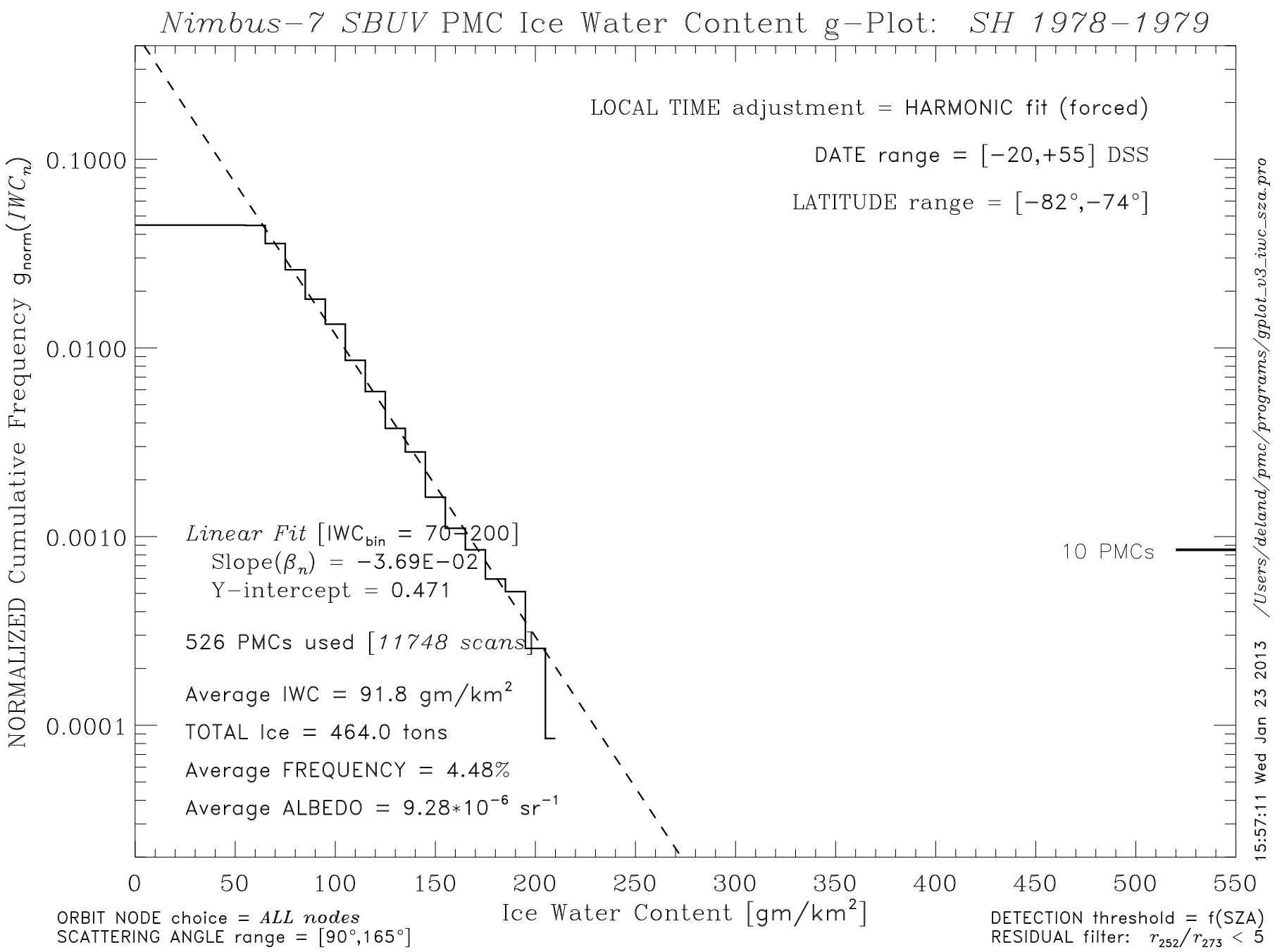
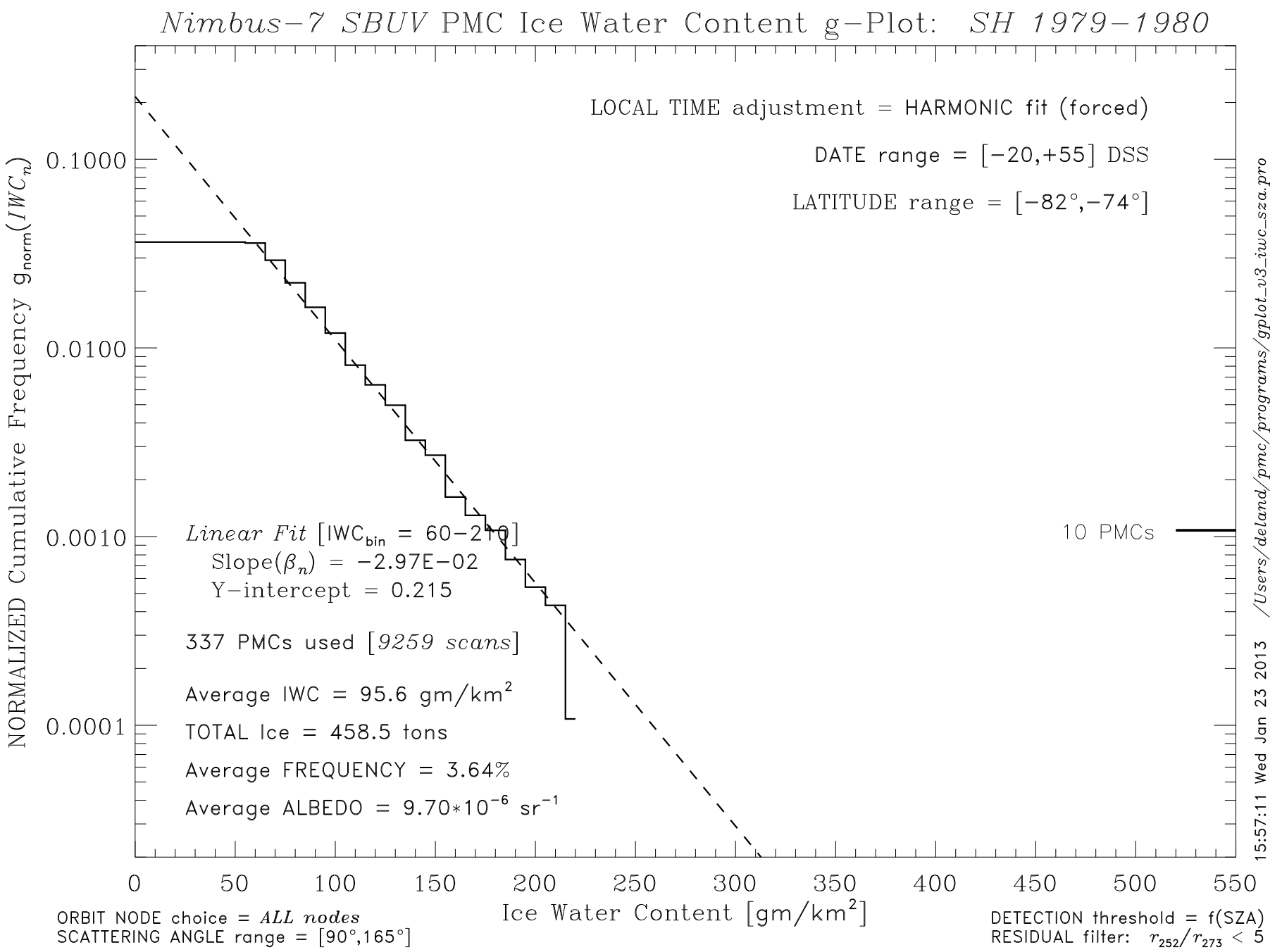
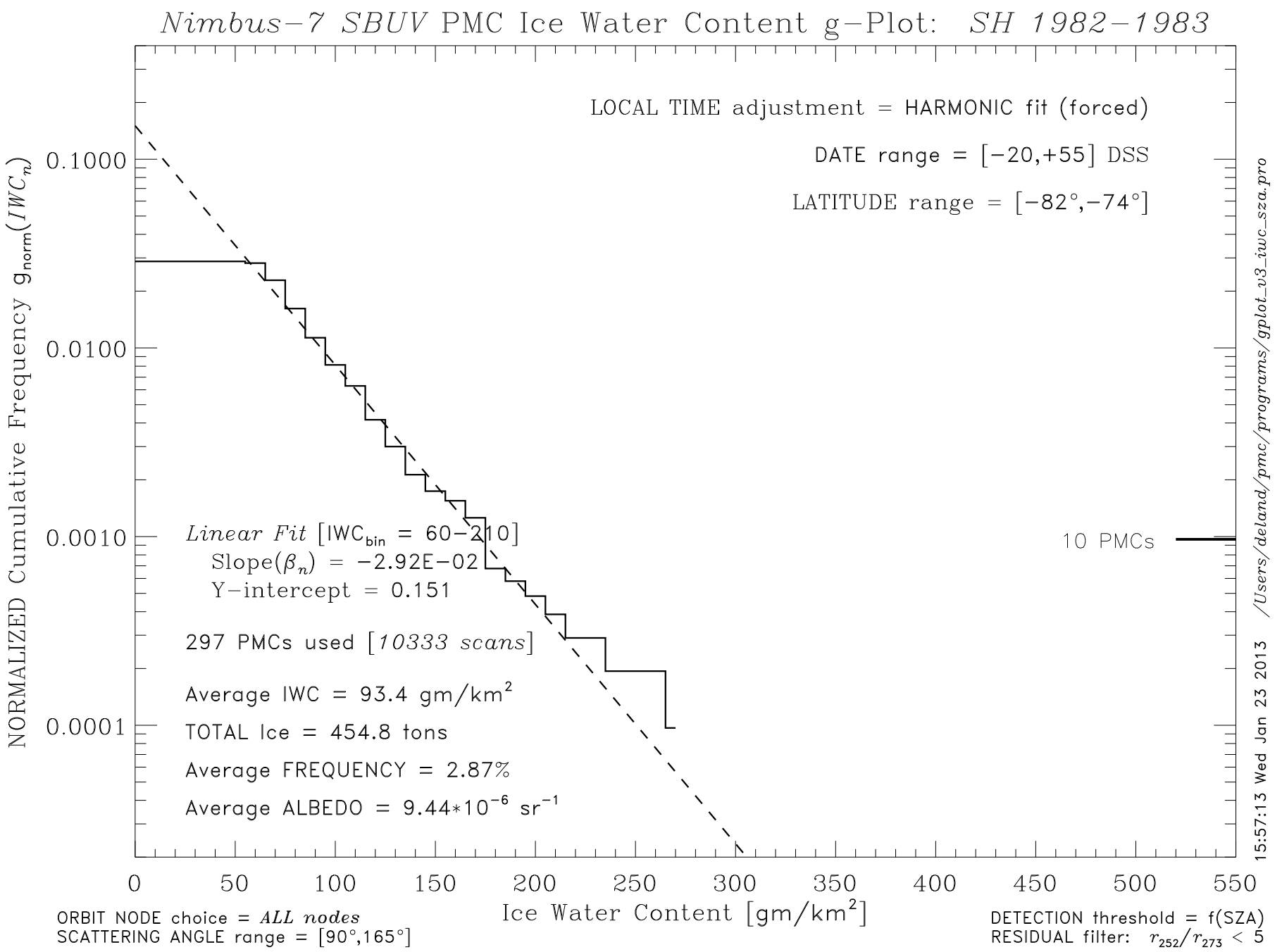
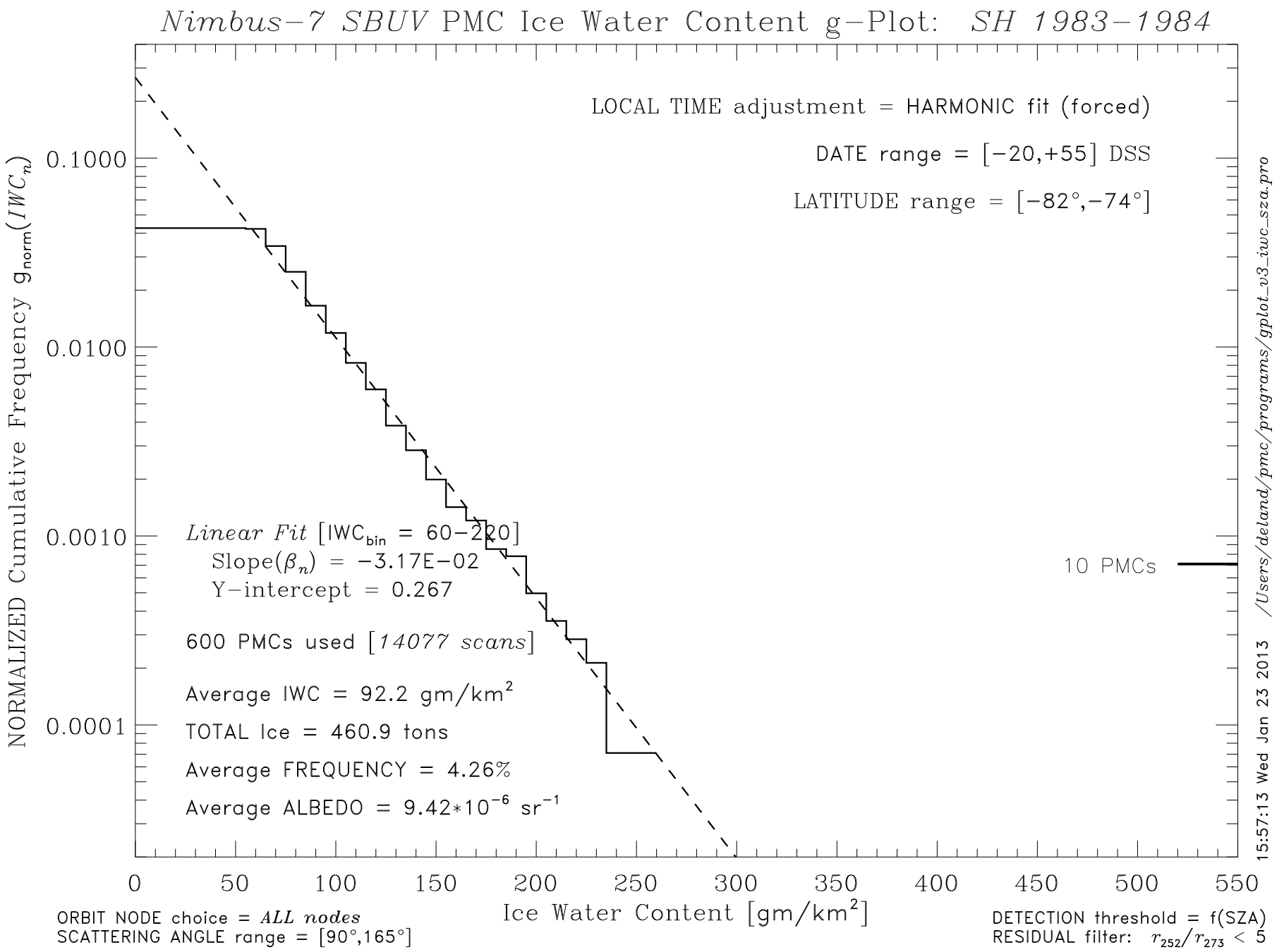

Nimbus−7 SBUV PMC Ice Water Content g−Plot: SH 1978−1979
LOCAL TIME adjustment = HARMONIC fit (forced)
DATE range = [−20,+55] DSS
LATITUDE range = [−82°,−74°]
NORMALIZED Cumulative Frequency $g_{norm}(IWC_n)$
0.1000
0.0100
0.0010
0.0001
Linear Fit [IWC_{bin} = 70−200]
Slope(β_n) = −3.69E−02
Y−intercept = 0.471
526 PMCs used [11748 scans]
Average IWC = 91.8 gm/km^2
TOTAL Ice = 464.0 tons
Average FREQUENCY = 4.48%
Average ALBEDO = 9.28∗10^{-6} sr^{-1}
10 PMCs
0
50
100
150
200
250
300
350
400
450
500
550
Ice Water Content [gm/km^2]
ORBIT NODE choice = ALL nodes
SCATTERING ANGLE range = [90°,165°]
DETECTION threshold = f(SZA)
RESIDUAL filter: $r_{252}/r_{273} < 5$
15:57:11 Wed Jan 23 2013 /Users/deland/pmc/programs/gplot_v3_iwc_sza.pro

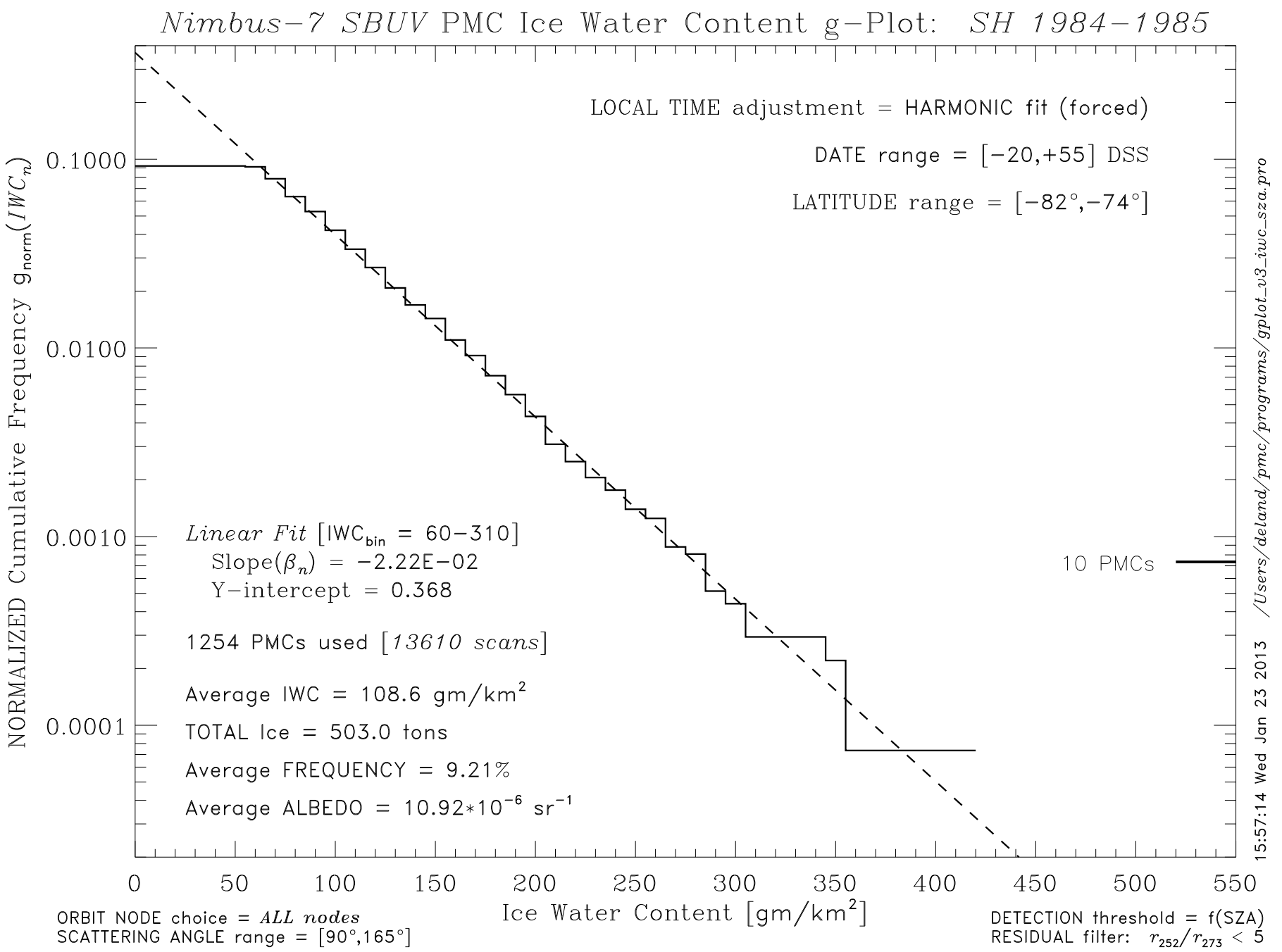

Nimbus-7 SBUV PMC Ice Water Content g-Plot: SH 1979-1980
LOCAL TIME adjustment = HARMONIC fit (forced)
DATE range = [-20,+55] DSS
LATITUDE range = [-82°,-74°]
NORMALIZED Cumulative Frequency $g_{norm}(IWC_n)$
0.1000
0.0100
0.0010
0.0001
Linear Fit [IWC_{bin} = 60-210]
Slope(β_n) = -2.97E-02
Y-intercept = 0.215
337 PMCs used [9259 scans]
Average IWC = 95.6 gm/km^2
TOTAL Ice = 458.5 tons
Average FREQUENCY = 3.64%
Average ALBEDO = 9.70*10^{-6} sr^{-1}
10 PMCs
0
50
100
150
200
250
300
350
400
450
500
550
Ice Water Content [gm/km^2]
ORBIT NODE choice = ALL nodes
SCATTERING ANGLE range = [90°,165°]
DETECTION threshold = f(SZA)
RESIDUAL filter: $r_{252}/r_{273} < 5$
15:57:11 Wed Jan 23 2013 /Users/deland/pmc/programs/gplot_v3_iwc_sza.pro

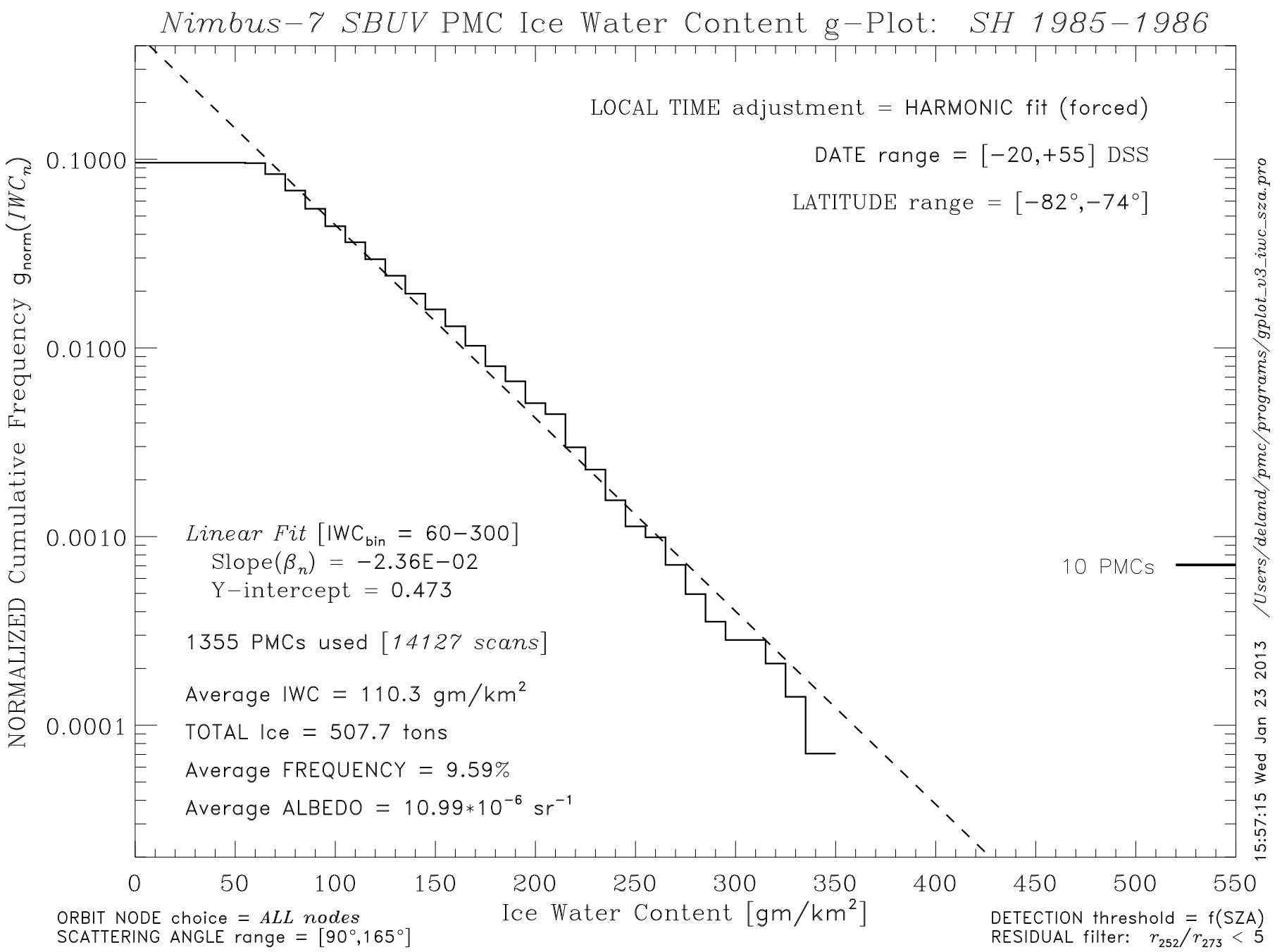
Nimbus−7 SBUV PMC Ice Water Content g−Plot: SH 1980−1981
LOCAL TIME adjustment = HARMONIC fit (forced)
DATE range = [−20,+55] DSS
LATITUDE range = [−82°,−74°]
10 PMCs
Linear Fit [IWC$_{bin}$ = 60−200]
Slope(β_n) = −3.18E−02
Y−intercept = 0.422
587 PMCs used [10651 scans]
Average IWC = 97.5 gm/km^2
TOTAL Ice = 473.0 tons
Average FREQUENCY = 5.51%
Average ALBEDO = 9.79*10^{-6} sr^{-1}
NORMALIZED Cumulative Frequency g$_{norm}$(IWC$_n$)
0.1000
0.0100
0.0010
0.0001
0
50
100
150
200
250
300
350
400
450
500
550
Ice Water Content [gm/km^2]
ORBIT NODE choice = ALL nodes
SCATTERING ANGLE range = [90°,165°]
DETECTION threshold = f(SZA)
RESIDUAL filter: r$_{252}$/r$_{273}$ < 5
15:57:12 Wed Jan 23 2013 /Users/deland/pmc/programs/gplot_v3_iwc_sza.pro

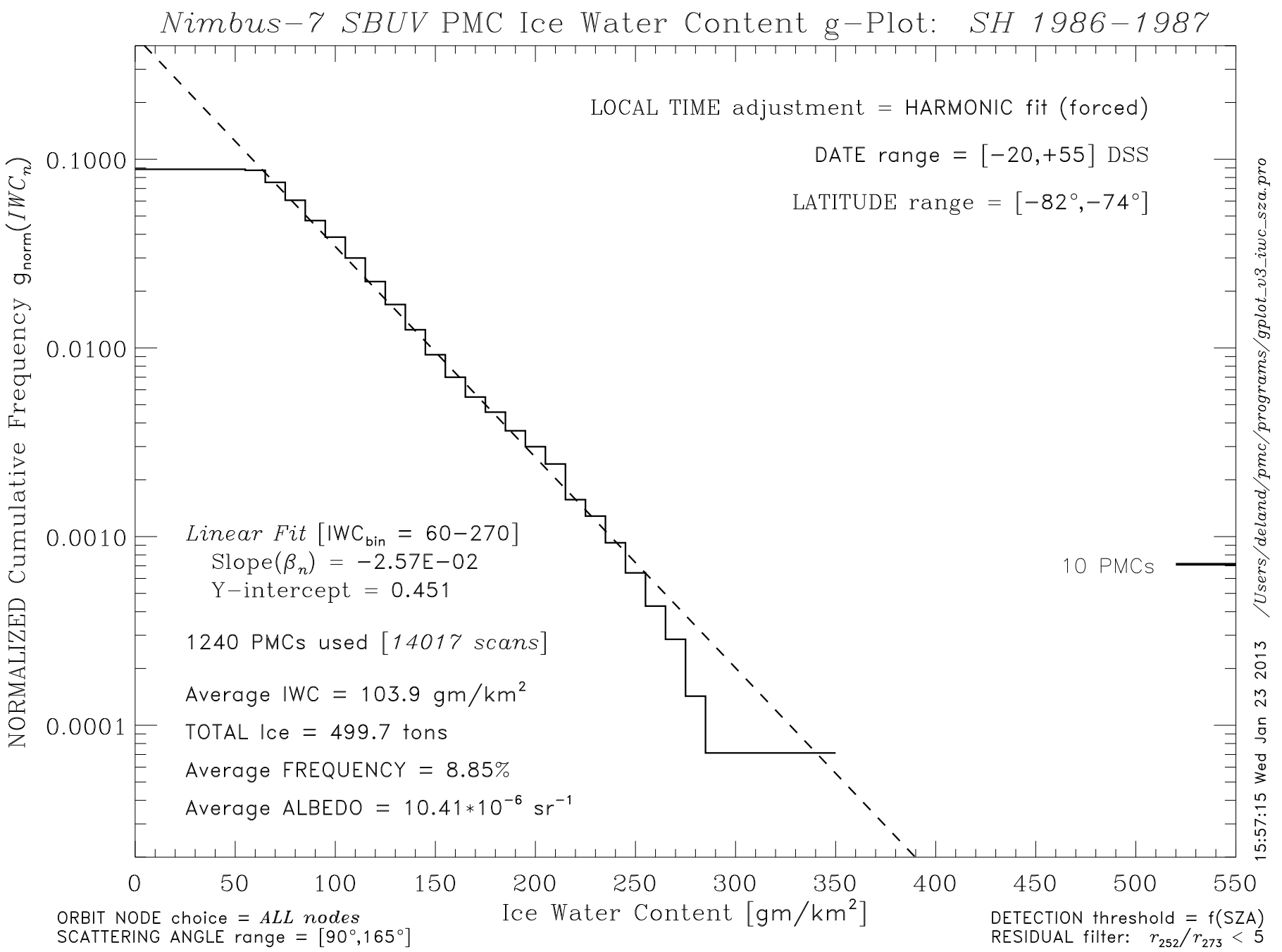
Nimbus−7 SBUV PMC Ice Water Content g−Plot: SH 1981−1982
LOCAL TIME adjustment = HARMONIC fit (forced)
DATE range = [−20,+55] DSS
LATITUDE range = [−82°,−74°]
10 PMCs
Linear Fit [IWC_bin = 60−180]
Slope(β_n) = −3.67E−02
Y−intercept = 0.400
413 PMCs used [10258 scans]
Average IWC = 92.2 gm/km²
TOTAL Ice = 460.8 tons
Average FREQUENCY = 4.03%
Average ALBEDO = 9.40*10⁻⁶ sr⁻¹
NORMALIZED Cumulative Frequency g_norm(IWC_n)
0.1000
0.0100
0.0010
0.0001
0
50
100
150
200
250
300
350
400
450
500
550
Ice Water Content [gm/km²]
ORBIT NODE choice = ALL nodes
SCATTERING ANGLE range = [90°,165°]
DETECTION threshold = f(SZA)
RESIDUAL filter: r252/r273 < 5
15:57:12 Wed Jan 23 2013 /Users/deland/pmc/programs/gplot_v3_iwc_sza.pro

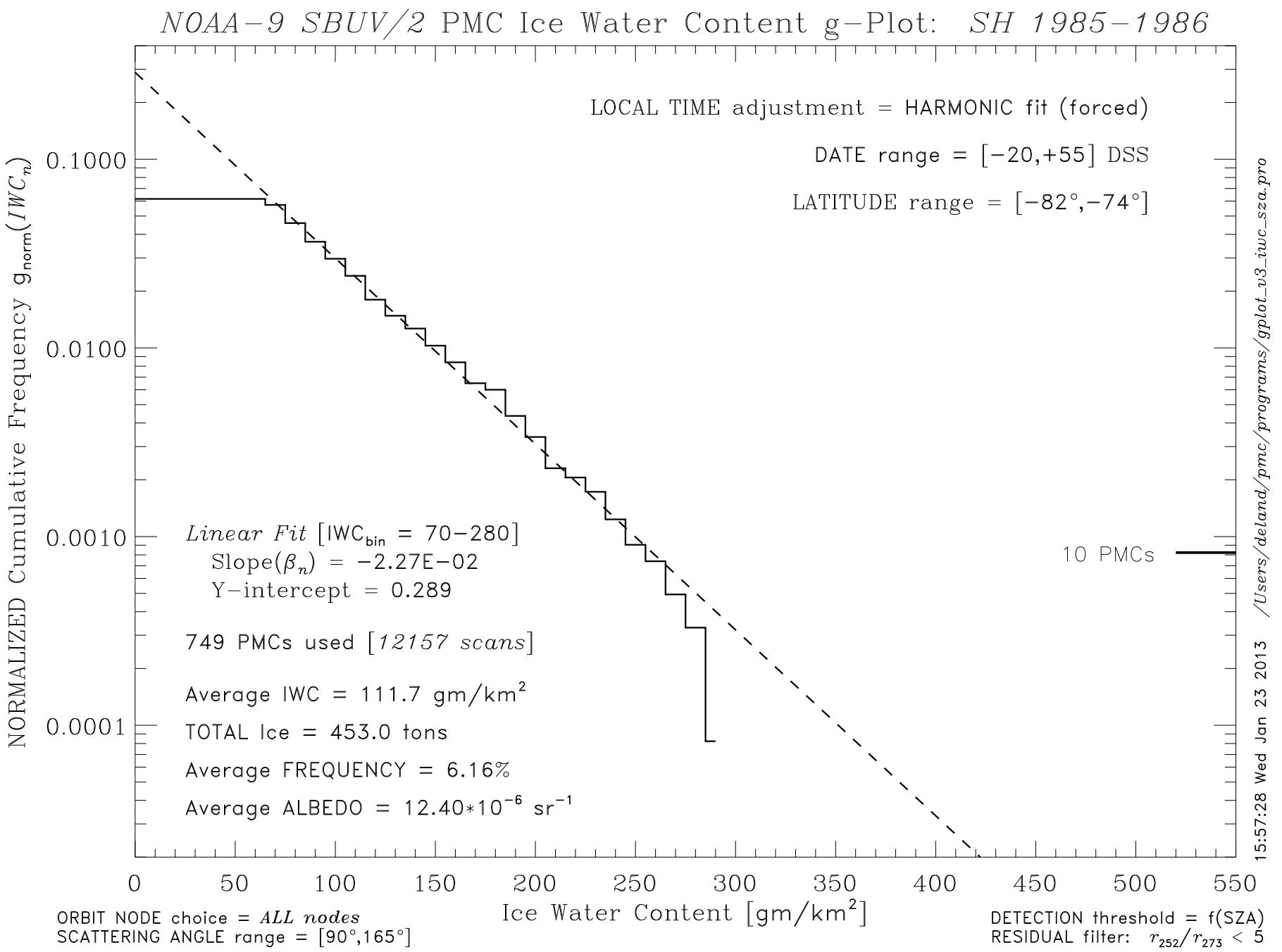

Nimbus-7 SBUV PMC Ice Water Content g-Plot: SH 1982-1983
LOCAL TIME adjustment = HARMONIC fit (forced)
DATE range = [-20,+55] DSS
LATITUDE range = [-82°,-74°]
NORMALIZED Cumulative Frequency $g_{norm}(IWC_n)$
0.1000
0.0100
0.0010
0.0001
Linear Fit [IWC_{bin} = 60-210]
Slope(β_n) = -2.92E-02
Y-intercept = 0.151
297 PMCs used [10333 scans]
Average IWC = 93.4 gm/km^2
TOTAL Ice = 454.8 tons
Average FREQUENCY = 2.87%
Average ALBEDO = 9.44*10^{-6} sr^{-1}
10 PMCs
0
50
100
150
200
250
300
350
400
450
500
550
Ice Water Content [gm/km^2]
ORBIT NODE choice = ALL nodes
SCATTERING ANGLE range = [90°,165°]
DETECTION threshold = f(SZA)
RESIDUAL filter: $r_{252}/r_{273} < 5$
15:57:13 Wed Jan 23 2013 /Users/deland/pmc/programs/gplot_v3_iwc_sza.pro

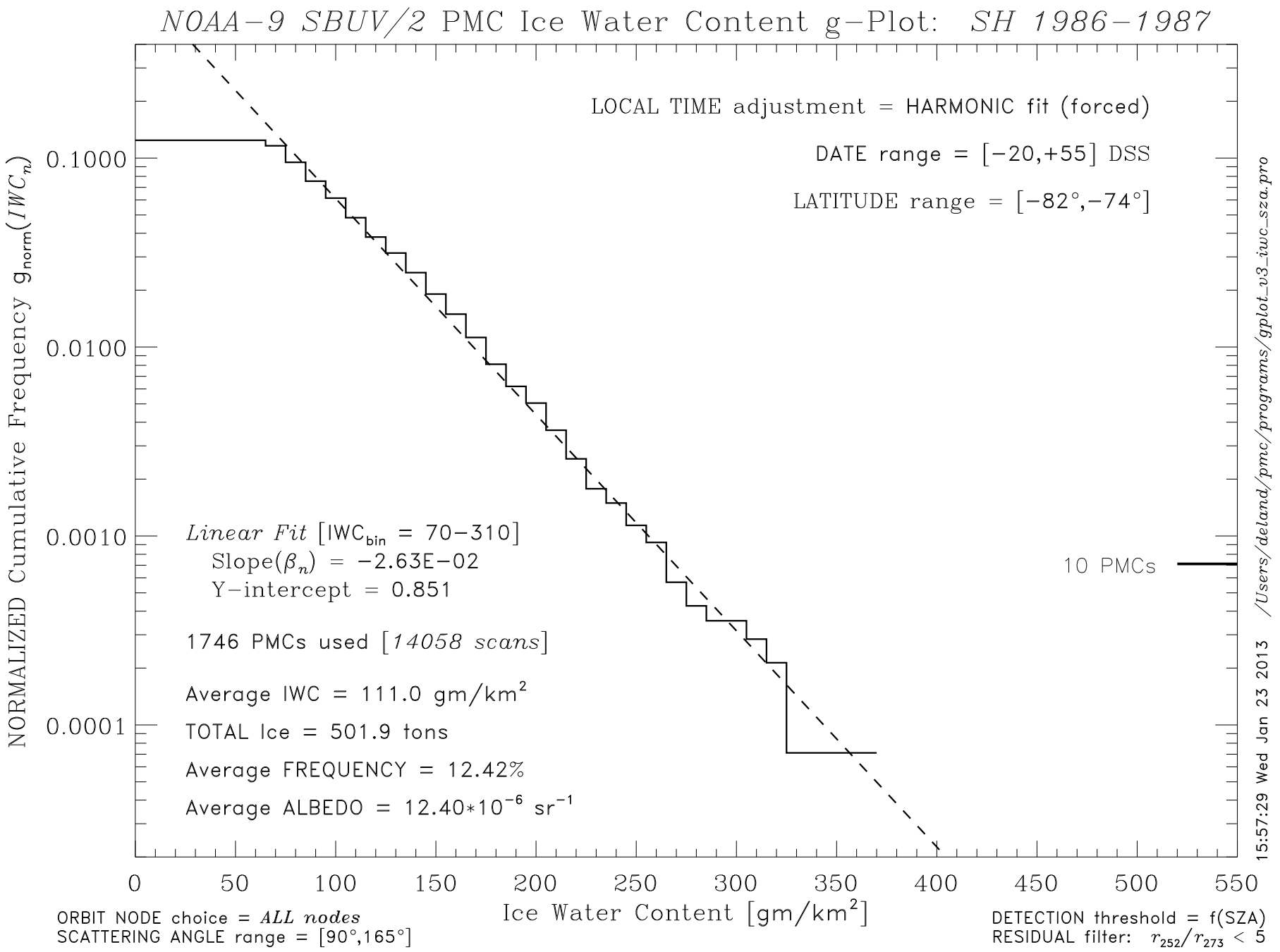

Nimbus-7 SBUV PMC Ice Water Content g-Plot: SH 1983-1984
LOCAL TIME adjustment = HARMONIC fit (forced)
DATE range = [-20,+55] DSS
LATITUDE range = [-82°,-74°]
NORMALIZED Cumulative Frequency $g_{norm}(IWC_n)$
0.1000
0.0100
0.0010
0.0001
Linear Fit [IWC_{bin} = 60-220]
Slope(β_n) = -3.17E-02
Y-intercept = 0.267
600 PMCs used [14077 scans]
Average IWC = 92.2 gm/km^2
TOTAL Ice = 460.9 tons
Average FREQUENCY = 4.26%
Average ALBEDO = 9.42*10^{-6} sr^{-1}
10 PMCs
0
50
100
150
200
250
300
350
400
450
500
550
Ice Water Content [gm/km^2]
ORBIT NODE choice = ALL nodes
SCATTERING ANGLE range = [90°,165°]
DETECTION threshold = f(SZA)
RESIDUAL filter: $r_{252}/r_{273} < 5$
15:57:13 Wed Jan 23 2013 /Users/deland/pmc/programs/gplot_v3_iwc_sza.pro


Nimbus-7 SBUV PMC Ice Water Content g-Plot: SH 1984-1985
LOCAL TIME adjustment = HARMONIC fit (forced)
DATE range = [-20,+55] DSS
LATITUDE range = [-82°,-74°]
NORMALIZED Cumulative Frequency $g_{norm}(IWC_n)$
0.1000
0.0100
0.0010
0.0001
Linear Fit [IWC_{bin} = 60-310]
Slope(β_n) = -2.22E-02
Y-intercept = 0.368
1254 PMCs used [13610 scans]
Average IWC = 108.6 gm/km^2
TOTAL Ice = 503.0 tons
Average FREQUENCY = 9.21%
Average ALBEDO = 10.92*10^{-6} sr^{-1}
10 PMCs
0
50
100
150
200
250
300
350
400
450
500
550
Ice Water Content [gm/km^2]
15:57:14 Wed Jan 23 2013 /Users/deland/pmc/programs/gplot_v3_iwc_sza.pro
ORBIT NODE choice = ALL nodes
SCATTERING ANGLE range = [90°,165°]
DETECTION threshold = f(SZA)
RESIDUAL filter: $r_{252}/r_{273} < 5$

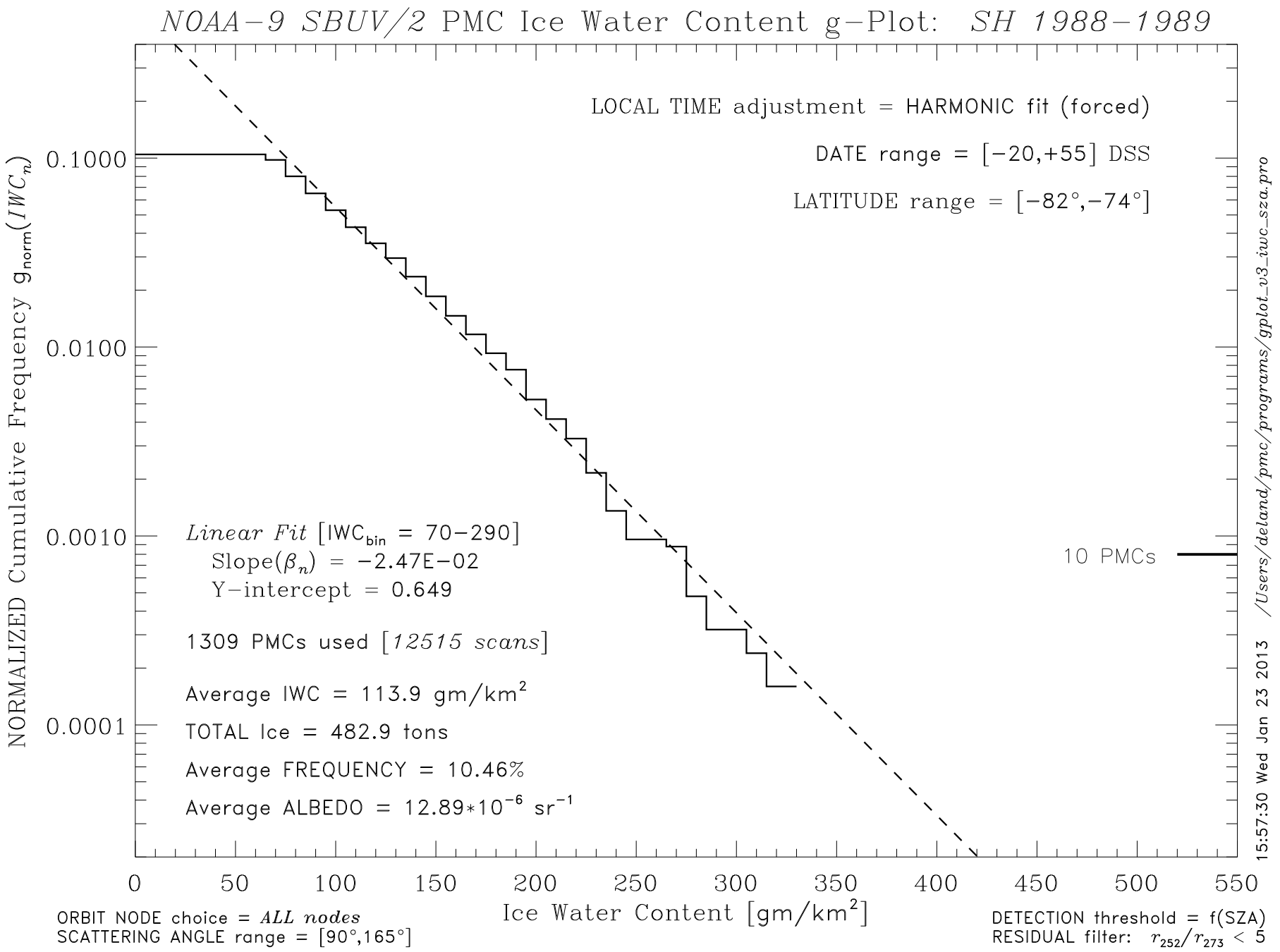

Nimbus-7 SBUV PMC Ice Water Content g-Plot: SH 1985-1986
LOCAL TIME adjustment = HARMONIC fit (forced)
DATE range = [-20,+55] DSS
LATITUDE range = [-82°,-74°]
NORMALIZED Cumulative Frequency $g_{norm}(IWC_n)$
0.1000
0.0100
0.0010
0.0001
Linear Fit [IWC_{bin} = 60-300]
Slope(β_n) = -2.36E-02
Y-intercept = 0.473
1355 PMCs used [14127 scans]
Average IWC = 110.3 gm/km^2
TOTAL Ice = 507.7 tons
Average FREQUENCY = 9.59%
Average ALBEDO = 10.99*10^{-6} sr^{-1}
10 PMCs
0 50 100 150 200 250 300 350 400 450 500 550
Ice Water Content [gm/km^2]
ORBIT NODE choice = ALL nodes
SCATTERING ANGLE range = [90°,165°]
DETECTION threshold = f(SZA)
RESIDUAL filter: $r_{252}/r_{273} < 5$
15:57:15 Wed Jan 23 2013 /Users/deland/pmc/programs/gplot_v3_iwc_sza.pro


Nimbus-7 SBUV PMC Ice Water Content g-Plot: SH 1986-1987
LOCAL TIME adjustment = HARMONIC fit (forced)
DATE range = [-20,+55] DSS
LATITUDE range = [-82°,-74°]
NORMALIZED Cumulative Frequency $g_{norm}(IWC_n)$
0.1000
0.0100
0.0010
0.0001
Linear Fit [IWC_{bin} = 60-270]
Slope(β_n) = -2.57E-02
Y-intercept = 0.451
1240 PMCs used [14017 scans]
Average IWC = 103.9 gm/km^2
TOTAL Ice = 499.7 tons
Average FREQUENCY = 8.85%
Average ALBEDO = 10.41*10^{-6} sr^{-1}
10 PMCs
0
50
100
150
200
250
300
350
400
450
500
550
Ice Water Content [gm/km^2]
ORBIT NODE choice = ALL nodes
SCATTERING ANGLE range = [90°,165°]
DETECTION threshold = f(SZA)
RESIDUAL filter: $r_{252}/r_{273} < 5$
15:57:15 Wed Jan 23 2013 /Users/deland/pmc/programs/gplot_v3_iwc_sza.pro

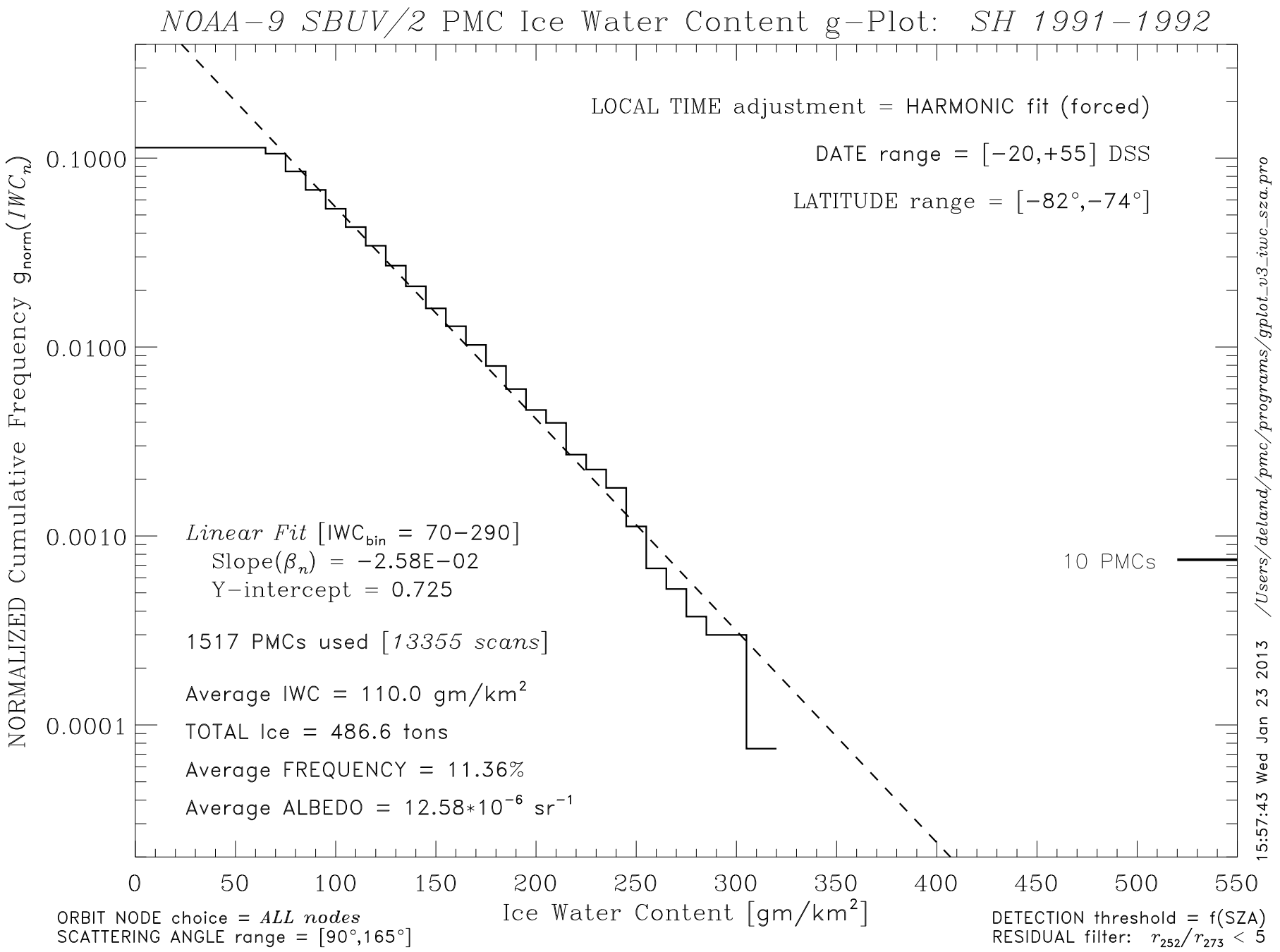

NOAA-9 SBUV/2 PMC Ice Water Content g-Plot: SH 1985-1986
LOCAL TIME adjustment = HARMONIC fit (forced)
DATE range = [-20,+55] DSS
LATITUDE range = [-82°,-74°]
NORMALIZED Cumulative Frequency $g_{norm}(IWC_n)$
0.1000
0.0100
0.0010
0.0001
Linear Fit [IWC_{bin} = 70-280]
Slope(β_n) = -2.27E-02
Y-intercept = 0.289
749 PMCs used [12157 scans]
Average IWC = 111.7 gm/km^2
TOTAL Ice = 453.0 tons
Average FREQUENCY = 6.16%
Average ALBEDO = 12.40*10^{-6} sr^{-1}
10 PMCs
0 50 100 150 200 250 300 350 400 450 500 550
Ice Water Content [gm/km^2]
ORBIT NODE choice = ALL nodes
SCATTERING ANGLE range = [90°,165°]
DETECTION threshold = f(SZA)
RESIDUAL filter: $r_{252}/r_{273} < 5$
15:57:28 Wed Jan 23 2013 /Users/deland/pmc/programs/gplot_v3_iwc_sza.pro

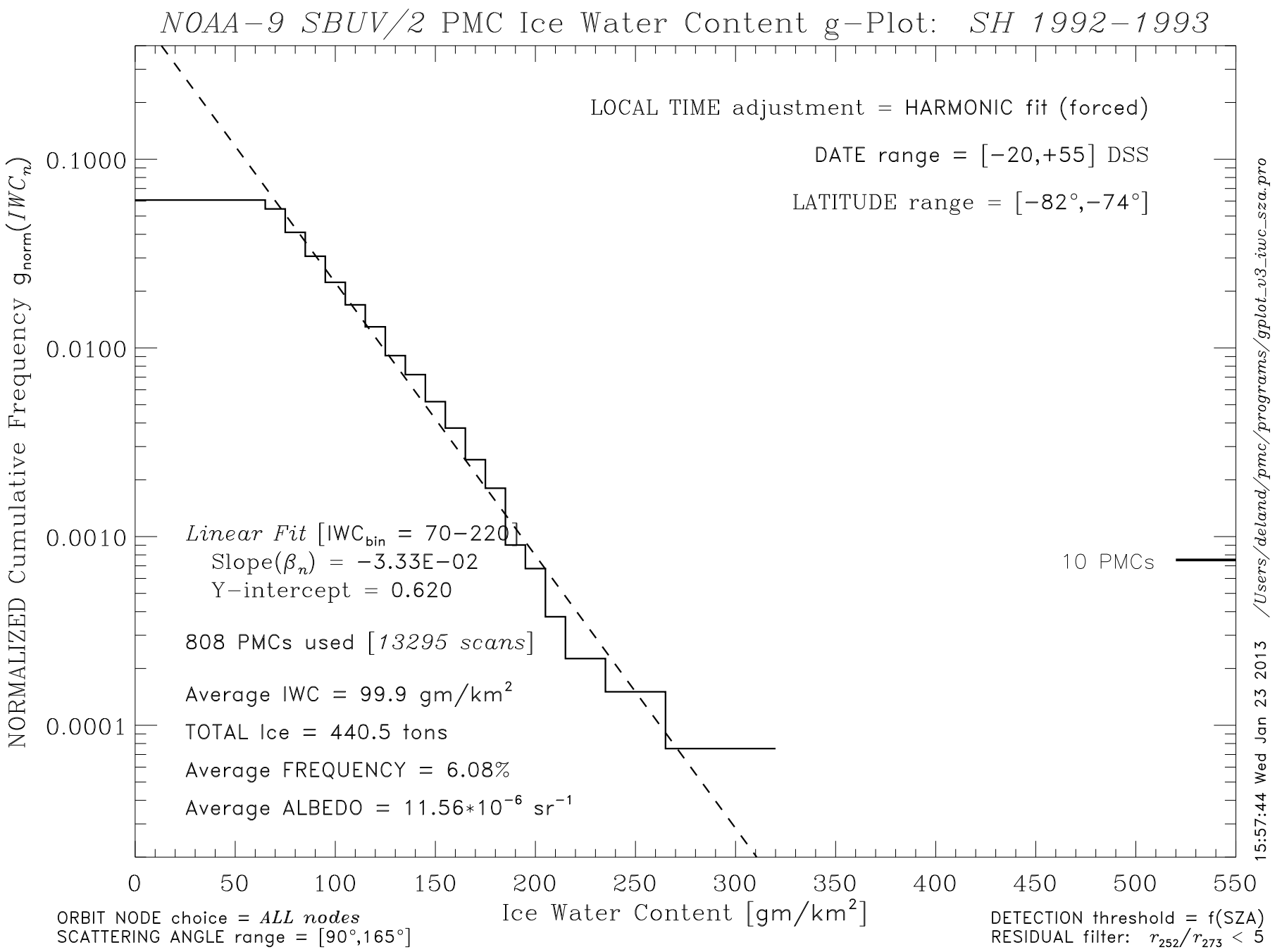

NOAA-9 SBUV/2 PMC Ice Water Content g-Plot: SH 1986-1987
LOCAL TIME adjustment = HARMONIC fit (forced)
DATE range = [-20,+55] DSS
LATITUDE range = [-82°,-74°]
NORMALIZED Cumulative Frequency $g_{norm}(IWC_n)$
0.1000
0.0100
0.0010
0.0001
Linear Fit [IWC_{bin} = 70-310]
Slope(β_n) = -2.63E-02
Y-intercept = 0.851
1746 PMCs used [14058 scans]
Average IWC = 111.0 gm/km^2
TOTAL Ice = 501.9 tons
Average FREQUENCY = 12.42%
Average ALBEDO = 12.40*10^{-6} sr^{-1}
10 PMCs
0
50
100
150
200
250
300
350
400
450
500
550
Ice Water Content [gm/km^2]
ORBIT NODE choice = ALL nodes
SCATTERING ANGLE range = [90°,165°]
DETECTION threshold = f(SZA)
RESIDUAL filter: $r_{252}/r_{273} < 5$
15:57:29 Wed Jan 23 2013 /Users/deland/pmc/programs/gplot_v3_iwc_sza.pro

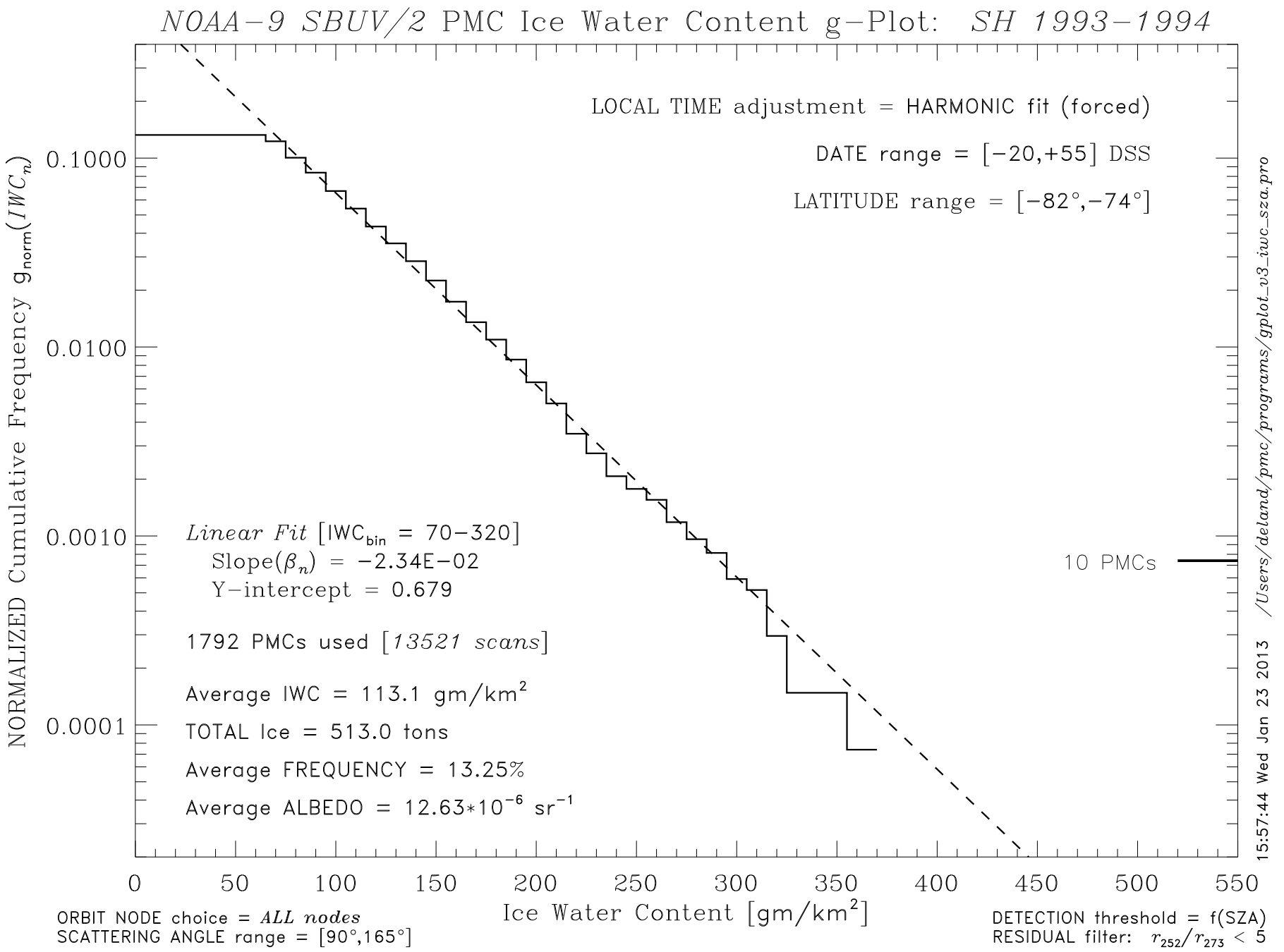
NOAA-9 SBUV/2 PMC Ice Water Content g-Plot: SH 1987-1988
LOCAL TIME adjustment = HARMONIC fit (forced)
DATE range = [-20,+55] DSS
LATITUDE range = [-82°,-74°]
Linear Fit [IWC_bin = 70-320]
Slope(β_n) = -2.16E-02
Y-intercept = 0.613
1790 PMCs used [13936 scans]
Average IWC = 117.7 gm/km²
TOTAL Ice = 506.8 tons
Average FREQUENCY = 12.84%
Average ALBEDO = 13.28*10⁻⁶ sr⁻¹
10 PMCs
NORMALIZED Cumulative Frequency g_norm(IWC_n)
0.1000
0.0100
0.0010
0.0001
0
50
100
150
200
250
300
350
400
450
500
550
Ice Water Content [gm/km²]
ORBIT NODE choice = ALL nodes
SCATTERING ANGLE range = [90°,165°]
DETECTION threshold = f(SZA)
RESIDUAL filter: r252/r273 < 5
15:57:30 Wed Jan 23 2013 /Users/deland/pmc/programs/gplot_v3_iwc_sza.pro

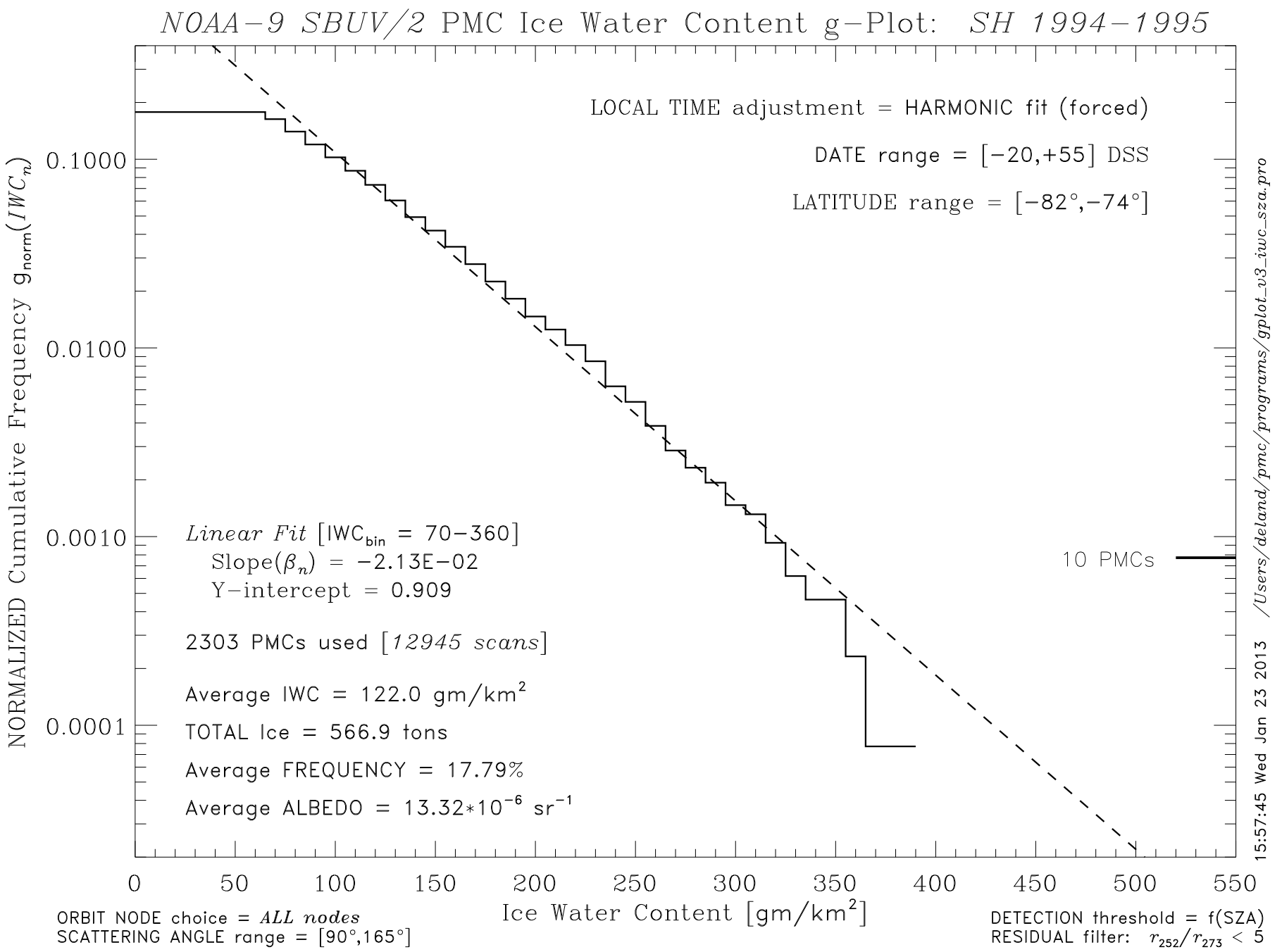

NOAA-9 SBUV/2 PMC Ice Water Content g-Plot: SH 1988-1989
LOCAL TIME adjustment = HARMONIC fit (forced)
DATE range = [-20,+55] DSS
LATITUDE range = [-82°,-74°]
NORMALIZED Cumulative Frequency $g_{norm}(IWC_n)$
0.1000
0.0100
0.0010
0.0001
Linear Fit [IWC_{bin} = 70-290]
Slope(β_n) = -2.47E-02
Y-intercept = 0.649
1309 PMCs used [12515 scans]
Average IWC = 113.9 gm/km^2
TOTAL Ice = 482.9 tons
Average FREQUENCY = 10.46%
Average ALBEDO = 12.89*10^{-6} sr^{-1}
10 PMCs
0 50 100 150 200 250 300 350 400 450 500 550
Ice Water Content [gm/km^2]
15:57:30 Wed Jan 23 2013 /Users/deland/pmc/programs/gplot_v3_iwc_sza.pro
ORBIT NODE choice = ALL nodes
SCATTERING ANGLE range = [90°,165°]
DETECTION threshold = f(SZA)
RESIDUAL filter: $r_{252}/r_{273} < 5$

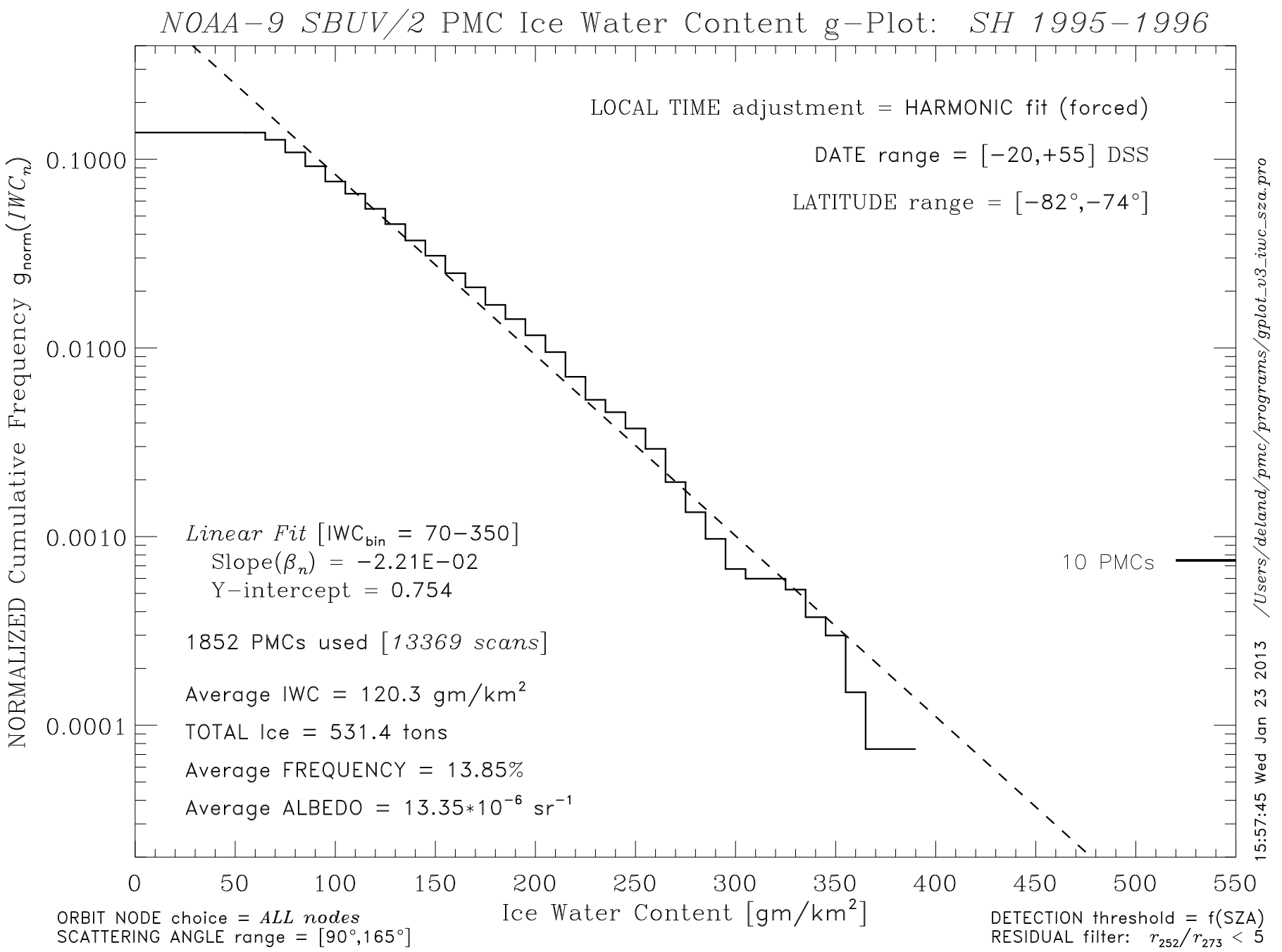
NOAA-9 SBUV/2 PMC Ice Water Content g-Plot: SH 1989-1990
LOCAL TIME adjustment = HARMONIC fit (forced)
DATE range = [-20,+55] DSS
LATITUDE range = [-82°,-74°]
Linear Fit [IWCbin = 70-270]
Slope(βn) = -2.77E-02
Y-intercept = 0.907
1339 PMCs used [11948 scans]
Average IWC = 111.3 gm/km2
TOTAL Ice = 482.5 tons
Average FREQUENCY = 11.21%
Average ALBEDO = 12.91*10-6 sr-1
10 PMCs
NORMALIZED Cumulative Frequency gnorm(IWCn)
0.1000
0.0100
0.0010
0.0001
0
50
100
150
200
250
300
350
400
450
500
550
Ice Water Content [gm/km2]
ORBIT NODE choice = ALL nodes
SCATTERING ANGLE range = [90°,165°]
DETECTION threshold = f(SZA)
RESIDUAL filter: r252/r273 < 5
15:57:31 Wed Jan 23 2013 /Users/deland/pmc/programs/gplot_v3_iwc_sza.pro

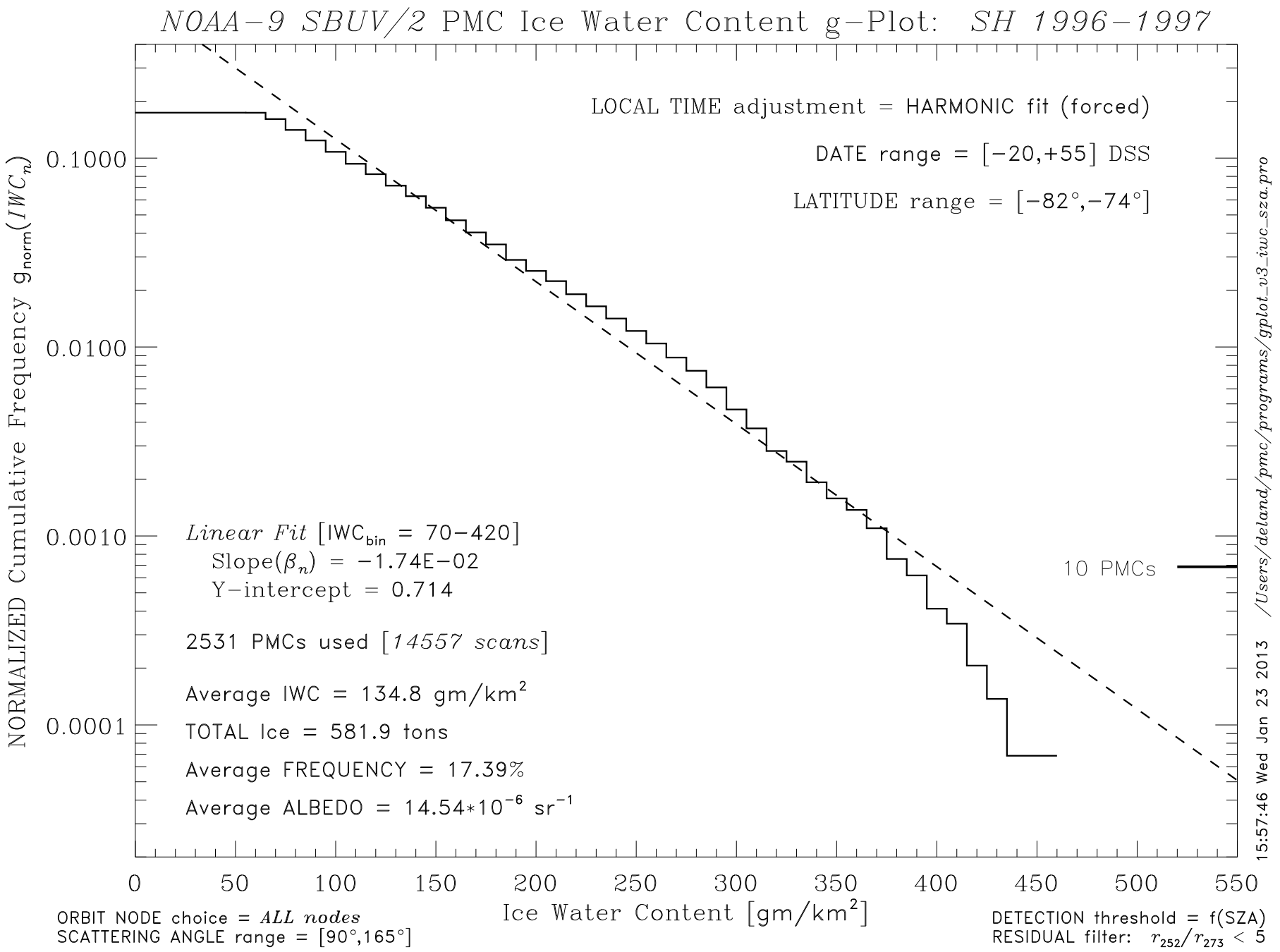

NOAA−9 SBUV/2 PMC Ice Water Content g−Plot: SH 1991−1992
LOCAL TIME adjustment = HARMONIC fit (forced)
DATE range = [−20,+55] DSS
LATITUDE range = [−82°,−74°]
NORMALIZED Cumulative Frequency $g_{norm}(IWC_n)$
0.1000
0.0100
0.0010
0.0001
Linear Fit [IWC_{bin} = 70−290]
Slope(β_n) = −2.58E−02
Y−intercept = 0.725
1517 PMCs used [13355 scans]
Average IWC = 110.0 gm/km^2
TOTAL Ice = 486.6 tons
Average FREQUENCY = 11.36%
Average ALBEDO = 12.58∗10^{-6} sr^{-1}
10 PMCs
0
50
100
150
200
250
300
350
400
450
500
550
Ice Water Content [gm/km^2]
15:57:43 Wed Jan 23 2013 /Users/deland/pmc/programs/gplot_v3_iwc_sza.pro
ORBIT NODE choice = ALL nodes
SCATTERING ANGLE range = [90°,165°]
DETECTION threshold = f(SZA)
RESIDUAL filter: $r_{252}/r_{273} < 5$

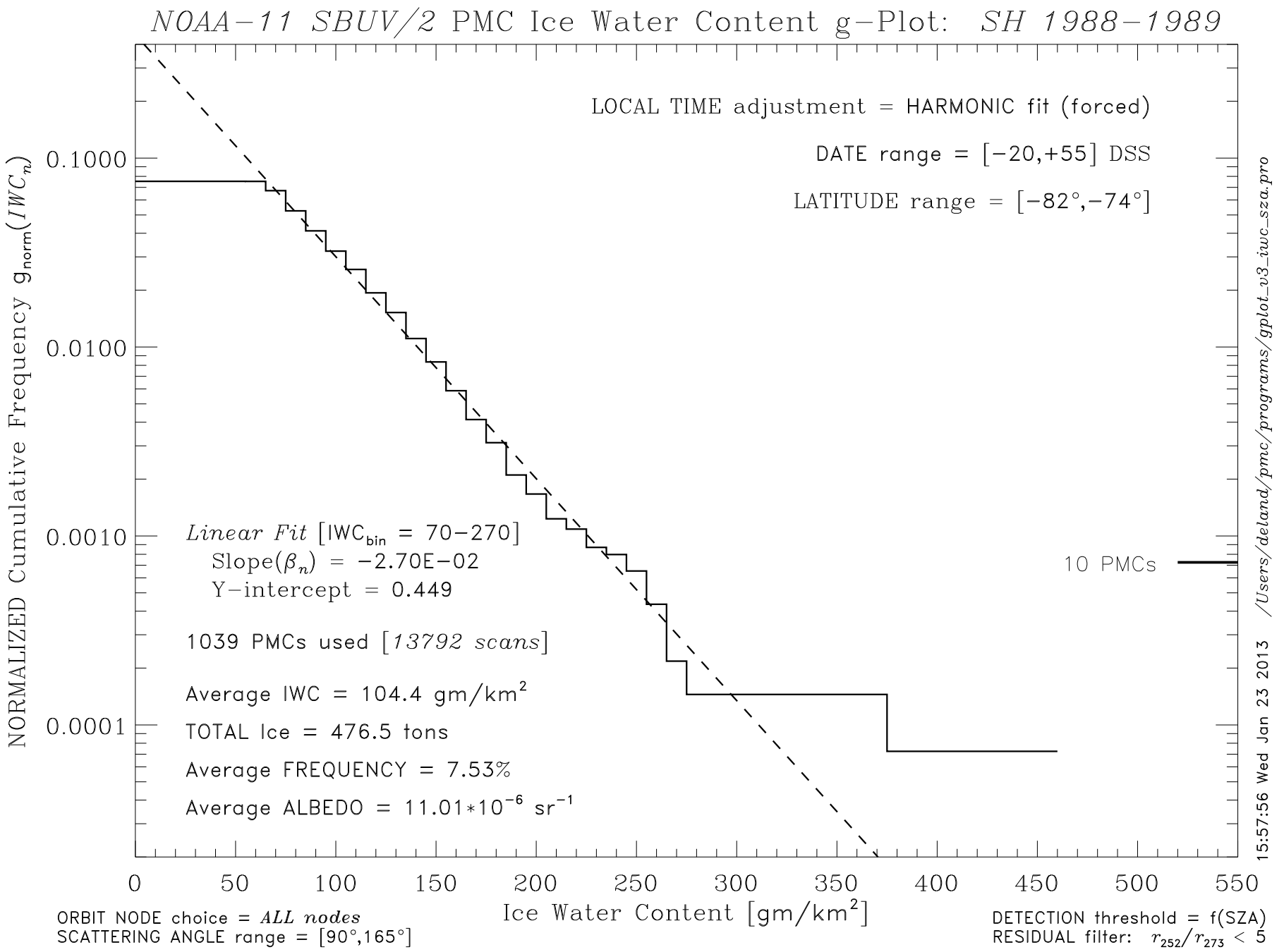

NOAA-9 SBUV/2 PMC Ice Water Content g-Plot: SH 1992-1993
LOCAL TIME adjustment = HARMONIC fit (forced)
DATE range = [-20,+55] DSS
LATITUDE range = [-82°,-74°]
NORMALIZED Cumulative Frequency $g_{norm}(IWC_n)$
0.1000
0.0100
0.0010
0.0001
Linear Fit [IWC_bin = 70-220]
Slope(β_n) = -3.33E-02
Y-intercept = 0.620
808 PMCs used [13295 scans]
Average IWC = 99.9 gm/km^2
TOTAL Ice = 440.5 tons
Average FREQUENCY = 6.08%
Average ALBEDO = 11.56*10^{-6} sr^{-1}
10 PMCs
0
50
100
150
200
250
300
350
400
450
500
550
Ice Water Content [gm/km^2]
15:57:44 Wed Jan 23 2013 /Users/deland/pmc/programs/gplot_v3_iwc_sza.pro
ORBIT NODE choice = ALL nodes
SCATTERING ANGLE range = [90°,165°]
DETECTION threshold = f(SZA)
RESIDUAL filter: $r_{252}/r_{273} < 5$

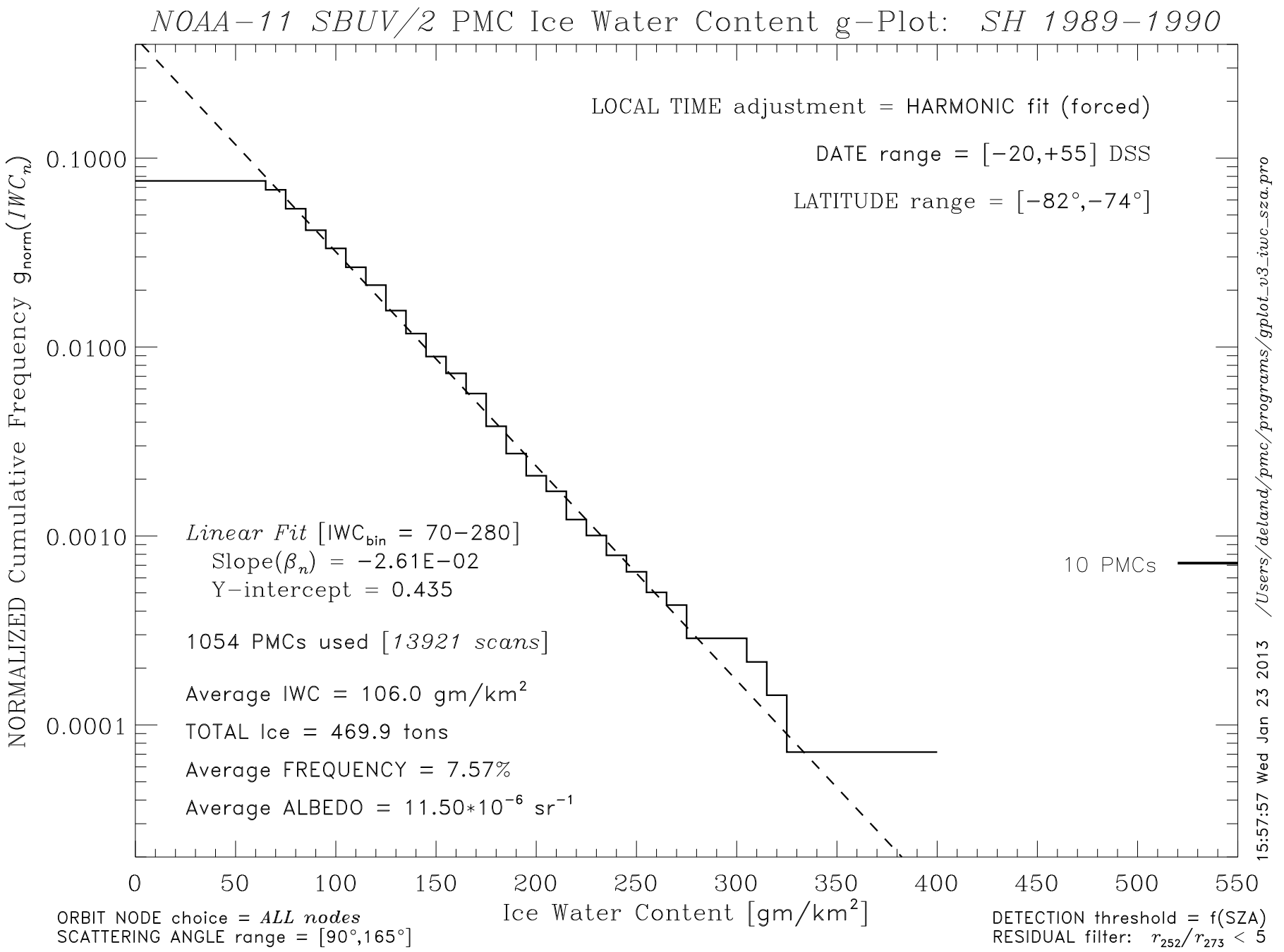

NOAA-9 SBUV/2 PMC Ice Water Content g-Plot: SH 1993-1994
LOCAL TIME adjustment = HARMONIC fit (forced)
DATE range = [-20,+55] DSS
LATITUDE range = [-82°,-74°]
NORMALIZED Cumulative Frequency $g_{norm}(IWC_n)$
0.1000
0.0100
0.0010
0.0001
Linear Fit [IWC_{bin} = 70-320]
Slope(β_n) = -2.34E-02
Y-intercept = 0.679
1792 PMCs used [13521 scans]
Average IWC = 113.1 gm/km^2
TOTAL Ice = 513.0 tons
Average FREQUENCY = 13.25%
Average ALBEDO = 12.63*10^{-6} sr^{-1}
10 PMCs
0
50
100
150
200
250
300
350
400
450
500
550
Ice Water Content [gm/km^2]
ORBIT NODE choice = ALL nodes
SCATTERING ANGLE range = [90°,165°]
DETECTION threshold = f(SZA)
RESIDUAL filter: $r_{252}/r_{273} < 5$
15:57:44 Wed Jan 23 2013 /Users/deland/pmc/programs/gplot_v3_iwc_sza.pro


NOAA-9 SBUV/2 PMC Ice Water Content g-Plot: SH 1994-1995
LOCAL TIME adjustment = HARMONIC fit (forced)
DATE range = [-20,+55] DSS
LATITUDE range = [-82°,-74°]
NORMALIZED Cumulative Frequency $g_{norm}(IWC_n)$
0.1000
0.0100
0.0010
0.0001
Linear Fit [IWC_bin = 70-360]
Slope(β_n) = -2.13E-02
Y-intercept = 0.909
2303 PMCs used [12945 scans]
Average IWC = 122.0 gm/km^2
TOTAL Ice = 566.9 tons
Average FREQUENCY = 17.79%
Average ALBEDO = 13.32*10^{-6} sr^{-1}
10 PMCs
0 50 100 150 200 250 300 350 400 450 500 550
Ice Water Content [gm/km^2]
15:57:45 Wed Jan 23 2013 /Users/deland/pmc/programs/gplot_v3_iwc_sza.pro
ORBIT NODE choice = ALL nodes
SCATTERING ANGLE range = [90°,165°]
DETECTION threshold = f(SZA)
RESIDUAL filter: $r_{252}/r_{273} < 5$


NOAA-9 SBUV/2 PMC Ice Water Content g-Plot: SH 1995-1996
LOCAL TIME adjustment = HARMONIC fit (forced)
DATE range = [-20,+55] DSS
LATITUDE range = [-82°,-74°]
NORMALIZED Cumulative Frequency $g_{norm}(IWC_n)$
0.1000
0.0100
0.0010
0.0001
Linear Fit [IWC_{bin} = 70-350]
Slope(β_n) = -2.21E-02
Y-intercept = 0.754
1852 PMCs used [13369 scans]
Average IWC = 120.3 gm/km^2
TOTAL Ice = 531.4 tons
Average FREQUENCY = 13.85%
Average ALBEDO = 13.35*10^{-6} sr^{-1}
10 PMCs
0
50
100
150
200
250
300
350
400
450
500
550
Ice Water Content [gm/km^2]
ORBIT NODE choice = ALL nodes
SCATTERING ANGLE range = [90°,165°]
DETECTION threshold = f(SZA)
RESIDUAL filter: $r_{252}/r_{273} < 5$
15:57:45 Wed Jan 23 2013 /Users/deland/pmc/programs/gplot_v3_iwc_sza.pro


NOAA−9 SBUV/2 PMC Ice Water Content g−Plot: SH 1996−1997
LOCAL TIME adjustment = HARMONIC fit (forced)
DATE range = [−20,+55] DSS
LATITUDE range = [−82°,−74°]
NORMALIZED Cumulative Frequency $g_{norm}(IWC_n)$
0.1000
0.0100
0.0010
0.0001
Linear Fit [IWC$_{bin}$ = 70−420]
Slope(β_n) = −1.74E−02
Y−intercept = 0.714
2531 PMCs used [14557 scans]
Average IWC = 134.8 gm/km^2
TOTAL Ice = 581.9 tons
Average FREQUENCY = 17.39%
Average ALBEDO = 14.54∗10^{-6} sr^{-1}
10 PMCs
0
50
100
150
200
250
300
350
400
450
500
550
Ice Water Content [gm/km^2]
ORBIT NODE choice = ALL nodes
SCATTERING ANGLE range = [90°,165°]
DETECTION threshold = f(SZA)
RESIDUAL filter: $r_{252}/r_{273} < 5$
15:57:46 Wed Jan 23 2013 /Users/deland/pmc/programs/gplot_v3_iwc_sza.pro

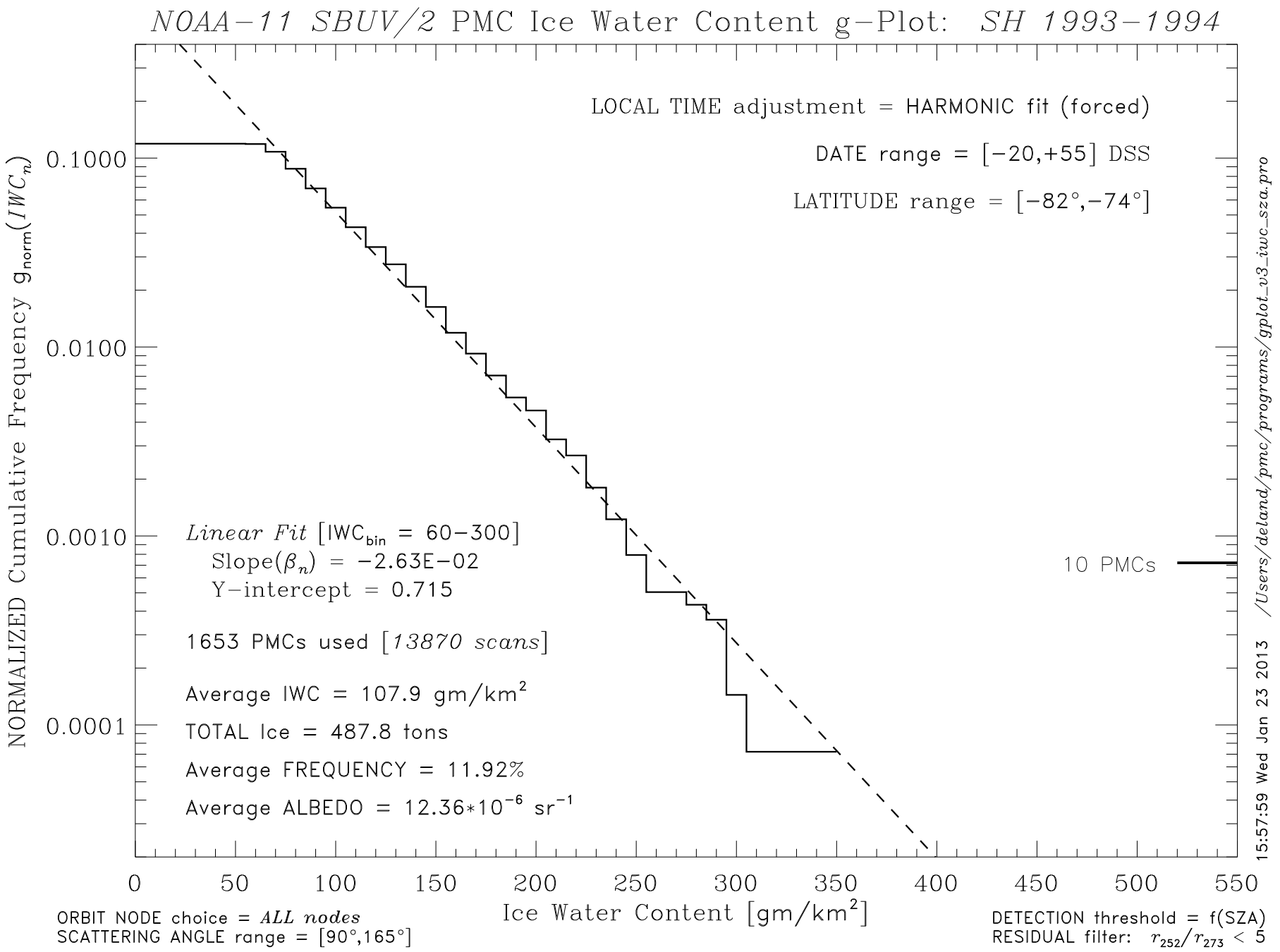

NOAA−11 SBUV/2 PMC Ice Water Content g−Plot: SH 1988−1989
LOCAL TIME adjustment = HARMONIC fit (forced)
DATE range = [−20,+55] DSS
LATITUDE range = [−82°,−74°]
NORMALIZED Cumulative Frequency $g_{norm}(IWC_n)$
0.1000
0.0100
0.0010
0.0001
Linear Fit [IWC_{bin} = 70−270]
Slope(β_n) = −2.70E−02
Y−intercept = 0.449
1039 PMCs used [13792 scans]
Average IWC = 104.4 gm/km^2
TOTAL Ice = 476.5 tons
Average FREQUENCY = 7.53%
Average ALBEDO = 11.01∗10^{-6} sr^{-1}
10 PMCs
0
50
100
150
200
250
300
350
400
450
500
550
Ice Water Content [gm/km^2]
ORBIT NODE choice = ALL nodes
SCATTERING ANGLE range = [90°,165°]
DETECTION threshold = f(SZA)
RESIDUAL filter: $r_{252}/r_{273} < 5$
15:57:56 Wed Jan 23 2013 /Users/deland/pmc/programs/gplot_v3_iwc_sza.pro

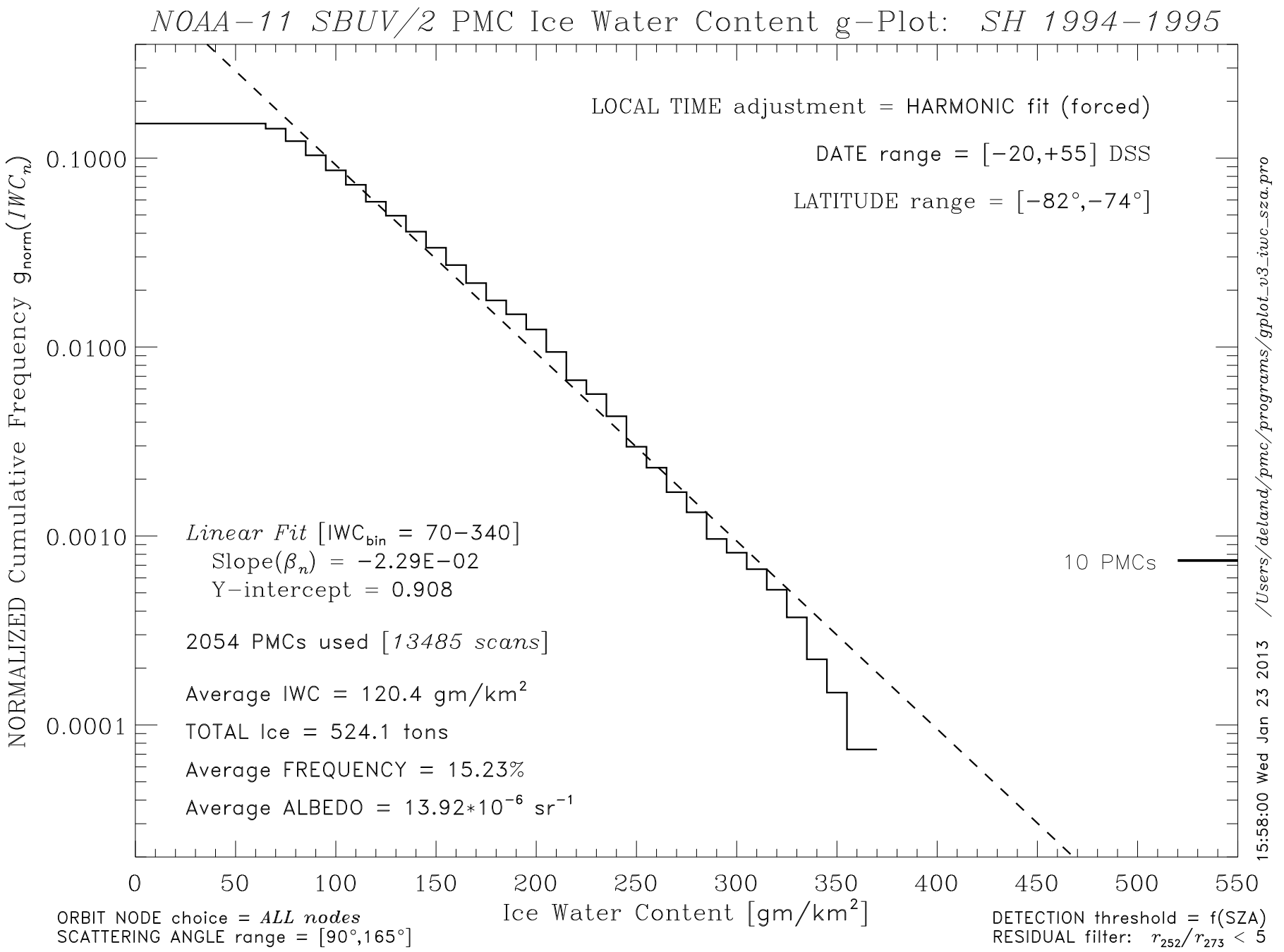

NOAA−11 SBUV/2 PMC Ice Water Content g−Plot: SH 1989−1990
LOCAL TIME adjustment = HARMONIC fit (forced)
DATE range = [−20,+55] DSS
LATITUDE range = [−82°,−74°]
NORMALIZED Cumulative Frequency $g_{norm}(IWC_n)$
0.1000
0.0100
0.0010
0.0001
Linear Fit [IWC_{bin} = 70−280]
Slope(β_n) = −2.61E−02
Y−intercept = 0.435
1054 PMCs used [13921 scans]
Average IWC = 106.0 gm/km^2
TOTAL Ice = 469.9 tons
Average FREQUENCY = 7.57%
Average ALBEDO = 11.50∗10^{-6} sr^{-1}
10 PMCs
0
50
100
150
200
250
300
350
400
450
500
550
Ice Water Content [gm/km^2]
ORBIT NODE choice = ALL nodes
SCATTERING ANGLE range = [90°,165°]
DETECTION threshold = f(SZA)
RESIDUAL filter: $r_{252}/r_{273} < 5$
15:57:57 Wed Jan 23 2013 /Users/deland/pmc/programs/gplot_v3_iwc_sza.pro

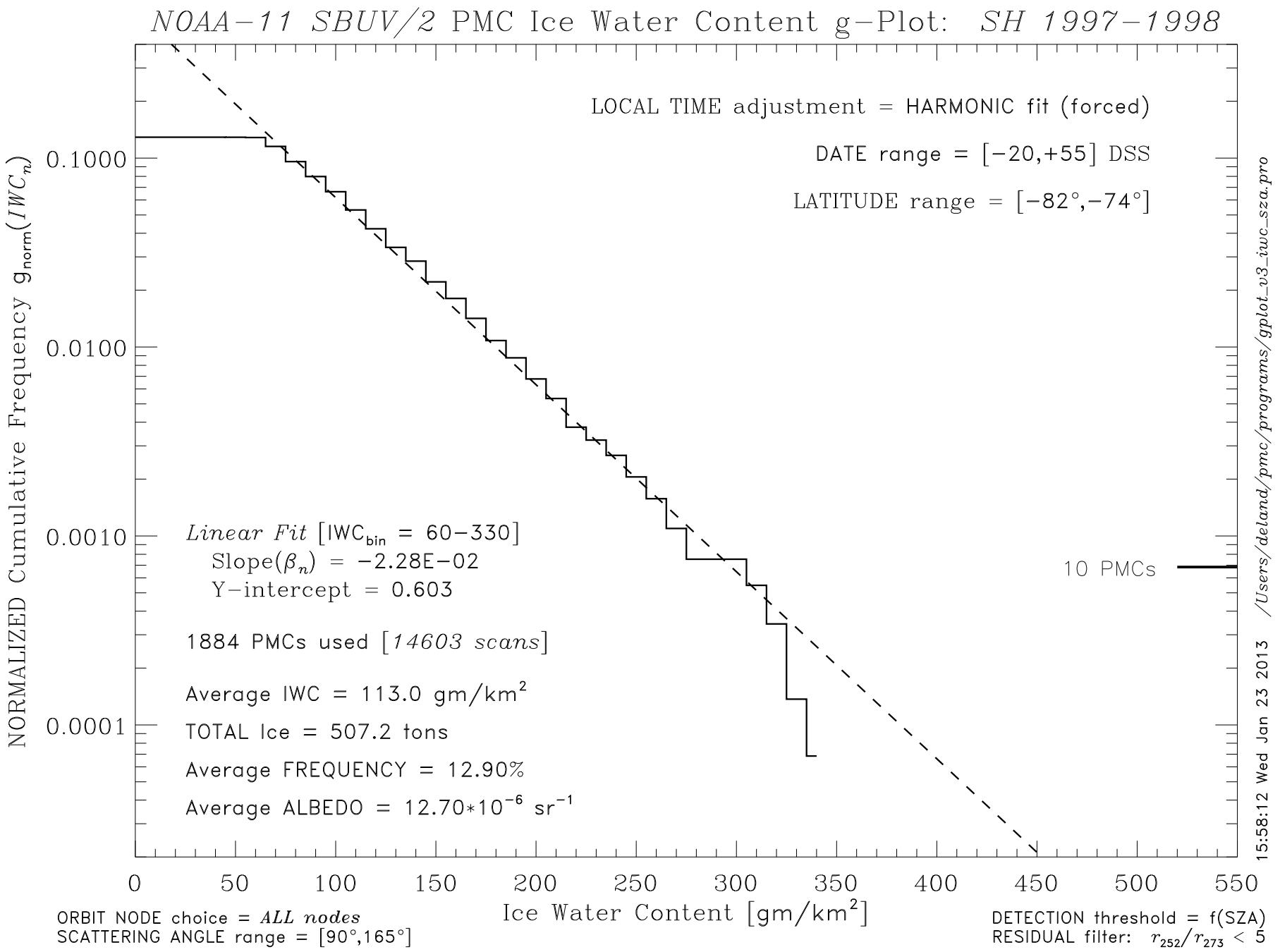
NOAA−11 SBUV/2 PMC Ice Water Content g−Plot: SH 1990−1991
LOCAL TIME adjustment = HARMONIC fit (forced)
DATE range = [−20,+55] DSS
LATITUDE range = [−82°,−74°]
Linear Fit [IWC_bin = 70−230]
Slope(β_n) = −2.61E−02
Y−intercept = 0.183
462 PMCs used [12766 scans]
Average IWC = 101.2 gm/km²
TOTAL Ice = 432.4 tons
Average FREQUENCY = 3.62%
Average ALBEDO = 11.20*10⁻⁶ sr⁻¹
10 PMCs
NORMALIZED Cumulative Frequency g_norm(IWC_n)
0.1000
0.0100
0.0010
0.0001
0
50
100
150
200
250
300
350
400
450
500
550
Ice Water Content [gm/km²]
ORBIT NODE choice = ALL nodes
SCATTERING ANGLE range = [90°,165°]
DETECTION threshold = f(SZA)
RESIDUAL filter: r252/r273 < 5
15:57:57 Wed Jan 23 2013 /Users/deland/pmc/programs/gplot_v3_iwc_sza.pro

NOAA−11 SBUV/2 PMC Ice Water Content g−Plot: SH 1991−1992
LOCAL TIME adjustment = HARMONIC fit (forced)
DATE range = [−20,+55] DSS
LATITUDE range = [−82°,−74°]
Linear Fit [IWC$_{bin}$ = 70−250]
Slope(β_n) = −2.71E−02
Y−intercept = 0.389
787 PMCs used [12990 scans]
Average IWC = 105.8 gm/km^2
TOTAL Ice = 452.1 tons
Average FREQUENCY = 6.06%
Average ALBEDO = 11.65*10^{-6} sr^{-1}
10 PMCs
NORMALIZED Cumulative Frequency g$_{norm}$(IWC$_n$)
0.1000
0.0100
0.0010
0.0001
0
50
100
150
200
250
300
350
400
450
500
550
Ice Water Content [gm/km^2]
ORBIT NODE choice = ALL nodes
SCATTERING ANGLE range = [90°,165°]
DETECTION threshold = f(SZA)
RESIDUAL filter: $r_{252}/r_{273} < 5$
15:57:58 Wed Jan 23 2013 /Users/deland/pmc/programs/gplot_v3_iwc_sza.pro

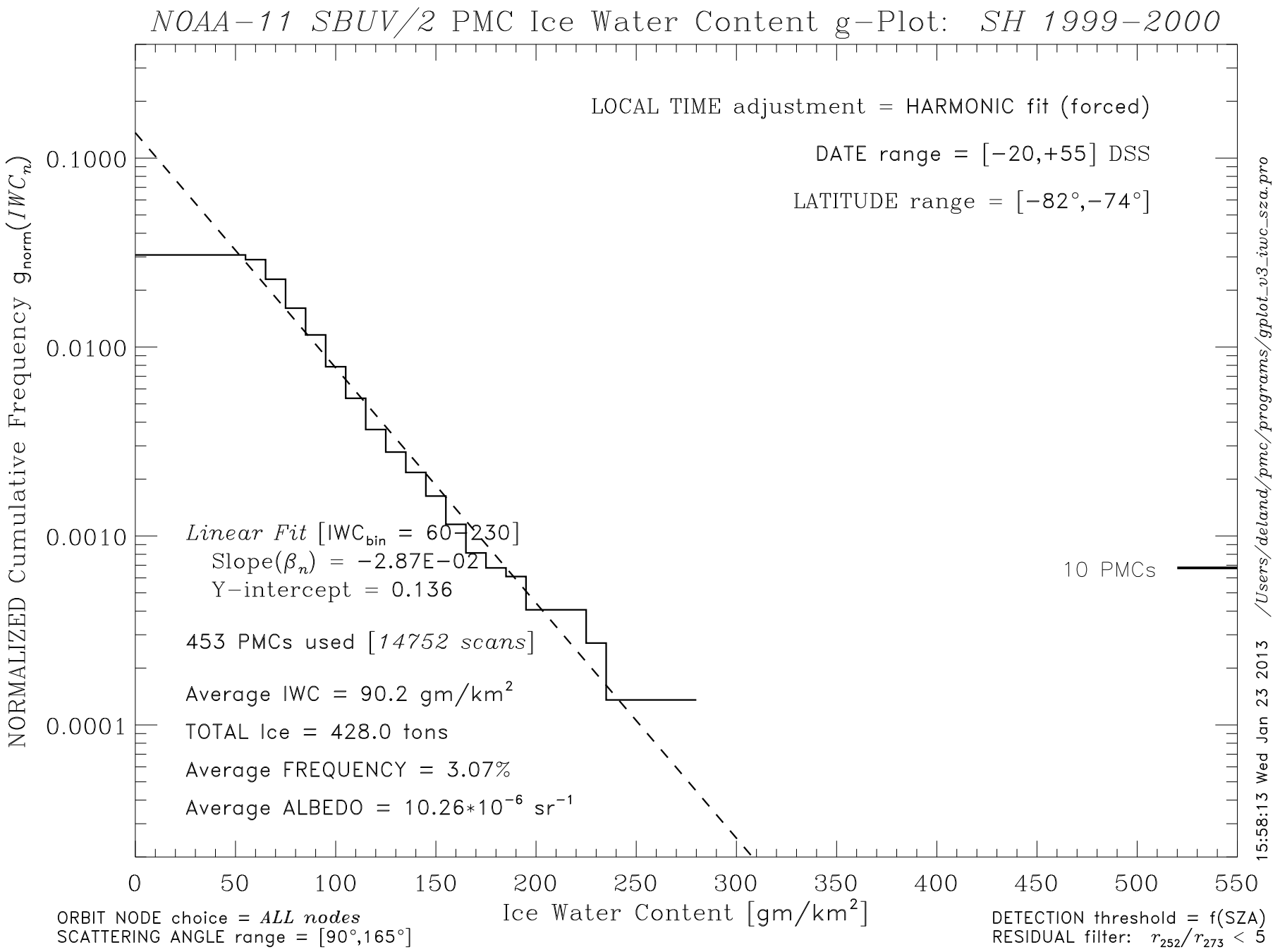
NOAA−11 SBUV/2 PMC Ice Water Content g−Plot: SH 1992−1993
LOCAL TIME adjustment = HARMONIC fit (forced)
DATE range = [−20,+55] DSS
LATITUDE range = [−82°,−74°]
Linear Fit [IWC$_{bin}$ = 70−200]
Slope(β_n) = −3.41E−02
Y−intercept = 0.363
495 PMCs used [13346 scans]
Average IWC = 96.6 gm/km^2
TOTAL Ice = 423.4 tons
Average FREQUENCY = 3.71%
Average ALBEDO = 11.06*10^{-6} sr^{-1}
10 PMCs
NORMALIZED Cumulative Frequency g$_{norm}$(IWC$_n$)
0.1000
0.0100
0.0010
0.0001
0
50
100
150
200
250
300
350
400
450
500
550
Ice Water Content [gm/km^2]
ORBIT NODE choice = ALL nodes
SCATTERING ANGLE range = [90°,165°]
DETECTION threshold = f(SZA)
RESIDUAL filter: $r_{252}/r_{273} < 5$
15:57:59 Wed Jan 23 2013 /Users/deland/pmc/programs/gplot_v3_iwc_sza.pro


NOAA−11 SBUV/2 PMC Ice Water Content g−Plot: SH 1993−1994
LOCAL TIME adjustment = HARMONIC fit (forced)
DATE range = [−20,+55] DSS
LATITUDE range = [−82°,−74°]
NORMALIZED Cumulative Frequency $g_{norm}(IWC_n)$
0.1000
0.0100
0.0010
0.0001
Linear Fit [IWC_{bin} = 60−300]
Slope(β_n) = −2.63E−02
Y−intercept = 0.715
1653 PMCs used [13870 scans]
Average IWC = 107.9 gm/km^2
TOTAL Ice = 487.8 tons
Average FREQUENCY = 11.92%
Average ALBEDO = 12.36∗10^{-6} sr^{-1}
10 PMCs
0
50
100
150
200
250
300
350
400
450
500
550
Ice Water Content [gm/km^2]
ORBIT NODE choice = ALL nodes
SCATTERING ANGLE range = [90°,165°]
DETECTION threshold = f(SZA)
RESIDUAL filter: $r_{252}/r_{273} < 5$
15:57:59 Wed Jan 23 2013 /Users/deland/pmc/programs/gplot_v3_iwc_sza.pro

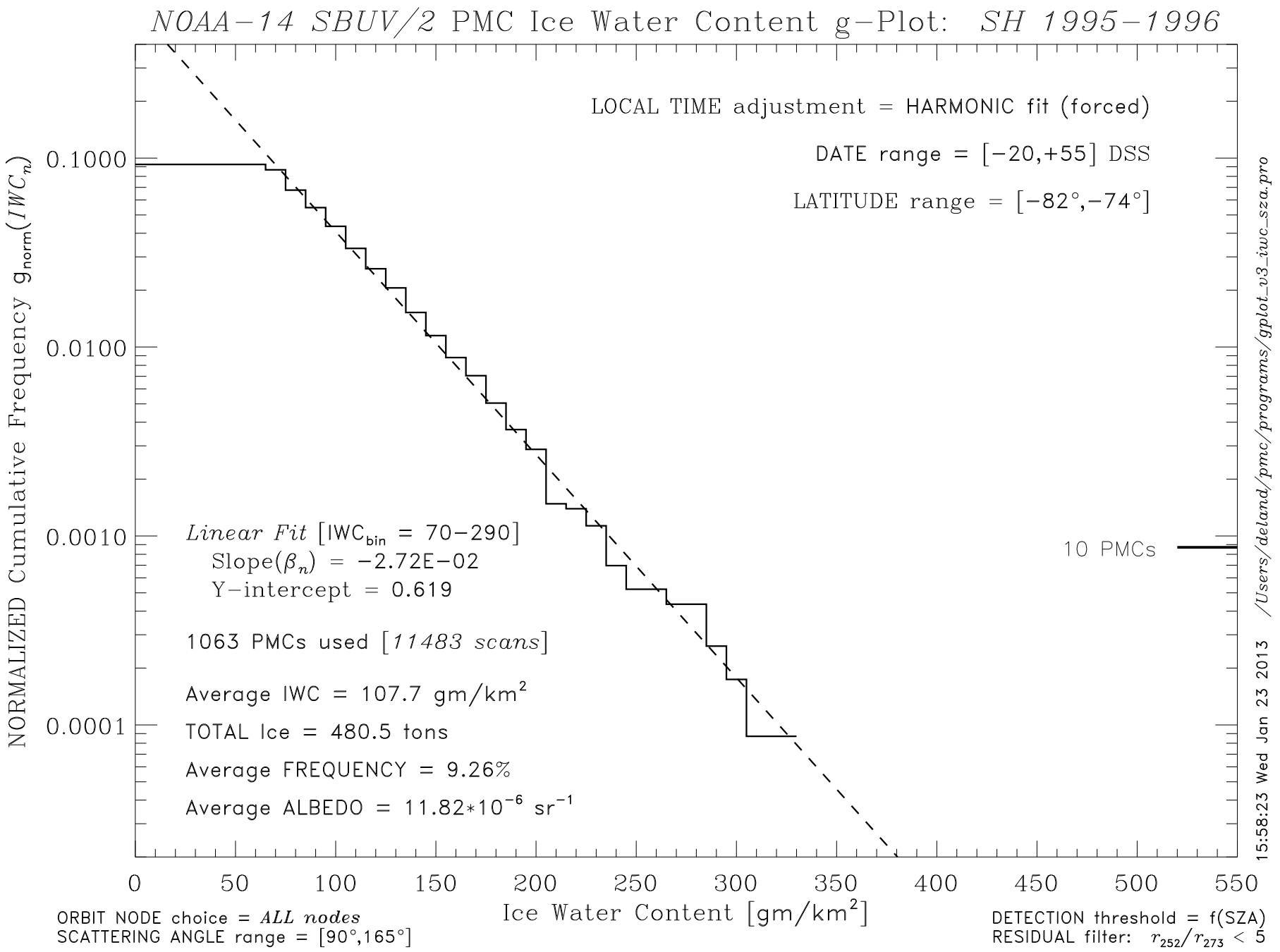

NOAA−11 SBUV/2 PMC Ice Water Content g−Plot: SH 1994−1995
LOCAL TIME adjustment = HARMONIC fit (forced)
DATE range = [−20,+55] DSS
LATITUDE range = [−82°,−74°]
NORMALIZED Cumulative Frequency $g_{norm}(IWC_n)$
0.1000
0.0100
0.0010
0.0001
Linear Fit [IWC_{bin} = 70−340]
Slope(β_n) = −2.29E−02
Y−intercept = 0.908
2054 PMCs used [13485 scans]
Average IWC = 120.4 gm/km^2
TOTAL Ice = 524.1 tons
Average FREQUENCY = 15.23%
Average ALBEDO = 13.92∗10^{-6} sr^{-1}
10 PMCs
0
50
100
150
200
250
300
350
400
450
500
550
Ice Water Content [gm/km^2]
ORBIT NODE choice = ALL nodes
SCATTERING ANGLE range = [90°,165°]
DETECTION threshold = f(SZA)
RESIDUAL filter: $r_{252}/r_{273} < 5$
15:58:00 Wed Jan 23 2013 /Users/deland/pmc/programs/gplot_v3_iwc_sza.pro

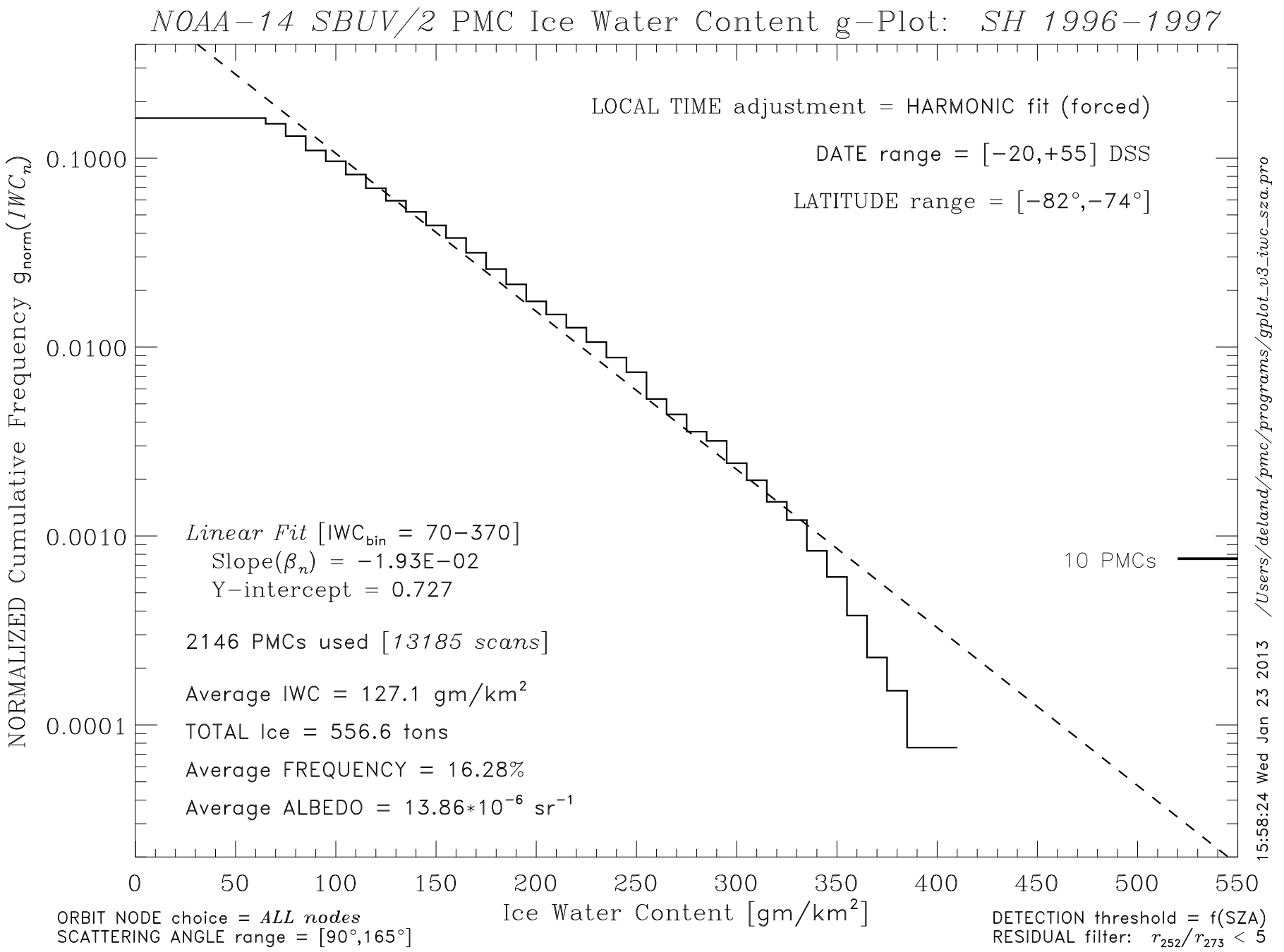

NOAA-11 SBUV/2 PMC Ice Water Content g-Plot: SH 1997-1998
LOCAL TIME adjustment = HARMONIC fit (forced)
DATE range = [-20,+55] DSS
LATITUDE range = [-82°,-74°]
NORMALIZED Cumulative Frequency $g_{norm}(IWC_n)$
0.1000
0.0100
0.0010
0.0001
Linear Fit [IWC_{bin} = 60-330]
Slope(β_n) = -2.28E-02
Y-intercept = 0.603
1884 PMCs used [14603 scans]
Average IWC = 113.0 gm/km^2
TOTAL Ice = 507.2 tons
Average FREQUENCY = 12.90%
Average ALBEDO = 12.70*10^{-6} sr^{-1}
10 PMCs
0
50
100
150
200
250
300
350
400
450
500
550
Ice Water Content [gm/km^2]
15:58:12 Wed Jan 23 2013 /Users/deland/pmc/programs/gplot_v3_iwc_sza.pro
ORBIT NODE choice = ALL nodes
SCATTERING ANGLE range = [90°,165°]
DETECTION threshold = f(SZA)
RESIDUAL filter: $r_{252}/r_{273} < 5$

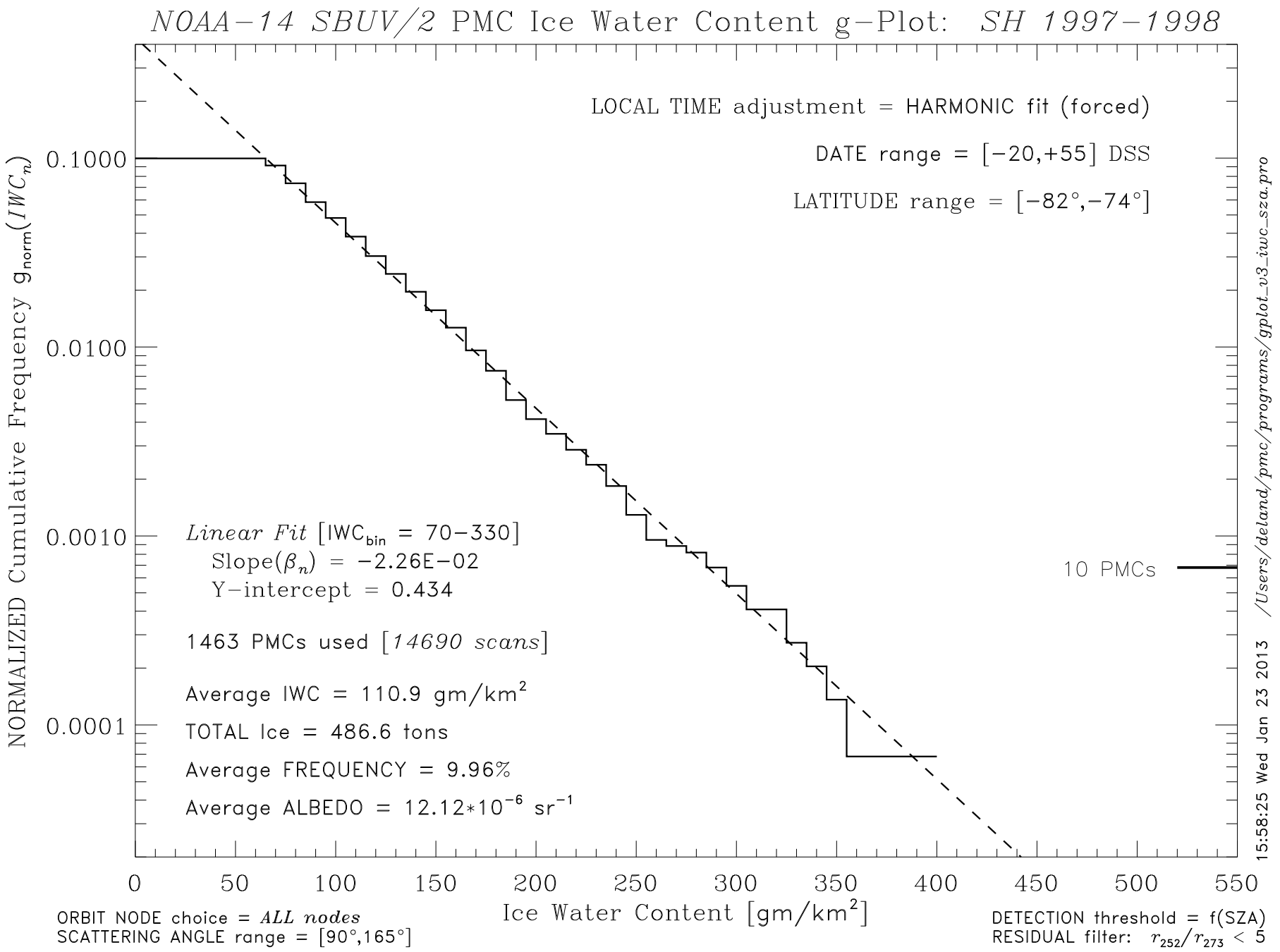
NOAA−11 SBUV/2 PMC Ice Water Content g−Plot: SH 1998−1999
LOCAL TIME adjustment = HARMONIC fit (forced)
DATE range = [−20,+55] DSS
LATITUDE range = [−82°,−74°]
10 PMCs
Linear Fit [IWC$_{bin}$ = 60−200]
Slope(β_n) = −3.00E−02
Y−intercept = 0.219
548 PMCs used [14261 scans]
Average IWC = 93.1 gm/km^2
TOTAL Ice = 427.0 tons
Average FREQUENCY = 3.84%
Average ALBEDO = 10.78*10^{-6} sr^{-1}
NORMALIZED Cumulative Frequency g$_{norm}$(IWC$_n$)
0.1000
0.0100
0.0010
0.0001
0
50
100
150
200
250
300
350
400
450
500
550
Ice Water Content [gm/km^2]
ORBIT NODE choice = ALL nodes
SCATTERING ANGLE range = [90°,165°]
DETECTION threshold = f(SZA)
RESIDUAL filter: $r_{252}/r_{273} < 5$
15:58:12 Wed Jan 23 2013 /Users/deland/pmc/programs/gplot_v3_iwc_sza.pro


NOAA-11 SBUV/2 PMC Ice Water Content g-Plot: SH 1999-2000
LOCAL TIME adjustment = HARMONIC fit (forced)
DATE range = [-20,+55] DSS
LATITUDE range = [-82°,-74°]
NORMALIZED Cumulative Frequency $g_{norm}(IWC_n)$
0.1000
0.0100
0.0010
0.0001
Linear Fit [IWC_bin = 60-230]
Slope(β_n) = -2.87E-02
Y-intercept = 0.136
453 PMCs used [14752 scans]
Average IWC = 90.2 gm/km^2
TOTAL Ice = 428.0 tons
Average FREQUENCY = 3.07%
Average ALBEDO = 10.26*10^{-6} sr^{-1}
10 PMCs
0
50
100
150
200
250
300
350
400
450
500
550
Ice Water Content [gm/km^2]
15:58:13 Wed Jan 23 2013 /Users/deland/pmc/programs/gplot_v3_iwc_sza.pro
ORBIT NODE choice = ALL nodes
SCATTERING ANGLE range = [90°,165°]
DETECTION threshold = f(SZA)
RESIDUAL filter: $r_{252}/r_{273} < 5$

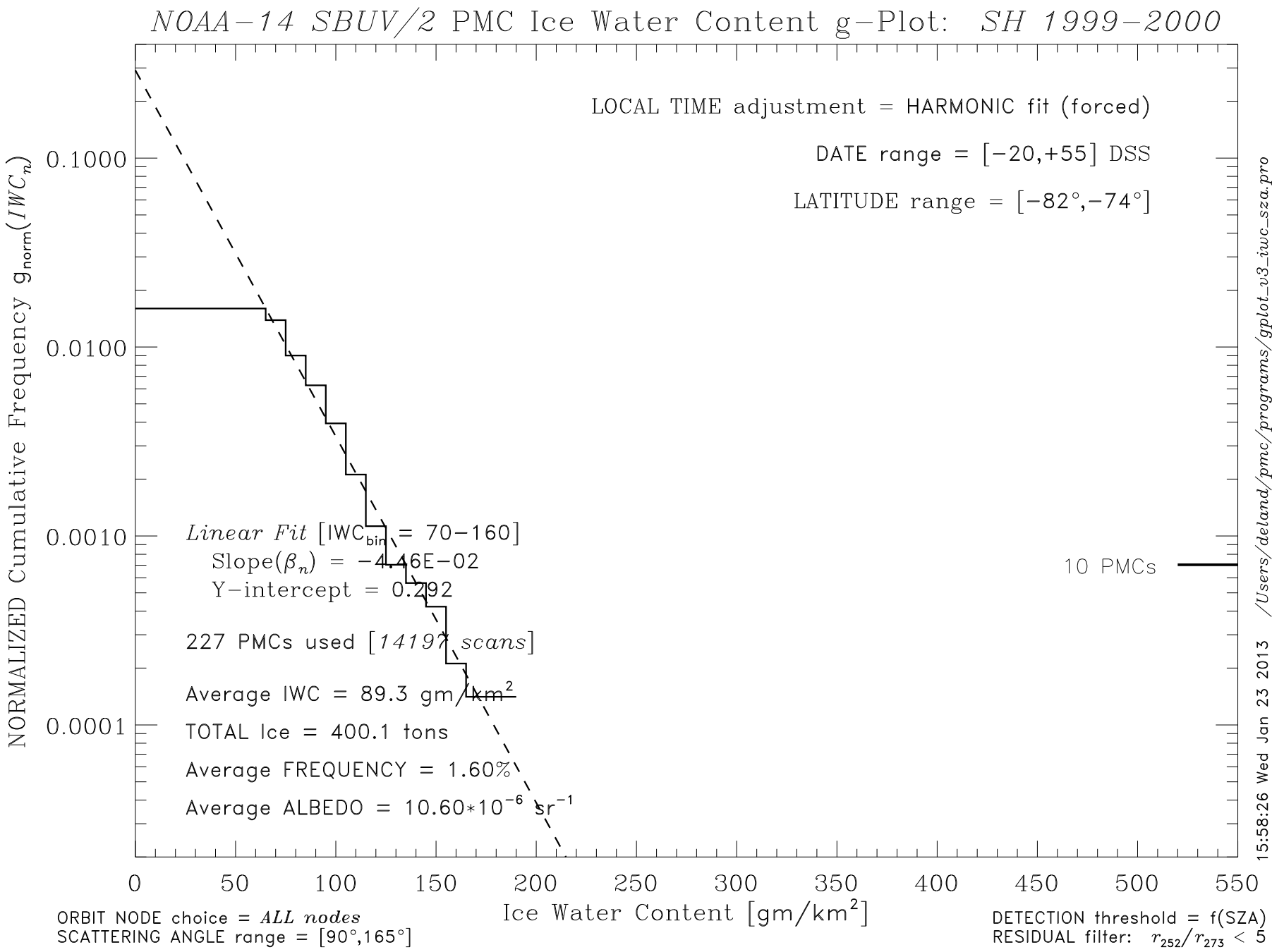
NOAA-11 SBUV/2 PMC Ice Water Content g-Plot: SH 2000-2001
LOCAL TIME adjustment = HARMONIC fit (forced)
DATE range = [-20,+55] DSS
LATITUDE range = [-82°,-74°]
10 PMCs
Linear Fit [IWCbin = 60-320]
Slope(βn) = -2.21E-02
Y-intercept = 0.461
1656 PMCs used [14166 scans]
Average IWC = 110.0 gm/km2
TOTAL Ice = 506.8 tons
Average FREQUENCY = 11.69%
Average ALBEDO = 12.12*10-6 sr-1
NORMALIZED Cumulative Frequency gnorm(IWCn)
0.1000
0.0100
0.0010
0.0001
0
50
100
150
200
250
300
350
400
450
500
550
Ice Water Content [gm/km2]
ORBIT NODE choice = ALL nodes
SCATTERING ANGLE range = [90°,165°]
DETECTION threshold = f(SZA)
RESIDUAL filter: r252/r273 < 5
15:58:14 Wed Jan 23 2013 /Users/deland/pmc/programs/gplot_v3_iwc_sza.pro


NOAA−14 SBUV/2 PMC Ice Water Content g−Plot: SH 1995−1996
LOCAL TIME adjustment = HARMONIC fit (forced)
DATE range = [−20,+55] DSS
LATITUDE range = [−82°,−74°]
NORMALIZED Cumulative Frequency $g_{norm}(IWC_n)$
0.1000
0.0100
0.0010
0.0001
Linear Fit [IWC_{bin} = 70−290]
Slope(β_n) = −2.72E−02
Y−intercept = 0.619
1063 PMCs used [11483 scans]
Average IWC = 107.7 gm/km^2
TOTAL Ice = 480.5 tons
Average FREQUENCY = 9.26%
Average ALBEDO = 11.82∗10^{-6} sr^{-1}
10 PMCs
0
50
100
150
200
250
300
350
400
450
500
550
Ice Water Content [gm/km^2]
ORBIT NODE choice = ALL nodes
SCATTERING ANGLE range = [90°,165°]
DETECTION threshold = f(SZA)
RESIDUAL filter: $r_{252}/r_{273} < 5$
15:58:23 Wed Jan 23 2013 /Users/deland/pmc/programs/gplot_v3_iwc_sza.pro

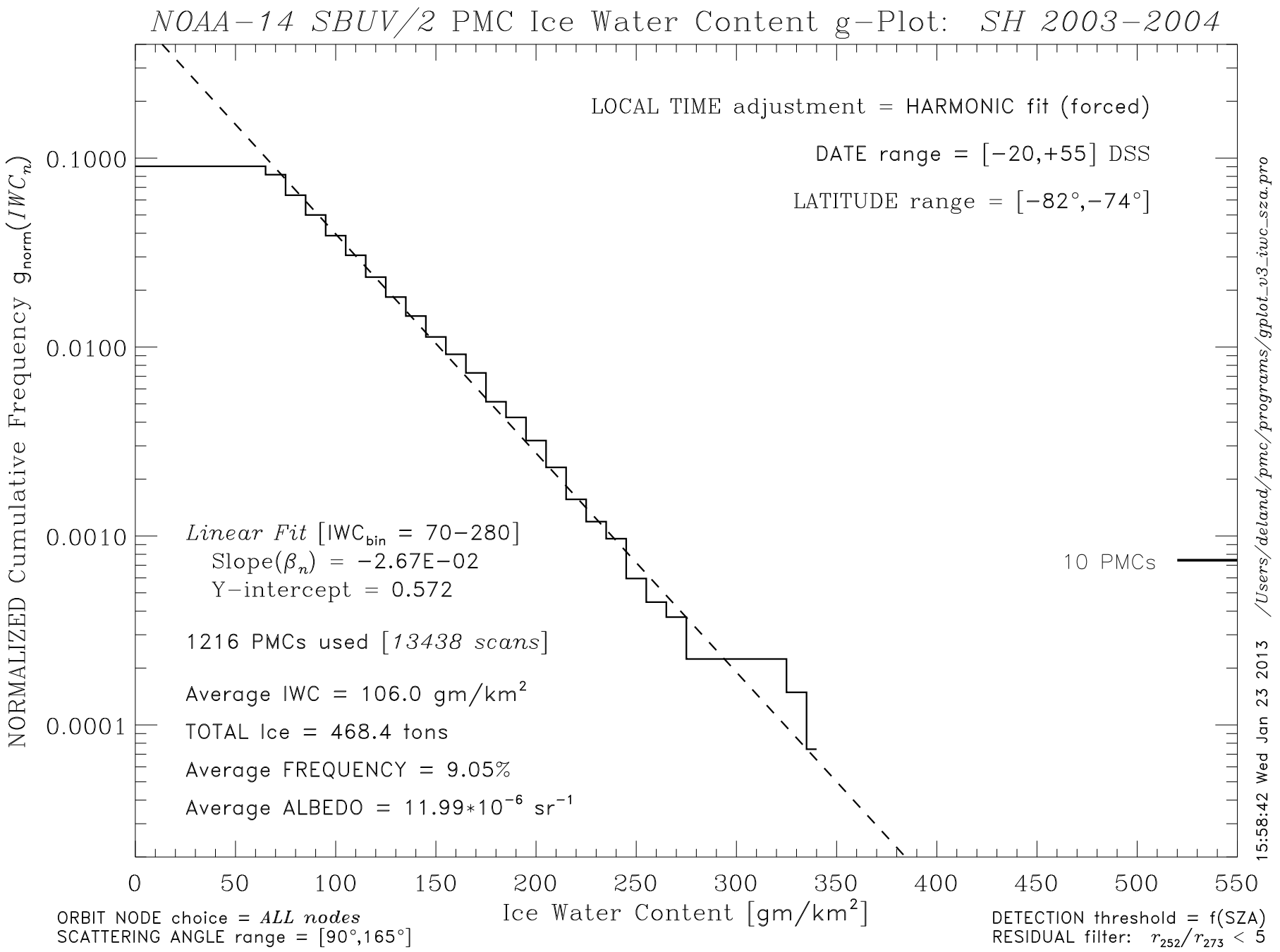

NOAA−14 SBUV/2 PMC Ice Water Content g−Plot: SH 1996−1997
LOCAL TIME adjustment = HARMONIC fit (forced)
DATE range = [−20,+55] DSS
LATITUDE range = [−82°,−74°]
NORMALIZED Cumulative Frequency $g_{norm}(IWC_n)$
0.1000
0.0100
0.0010
0.0001
Linear Fit [IWC_{bin} = 70−370]
Slope(β_n) = −1.93E−02
Y−intercept = 0.727
2146 PMCs used [13185 scans]
Average IWC = 127.1 gm/km^2
TOTAL Ice = 556.6 tons
Average FREQUENCY = 16.28%
Average ALBEDO = 13.86∗10^{-6} sr^{-1}
10 PMCs
0
50
100
150
200
250
300
350
400
450
500
550
Ice Water Content [gm/km^2]
ORBIT NODE choice = ALL nodes
SCATTERING ANGLE range = [90°,165°]
DETECTION threshold = f(SZA)
RESIDUAL filter: $r_{252}/r_{273} < 5$
15:58:24 Wed Jan 23 2013 /Users/deland/pmc/programs/gplot_v3_iwc_sza.pro


NOAA−14 SBUV/2 PMC Ice Water Content g−Plot: SH 1997−1998
LOCAL TIME adjustment = HARMONIC fit (forced)
DATE range = [−20,+55] DSS
LATITUDE range = [−82°,−74°]
NORMALIZED Cumulative Frequency $g_{norm}(IWC_n)$
0.1000
0.0100
0.0010
0.0001
Linear Fit [IWC_{bin} = 70−330]
Slope(β_n) = −2.26E−02
Y−intercept = 0.434
1463 PMCs used [14690 scans]
Average IWC = 110.9 gm/km^2
TOTAL Ice = 486.6 tons
Average FREQUENCY = 9.96%
Average ALBEDO = 12.12∗10^{-6} sr^{-1}
10 PMCs
0
50
100
150
200
250
300
350
400
450
500
550
Ice Water Content [gm/km^2]
ORBIT NODE choice = ALL nodes
SCATTERING ANGLE range = [90°,165°]
DETECTION threshold = f(SZA)
RESIDUAL filter: $r_{252}/r_{273} < 5$
15:58:25 Wed Jan 23 2013 /Users/deland/pmc/programs/gplot_v3_iwc_sza.pro

NOAA−14 SBUV/2 PMC Ice Water Content g−Plot: SH 1998−1999
LOCAL TIME adjustment = HARMONIC fit (forced)
DATE range = [−20,+55] DSS
LATITUDE range = [−82°,−74°]
Linear Fit [IWC_bin = 20−210]
Slope(β_n) = −3.16E+02
Y−intercept = 0.123
275 PMCs used [14287 scans]
Average IWC = 92.9 gm/km²
TOTAL Ice = 409.0 tons
Average FREQUENCY = 1.92%
Average ALBEDO = 10.71*10⁻⁶ sr⁻¹
10 PMCs
NORMALIZED Cumulative Frequency g_norm(IWC_n)
0.1000
0.0100
0.0010
0.0001
0
50
100
150
200
250
300
350
400
450
500
550
Ice Water Content [gm/km²]
ORBIT NODE choice = ALL nodes
SCATTERING ANGLE range = [90°,165°]
DETECTION threshold = f(SZA)
RESIDUAL filter: r252/r273 < 5
15:58:25 Wed Jan 23 2013 /Users/deland/pmc/programs/gplot_v3_iwc_sza.pro

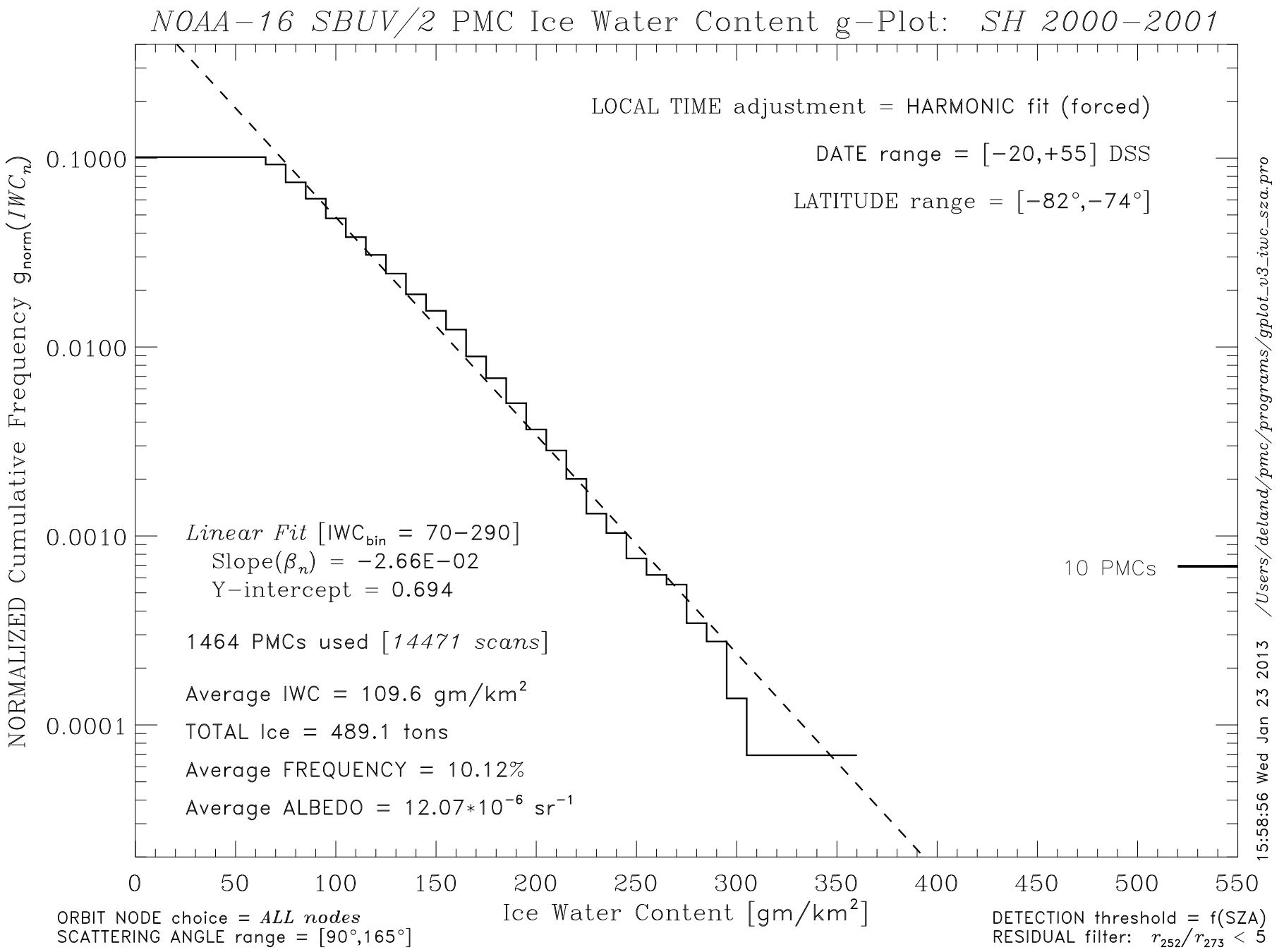

NOAA−14 SBUV/2 PMC Ice Water Content g−Plot: SH 1999−2000
LOCAL TIME adjustment = HARMONIC fit (forced)
DATE range = [−20,+55] DSS
LATITUDE range = [−82°,−74°]
NORMALIZED Cumulative Frequency $g_{norm}(IWC_n)$
0.1000
0.0100
0.0010
0.0001
Linear Fit [IWC_{bin} = 70−160]
Slope(β_n) = −4.46E−02
Y−intercept = 0.292
227 PMCs used [14197 scans]
Average IWC = 89.3 gm/km^2
TOTAL Ice = 400.1 tons
Average FREQUENCY = 1.60%
Average ALBEDO = 10.60*10^{-6} sr^{-1}
10 PMCs
0
50
100
150
200
250
300
350
400
450
500
550
Ice Water Content [gm/km^2]
ORBIT NODE choice = ALL nodes
SCATTERING ANGLE range = [90°,165°]
DETECTION threshold = f(SZA)
RESIDUAL filter: $r_{252}/r_{273} < 5$
15:58:26 Wed Jan 23 2013 /Users/deland/pmc/programs/gplot_v3_iwc_sza.pro

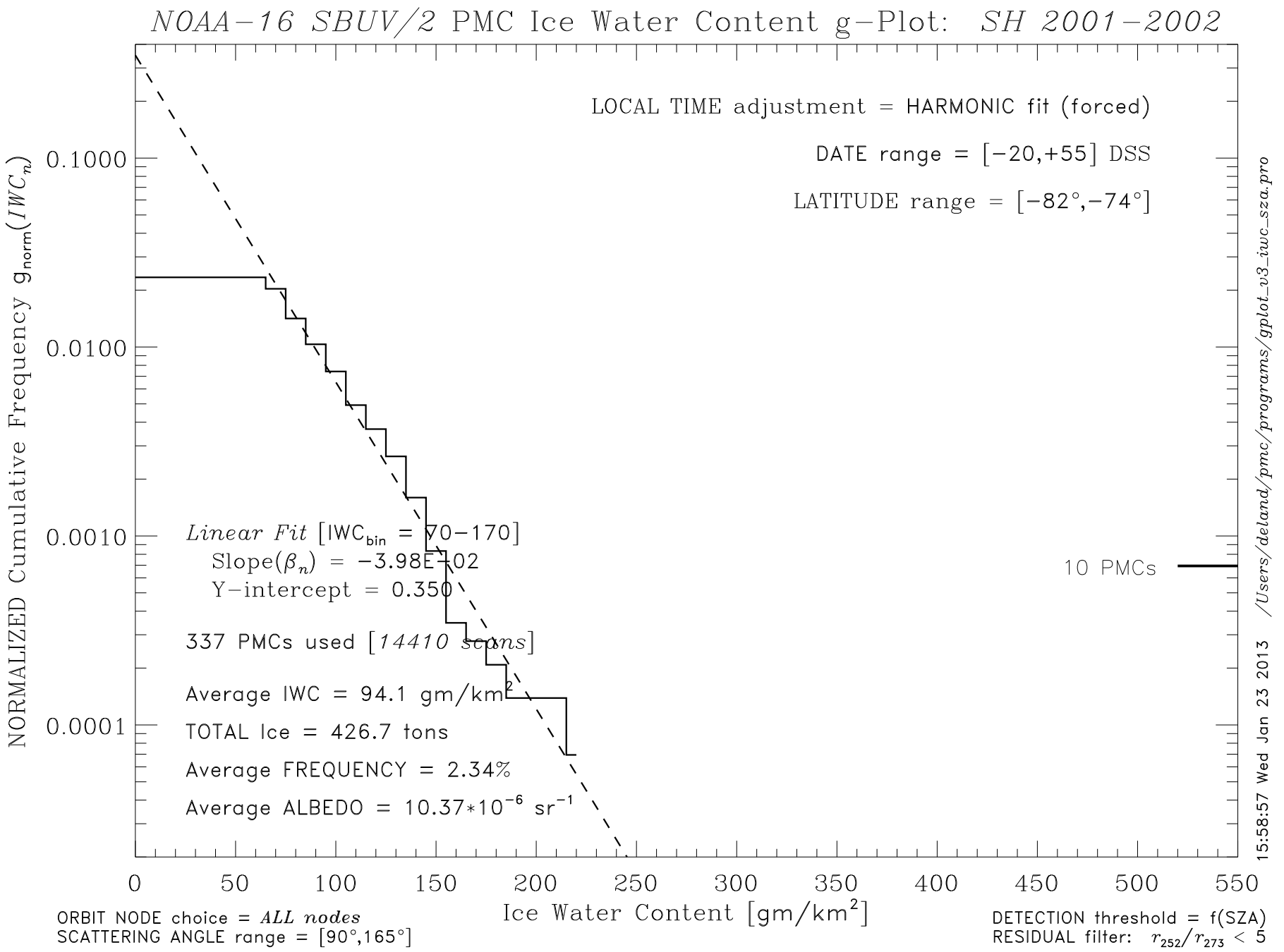
NOAA-14 SBUV/2 PMC Ice Water Content g-Plot: SH 2000-2001
LOCAL TIME adjustment = HARMONIC fit (forced)
DATE range = [-20,+55] DSS
LATITUDE range = [-82°,-74°]
10 PMCs
Linear Fit [IWCbin = 70-270]
Slope(βn) = -2.65E-02
Y-intercept = 0.645
1487 PMCs used [14469 scans]
Average IWC = 107.3 gm/km2
TOTAL Ice = 470.9 tons
Average FREQUENCY = 10.28%
Average ALBEDO = 12.60*10-6 sr-1
NORMALIZED Cumulative Frequency gnorm(IWCn)
0.1000
0.0100
0.0010
0.0001
0
50
100
150
200
250
300
350
400
450
500
550
Ice Water Content [gm/km2]
ORBIT NODE choice = ALL nodes
SCATTERING ANGLE range = [90°,165°]
DETECTION threshold = f(SZA)
RESIDUAL filter: r252/r273 < 5
15:58:27 Wed Jan 23 2013 /Users/deland/pmc/programs/gplot_v3_iwc_sza.pro


NOAA−14 SBUV/2 PMC Ice Water Content g−Plot: SH 2003−2004
LOCAL TIME adjustment = HARMONIC fit (forced)
DATE range = [−20,+55] DSS
LATITUDE range = [−82°,−74°]
NORMALIZED Cumulative Frequency $g_{norm}(IWC_n)$
0.1000
0.0100
0.0010
0.0001
Linear Fit [IWC_{bin} = 70−280]
Slope(β_n) = −2.67E−02
Y−intercept = 0.572
1216 PMCs used [13438 scans]
Average IWC = 106.0 gm/km^2
TOTAL Ice = 468.4 tons
Average FREQUENCY = 9.05%
Average ALBEDO = 11.99∗10^{-6} sr^{-1}
10 PMCs
0
50
100
150
200
250
300
350
400
450
500
550
Ice Water Content [gm/km^2]
ORBIT NODE choice = ALL nodes
SCATTERING ANGLE range = [90°,165°]
DETECTION threshold = f(SZA)
RESIDUAL filter: $r_{252}/r_{273} < 5$
15:58:42 Wed Jan 23 2013 /Users/deland/pmc/programs/gplot_v3_iwc_sza.pro

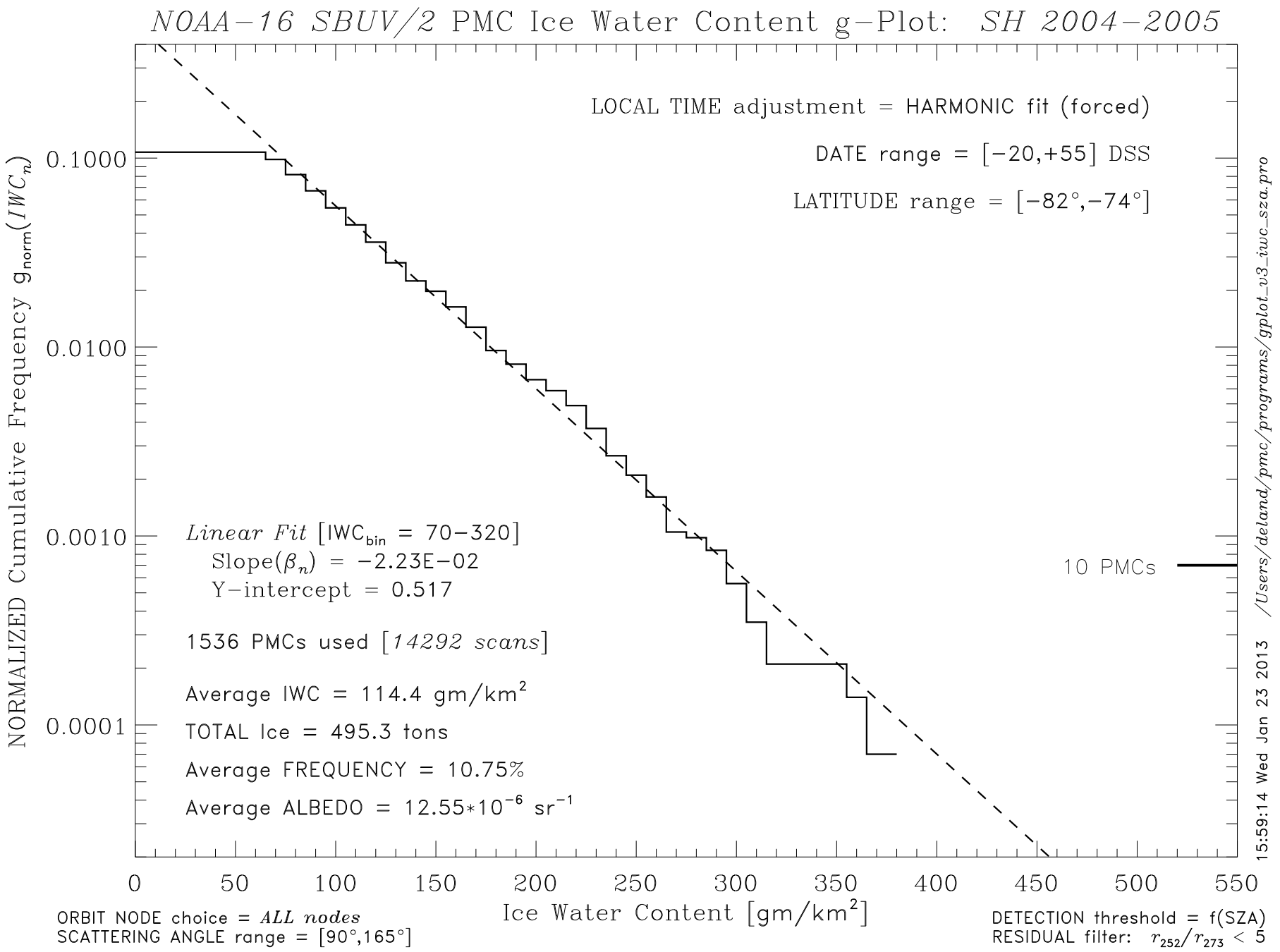
NOAA−14 SBUV/2 PMC Ice Water Content g−Plot: SH 2004−2005
LOCAL TIME adjustment = HARMONIC fit (forced)
DATE range = [−20,+55] DSS
LATITUDE range = [−82°,−74°]
Linear Fit [IWC$_{bin}$ = 70−310]
Slope(β_n) = −2.24E−02
Y−intercept = 0.826
1812 PMCs used [12949 scans]
Average IWC = 121.7 gm/km^2
TOTAL Ice = 524.2 tons
Average FREQUENCY = 13.99%
Average ALBEDO = 13.72*10^{-6} sr^{-1}
10 PMCs
NORMALIZED Cumulative Frequency g$_{norm}$(IWC$_n$)
0.1000
0.0100
0.0010
0.0001
0
50
100
150
200
250
300
350
400
450
500
550
Ice Water Content [gm/km^2]
ORBIT NODE choice = ALL nodes
SCATTERING ANGLE range = [90°,165°]
DETECTION threshold = f(SZA)
RESIDUAL filter: $r_{252}/r_{273} < 5$
15:58:42 Wed Jan 23 2013 /Users/deland/pmc/programs/gplot_v3_iwc_sza.pro

NOAA−14 SBUV/2 PMC Ice Water Content g−Plot: SH 2005−2006
LOCAL TIME adjustment = HARMONIC fit (forced)
DATE range = [−20,+55] DSS
LATITUDE range = [−82°,−74°]
Linear Fit [IWC$_{bin}$ = 70−280]
Slope(β_n) = −2.83E−02
Y−intercept = 0.866
1233 PMCs used [11829 scans]
Average IWC = 110.0 gm/km^2
TOTAL Ice = 493.8 tons
Average FREQUENCY = 10.42%
Average ALBEDO = 12.09*10^{-6} sr^{-1}
10 PMCs
NORMALIZED Cumulative Frequency g$_{norm}$(IWC$_n$)
0.1000
0.0100
0.0010
0.0001
0
50
100
150
200
250
300
350
400
450
500
550
Ice Water Content [gm/km^2]
ORBIT NODE choice = ALL nodes
SCATTERING ANGLE range = [90°,165°]
DETECTION threshold = f(SZA)
RESIDUAL filter: $r_{252}/r_{273} < 5$
15:58:43 Wed Jan 23 2013 /Users/deland/pmc/programs/gplot_v3_iwc_sza.pro

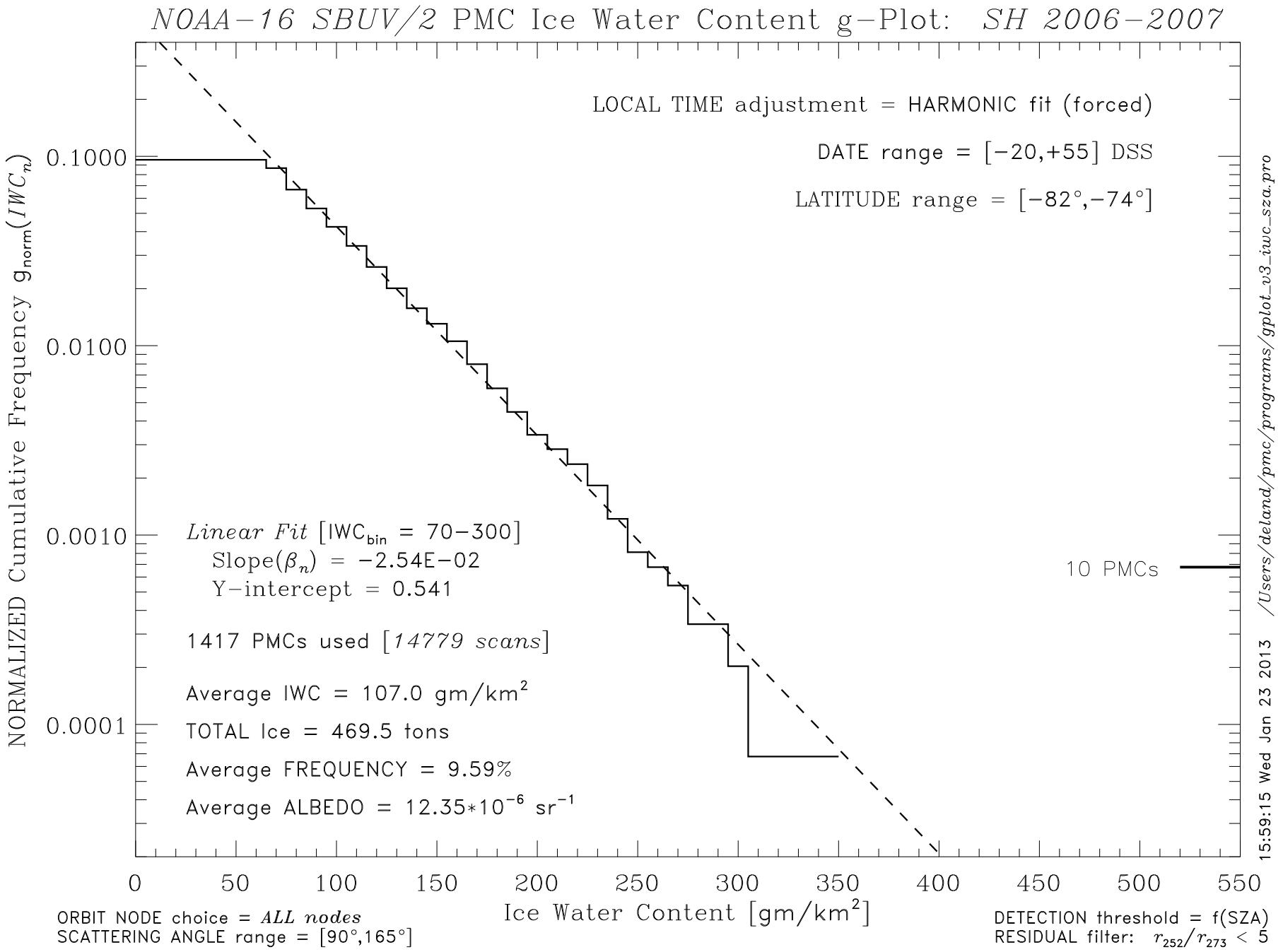

NOAA−16 SBUV/2 PMC Ice Water Content g−Plot: SH 2000−2001
LOCAL TIME adjustment = HARMONIC fit (forced)
DATE range = [−20,+55] DSS
LATITUDE range = [−82°,−74°]
NORMALIZED Cumulative Frequency $g_{norm}(IWC_n)$
0.1000
0.0100
0.0010
0.0001
Linear Fit [IWC_{bin} = 70−290]
Slope(β_n) = −2.66E−02
Y−intercept = 0.694
1464 PMCs used [14471 scans]
Average IWC = 109.6 gm/km^2
TOTAL Ice = 489.1 tons
Average FREQUENCY = 10.12%
Average ALBEDO = 12.07∗10^{-6} sr^{-1}
10 PMCs
0
50
100
150
200
250
300
350
400
450
500
550
Ice Water Content [gm/km^2]
ORBIT NODE choice = ALL nodes
SCATTERING ANGLE range = [90°,165°]
DETECTION threshold = f(SZA)
RESIDUAL filter: $r_{252}/r_{273} < 5$
15:58:56 Wed Jan 23 2013 /Users/deland/pmc/programs/gplot_v3_iwc_sza.pro


NOAA−16 SBUV/2 PMC Ice Water Content g−Plot: SH 2001−2002
LOCAL TIME adjustment = HARMONIC fit (forced)
DATE range = [−20,+55] DSS
LATITUDE range = [−82°,−74°]
NORMALIZED Cumulative Frequency $g_{norm}(IWC_n)$
0.1000
0.0100
0.0010
0.0001
Linear Fit [IWC_bin = 70−170]
Slope(β_n) = −3.98E−02
Y−intercept = 0.350
337 PMCs used [14410 scans]
Average IWC = 94.1 gm/km^2
TOTAL Ice = 426.7 tons
Average FREQUENCY = 2.34%
Average ALBEDO = 10.37*10^{-6} sr^{-1}
10 PMCs
0
50
100
150
200
250
300
350
400
450
500
550
Ice Water Content [gm/km^2]
ORBIT NODE choice = ALL nodes
SCATTERING ANGLE range = [90°,165°]
DETECTION threshold = f(SZA)
RESIDUAL filter: $r_{252}/r_{273} < 5$
15:58:57 Wed Jan 23 2013 /Users/deland/pmc/programs/gplot_v3_iwc_sza.pro

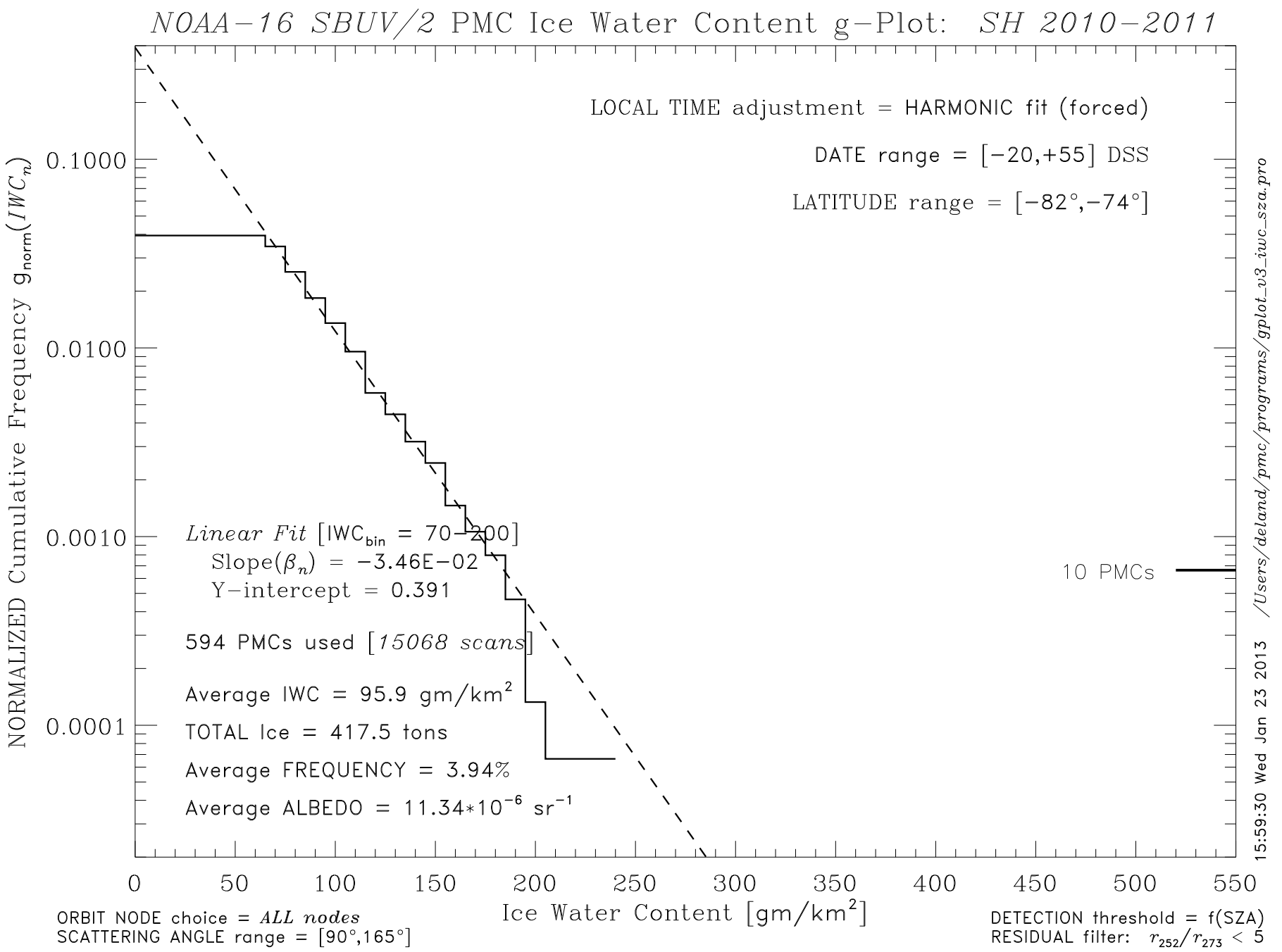
NOAA−16 SBUV/2 PMC Ice Water Content g−Plot: SH 2002−2003
LOCAL TIME adjustment = HARMONIC fit (forced)
DATE range = [−20,+55] DSS
LATITUDE range = [−82°,−74°]
Linear Fit [IWC$_{bin}$ = 70−270]
Slope(β_n) = −2.80E−02
Y−intercept = 0.466
1058 PMCs used [14969 scans]
Average IWC = 103.7 gm/km^2
TOTAL Ice = 463.1 tons
Average FREQUENCY = 7.07%
Average ALBEDO = 11.40*10^{-6} sr^{-1}
10 PMCs
NORMALIZED Cumulative Frequency g$_{norm}$(IWC$_n$)
0.1000
0.0100
0.0010
0.0001
0
50
100
150
200
250
300
350
400
450
500
550
Ice Water Content [gm/km^2]
ORBIT NODE choice = ALL nodes
SCATTERING ANGLE range = [90°,165°]
DETECTION threshold = f(SZA)
RESIDUAL filter: $r_{252}/r_{273} < 5$
15:58:58 Wed Jan 23 2013 /Users/deland/pmc/programs/gplot_v3_iwc_sza.pro


NOAA-16 SBUV/2 PMC Ice Water Content g-Plot: SH 2004-2005
LOCAL TIME adjustment = HARMONIC fit (forced)
DATE range = [-20,+55] DSS
LATITUDE range = [-82°,-74°]
NORMALIZED Cumulative Frequency $g_{norm}(IWC_n)$
0.1000
0.0100
0.0010
0.0001
Linear Fit [IWC_{bin} = 70-320]
Slope(β_n) = -2.23E-02
Y-intercept = 0.517
1536 PMCs used [14292 scans]
Average IWC = 114.4 gm/km^2
TOTAL Ice = 495.3 tons
Average FREQUENCY = 10.75%
Average ALBEDO = 12.55*10^{-6} sr^{-1}
10 PMCs
0
50
100
150
200
250
300
350
400
450
500
550
Ice Water Content [gm/km^2]
ORBIT NODE choice = ALL nodes
SCATTERING ANGLE range = [90°,165°]
DETECTION threshold = f(SZA)
RESIDUAL filter: $r_{252}/r_{273} < 5$
15:59:14 Wed Jan 23 2013 /Users/deland/pmc/programs/gplot_v3_iwc_sza.pro

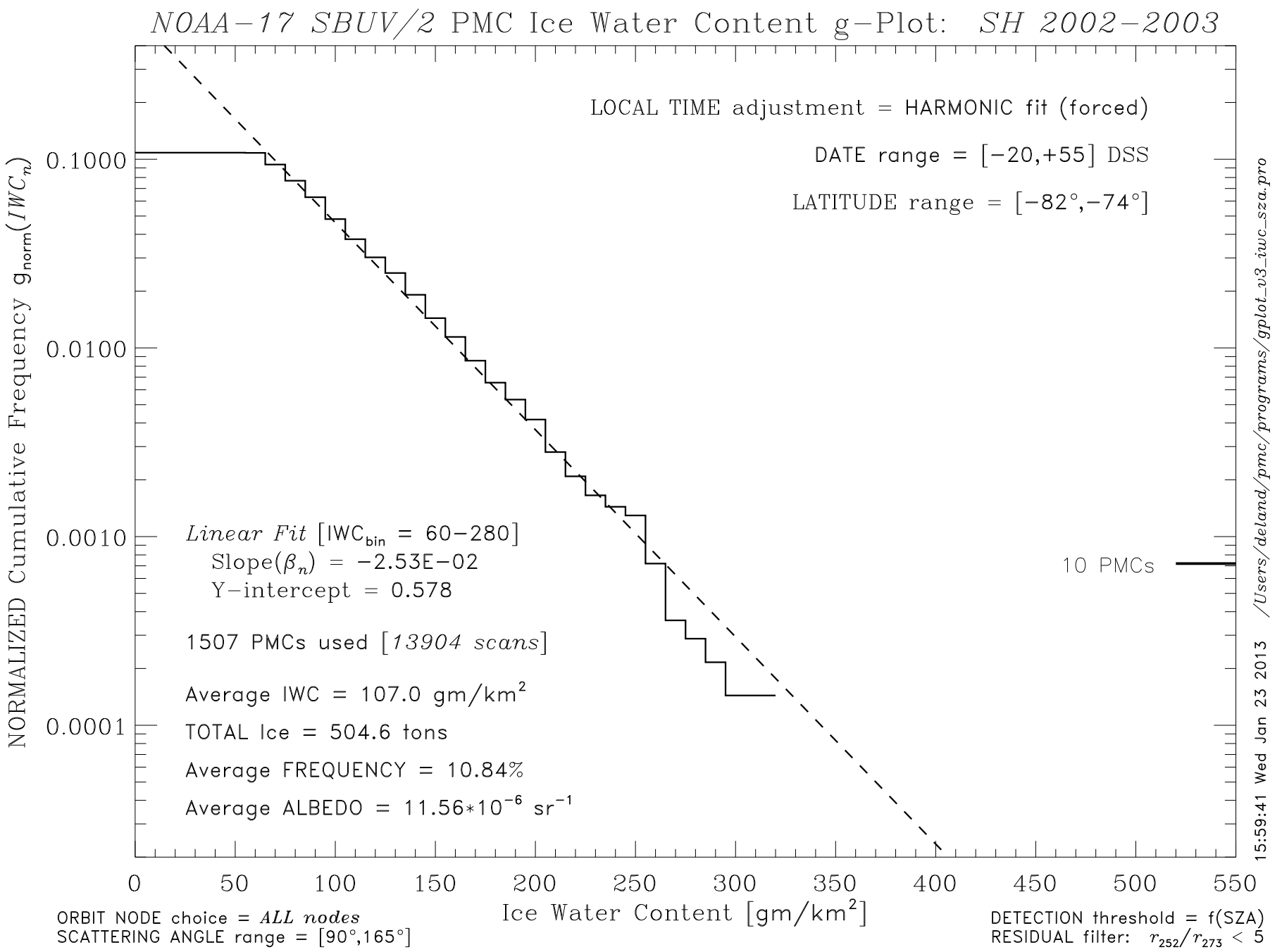
NOAA−16 SBUV/2 PMC Ice Water Content g−Plot: SH 2005−2006
LOCAL TIME adjustment = HARMONIC fit (forced)
DATE range = [−20,+55] DSS
LATITUDE range = [−82°,−74°]
Linear Fit [IWC$_{bin}$ = 70−320]
Slope(β_n) = −2.38E−02
Y−intercept = 0.394
1277 PMCs used [14808 scans]
Average IWC = 108.1 gm/km^2
TOTAL Ice = 469.9 tons
Average FREQUENCY = 8.62%
Average ALBEDO = 11.99*10^{-6} sr^{-1}
10 PMCs
NORMALIZED Cumulative Frequency g$_{norm}$(IWC$_n$)
0.1000
0.0100
0.0010
0.0001
0
50
100
150
200
250
300
350
400
450
500
550
Ice Water Content [gm/km^2]
ORBIT NODE choice = ALL nodes
SCATTERING ANGLE range = [90°,165°]
DETECTION threshold = f(SZA)
RESIDUAL filter: $r_{252}/r_{273} < 5$
15:59:15 Wed Jan 23 2013 /Users/deland/pmc/programs/gplot_v3_iwc_sza.pro


NOAA−16 SBUV/2 PMC Ice Water Content g−Plot: SH 2006−2007
LOCAL TIME adjustment = HARMONIC fit (forced)
DATE range = [−20,+55] DSS
LATITUDE range = [−82°,−74°]
NORMALIZED Cumulative Frequency $g_{norm}(IWC_n)$
0.1000
0.0100
0.0010
0.0001
Linear Fit [IWC_{bin} = 70−300]
Slope(β_n) = −2.54E−02
Y−intercept = 0.541
1417 PMCs used [14779 scans]
Average IWC = 107.0 gm/km^2
TOTAL Ice = 469.5 tons
Average FREQUENCY = 9.59%
Average ALBEDO = 12.35∗10^{-6} sr^{-1}
10 PMCs
0
50
100
150
200
250
300
350
400
450
500
550
Ice Water Content [gm/km^2]
15:59:15 Wed Jan 23 2013 /Users/deland/pmc/programs/gplot_v3_iwc_sza.pro
ORBIT NODE choice = ALL nodes
SCATTERING ANGLE range = [90°,165°]
DETECTION threshold = f(SZA)
RESIDUAL filter: $r_{252}/r_{273} < 5$

NOAA−16 SBUV/2 PMC Ice Water Content g−Plot: SH 2007−2008
LOCAL TIME adjustment = HARMONIC fit (forced)
DATE range = [−20,+55] DSS
LATITUDE range = [−82°,−74°]
Linear Fit [IWC$_{bin}$ = 70−280]
Slope(β_n) = −2.54E−02
Y−intercept = 0.295
858 PMCs used [14717 scans]
Average IWC = 104.5 gm/km^2
TOTAL Ice = 433.1 tons
Average FREQUENCY = 5.83%
Average ALBEDO = 12.34*10^{-6} sr^{-1}
10 PMCs
NORMALIZED Cumulative Frequency g$_{norm}$(IWC$_n$)
0.1000
0.0100
0.0010
0.0001
0
50
100
150
200
250
300
350
400
450
500
550
Ice Water Content [gm/km^2]
ORBIT NODE choice = ALL nodes
SCATTERING ANGLE range = [90°,165°]
DETECTION threshold = f(SZA)
RESIDUAL filter: $r_{252}/r_{273} < 5$
15:59:16 Wed Jan 23 2013 /Users/deland/pmc/programs/gplot_v3_iwc_sza.pro

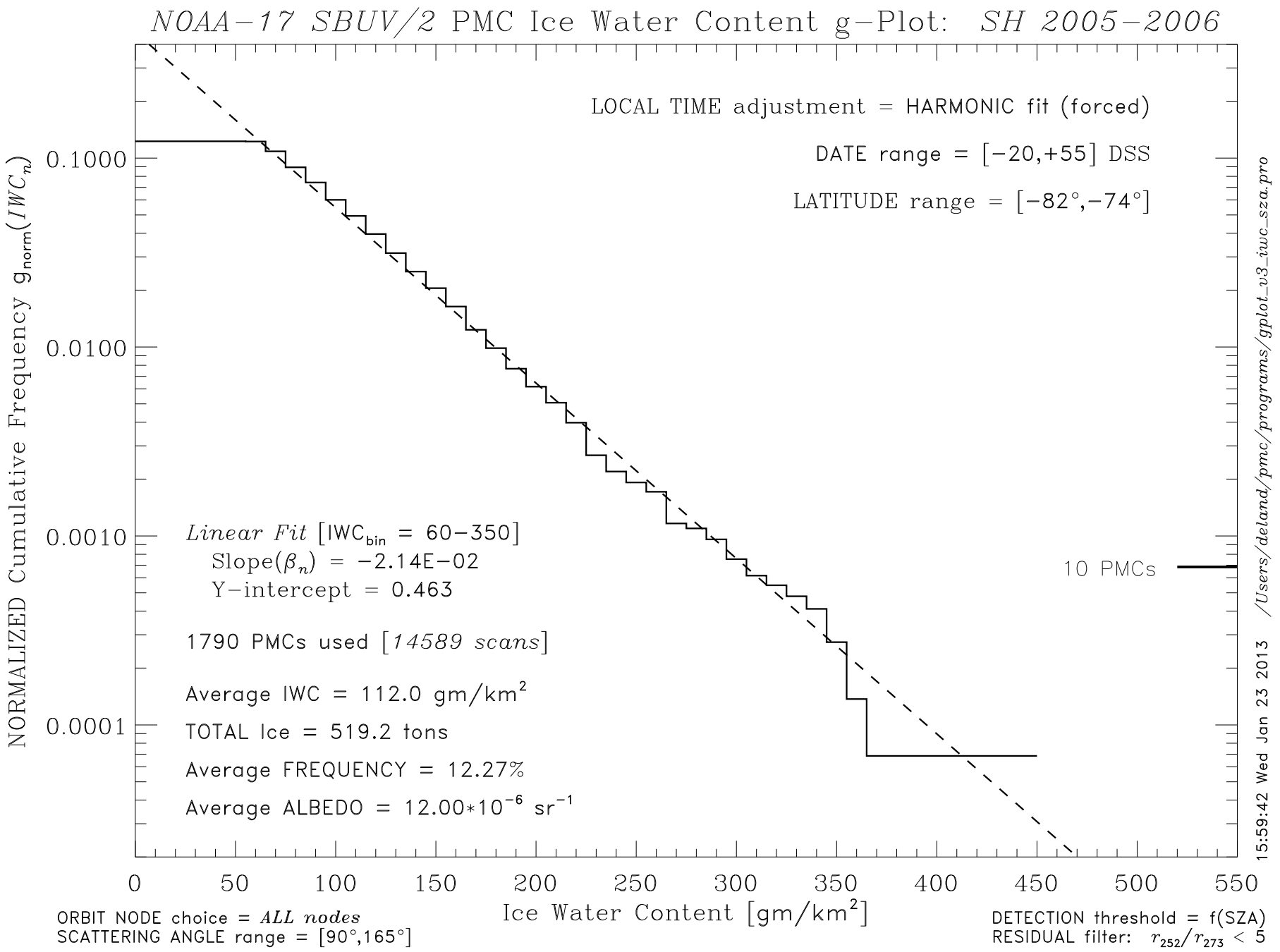

NOAA−16 SBUV/2 PMC Ice Water Content g−Plot: SH 2010−2011
LOCAL TIME adjustment = HARMONIC fit (forced)
DATE range = [−20,+55] DSS
LATITUDE range = [−82°,−74°]
NORMALIZED Cumulative Frequency $g_{norm}(IWC_n)$
0.1000
0.0100
0.0010
0.0001
Linear Fit [IWC_bin = 70−200]
Slope(β_n) = −3.46E−02
Y−intercept = 0.391
594 PMCs used [15068 scans]
Average IWC = 95.9 gm/km^2
TOTAL Ice = 417.5 tons
Average FREQUENCY = 3.94%
Average ALBEDO = 11.34*10^{-6} sr^{-1}
10 PMCs
0
50
100
150
200
250
300
350
400
450
500
550
Ice Water Content [gm/km^2]
15:59:30 Wed Jan 23 2013 /Users/deland/pmc/programs/gplot_v3_iwc_sza.pro
ORBIT NODE choice = ALL nodes
SCATTERING ANGLE range = [90°,165°]
DETECTION threshold = f(SZA)
RESIDUAL filter: $r_{252}/r_{273} < 5$

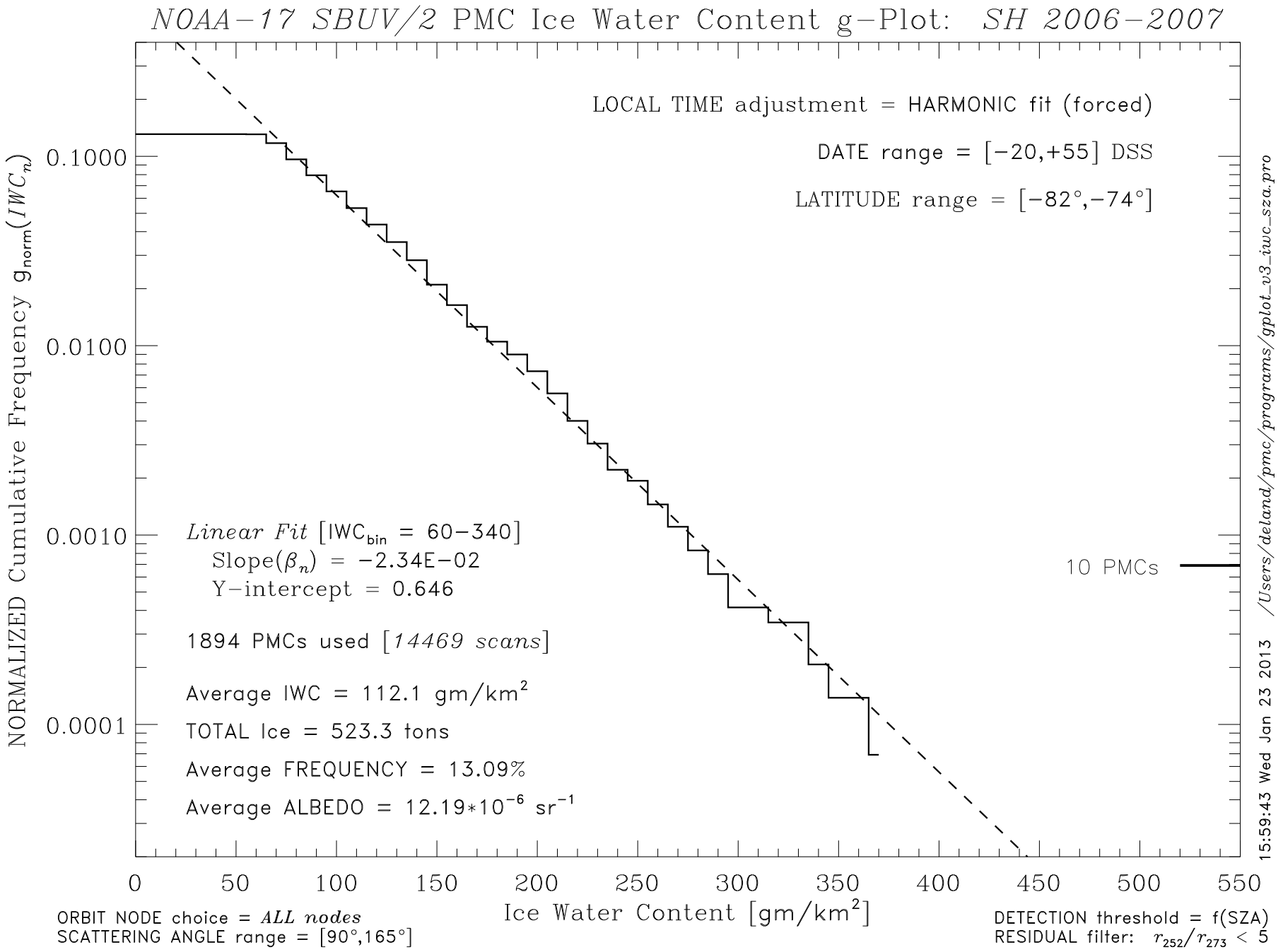
NOAA-16 SBUV/2 PMC Ice Water Content g-Plot: SH 2011-2012
LOCAL TIME adjustment = HARMONIC fit (forced)
DATE range = [-20,+55] DSS
LATITUDE range = [-82°,-74°]
Linear Fit [IWC_bin = 70-260]
Slope(β_n) = -3.03E-02
Y-intercept = 0.515
10 PMCs
948 PMCs used [14458 scans]
Average IWC = 102.0 gm/km²
TOTAL Ice = 445.0 tons
Average FREQUENCY = 6.56%
Average ALBEDO = 11.79*10⁻⁶ sr⁻¹
NORMALIZED Cumulative Frequency g_norm(IWC_n)
0.1000
0.0100
0.0010
0.0001
0
50
100
150
200
250
300
350
400
450
500
550
Ice Water Content [gm/km²]
ORBIT NODE choice = ALL nodes
SCATTERING ANGLE range = [90°,165°]
DETECTION threshold = f(SZA)
RESIDUAL filter: r252/r273 < 5
15:59:31 Wed Jan 23 2013 /Users/deland/pmc/programs/gplot_v3_iwc_sza.pro

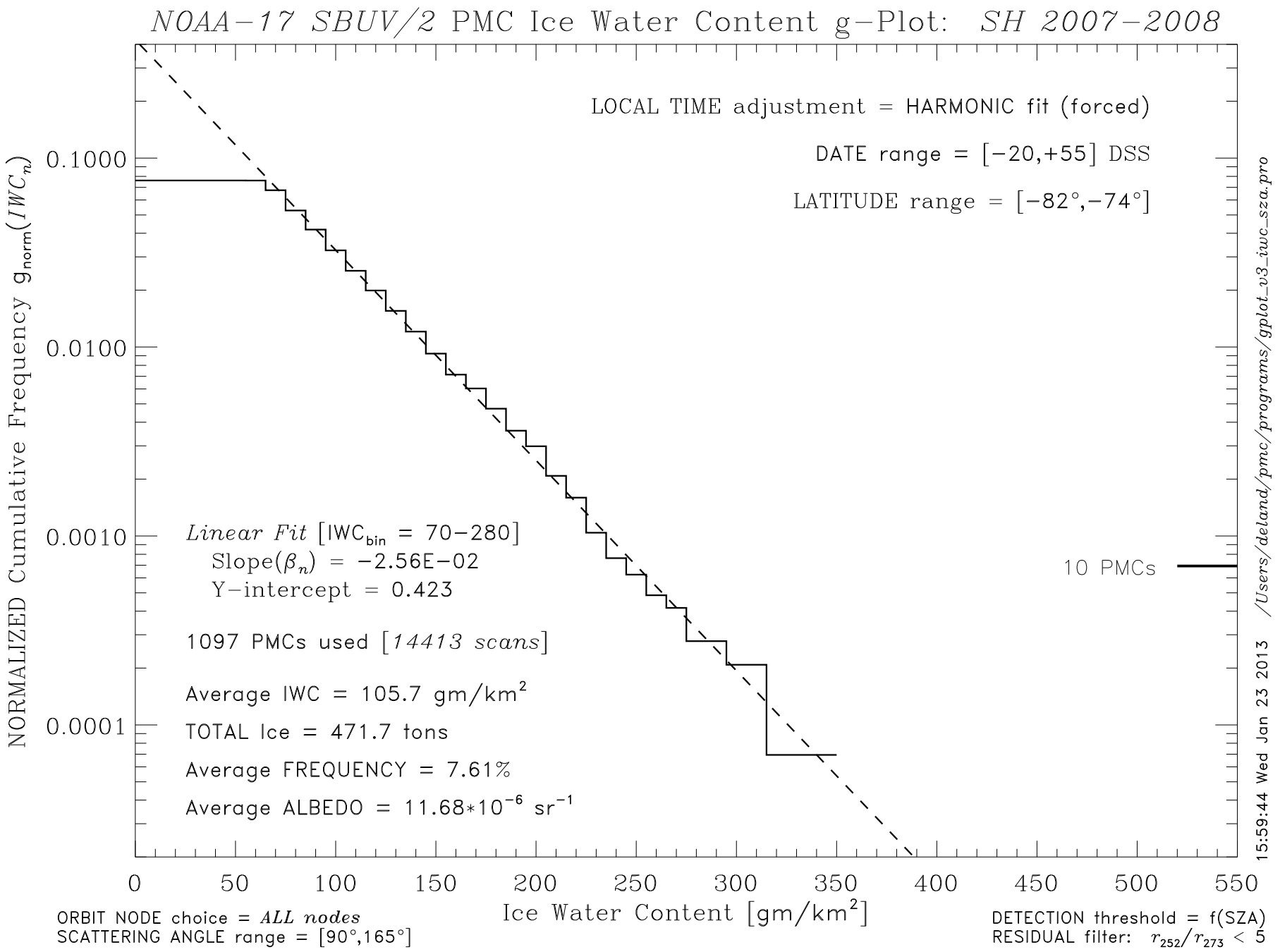

NOAA−17 SBUV/2 PMC Ice Water Content g−Plot: SH 2002−2003
LOCAL TIME adjustment = HARMONIC fit (forced)
DATE range = [−20,+55] DSS
LATITUDE range = [−82°,−74°]
NORMALIZED Cumulative Frequency $g_{norm}(IWC_n)$
0.1000
0.0100
0.0010
0.0001
Linear Fit [IWC_{bin} = 60−280]
Slope(β_n) = −2.53E−02
Y−intercept = 0.578
1507 PMCs used [13904 scans]
Average IWC = 107.0 gm/km^2
TOTAL Ice = 504.6 tons
Average FREQUENCY = 10.84%
Average ALBEDO = 11.56∗10^{-6} sr^{-1}
10 PMCs
0
50
100
150
200
250
300
350
400
450
500
550
Ice Water Content [gm/km^2]
ORBIT NODE choice = ALL nodes
SCATTERING ANGLE range = [90°,165°]
DETECTION threshold = f(SZA)
RESIDUAL filter: $r_{252}/r_{273} < 5$
15:59:41 Wed Jan 23 2013 /Users/deland/pmc/programs/gplot_v3_iwc_sza.pro

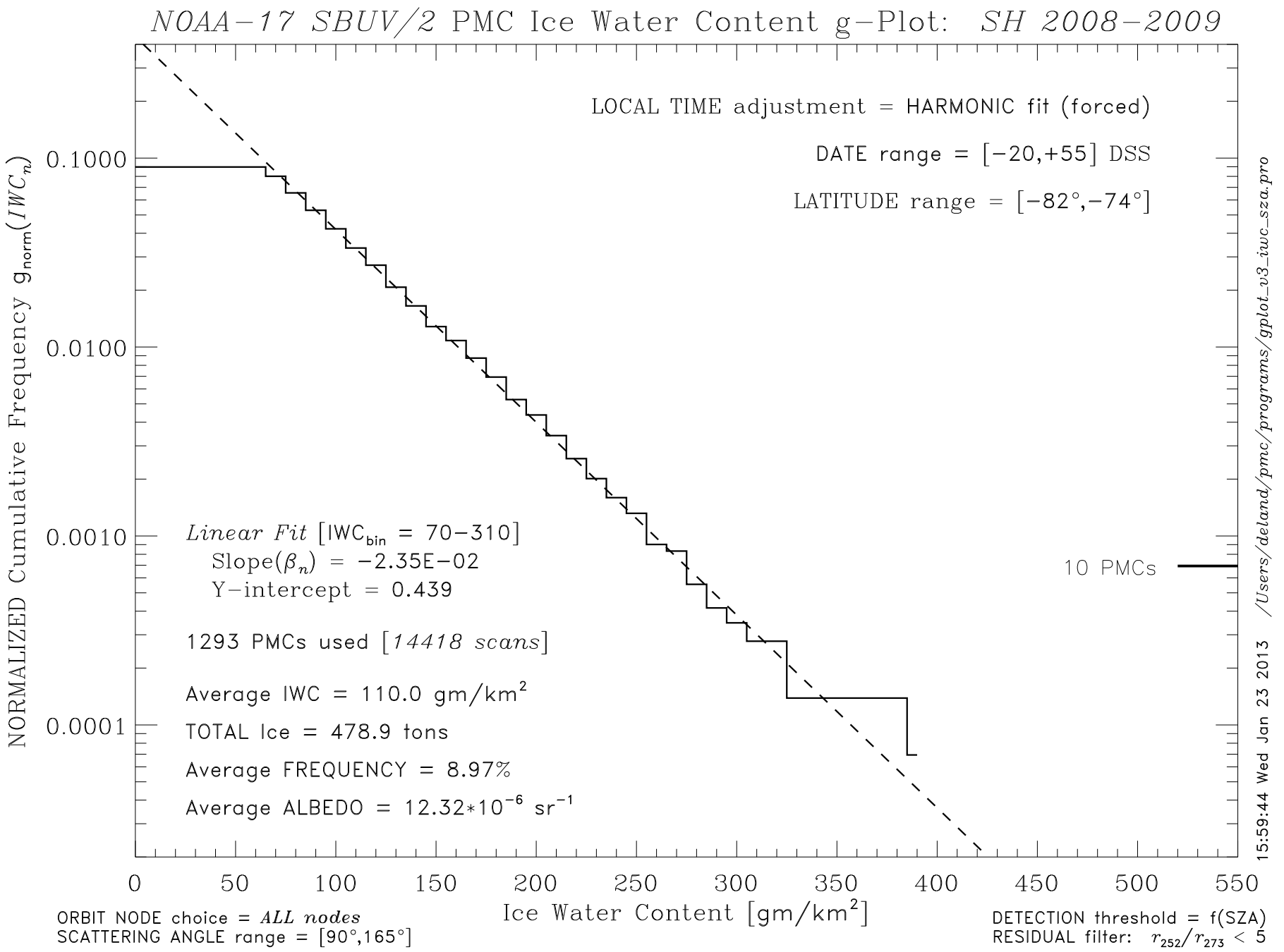
NOAA−17 SBUV/2 PMC Ice Water Content g−Plot: SH 2003−2004
LOCAL TIME adjustment = HARMONIC fit (forced)
DATE range = [−20,+55] DSS
LATITUDE range = [−82°,−74°]
Linear Fit [IWC$_{bin}$ = 60−310]
Slope(β_n) = −1.95E−02
Y−intercept = 0.299
1195 PMCs used [12892 scans]
Average IWC = 112.0 gm/km^2
TOTAL Ice = 498.1 tons
Average FREQUENCY = 9.27%
Average ALBEDO = 11.85*10^{-6} sr^{-1}
10 PMCs
NORMALIZED Cumulative Frequency g$_{norm}$(IWC$_n$)
0.1000
0.0100
0.0010
0.0001
0
50
100
150
200
250
300
350
400
450
500
550
Ice Water Content [gm/km^2]
ORBIT NODE choice = ALL nodes
SCATTERING ANGLE range = [90°,165°]
DETECTION threshold = f(SZA)
RESIDUAL filter: $r_{252}/r_{273} < 5$
15:59:41 Wed Jan 23 2013 /Users/deland/pmc/programs/gplot_v3_iwc_sza.pro

NOAA−17 SBUV/2 PMC Ice Water Content g−Plot: SH 2004−2005
LOCAL TIME adjustment = HARMONIC fit (forced)
DATE range = [−20,+55] DSS
LATITUDE range = [−82°,−74°]
Linear Fit [IWC$_{bin}$ = 60−350]
Slope(β_n) = −2.01E−02
Y−intercept = 0.542
1724 PMCs used [12728 scans]
Average IWC = 120.1 gm/km^2
TOTAL Ice = 535.7 tons
Average FREQUENCY = 13.54%
Average ALBEDO = 12.91*10^{-6} sr^{-1}
10 PMCs
NORMALIZED Cumulative Frequency g$_{norm}$(IWC$_n$)
0.1000
0.0100
0.0010
0.0001
0
50
100
150
200
250
300
350
400
450
500
550
Ice Water Content [gm/km^2]
ORBIT NODE choice = ALL nodes
SCATTERING ANGLE range = [90°,165°]
DETECTION threshold = f(SZA)
RESIDUAL filter: $r_{252}/r_{273} < 5$
15:59:42 Wed Jan 23 2013 /Users/deland/pmc/programs/gplot_v3_iwc_sza.pro

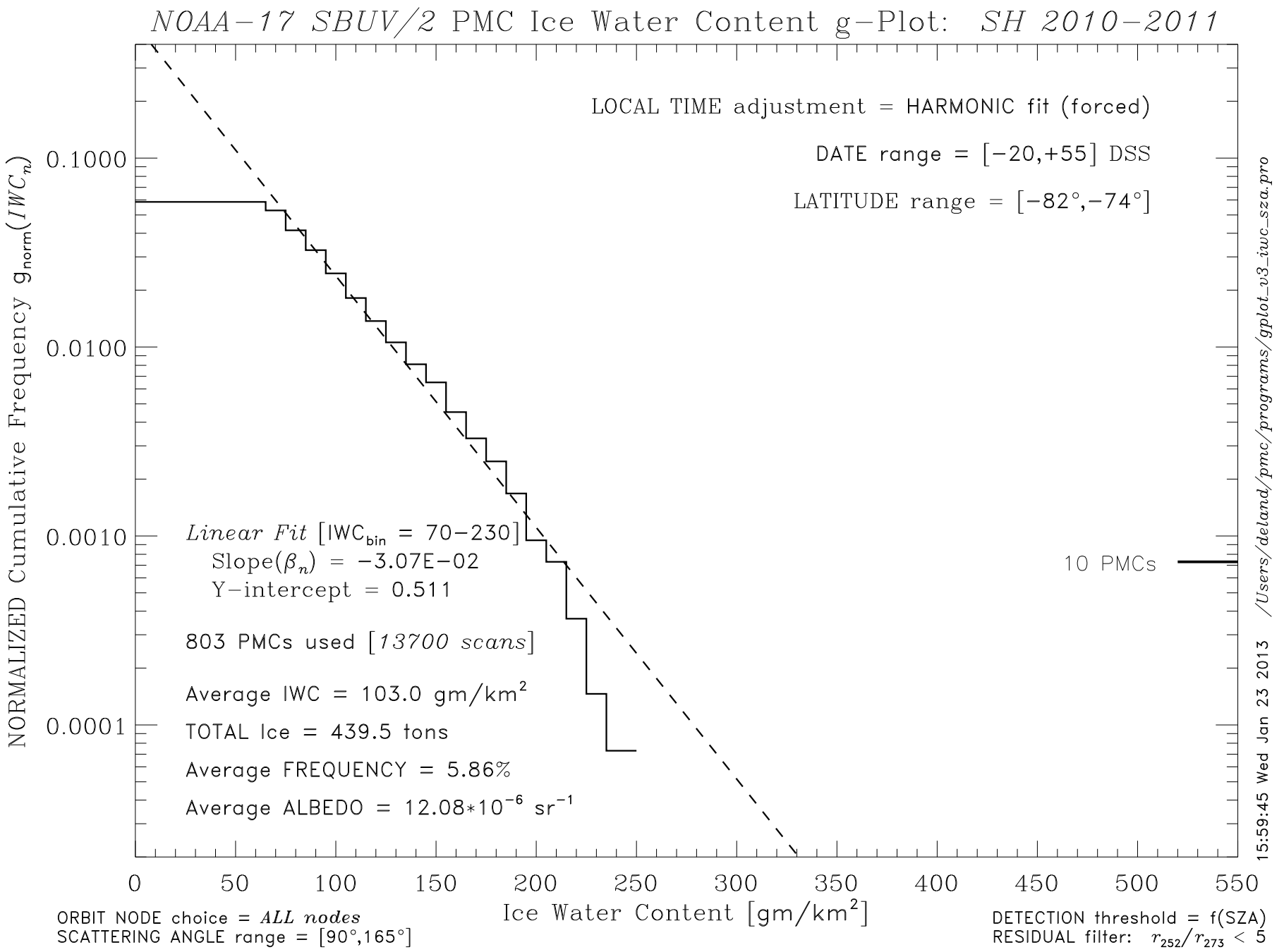

NOAA−17 SBUV/2 PMC Ice Water Content g−Plot: SH 2005−2006
LOCAL TIME adjustment = HARMONIC fit (forced)
DATE range = [−20,+55] DSS
LATITUDE range = [−82°,−74°]
NORMALIZED Cumulative Frequency $g_{norm}(IWC_n)$
0.1000
0.0100
0.0010
0.0001
Linear Fit [IWC_bin = 60−350]
Slope(β_n) = −2.14E−02
Y−intercept = 0.463
1790 PMCs used [14589 scans]
Average IWC = 112.0 gm/km^2
TOTAL Ice = 519.2 tons
Average FREQUENCY = 12.27%
Average ALBEDO = 12.00*10^{-6} sr^{-1}
10 PMCs
0
50
100
150
200
250
300
350
400
450
500
550
Ice Water Content [gm/km^2]
15:59:42 Wed Jan 23 2013 /Users/deland/pmc/programs/gplot_v3_iwc_sza.pro
ORBIT NODE choice = ALL nodes
SCATTERING ANGLE range = [90°,165°]
DETECTION threshold = f(SZA)
RESIDUAL filter: $r_{252}/r_{273} < 5$


NOAA−17 SBUV/2 PMC Ice Water Content g−Plot: SH 2006−2007
LOCAL TIME adjustment = HARMONIC fit (forced)
DATE range = [−20,+55] DSS
LATITUDE range = [−82°,−74°]
NORMALIZED Cumulative Frequency $g_{norm}(IWC_n)$
0.1000
0.0100
0.0010
0.0001
Linear Fit [IWC_{bin} = 60−340]
Slope(β_n) = −2.34E−02
Y−intercept = 0.646
1894 PMCs used [14469 scans]
Average IWC = 112.1 gm/km^2
TOTAL Ice = 523.3 tons
Average FREQUENCY = 13.09%
Average ALBEDO = 12.19∗10^{-6} sr^{-1}
10 PMCs
0
50
100
150
200
250
300
350
400
450
500
550
Ice Water Content [gm/km^2]
15:59:43 Wed Jan 23 2013 /Users/deland/pmc/programs/gplot_v3_iwc_sza.pro
ORBIT NODE choice = ALL nodes
SCATTERING ANGLE range = [90°,165°]
DETECTION threshold = f(SZA)
RESIDUAL filter: $r_{252}/r_{273} < 5$

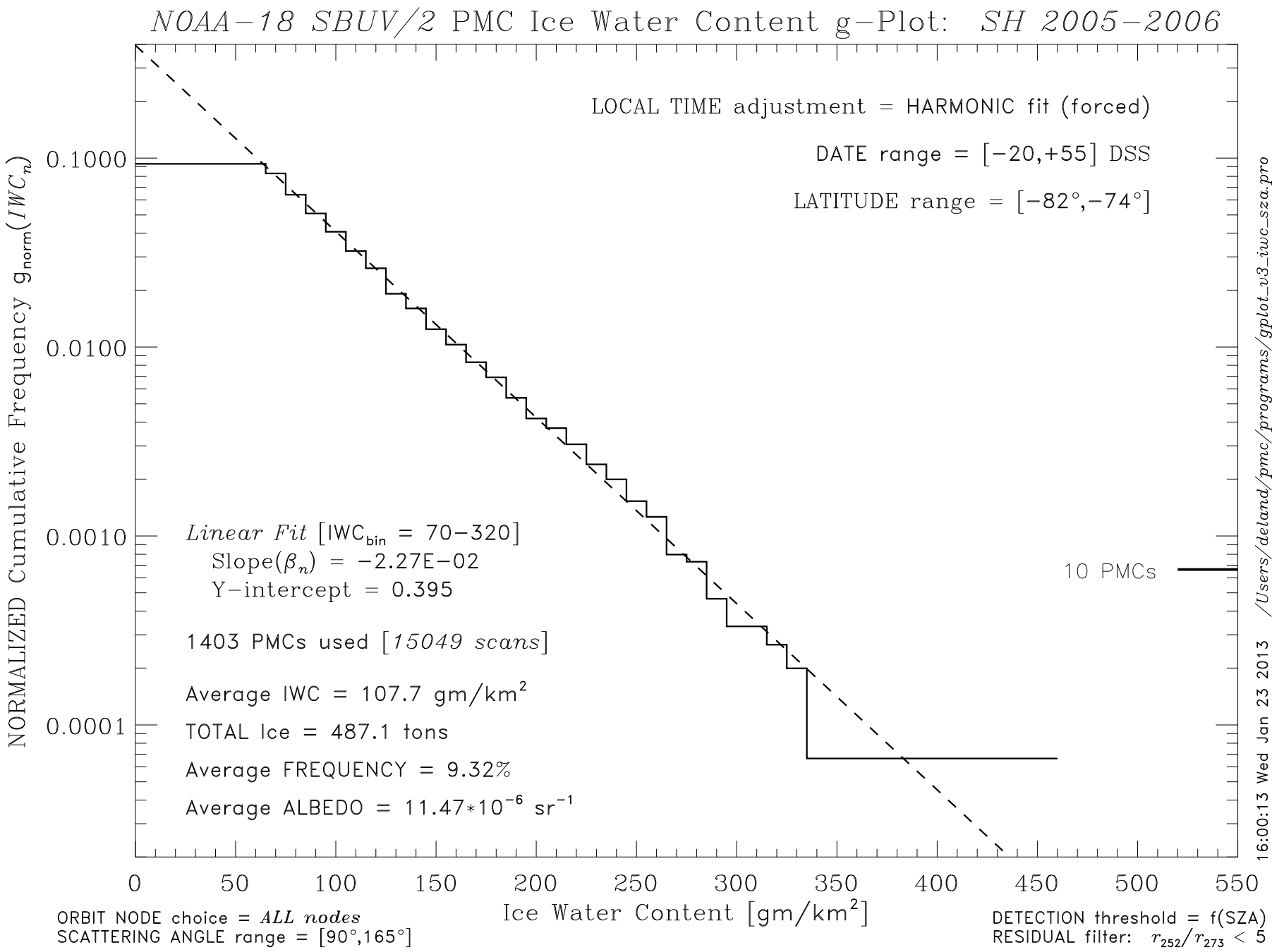

NOAA−17 SBUV/2 PMC Ice Water Content g−Plot: SH 2007−2008
LOCAL TIME adjustment = HARMONIC fit (forced)
DATE range = [−20,+55] DSS
LATITUDE range = [−82°,−74°]
NORMALIZED Cumulative Frequency $g_{norm}(IWC_n)$
0.1000
0.0100
0.0010
0.0001
Linear Fit [IWC_bin = 70−280]
Slope(β_n) = −2.56E−02
Y−intercept = 0.423
1097 PMCs used [14413 scans]
Average IWC = 105.7 gm/km^2
TOTAL Ice = 471.7 tons
Average FREQUENCY = 7.61%
Average ALBEDO = 11.68∗10^{-6} sr^{-1}
10 PMCs
0
50
100
150
200
250
300
350
400
450
500
550
Ice Water Content [gm/km^2]
15:59:44 Wed Jan 23 2013 /Users/deland/pmc/programs/gplot_v3_iwc_sza.pro
ORBIT NODE choice = ALL nodes
SCATTERING ANGLE range = [90°,165°]
DETECTION threshold = f(SZA)
RESIDUAL filter: $r_{252}/r_{273} < 5$

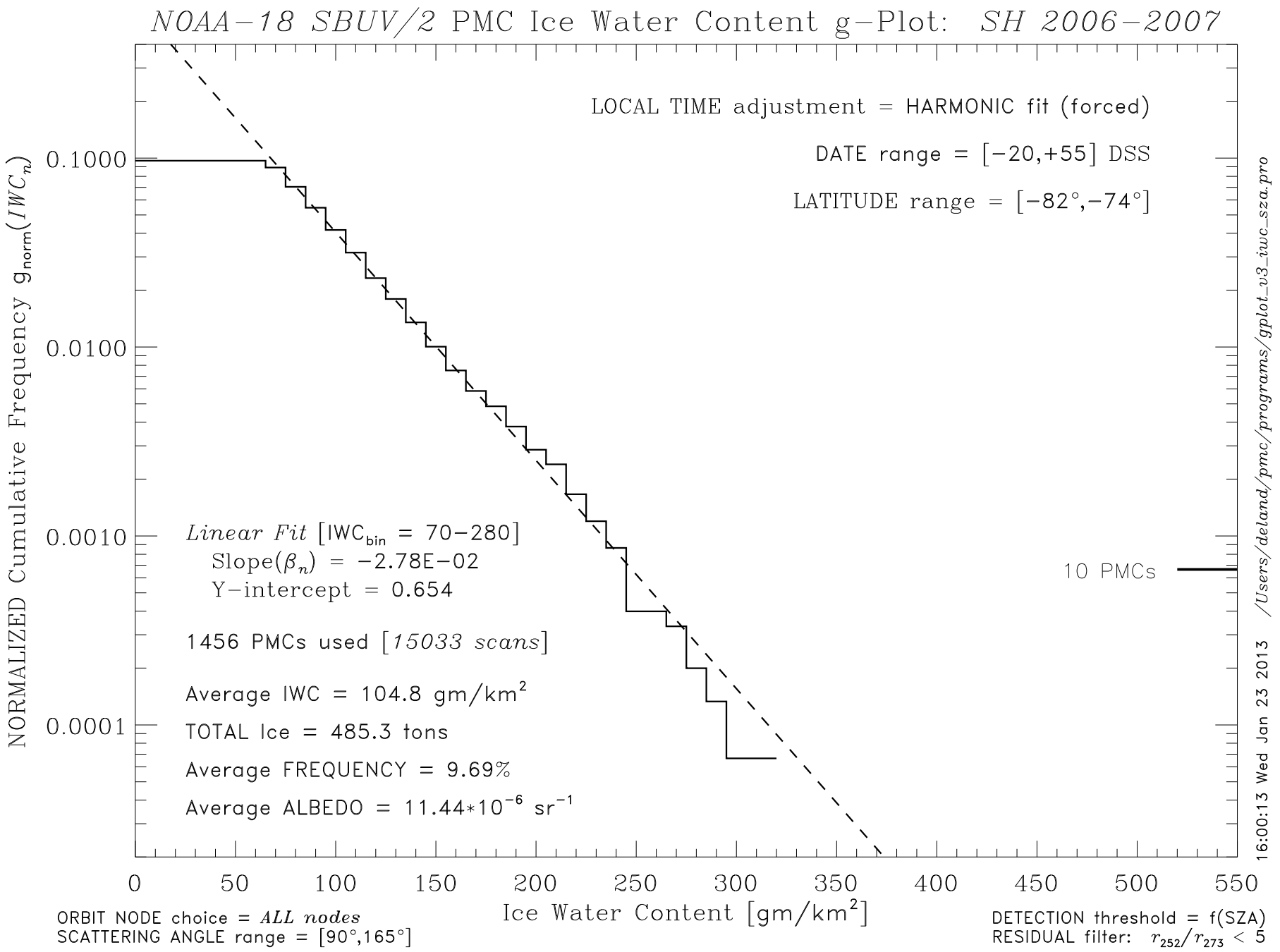

NOAA−17 SBUV/2 PMC Ice Water Content g−Plot: SH 2008−2009
LOCAL TIME adjustment = HARMONIC fit (forced)
DATE range = [−20,+55] DSS
LATITUDE range = [−82°,−74°]
NORMALIZED Cumulative Frequency $g_{norm}(IWC_n)$
0.1000
0.0100
0.0010
0.0001
Linear Fit [IWC_{bin} = 70−310]
Slope(β_n) = −2.35E−02
Y−intercept = 0.439
1293 PMCs used [14418 scans]
Average IWC = 110.0 gm/km^2
TOTAL Ice = 478.9 tons
Average FREQUENCY = 8.97%
Average ALBEDO = 12.32∗10^{-6} sr^{-1}
10 PMCs
0
50
100
150
200
250
300
350
400
450
500
550
Ice Water Content [gm/km^2]
15:59:44 Wed Jan 23 2013 /Users/deland/pmc/programs/gplot_v3_iwc_sza.pro
ORBIT NODE choice = ALL nodes
SCATTERING ANGLE range = [90°,165°]
DETECTION threshold = f(SZA)
RESIDUAL filter: $r_{252}/r_{273} < 5$

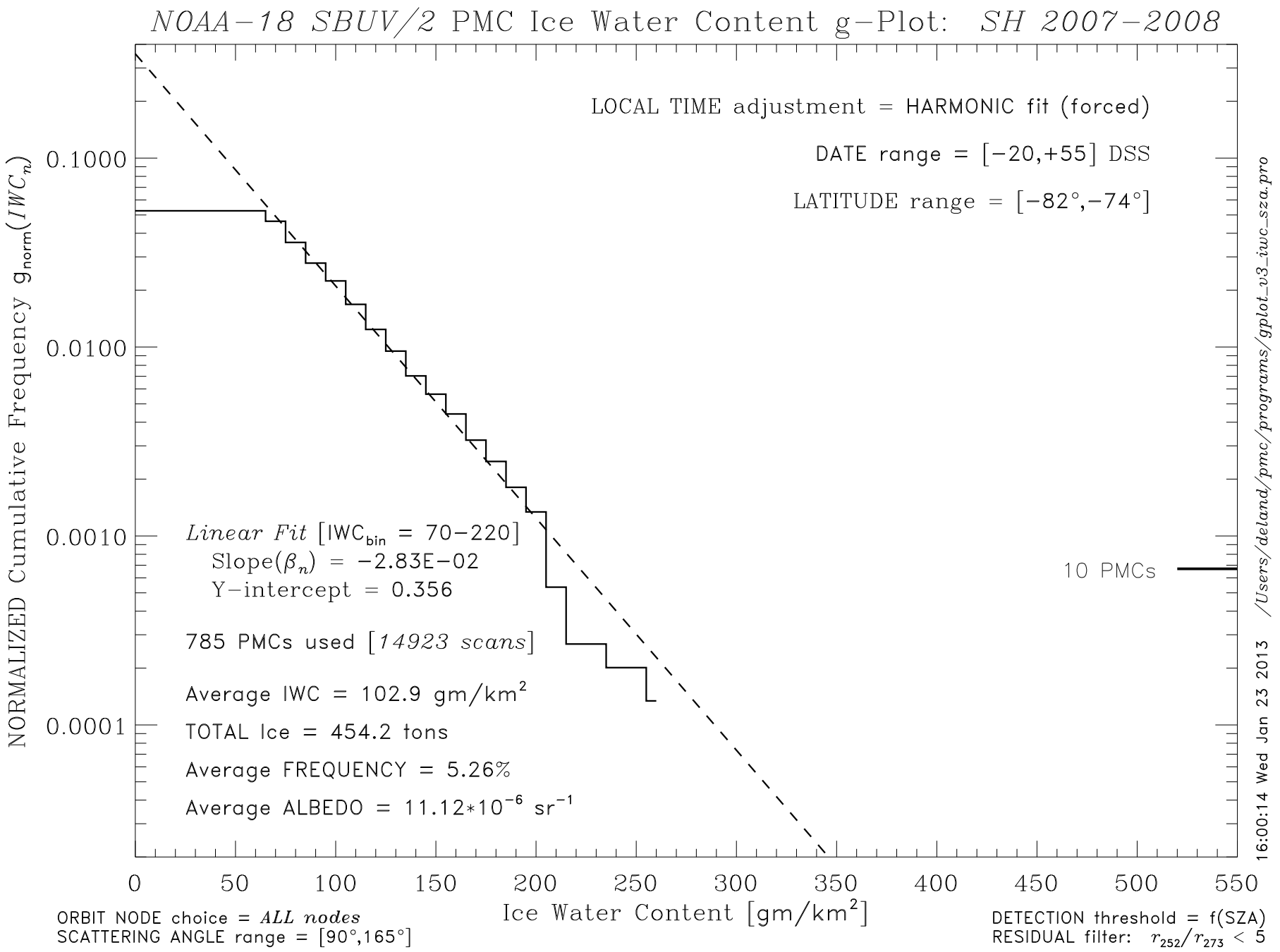
NOAA−17 SBUV/2 PMC Ice Water Content g−Plot: SH 2009−2010
LOCAL TIME adjustment = HARMONIC fit (forced)
DATE range = [−20,+55] DSS
LATITUDE range = [−82°,−74°]
10 PMCs
Linear Fit [IWCbin = 70−370]
Slope(βn) = −2.12E−02
Y−intercept = 0.984
2551 PMCs used [14350 scans]
Average IWC = 124.6 gm/km2
TOTAL Ice = 568.3 tons
Average FREQUENCY = 17.78%
Average ALBEDO = 13.80*10−6 sr−1
NORMALIZED Cumulative Frequency gnorm(IWCn)
0.1000
0.0100
0.0010
0.0001
0
50
100
150
200
250
300
350
400
450
500
550
Ice Water Content [gm/km2]
ORBIT NODE choice = ALL nodes
SCATTERING ANGLE range = [90°,165°]
DETECTION threshold = f(SZA)
RESIDUAL filter: r252/r273 < 5
15:59:45 Wed Jan 23 2013 /Users/deland/pmc/programs/gplot_v3_iwc_sza.pro

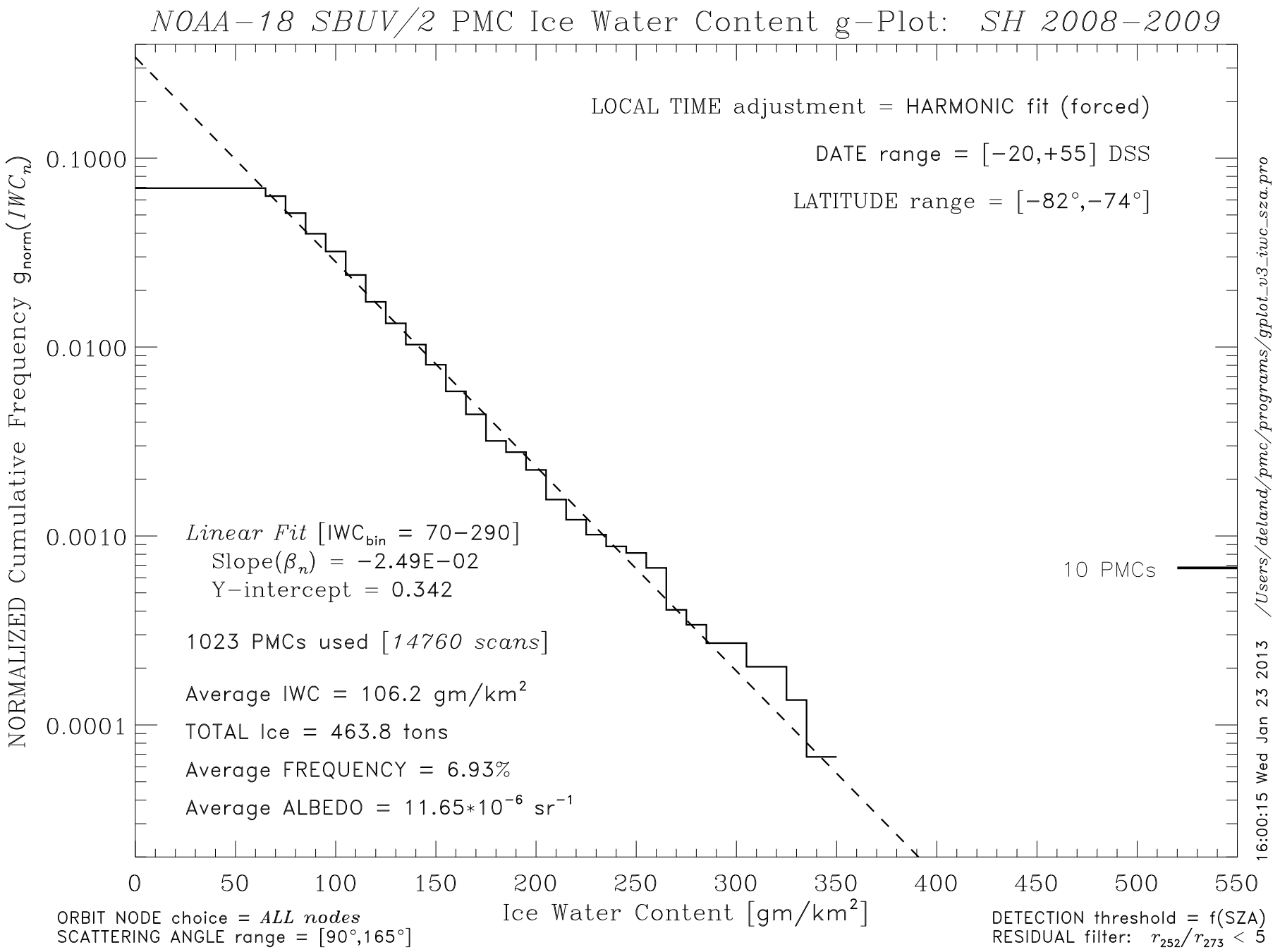

NOAA−17 SBUV/2 PMC Ice Water Content g−Plot: SH 2010−2011
LOCAL TIME adjustment = HARMONIC fit (forced)
DATE range = [−20,+55] DSS
LATITUDE range = [−82°,−74°]
NORMALIZED Cumulative Frequency $g_{norm}(IWC_n)$
0.1000
0.0100
0.0010
0.0001
Linear Fit [IWC_bin = 70−230]
Slope(β_n) = −3.07E−02
Y−intercept = 0.511
803 PMCs used [13700 scans]
Average IWC = 103.0 gm/km^2
TOTAL Ice = 439.5 tons
Average FREQUENCY = 5.86%
Average ALBEDO = 12.08∗10^{-6} sr^{-1}
10 PMCs
0
50
100
150
200
250
300
350
400
450
500
550
Ice Water Content [gm/km^2]
15:59:45 Wed Jan 23 2013 /Users/deland/pmc/programs/gplot_v3_iwc_sza.pro
ORBIT NODE choice = ALL nodes
SCATTERING ANGLE range = [90°,165°]
DETECTION threshold = f(SZA)
RESIDUAL filter: $r_{252}/r_{273} < 5$

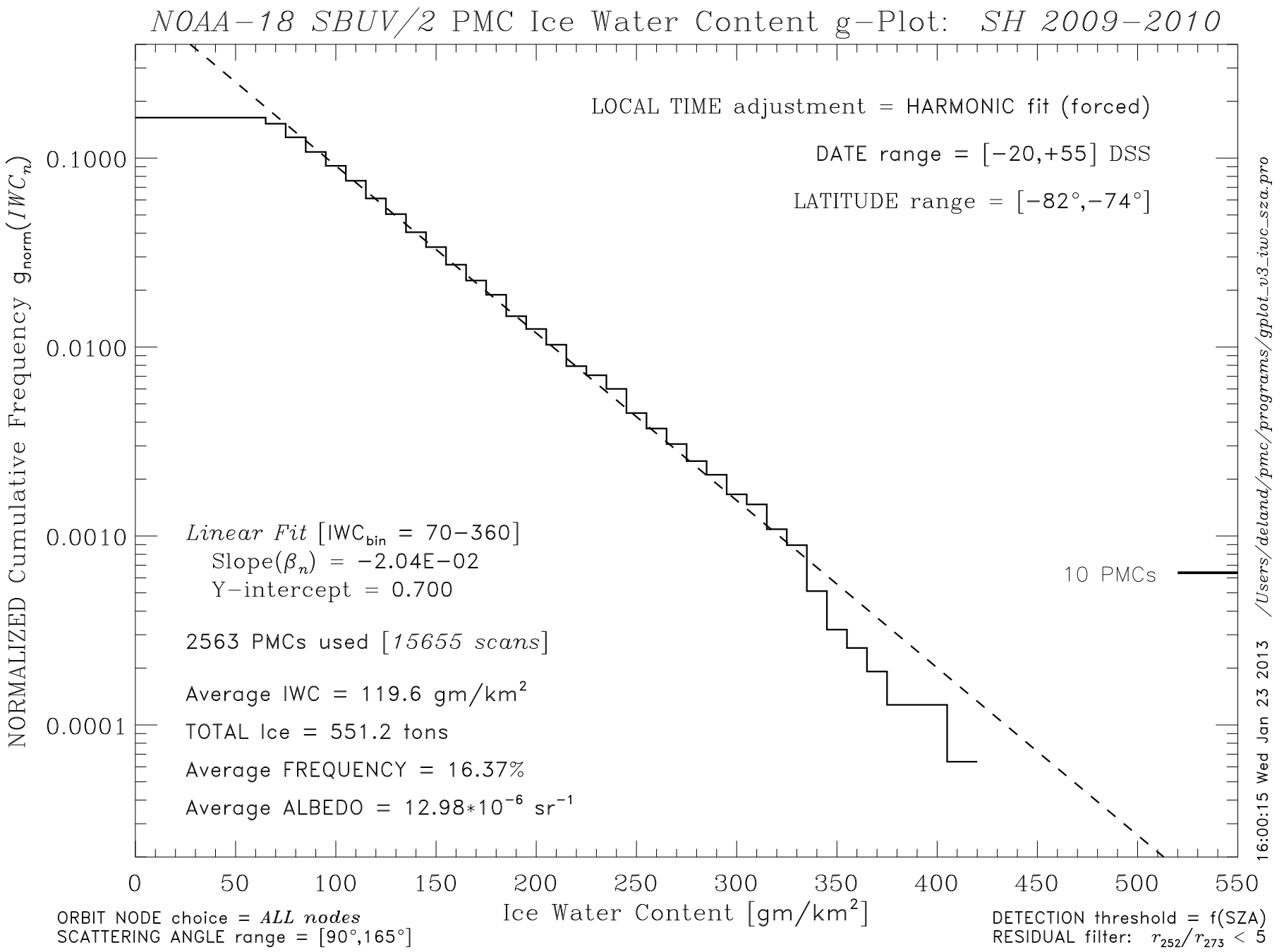
NOAA−17 SBUV/2 PMC Ice Water Content g−Plot: SH 2011−2012
LOCAL TIME adjustment = HARMONIC fit (forced)
DATE range = [−20,+55] DSS
LATITUDE range = [−82°,−74°]
Linear Fit [IWC$_{bin}$ = 70−260]
Slope(β_n) = −2.61E−02
Y−intercept = 0.381
873 PMCs used [12745 scans]
Average IWC = 104.7 gm/km^2
TOTAL Ice = 450.4 tons
Average FREQUENCY = 6.85%
Average ALBEDO = 11.91*10^{-6} sr^{-1}
10 PMCs
NORMALIZED Cumulative Frequency g$_{norm}$(IWC$_n$)
0.1000
0.0100
0.0010
0.0001
0
50
100
150
200
250
300
350
400
450
500
550
Ice Water Content [gm/km^2]
ORBIT NODE choice = ALL nodes
SCATTERING ANGLE range = [90°,165°]
DETECTION threshold = f(SZA)
RESIDUAL filter: $r_{252}/r_{273} < 5$
15:59:46 Wed Jan 23 2013 /Users/deland/pmc/programs/gplot_v3_iwc_sza.pro


NOAA−18 SBUV/2 PMC Ice Water Content g−Plot: SH 2005−2006
LOCAL TIME adjustment = HARMONIC fit (forced)
DATE range = [−20,+55] DSS
LATITUDE range = [−82°,−74°]
NORMALIZED Cumulative Frequency $g_{norm}(IWC_n)$
0.1000
0.0100
0.0010
0.0001
Linear Fit [IWC_{bin} = 70−320]
Slope(β_n) = −2.27E−02
Y−intercept = 0.395
1403 PMCs used [15049 scans]
Average IWC = 107.7 gm/km^2
TOTAL Ice = 487.1 tons
Average FREQUENCY = 9.32%
Average ALBEDO = 11.47∗10^{-6} sr^{-1}
10 PMCs
0
50
100
150
200
250
300
350
400
450
500
550
Ice Water Content [gm/km^2]
16:00:13 Wed Jan 23 2013 /Users/deland/pmc/programs/gplot_v3_iwc_sza.pro
ORBIT NODE choice = ALL nodes
SCATTERING ANGLE range = [90°,165°]
DETECTION threshold = f(SZA)
RESIDUAL filter: $r_{252}/r_{273} < 5$


NOAA−18 SBUV/2 PMC Ice Water Content g−Plot: SH 2006−2007
LOCAL TIME adjustment = HARMONIC fit (forced)
DATE range = [−20,+55] DSS
LATITUDE range = [−82°,−74°]
NORMALIZED Cumulative Frequency $g_{norm}(IWC_n)$
0.1000
0.0100
0.0010
0.0001
Linear Fit [IWC_{bin} = 70−280]
Slope(β_n) = −2.78E−02
Y−intercept = 0.654
1456 PMCs used [15033 scans]
Average IWC = 104.8 gm/km^2
TOTAL Ice = 485.3 tons
Average FREQUENCY = 9.69%
Average ALBEDO = 11.44∗10^{-6} sr^{-1}
10 PMCs
0
50
100
150
200
250
300
350
400
450
500
550
Ice Water Content [gm/km^2]
16:00:13 Wed Jan 23 2013 /Users/deland/pmc/programs/gplot_v3_iwc_sza.pro
ORBIT NODE choice = ALL nodes
SCATTERING ANGLE range = [90°,165°]
DETECTION threshold = f(SZA)
RESIDUAL filter: $r_{252}/r_{273} < 5$

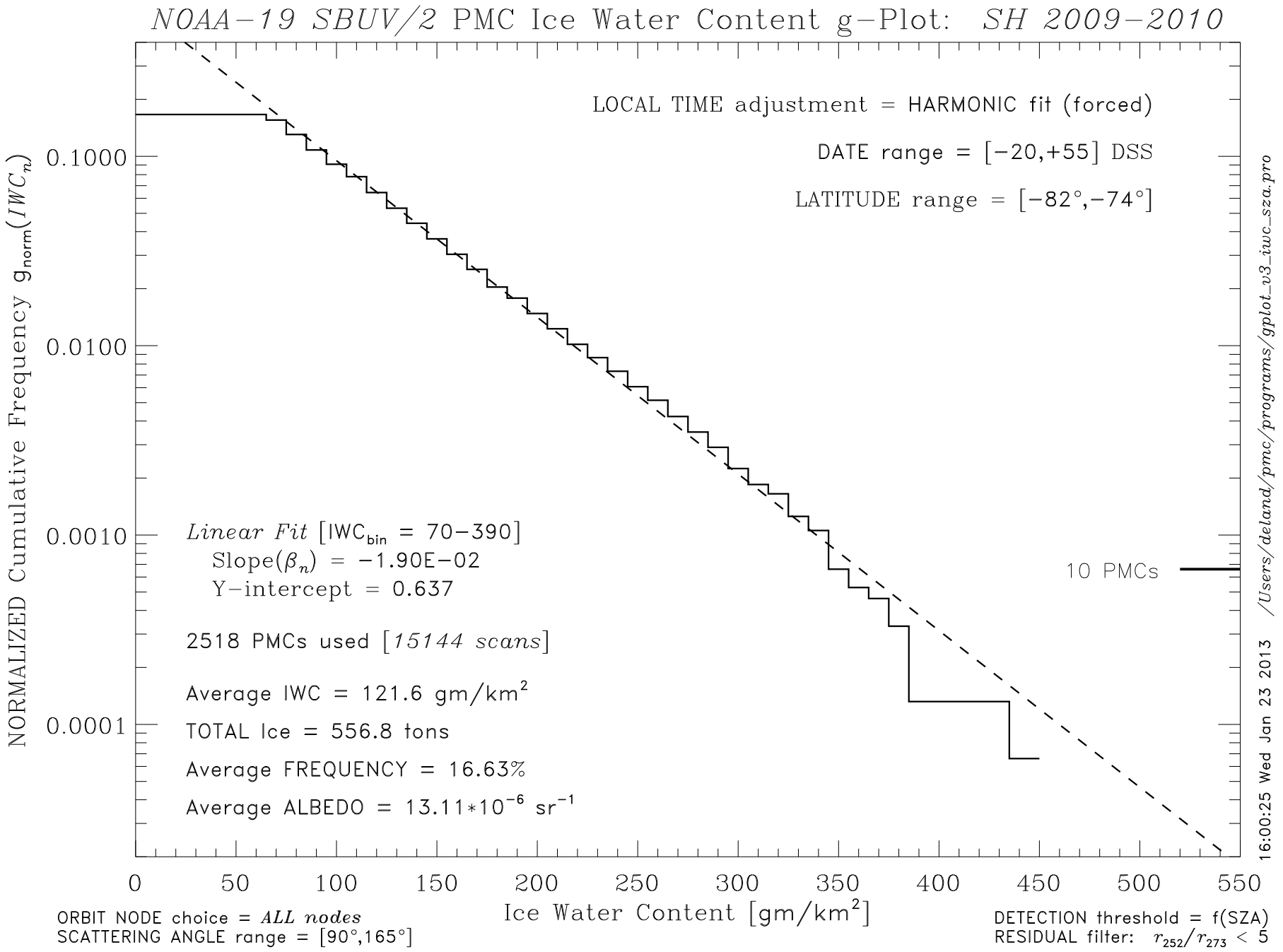

NOAA−18 SBUV/2 PMC Ice Water Content g−Plot: SH 2007−2008
LOCAL TIME adjustment = HARMONIC fit (forced)
DATE range = [−20,+55] DSS
LATITUDE range = [−82°,−74°]
NORMALIZED Cumulative Frequency $g_{norm}(IWC_n)$
0.1000
0.0100
0.0010
0.0001
Linear Fit [IWC$_{bin}$ = 70−220]
Slope(β_n) = −2.83E−02
Y−intercept = 0.356
785 PMCs used [14923 scans]
Average IWC = 102.9 gm/km^2
TOTAL Ice = 454.2 tons
Average FREQUENCY = 5.26%
Average ALBEDO = 11.12*10^{-6} sr^{-1}
10 PMCs
0
50
100
150
200
250
300
350
400
450
500
550
Ice Water Content [gm/km^2]
16:00:14 Wed Jan 23 2013 /Users/deland/pmc/programs/gplot_v3_iwc_sza.pro
ORBIT NODE choice = ALL nodes
SCATTERING ANGLE range = [90°,165°]
DETECTION threshold = f(SZA)
RESIDUAL filter: $r_{252}/r_{273} < 5$


NOAA−18 SBUV/2 PMC Ice Water Content g−Plot: SH 2008−2009
LOCAL TIME adjustment = HARMONIC fit (forced)
DATE range = [−20,+55] DSS
LATITUDE range = [−82°,−74°]
NORMALIZED Cumulative Frequency $g_{norm}(IWC_n)$
0.1000
0.0100
0.0010
0.0001
Linear Fit [IWC_bin = 70−290]
Slope(β_n) = −2.49E−02
Y−intercept = 0.342
1023 PMCs used [14760 scans]
Average IWC = 106.2 gm/km^2
TOTAL Ice = 463.8 tons
Average FREQUENCY = 6.93%
Average ALBEDO = 11.65∗10^{-6} sr^{-1}
10 PMCs
0
50
100
150
200
250
300
350
400
450
500
550
Ice Water Content [gm/km^2]
16:00:15 Wed Jan 23 2013 /Users/deland/pmc/programs/gplot_v3_iwc_sza.pro
ORBIT NODE choice = ALL nodes
SCATTERING ANGLE range = [90°,165°]
DETECTION threshold = f(SZA)
RESIDUAL filter: $r_{252}/r_{273} < 5$


NOAA−18 SBUV/2 PMC Ice Water Content g−Plot: SH 2009−2010
LOCAL TIME adjustment = HARMONIC fit (forced)
DATE range = [−20,+55] DSS
LATITUDE range = [−82°,−74°]
NORMALIZED Cumulative Frequency $g_{norm}(IWC_n)$
0.1000
0.0100
0.0010
0.0001
Linear Fit [IWC_bin = 70−360]
Slope(β_n) = −2.04E−02
Y−intercept = 0.700
2563 PMCs used [15655 scans]
Average IWC = 119.6 gm/km^2
TOTAL Ice = 551.2 tons
Average FREQUENCY = 16.37%
Average ALBEDO = 12.98∗10^{-6} sr^{-1}
10 PMCs
0
50
100
150
200
250
300
350
400
450
500
550
Ice Water Content [gm/km^2]
16:00:15 Wed Jan 23 2013 /Users/deland/pmc/programs/gplot_v3_iwc_sza.pro
ORBIT NODE choice = ALL nodes
SCATTERING ANGLE range = [90°,165°]
DETECTION threshold = f(SZA)
RESIDUAL filter: $r_{252}/r_{273} < 5$

NOAA-18 SBUV/2 PMC Ice Water Content g-Plot: SH 2010-2011
LOCAL TIME adjustment = HARMONIC fit (forced)
DATE range = [-20,+55] DSS
LATITUDE range = [-82°,-74°]
Linear Fit [IWCbin = 70-220]
Slope(βn) = -3.28E-02
Y-intercept = 0.284
10 PMCs
486 PMCs used [14936 scans]
Average IWC = 97.0 gm/km2
TOTAL Ice = 432.8 tons
Average FREQUENCY = 3.25%
Average ALBEDO = 10.67*10-6 sr-1
NORMALIZED Cumulative Frequency gnorm(IWCn)
0.1000
0.0100
0.0010
0.0001
0
50
100
150
200
250
300
350
400
450
500
550
Ice Water Content [gm/km2]
ORBIT NODE choice = ALL nodes
SCATTERING ANGLE range = [90°,165°]
DETECTION threshold = f(SZA)
RESIDUAL filter: r252/r273 < 5
16:00:16 Wed Jan 23 2013 /Users/deland/pmc/programs/gplot_v3_iwc_sza.pro

NOAA−18 SBUV/2 PMC Ice Water Content g−Plot: SH 2011−2012
LOCAL TIME adjustment = HARMONIC fit (forced)
DATE range = [−20,+55] DSS
LATITUDE range = [−82°,−74°]
10 PMCs
Linear Fit [IWC$_{bin}$ = 70−220]
Slope(β_n) = −3.21E−02
Y−intercept = 0.431
719 PMCs used [14461 scans]
Average IWC = 99.1 gm/km^2
TOTAL Ice = 439.5 tons
Average FREQUENCY = 4.97%
Average ALBEDO = 11.09*10^{-6} sr^{-1}
NORMALIZED Cumulative Frequency g$_{norm}$(IWC$_n$)
0.1000
0.0100
0.0010
0.0001
0
50
100
150
200
250
300
350
400
450
500
550
Ice Water Content [gm/km^2]
ORBIT NODE choice = ALL nodes
SCATTERING ANGLE range = [90°,165°]
DETECTION threshold = f(SZA)
RESIDUAL filter: $r_{252}/r_{273} < 5$
16:00:17 Wed Jan 23 2013 /Users/deland/pmc/programs/gplot_v3_iwc_sza.pro


NOAA−19 SBUV/2 PMC Ice Water Content g−Plot: SH 2009−2010
LOCAL TIME adjustment = HARMONIC fit (forced)
DATE range = [−20,+55] DSS
LATITUDE range = [−82°,−74°]
NORMALIZED Cumulative Frequency $g_{norm}(IWC_n)$
0.1000
0.0100
0.0010
0.0001
Linear Fit [IWC_{bin} = 70−390]
Slope(β_n) = −1.90E−02
Y−intercept = 0.637
2518 PMCs used [15144 scans]
Average IWC = 121.6 gm/km^2
TOTAL Ice = 556.8 tons
Average FREQUENCY = 16.63%
Average ALBEDO = 13.11∗10^{-6} sr^{-1}
10 PMCs
0
50
100
150
200
250
300
350
400
450
500
550
Ice Water Content [gm/km^2]
16:00:25 Wed Jan 23 2013 /Users/deland/pmc/programs/gplot_v3_iwc_sza.pro
ORBIT NODE choice = ALL nodes
SCATTERING ANGLE range = [90°,165°]
DETECTION threshold = f(SZA)
RESIDUAL filter: $r_{252}/r_{273} < 5$

NOAA-19 SBUV/2 PMC Ice Water Content g-Plot: SH 2010-2011
LOCAL TIME adjustment = HARMONIC fit (forced)
DATE range = [-20,+55] DSS
LATITUDE range = [-82°,-74°]
Linear Fit [IWCbin = 70-250]
Slope(βn) = -3.02E-02
Y-intercept = 0.238
488 PMCs used [15052 scans]
Average IWC = 99.9 gm/km2
TOTAL Ice = 436.9 tons
Average FREQUENCY = 3.24%
Average ALBEDO = 10.85*10-6 sr-1
10 PMCs
NORMALIZED Cumulative Frequency gnorm(IWCn)
0.1000
0.0100
0.0010
0.0001
0
50
100
150
200
250
300
350
400
450
500
550
Ice Water Content [gm/km2]
ORBIT NODE choice = ALL nodes
SCATTERING ANGLE range = [90°,165°]
DETECTION threshold = f(SZA)
RESIDUAL filter: r252/r273 < 5
16:00:26 Wed Jan 23 2013 /Users/deland/pmc/programs/gplot_v3_iwc_sza.pro

NOAA−19 SBUV/2 PMC Ice Water Content g−Plot: SH 2011−2012
LOCAL TIME adjustment = HARMONIC fit (forced)
DATE range = [−20,+55] DSS
LATITUDE range = [−82°,−74°]
Linear Fit [IWC$_{bin}$ = 70−230]
Slope(β_n) = −3.07E−02
Y−intercept = 0.367
688 PMCs used [14664 scans]
Average IWC = 100.4 gm/km^2
TOTAL Ice = 447.2 tons
Average FREQUENCY = 4.69%
Average ALBEDO = 10.89*10^{-6} sr^{-1}
10 PMCs
NORMALIZED Cumulative Frequency g$_{norm}$(IWC$_n$)
0.1000
0.0100
0.0010
0.0001
0
50
100
150
200
250
300
350
400
450
500
550
Ice Water Content [gm/km^2]
ORBIT NODE choice = ALL nodes
SCATTERING ANGLE range = [90°,165°]
DETECTION threshold = f(SZA)
RESIDUAL filter: $r_{252}/r_{273} < 5$
16:00:27 Wed Jan 23 2013 /Users/deland/pmc/programs/gplot_v3_iwc_sza.pro