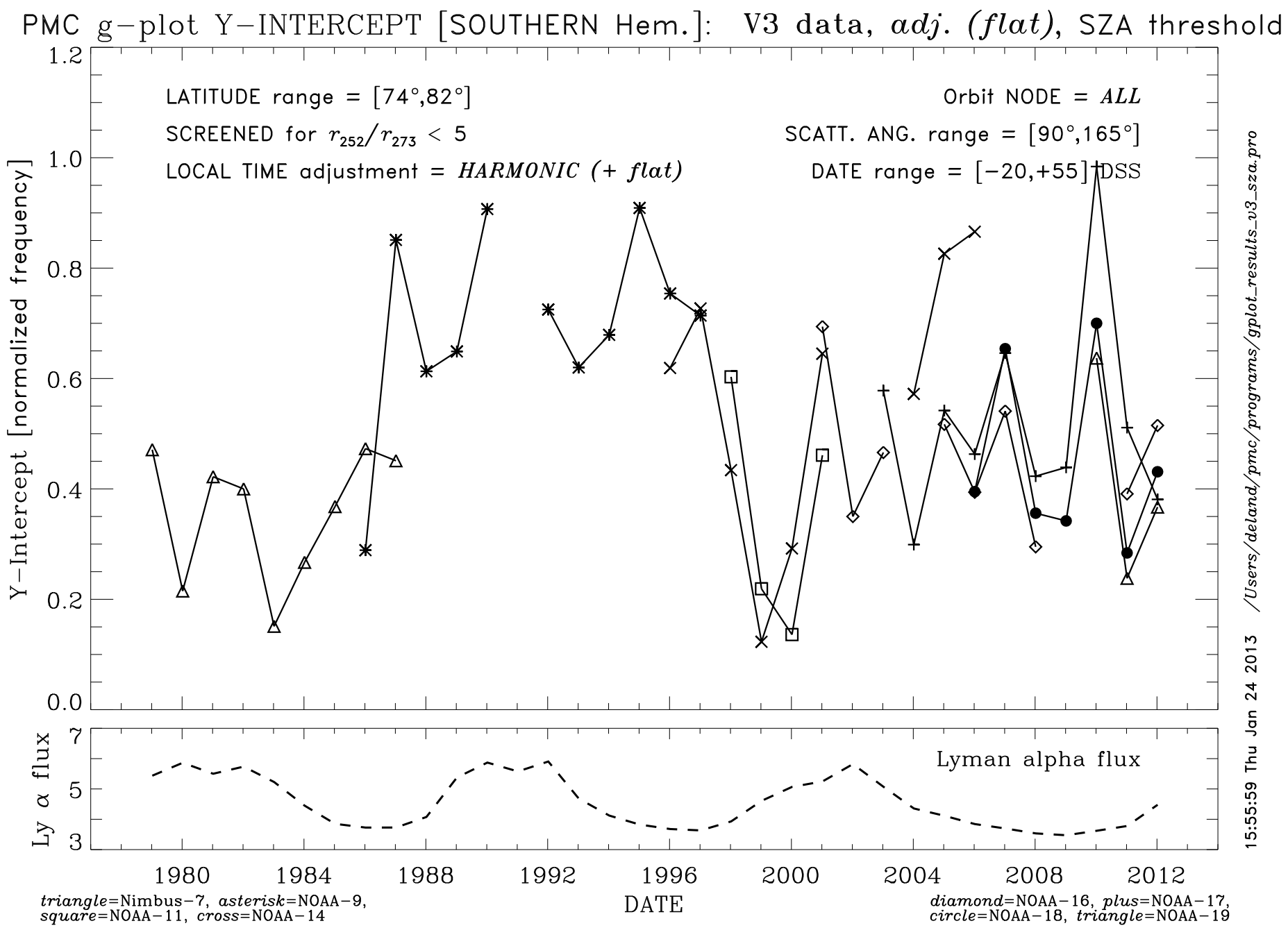
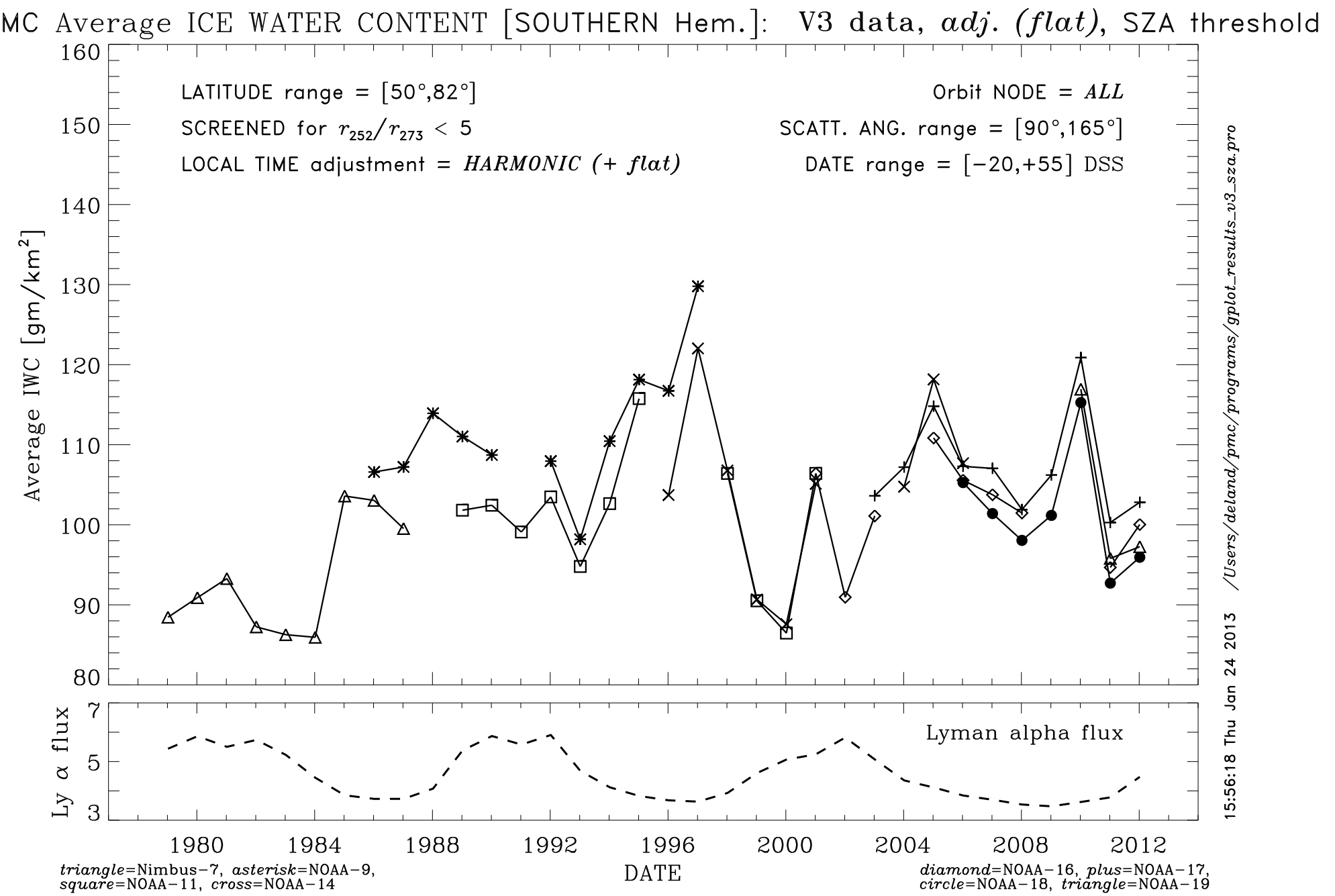
15:54:42 Thu Jan 24 2013

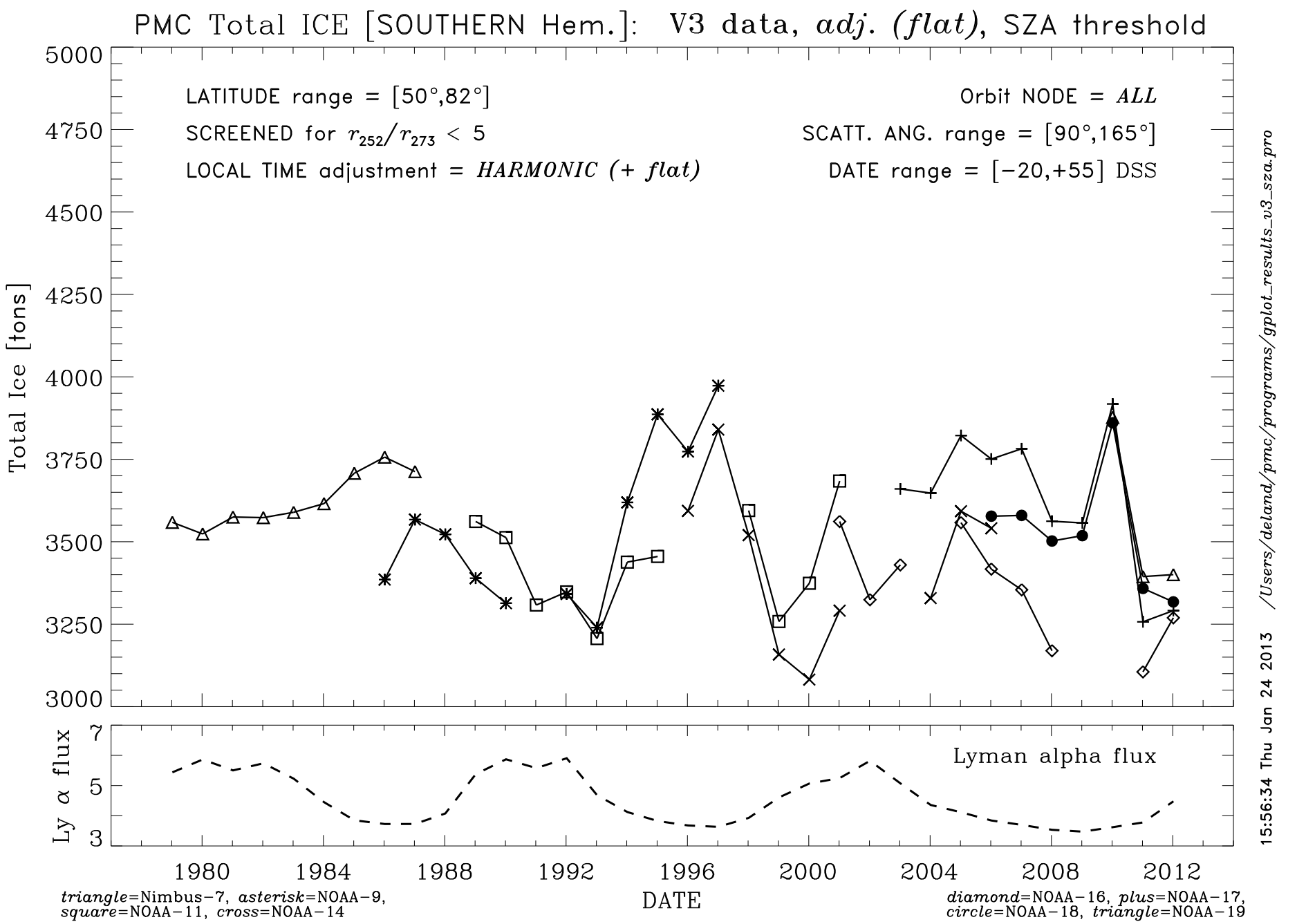

PMC Average ICE WATER CONTENT [SOUTHERN Hem.]: V3 data, adj. (flat), SZA threshold
LATITUDE range = [74°,82°]
SCREENED for r_{252}/r_{273} < 5
LOCAL TIME adjustment = HARMONIC (+ flat)
Orbit NODE = ALL
SCATT. ANG. range = [90°,165°]
DATE range = [−20,+55] DSS
Average IWC [gm/km^2]
160
150
140
130
120
110
100
90
80
Ly α flux
7
5
3
Lyman alpha flux
1980
1984
1988
1992
1996
2000
2004
2008
2012
DATE
triangle=Nimbus−7, asterisk=NOAA−9,
square=NOAA−11, cross=NOAA−14
diamond=NOAA−16, plus=NOAA−17,
circle=NOAA−18, triangle=NOAA−19
/Users/deland/pmc/programs/gplot_results_v3_sza.pro
15:55:13 Thu Jan 24 2013

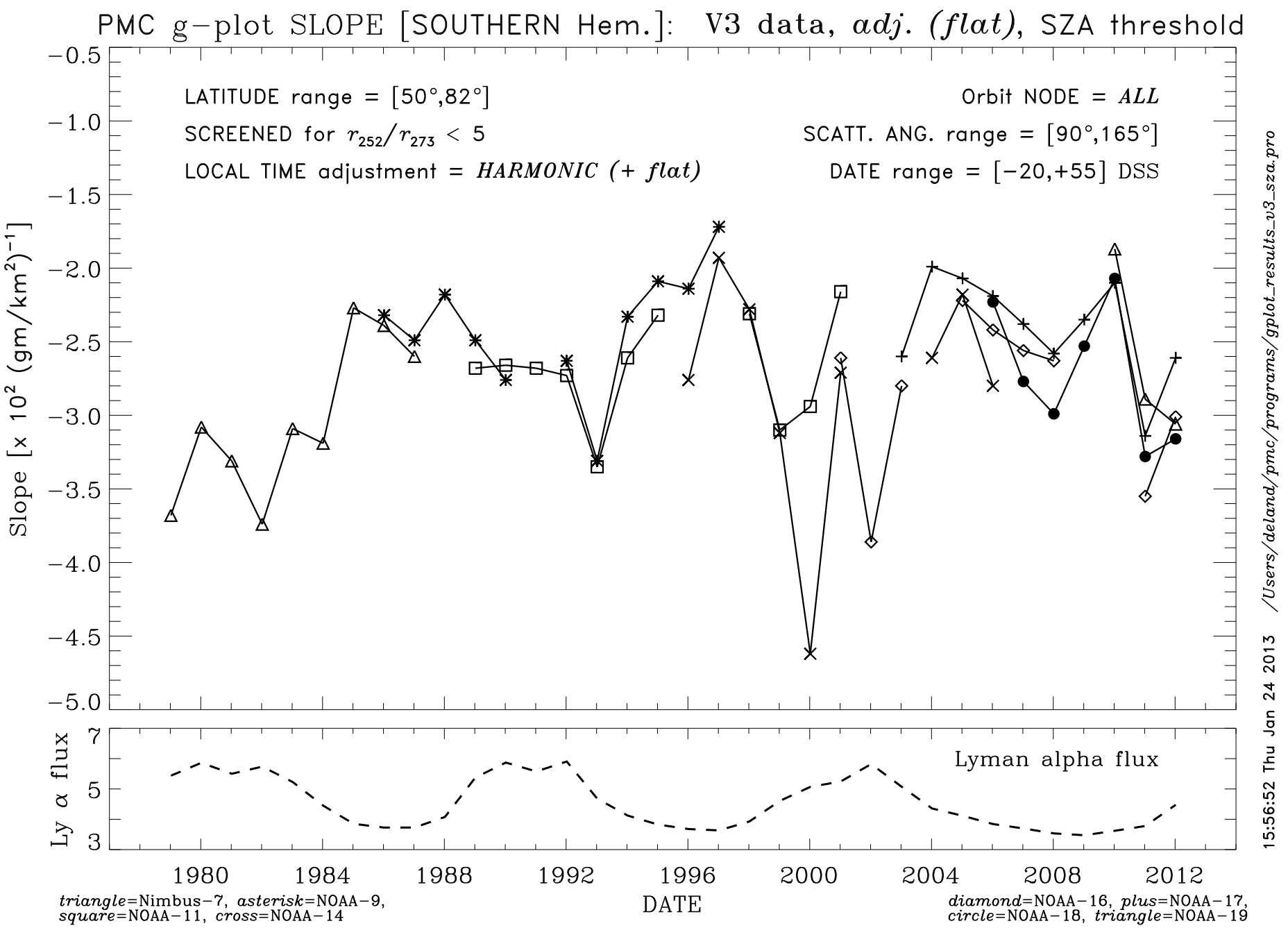

PMC Total ICE [SOUTHERN Hem.]: V3 data, adj. (flat), SZA threshold
LATITUDE range = [74°,82°]
SCREENED for $r_{252}/r_{273} < 5$
LOCAL TIME adjustment = HARMONIC (+ flat)
Orbit NODE = ALL
SCATT. ANG. range = [90°,165°]
DATE range = [−20,+55] DSS
Total Ice [tons]
800
750
700
650
600
550
500
450
400
350
Ly α flux
7
5
3
Lyman alpha flux
1980
1984
1988
1992
1996
2000
2004
2008
2012
DATE
triangle=Nimbus−7, asterisk=NOAA−9,
square=NOAA−11, cross=NOAA−14
diamond=NOAA−16, plus=NOAA−17,
circle=NOAA−18, triangle=NOAA−19
/Users/deland/pmc/programs/gplot_results_v3_sza.pro
15:55:30 Thu Jan 24 2013

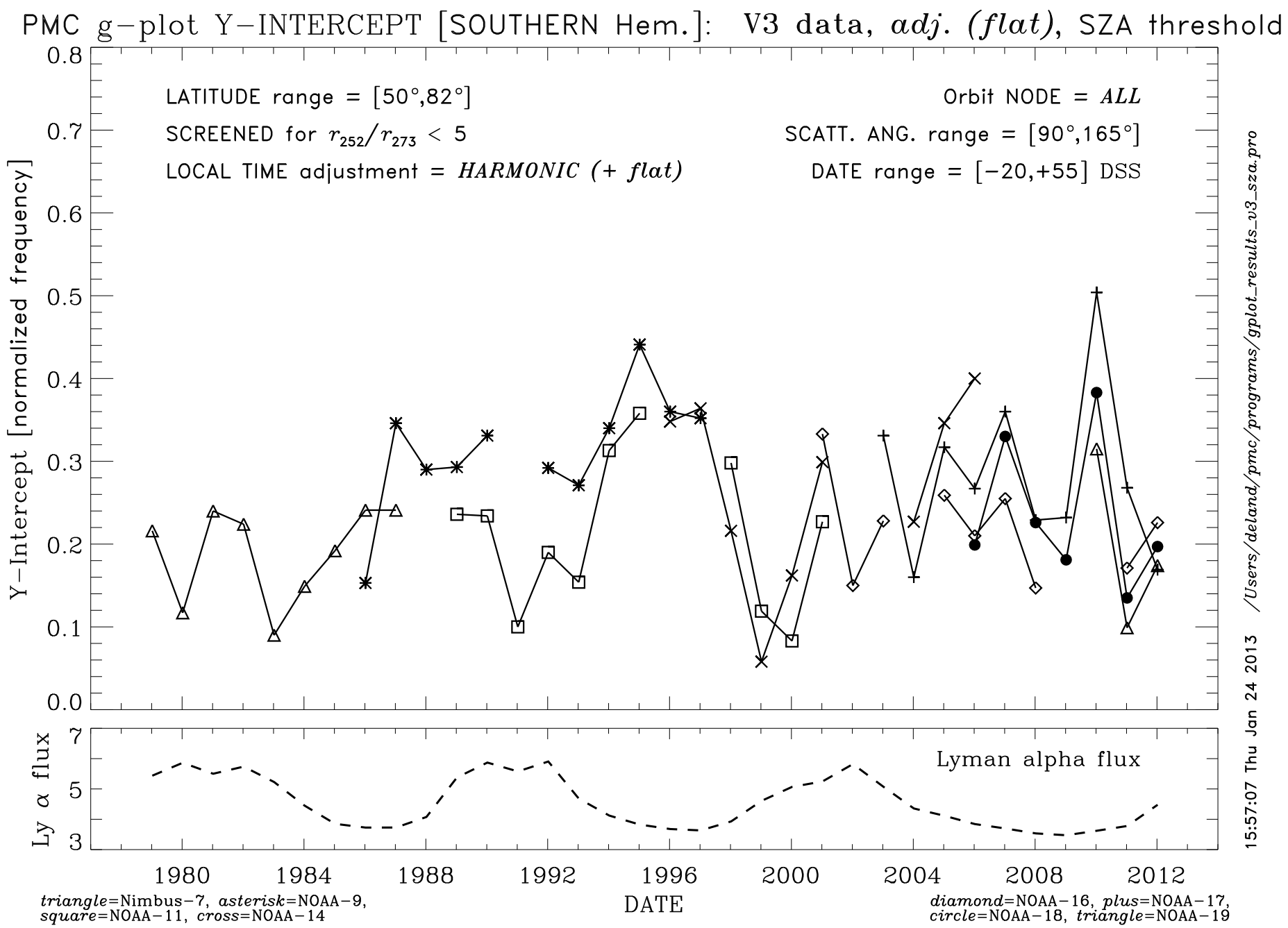

PMC g−plot SLOPE [SOUTHERN Hem.]: V3 data, adj. (flat), SZA threshold
LATITUDE range = [74°,82°]
SCREENED for r_{252}/r_{273} < 5
LOCAL TIME adjustment = HARMONIC (+ flat)
Orbit NODE = ALL
SCATT. ANG. range = [90°,165°]
DATE range = [−20,+55] DSS
Slope [x 10² (gm/km²)⁻¹]
0.0
−0.5
−1.0
−1.5
−2.0
−2.5
−3.0
−3.5
−4.0
−4.5
−5.0
Ly α flux
7
5
3
Lyman alpha flux
1980
1984
1988
1992
1996
2000
2004
2008
2012
DATE
triangle=Nimbus−7, asterisk=NOAA−9,
square=NOAA−11, cross=NOAA−14
diamond=NOAA−16, plus=NOAA−17,
circle=NOAA−18, triangle=NOAA−19
/Users/deland/pmc/programs/gplot_results_v3_sza.pro
15:55:46 Thu Jan 24 2013


PMC g−plot Y−INTERCEPT [SOUTHERN Hem.]: V3 data, adj. (flat), SZA threshold
LATITUDE range = [74°,82°]
SCREENED for r_{252}/r_{273} < 5
LOCAL TIME adjustment = HARMONIC (+ flat)
Orbit NODE = ALL
SCATT. ANG. range = [90°,165°]
DATE range = [−20,+55] DSS
Y−Intercept [normalized frequency]
1.2
1.0
0.8
0.6
0.4
0.2
0.0
Ly α flux
7
5
3
Lyman alpha flux
1980
1984
1988
1992
1996
2000
2004
2008
2012
DATE
triangle=Nimbus−7, asterisk=NOAA−9,
square=NOAA−11, cross=NOAA−14
diamond=NOAA−16, plus=NOAA−17,
circle=NOAA−18, triangle=NOAA−19
15:55:59 Thu Jan 24 2013 /Users/deland/pmc/programs/gplot_results_v3_sza.pro


PMC Average ICE WATER CONTENT [SOUTHERN Hem.]: V3 data, adj. (flat), SZA threshold
LATITUDE range = [50°,82°]
SCREENED for r_{252}/r_{273} < 5
LOCAL TIME adjustment = HARMONIC (+ flat)
Orbit NODE = ALL
SCATT. ANG. range = [90°,165°]
DATE range = [−20,+55] DSS
Average IWC [gm/km^2]
160
150
140
130
120
110
100
90
80
Ly α flux
7
5
3
Lyman alpha flux
1980
1984
1988
1992
1996
2000
2004
2008
2012
DATE
triangle=Nimbus−7, asterisk=NOAA−9,
square=NOAA−11, cross=NOAA−14
diamond=NOAA−16, plus=NOAA−17,
circle=NOAA−18, triangle=NOAA−19
/Users/deland/pmc/programs/gplot_results_v3_sza.pro
15:56:18 Thu Jan 24 2013


PMC Total ICE [SOUTHERN Hem.]: V3 data, adj. (flat), SZA threshold
LATITUDE range = [50°,82°]
SCREENED for $r_{252}/r_{273} < 5$
LOCAL TIME adjustment = HARMONIC (+ flat)
Orbit NODE = ALL
SCATT. ANG. range = [90°,165°]
DATE range = [−20,+55] DSS
Total Ice [tons]
5000
4750
4500
4250
4000
3750
3500
3250
3000
Ly α flux
7
5
3
Lyman alpha flux
1980
1984
1988
1992
1996
2000
2004
2008
2012
DATE
triangle=Nimbus−7, asterisk=NOAA−9,
square=NOAA−11, cross=NOAA−14
diamond=NOAA−16, plus=NOAA−17,
circle=NOAA−18, triangle=NOAA−19
15:56:34 Thu Jan 24 2013 /Users/deland/pmc/programs/gplot_results_v3_sza.pro


PMC g−plot SLOPE [SOUTHERN Hem.]: V3 data, adj. (flat), SZA threshold
LATITUDE range = [50°,82°]
SCREENED for r_{252}/r_{273} < 5
LOCAL TIME adjustment = HARMONIC (+ flat)
Orbit NODE = ALL
SCATT. ANG. range = [90°,165°]
DATE range = [−20,+55] DSS
Slope [x 10² (gm/km²)⁻¹]
−0.5
−1.0
−1.5
−2.0
−2.5
−3.0
−3.5
−4.0
−4.5
−5.0
Ly α flux
7
5
3
Lyman alpha flux
1980
1984
1988
1992
1996
2000
2004
2008
2012
DATE
triangle=Nimbus−7, asterisk=NOAA−9,
square=NOAA−11, cross=NOAA−14
diamond=NOAA−16, plus=NOAA−17,
circle=NOAA−18, triangle=NOAA−19
/Users/deland/pmc/programs/gplot_results_v3_sza.pro
15:56:52 Thu Jan 24 2013


PMC g−plot Y−INTERCEPT [SOUTHERN Hem.]: V3 data, adj. (flat), SZA threshold
LATITUDE range = [50°,82°]
SCREENED for r_{252}/r_{273} < 5
LOCAL TIME adjustment = HARMONIC (+ flat)
Orbit NODE = ALL
SCATT. ANG. range = [90°,165°]
DATE range = [−20,+55] DSS
Y−Intercept [normalized frequency]
0.0
0.1
0.2
0.3
0.4
0.5
0.6
0.7
0.8
Ly α flux
3
5
7
Lyman alpha flux
1980
1984
1988
1992
1996
2000
2004
2008
2012
DATE
triangle=Nimbus−7, asterisk=NOAA−9,
square=NOAA−11, cross=NOAA−14
diamond=NOAA−16, plus=NOAA−17,
circle=NOAA−18, triangle=NOAA−19
/Users/deland/pmc/programs/gplot_results_v3_sza.pro
15:57:07 Thu Jan 24 2013