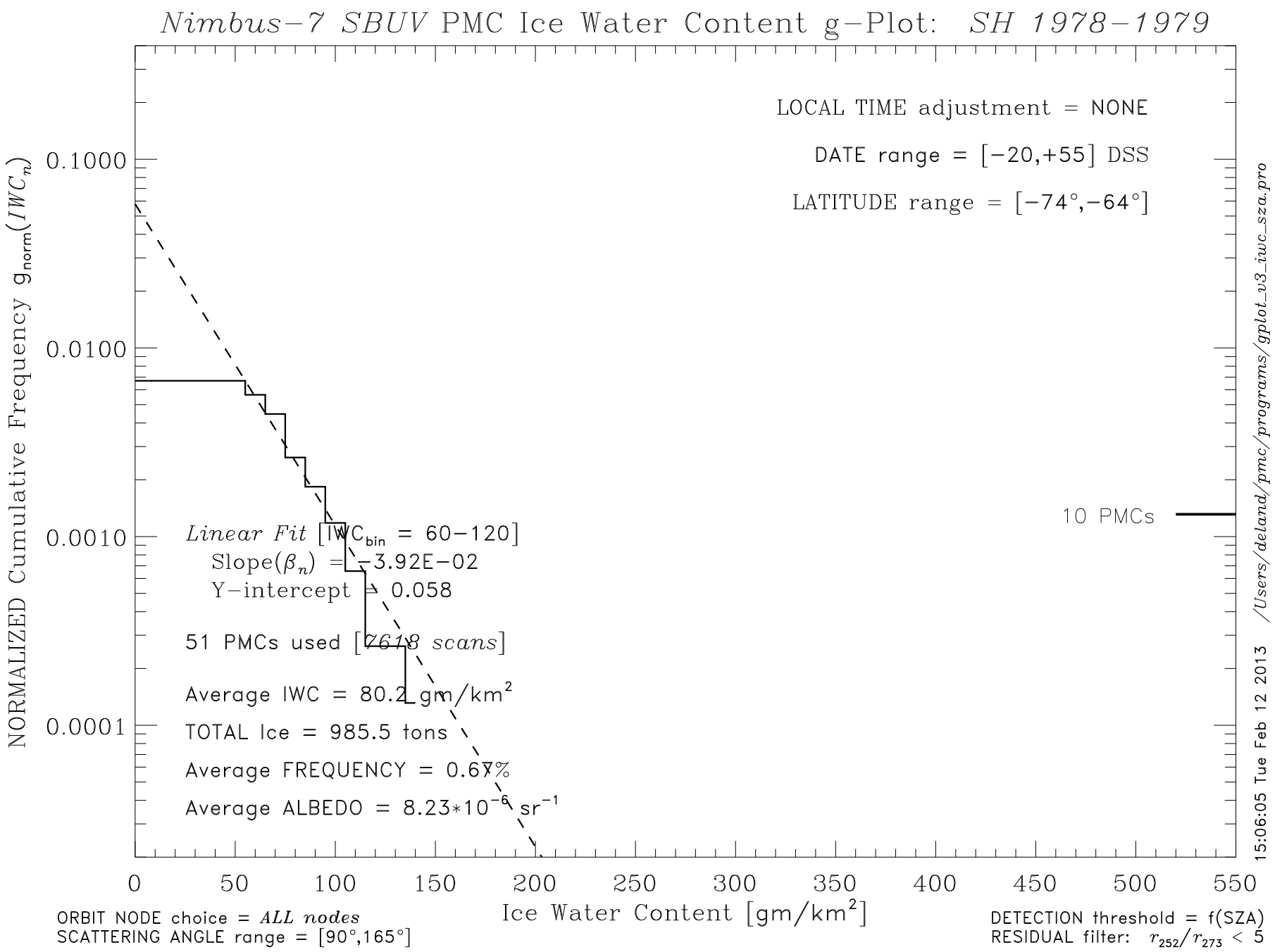
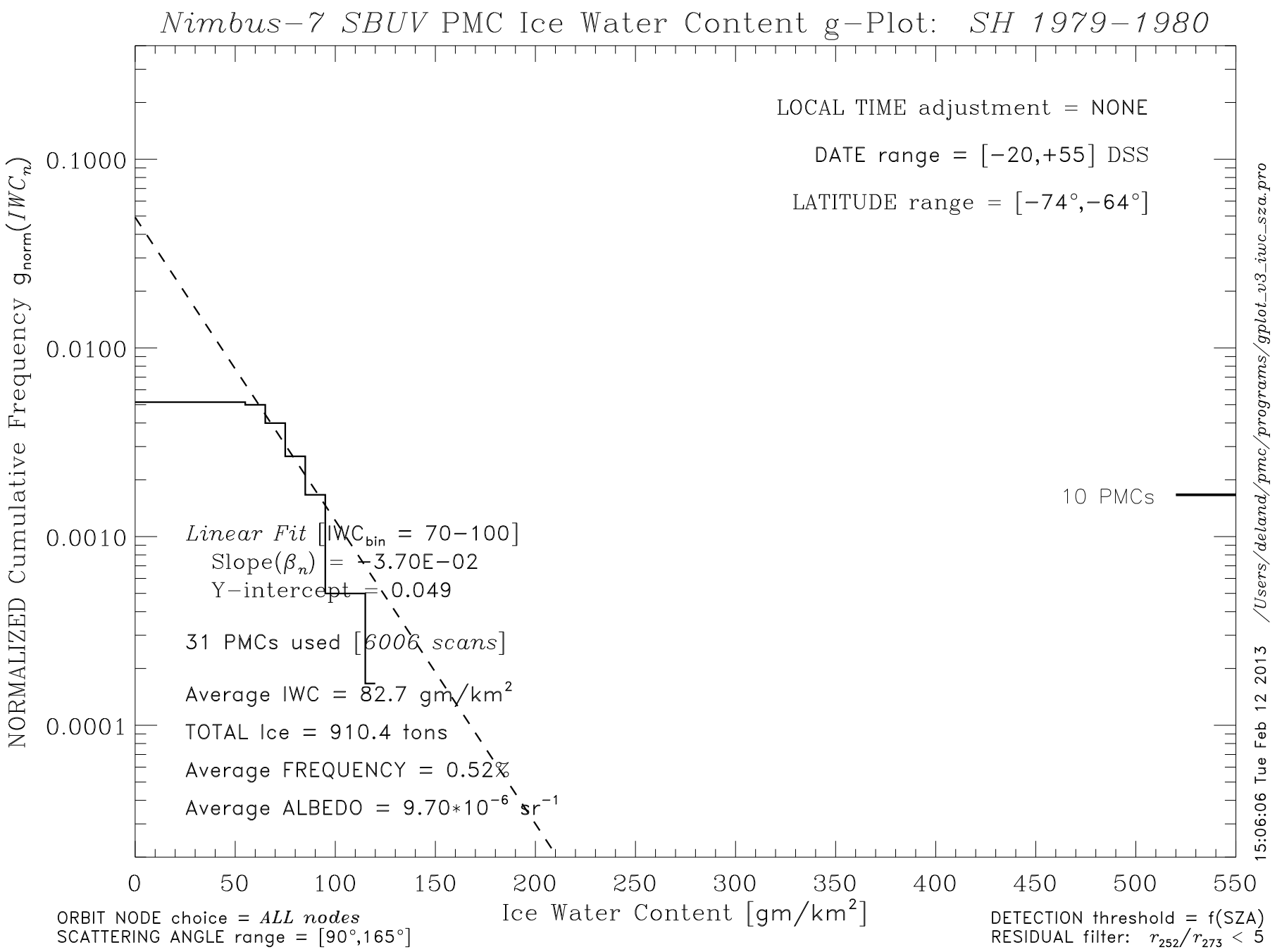
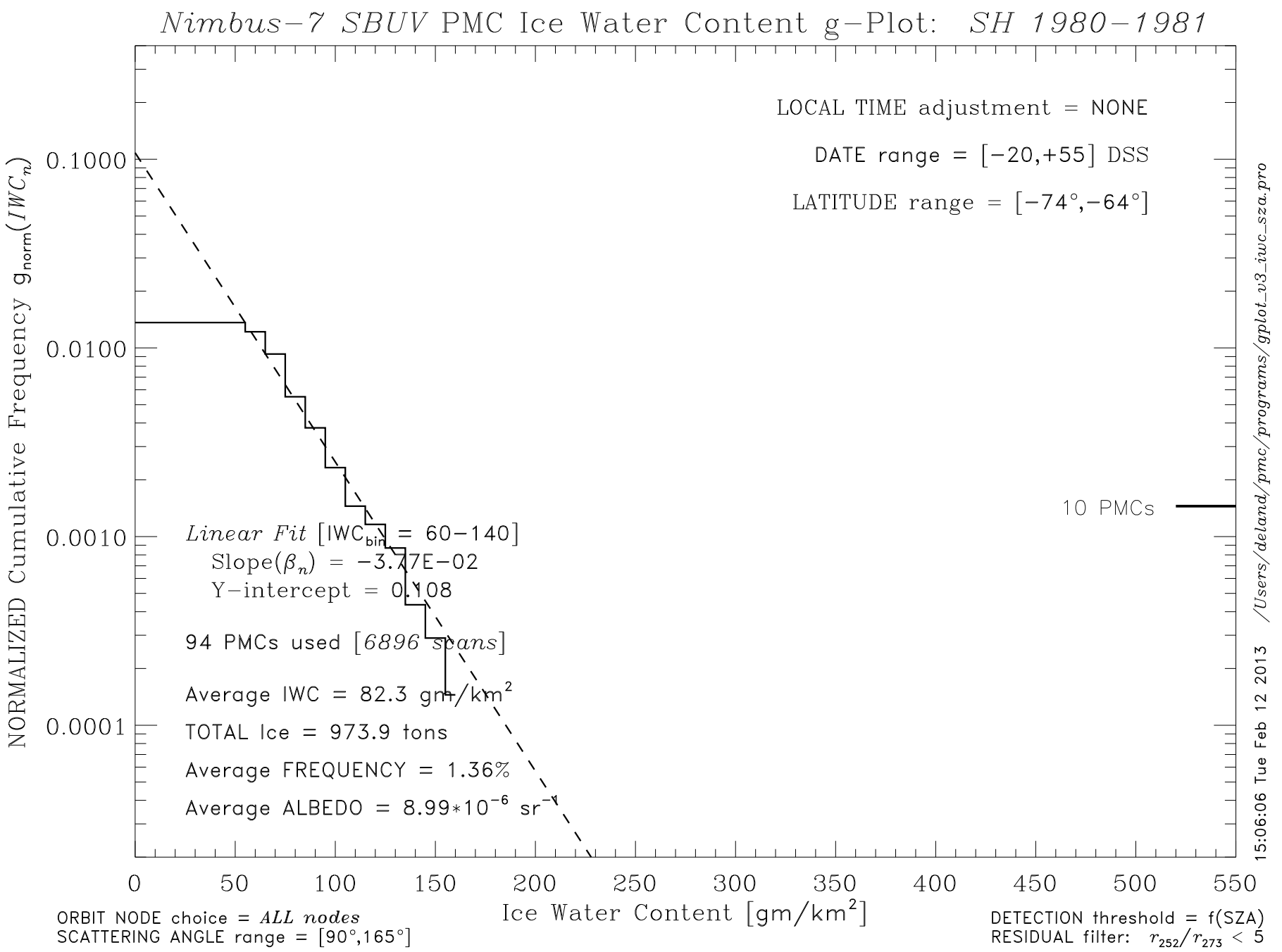
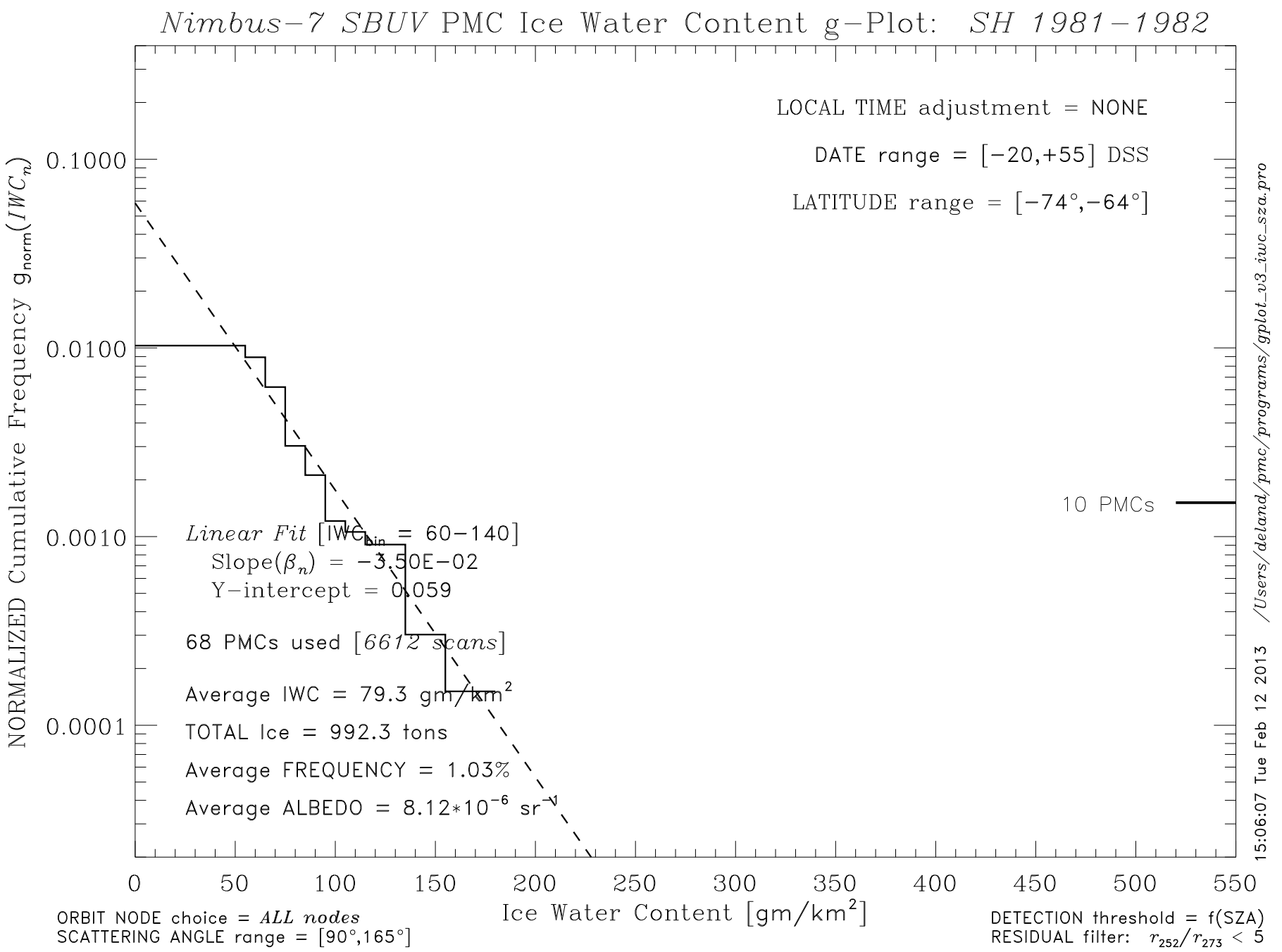
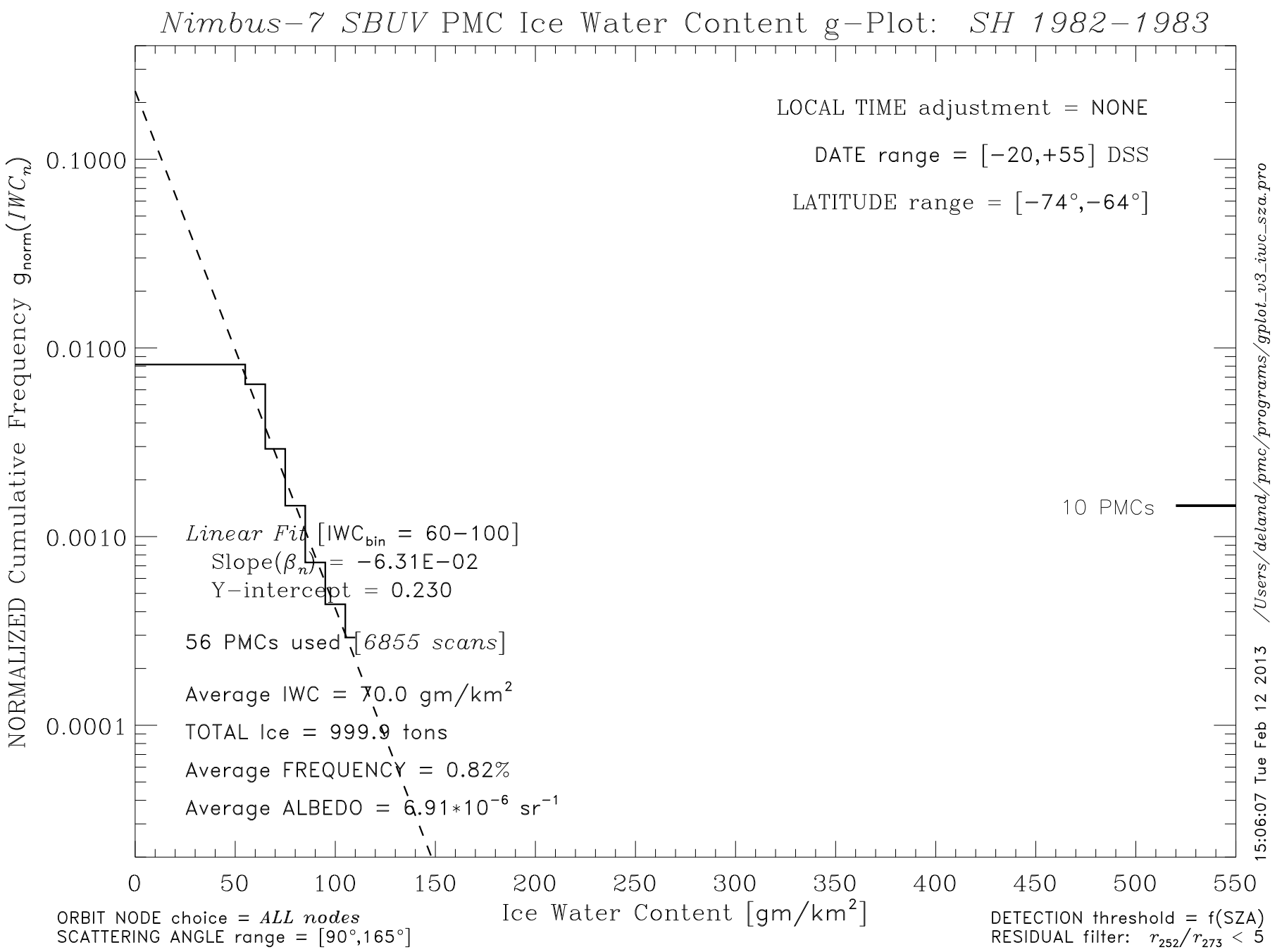
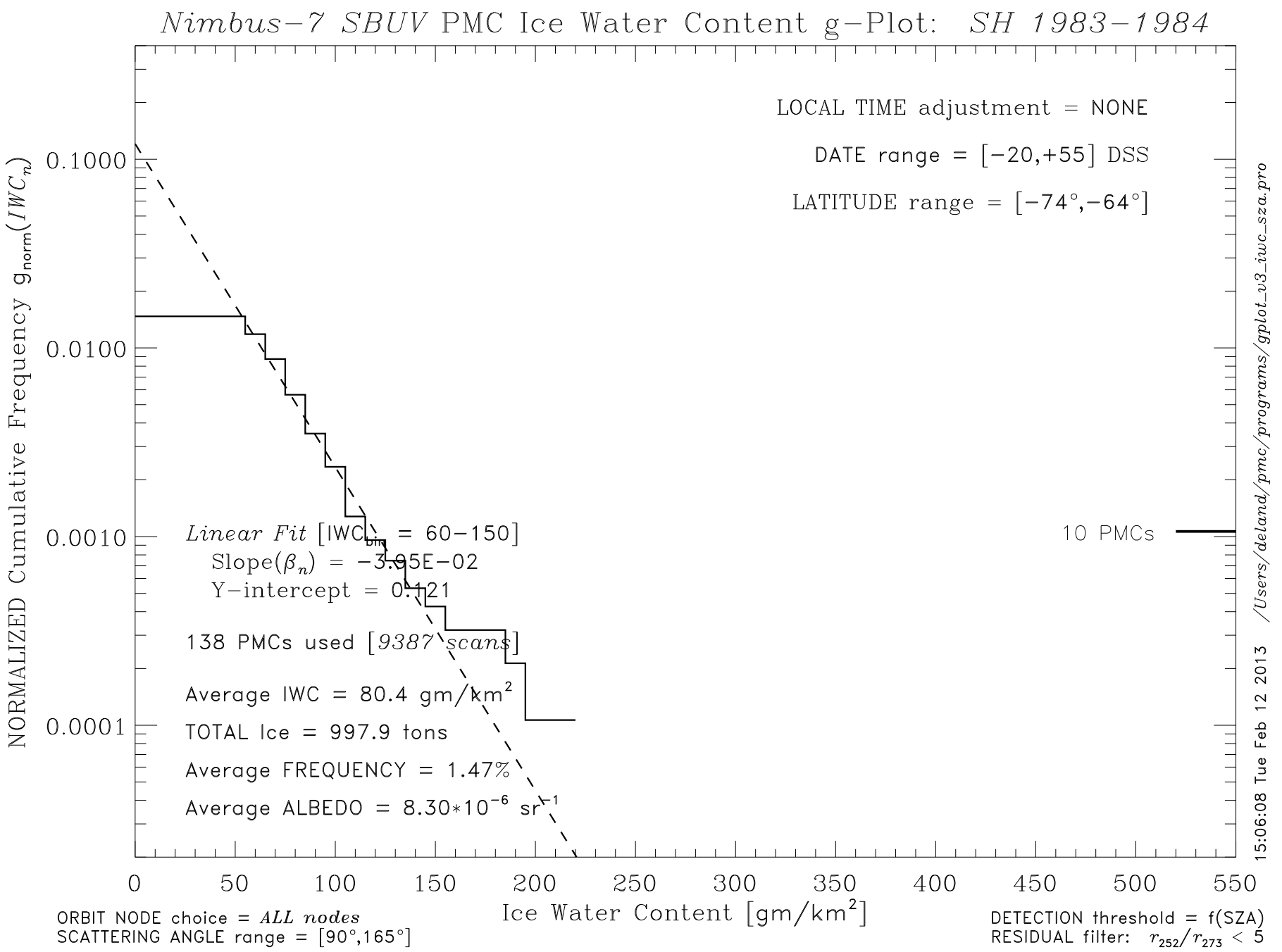

Nimbus−7 SBUV PMC Ice Water Content g−Plot: SH 1978−1979
LOCAL TIME adjustment = NONE
DATE range = [−20,+55] DSS
LATITUDE range = [−74°,−64°]
NORMALIZED Cumulative Frequency $g_{norm}(IWC_n)$
0.1000
0.0100
0.0010
0.0001
Linear Fit [IWC_{bin} = 60−120]
Slope(β_n) = −3.92E−02
Y−intercept = 0.058
51 PMCs used [2618 scans]
Average IWC = 80.2 gm/km^2
TOTAL Ice = 985.5 tons
Average FREQUENCY = 0.67%
Average ALBEDO = 8.23∗10^{-6} sr^{-1}
10 PMCs
0
50
100
150
200
250
300
350
400
450
500
550
Ice Water Content [gm/km^2]
15:06:05 Tue Feb 12 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: $r_{252}/r_{273} < 5$

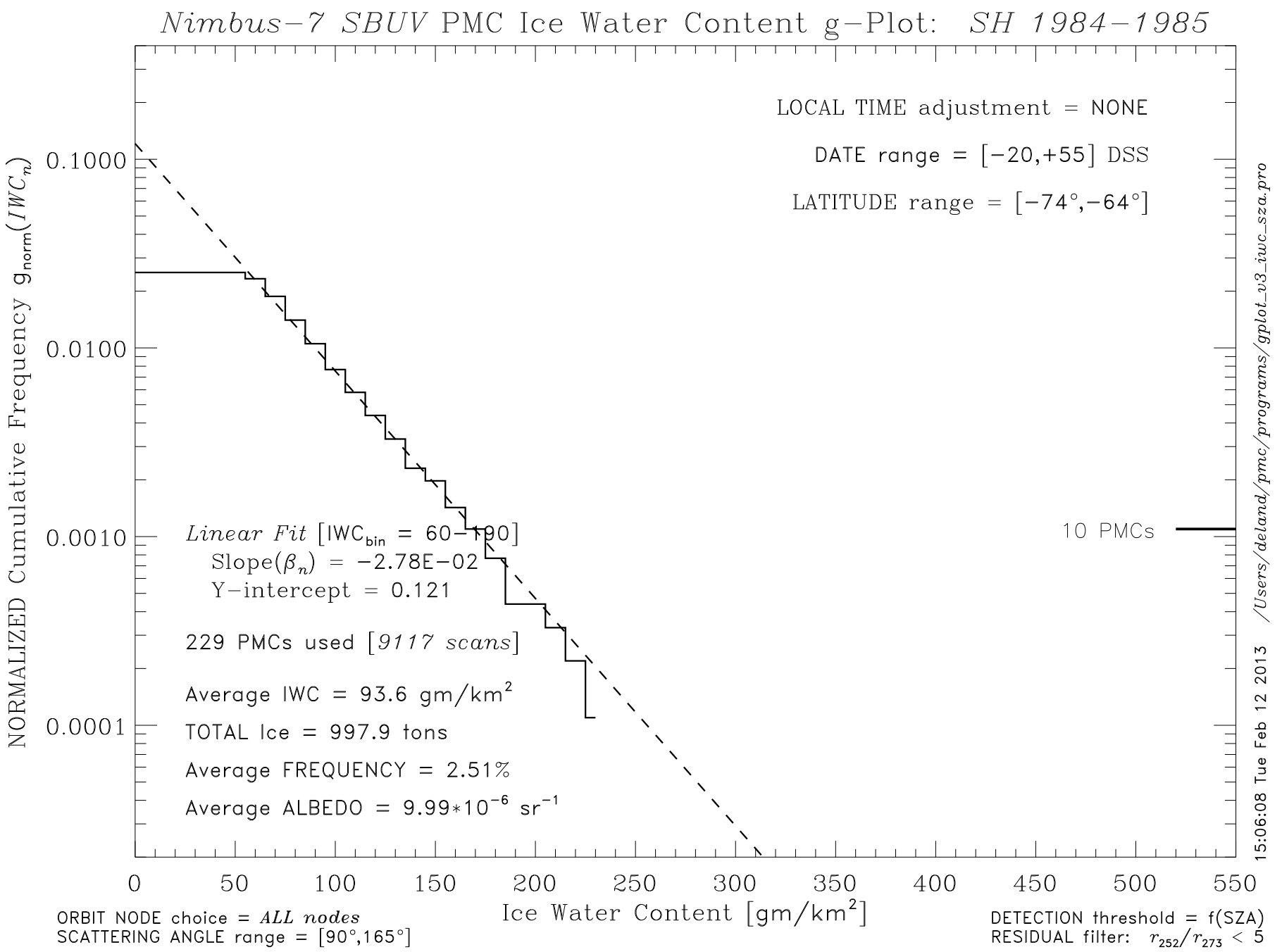

Nimbus−7 SBUV PMC Ice Water Content g−Plot: SH 1979−1980
LOCAL TIME adjustment = NONE
DATE range = [−20,+55] DSS
LATITUDE range = [−74°,−64°]
10 PMCs
Linear Fit [IWC_bin = 70−100]
Slope(β_n) = −3.70E−02
Y−intercept = 0.049
31 PMCs used [6006 scans]
Average IWC = 82.7 gm/km²
TOTAL Ice = 910.4 tons
Average FREQUENCY = 0.52%
Average ALBEDO = 9.70∗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: r_252/r_273 < 5
15:06:06 Tue Feb 12 2013 /Users/deland/pmc/programs/gplot_v3_iwc_sza.pro

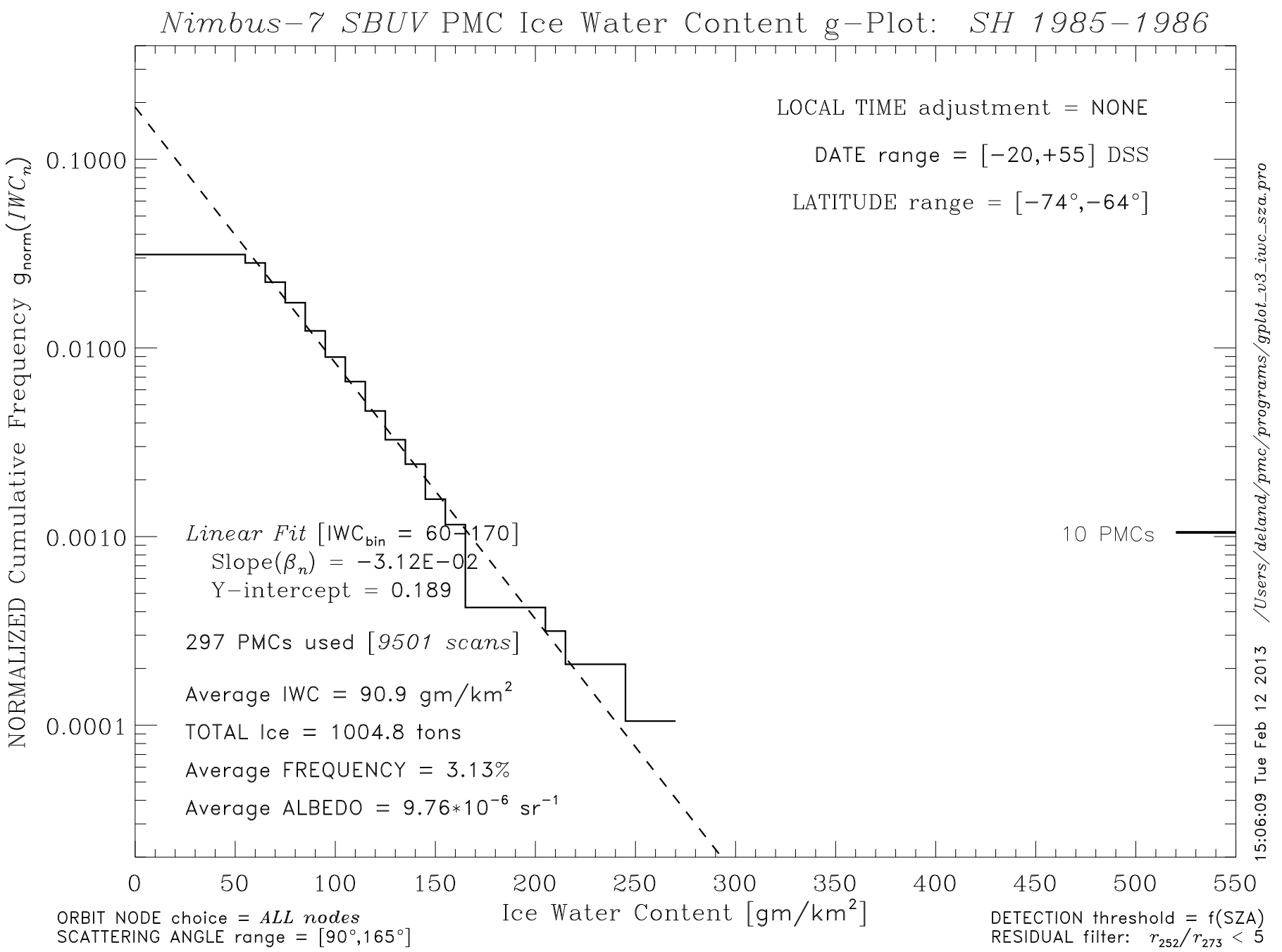

Nimbus−7 SBUV PMC Ice Water Content g−Plot: SH 1980−1981
LOCAL TIME adjustment = NONE
DATE range = [−20,+55] DSS
LATITUDE range = [−74°,−64°]
10 PMCs
Linear Fit [IWC_bin = 60−140]
Slope(β_n) = −3.77E−02
Y−intercept = 0.108
94 PMCs used [6896 scans]
Average IWC = 82.3 gm/km²
TOTAL Ice = 973.9 tons
Average FREQUENCY = 1.36%
Average ALBEDO = 8.99∗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: r_252/r_273 < 5
15:06:06 Tue Feb 12 2013 /Users/deland/pmc/programs/gplot_v3_iwc_sza.pro

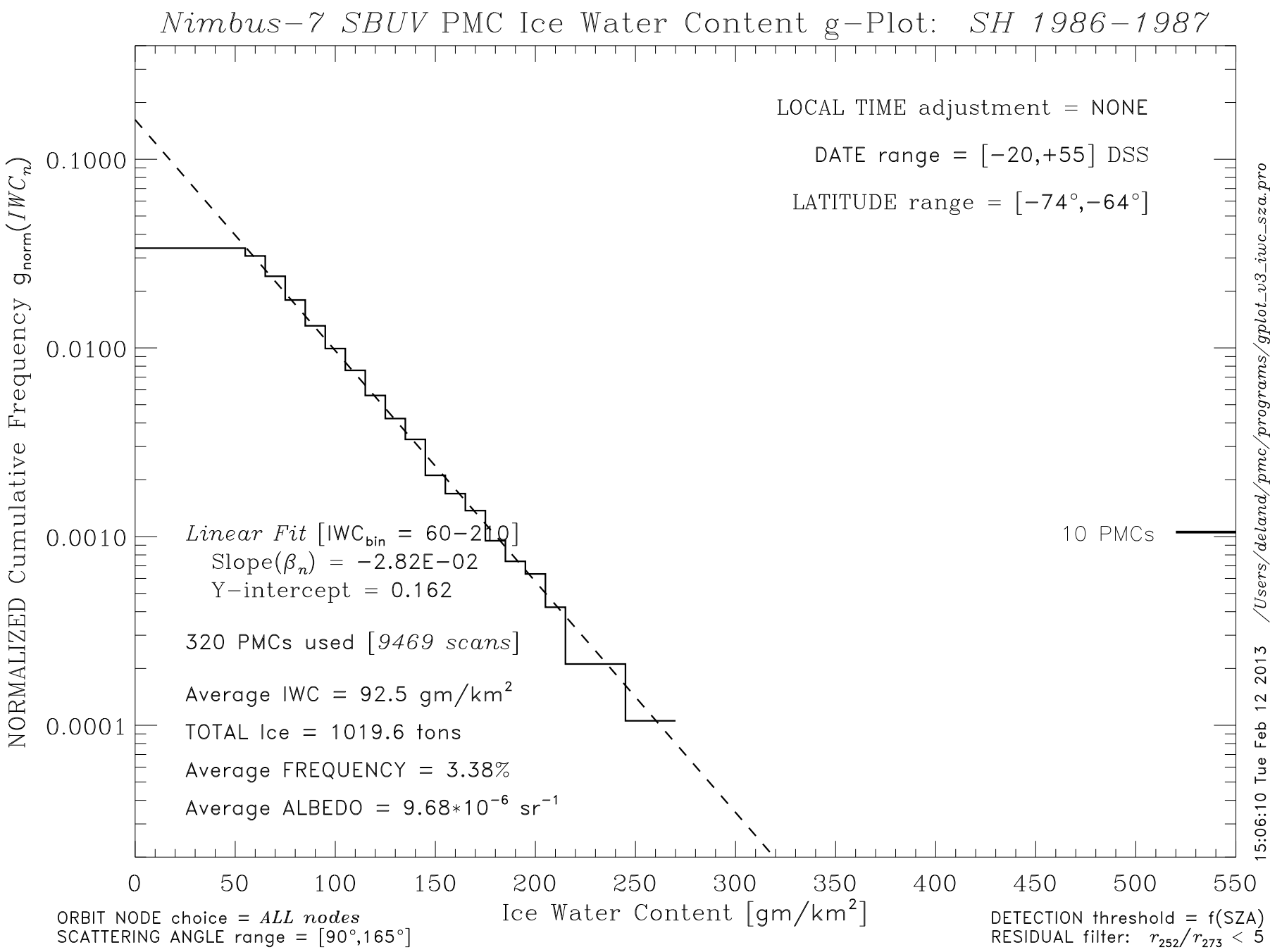

Nimbus−7 SBUV PMC Ice Water Content g−Plot: SH 1981−1982
LOCAL TIME adjustment = NONE
DATE range = [−20,+55] DSS
LATITUDE range = [−74°,−64°]
10 PMCs
Linear Fit [IWC_bin = 60−140]
Slope(β_n) = −3.50E−02
Y−intercept = 0.059
68 PMCs used [6612 scans]
Average IWC = 79.3 gm/km²
TOTAL Ice = 992.3 tons
Average FREQUENCY = 1.03%
Average ALBEDO = 8.12*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: r_252/r_273 < 5
15:06:07 Tue Feb 12 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 = NONE
DATE range = [-20,+55] DSS
LATITUDE range = [-74°,-64°]
10 PMCs
Linear Fit [IWC_bin = 60-100]
Slope(β_n) = -6.31E-02
Y-intercept = 0.230
56 PMCs used [6855 scans]
Average IWC = 70.0 gm/km²
TOTAL Ice = 999.9 tons
Average FREQUENCY = 0.82%
Average ALBEDO = 6.91*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: r_252/r_273 < 5
15:06:07 Tue Feb 12 2013 /Users/deland/pmc/programs/gplot_v3_iwc_sza.pro

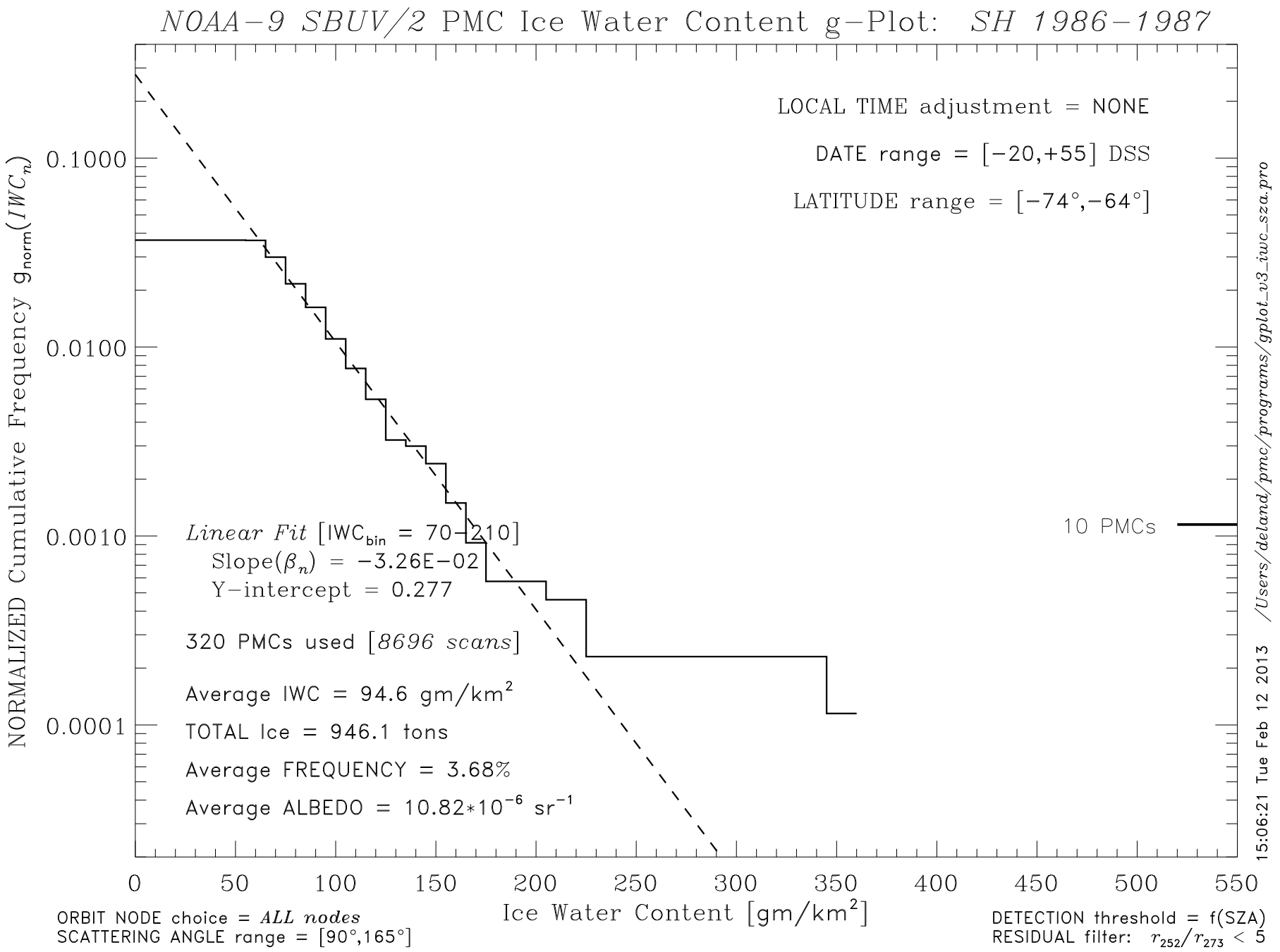

Nimbus−7 SBUV PMC Ice Water Content g−Plot: SH 1983−1984
LOCAL TIME adjustment = NONE
DATE range = [−20,+55] DSS
LATITUDE range = [−74°,−64°]
NORMALIZED Cumulative Frequency $g_{norm}(IWC_n)$
0.1000
0.0100
0.0010
0.0001
Linear Fit [IWC$_{bin}$ = 60−150]
Slope(β_n) = −3.95E−02
Y−intercept = 0.121
138 PMCs used [9387 scans]
Average IWC = 80.4 gm/km^2
TOTAL Ice = 997.9 tons
Average FREQUENCY = 1.47%
Average ALBEDO = 8.30∗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: $r_{252}/r_{273} < 5$
15:06:08 Tue Feb 12 2013 /Users/deland/pmc/programs/gplot_v3_iwc_sza.pro

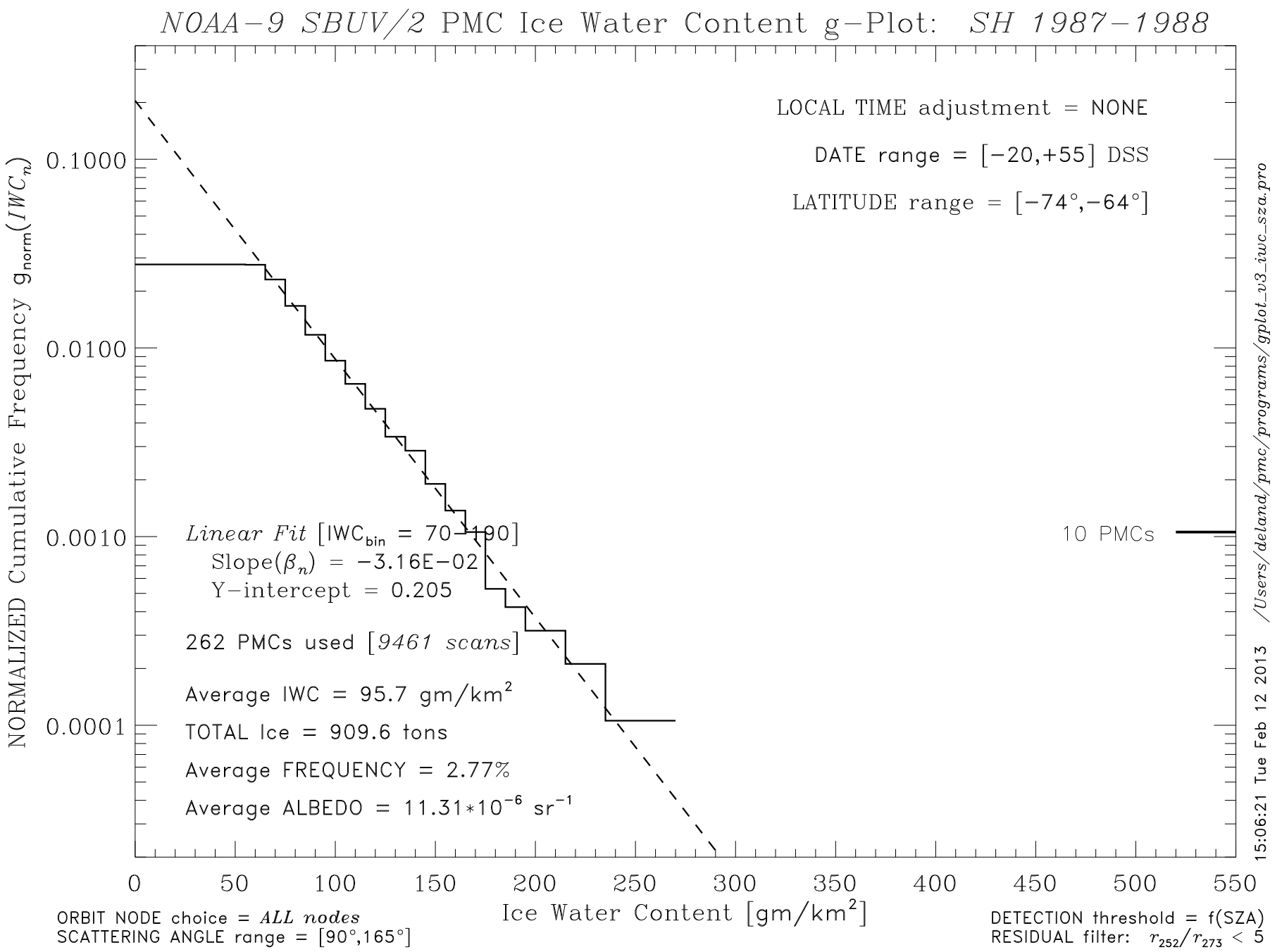

Nimbus−7 SBUV PMC Ice Water Content g−Plot: SH 1984−1985
LOCAL TIME adjustment = NONE
DATE range = [−20,+55] DSS
LATITUDE range = [−74°,−64°]
NORMALIZED Cumulative Frequency $g_{norm}(IWC_n)$
0.1000
0.0100
0.0010
0.0001
Linear Fit [IWC_{bin} = 60−190]
Slope(β_n) = −2.78E−02
Y−intercept = 0.121
229 PMCs used [9117 scans]
Average IWC = 93.6 gm/km^2
TOTAL Ice = 997.9 tons
Average FREQUENCY = 2.51%
Average ALBEDO = 9.99∗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: $r_{252}/r_{273} < 5$
15:06:08 Tue Feb 12 2013 /Users/deland/pmc/programs/gplot_v3_iwc_sza.pro

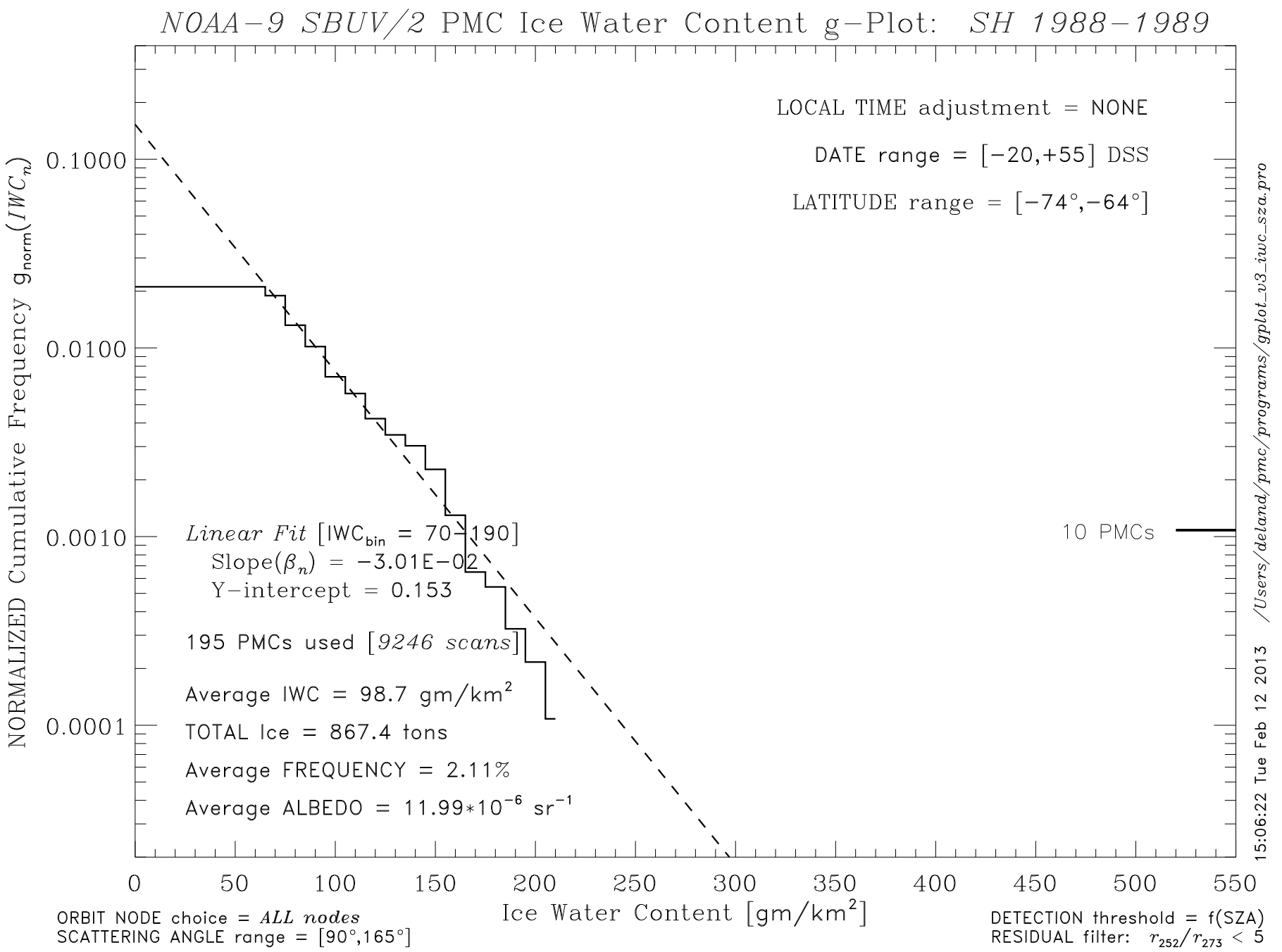

Nimbus−7 SBUV PMC Ice Water Content g−Plot: SH 1985−1986
LOCAL TIME adjustment = NONE
DATE range = [−20,+55] DSS
LATITUDE range = [−74°,−64°]
NORMALIZED Cumulative Frequency $g_{norm}(IWC_n)$
0.1000
0.0100
0.0010
0.0001
Linear Fit [IWC$_{bin}$ = 60−170]
Slope(β_n) = −3.12E−02
Y−intercept = 0.189
297 PMCs used [9501 scans]
Average IWC = 90.9 gm/km^2
TOTAL Ice = 1004.8 tons
Average FREQUENCY = 3.13%
Average ALBEDO = 9.76∗10^{-6} sr^{-1}
10 PMCs
0
50
100
150
200
250
300
350
400
450
500
550
Ice Water Content [gm/km^2]
15:06:09 Tue Feb 12 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: $r_{252}/r_{273} < 5$

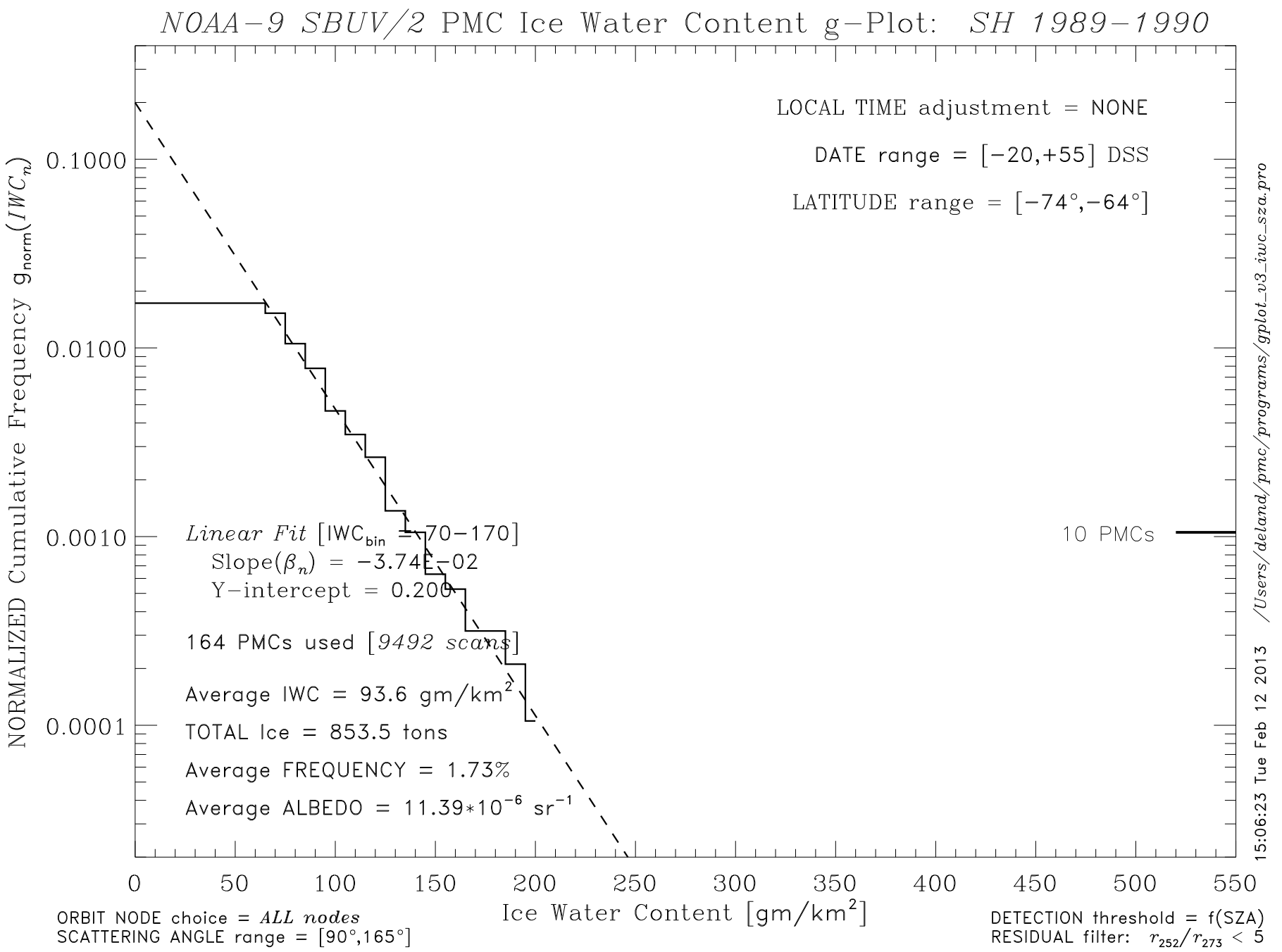

Nimbus−7 SBUV PMC Ice Water Content g−Plot: SH 1986−1987
LOCAL TIME adjustment = NONE
DATE range = [−20,+55] DSS
LATITUDE range = [−74°,−64°]
NORMALIZED Cumulative Frequency $g_{norm}(IWC_n)$
0.1000
0.0100
0.0010
0.0001
Linear Fit [IWC_bin = 60−210]
Slope(β_n) = −2.82E−02
Y−intercept = 0.162
320 PMCs used [9469 scans]
Average IWC = 92.5 gm/km^2
TOTAL Ice = 1019.6 tons
Average FREQUENCY = 3.38%
Average ALBEDO = 9.68∗10^{-6} sr^{-1}
10 PMCs
0
50
100
150
200
250
300
350
400
450
500
550
Ice Water Content [gm/km^2]
ORBIT NODE choice = ALL nodes
SCATTERING ANGLE range = [90°,165°]
DETECTION threshold = f(SZA)
RESIDUAL filter: $r_{252}/r_{273} < 5$
15:06:10 Tue Feb 12 2013 /Users/deland/pmc/programs/gplot_v3_iwc_sza.pro

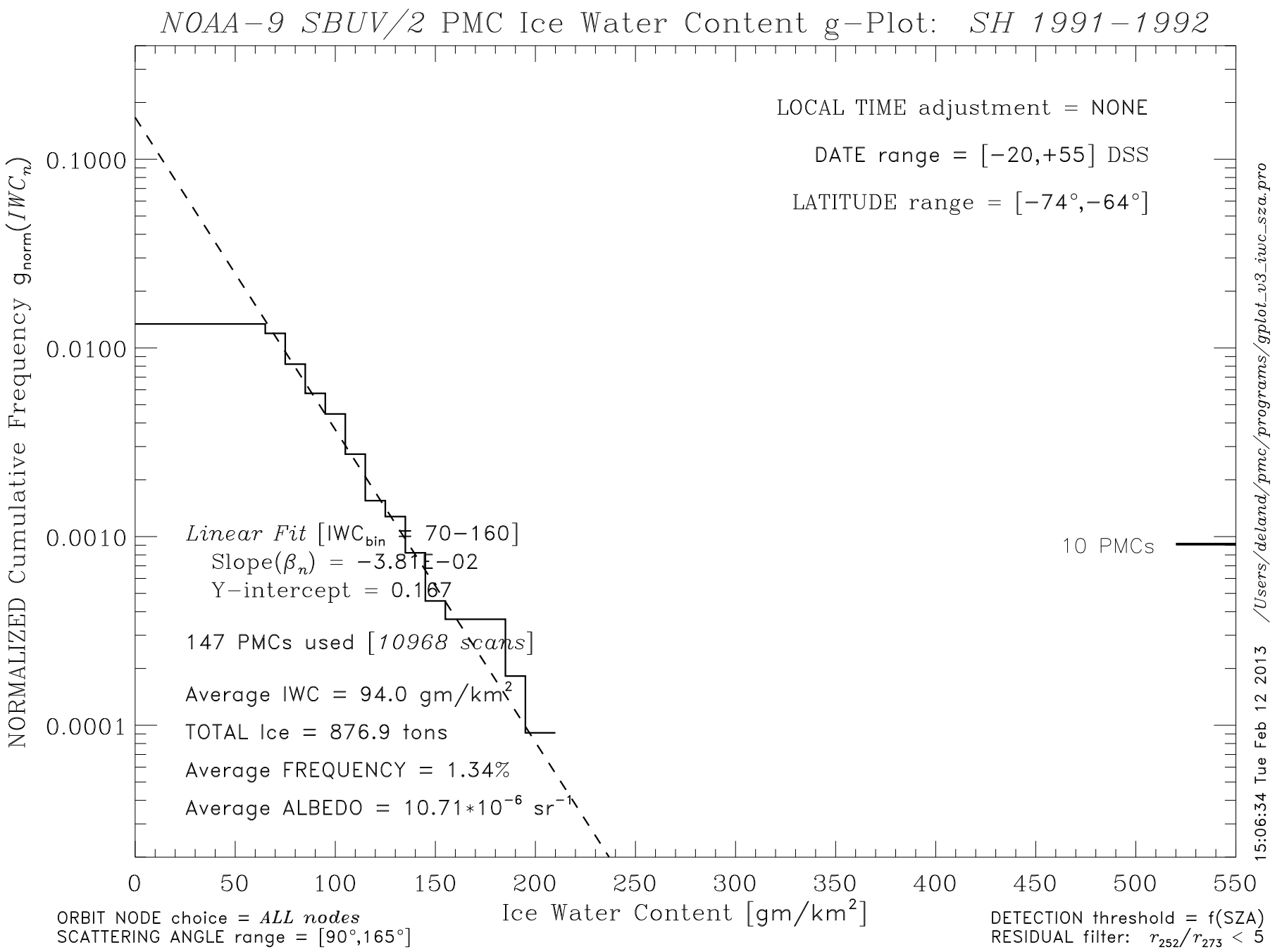
NOAA-9 SBUV/2 PMC Ice Water Content g-Plot: SH 1985-1986
LOCAL TIME adjustment = NONE
DATE range = [-20,+55] DSS
LATITUDE range = [-74°,-64°]
10 PMCs
Linear Fit [IWC_bin = 70-160]
Slope(β_n) = -3.53E+02
Y-intercept = 0.179
145 PMCs used [7157 scans]
Average IWC = 90.4 gm/km²
TOTAL Ice = 913.8 tons
Average FREQUENCY = 2.03%
Average ALBEDO = 10.69*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
15:06:20 Tue Feb 12 2013 /Users/deland/pmc/programs/gplot_v3_iwc_sza.pro

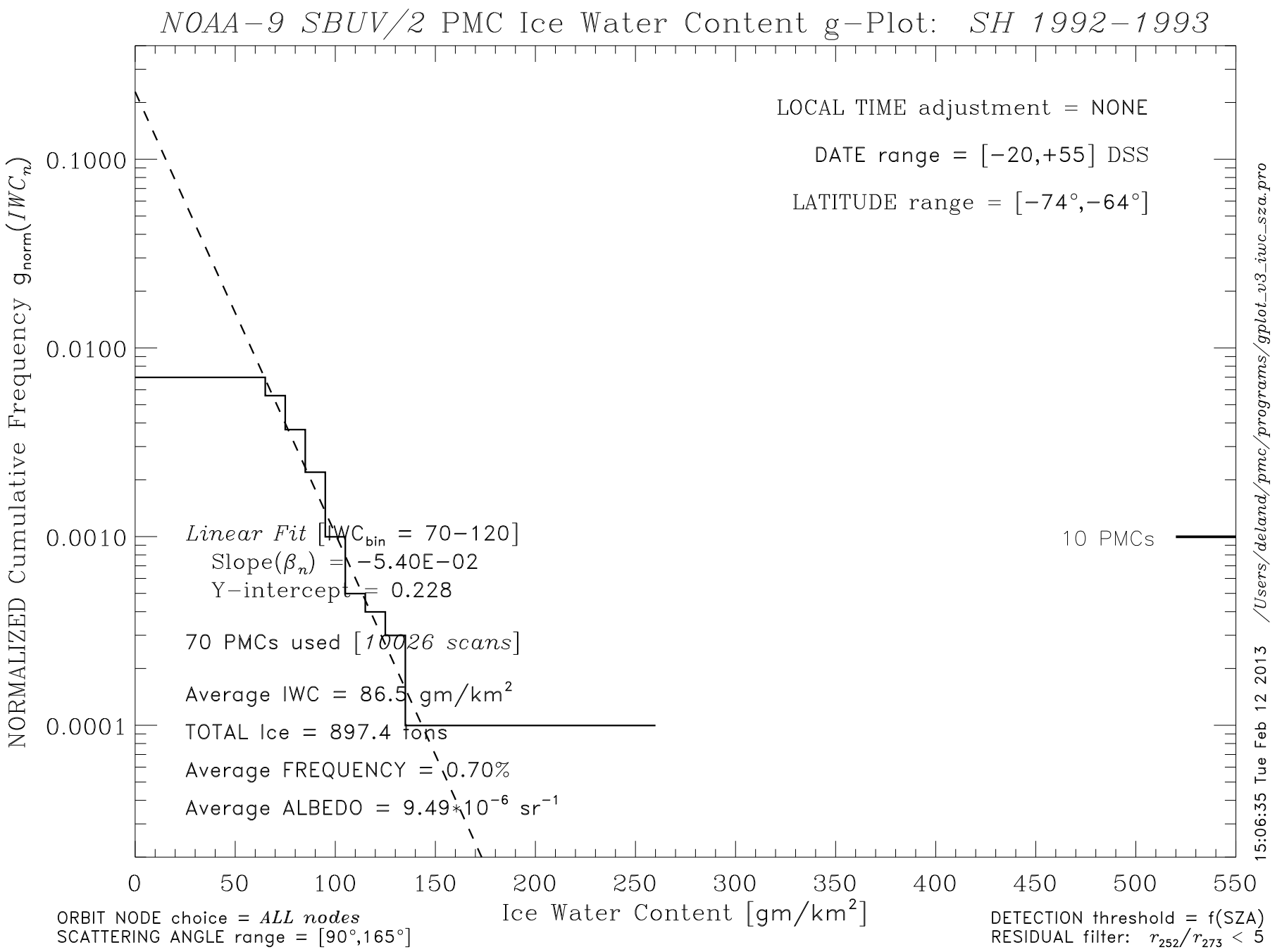

NOAA−9 SBUV/2 PMC Ice Water Content g−Plot: SH 1986−1987
LOCAL TIME adjustment = NONE
DATE range = [−20,+55] DSS
LATITUDE range = [−74°,−64°]
NORMALIZED Cumulative Frequency $g_{norm}(IWC_n)$
0.1000
0.0100
0.0010
0.0001
Linear Fit [IWC_{bin} = 70−210]
Slope(β_n) = −3.26E−02
Y−intercept = 0.277
320 PMCs used [8696 scans]
Average IWC = 94.6 gm/km^2
TOTAL Ice = 946.1 tons
Average FREQUENCY = 3.68%
Average ALBEDO = 10.82∗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: $r_{252}/r_{273} < 5$
15:06:21 Tue Feb 12 2013 /Users/deland/pmc/programs/gplot_v3_iwc_sza.pro

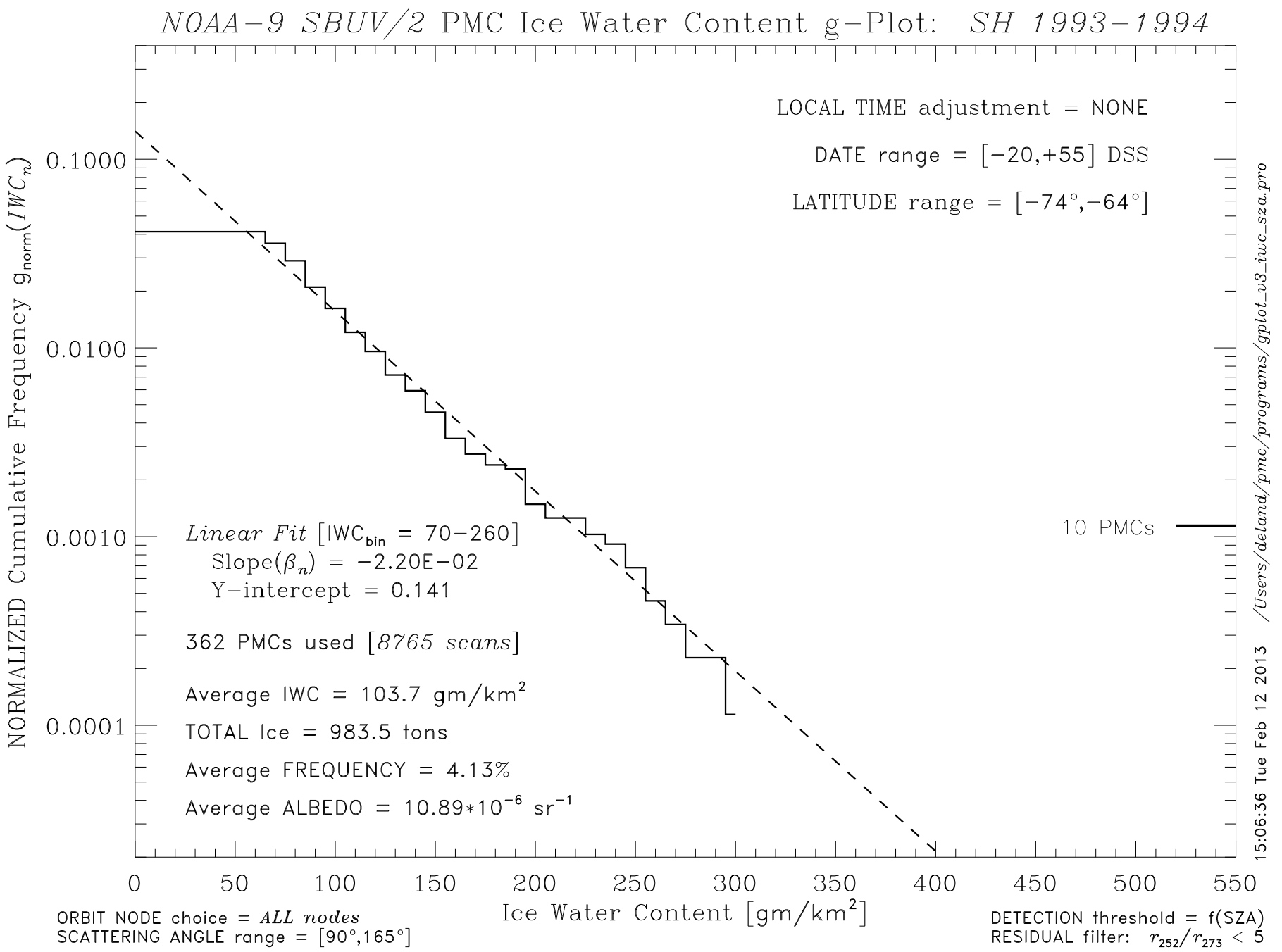

NOAA-9 SBUV/2 PMC Ice Water Content g-Plot: SH 1987-1988
LOCAL TIME adjustment = NONE
DATE range = [-20,+55] DSS
LATITUDE range = [-74°,-64°]
NORMALIZED Cumulative Frequency $g_{norm}(IWC_n)$
0.1000
0.0100
0.0010
0.0001
Linear Fit [IWC_bin = 70-190]
Slope(β_n) = -3.16E-02
Y-intercept = 0.205
262 PMCs used [9461 scans]
Average IWC = 95.7 gm/km^2
TOTAL Ice = 909.6 tons
Average FREQUENCY = 2.77%
Average ALBEDO = 11.31*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: $r_{252}/r_{273} < 5$
15:06:21 Tue Feb 12 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 = NONE
DATE range = [-20,+55] DSS
LATITUDE range = [-74°,-64°]
NORMALIZED Cumulative Frequency $g_{norm}(IWC_n)$
0.1000
0.0100
0.0010
0.0001
Linear Fit [IWC_bin = 70-190]
Slope(β_n) = -3.01E-02
Y-intercept = 0.153
195 PMCs used [9246 scans]
Average IWC = 98.7 gm/km^2
TOTAL Ice = 867.4 tons
Average FREQUENCY = 2.11%
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: $r_{252}/r_{273} < 5$
15:06:22 Tue Feb 12 2013 /Users/deland/pmc/programs/gplot_v3_iwc_sza.pro

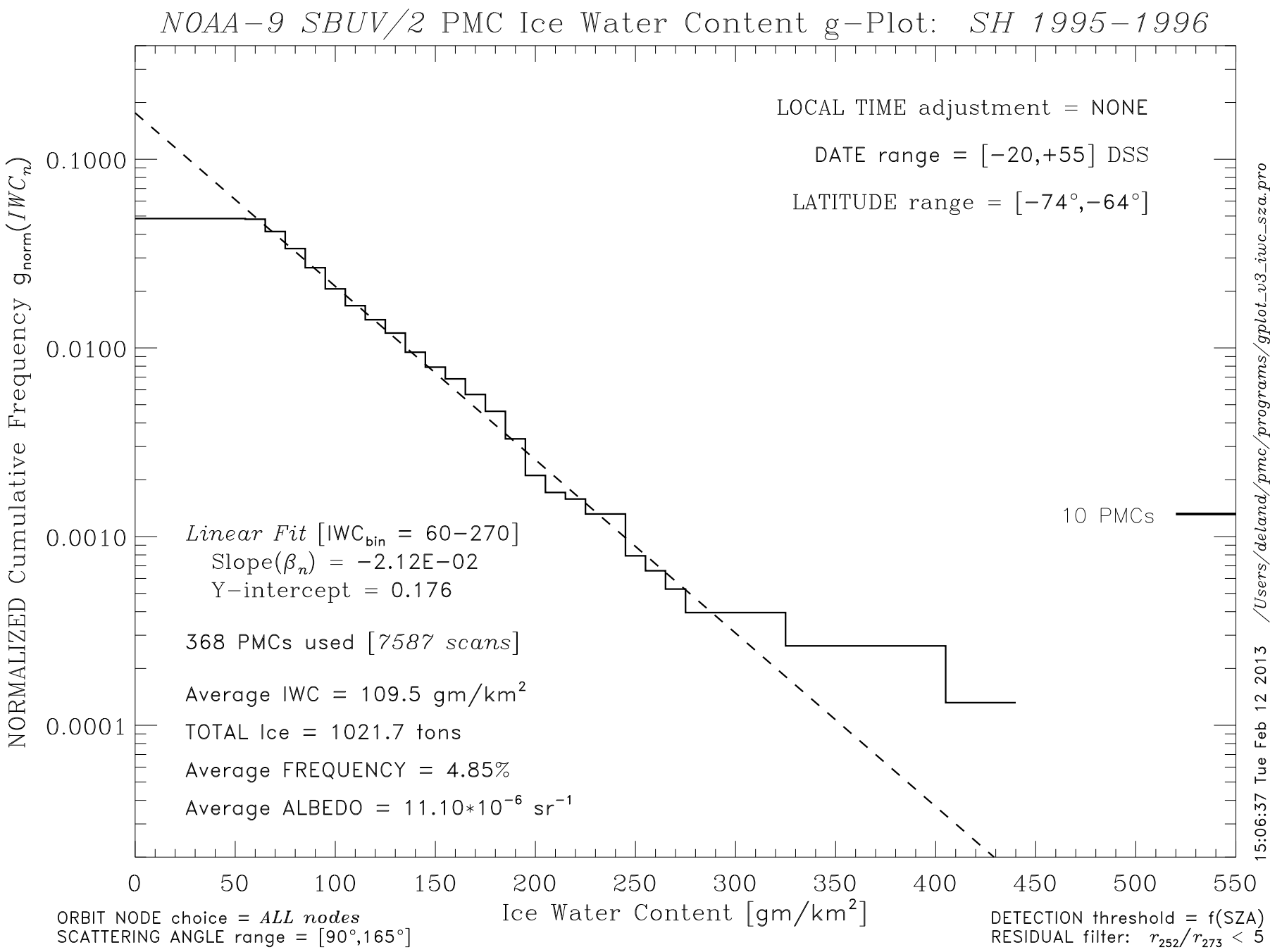

NOAA-9 SBUV/2 PMC Ice Water Content g-Plot: SH 1989-1990
LOCAL TIME adjustment = NONE
DATE range = [-20,+55] DSS
LATITUDE range = [-74°,-64°]
NORMALIZED Cumulative Frequency $g_{norm}(IWC_n)$
0.1000
0.0100
0.0010
0.0001
Linear Fit [IWC_bin = 70-170]
Slope(β_n) = -3.74E-02
Y-intercept = 0.200
164 PMCs used [9492 scans]
Average IWC = 93.6 gm/km^2
TOTAL Ice = 853.5 tons
Average FREQUENCY = 1.73%
Average ALBEDO = 11.39*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: $r_{252}/r_{273} < 5$
15:06:23 Tue Feb 12 2013 /Users/deland/pmc/programs/gplot_v3_iwc_sza.pro

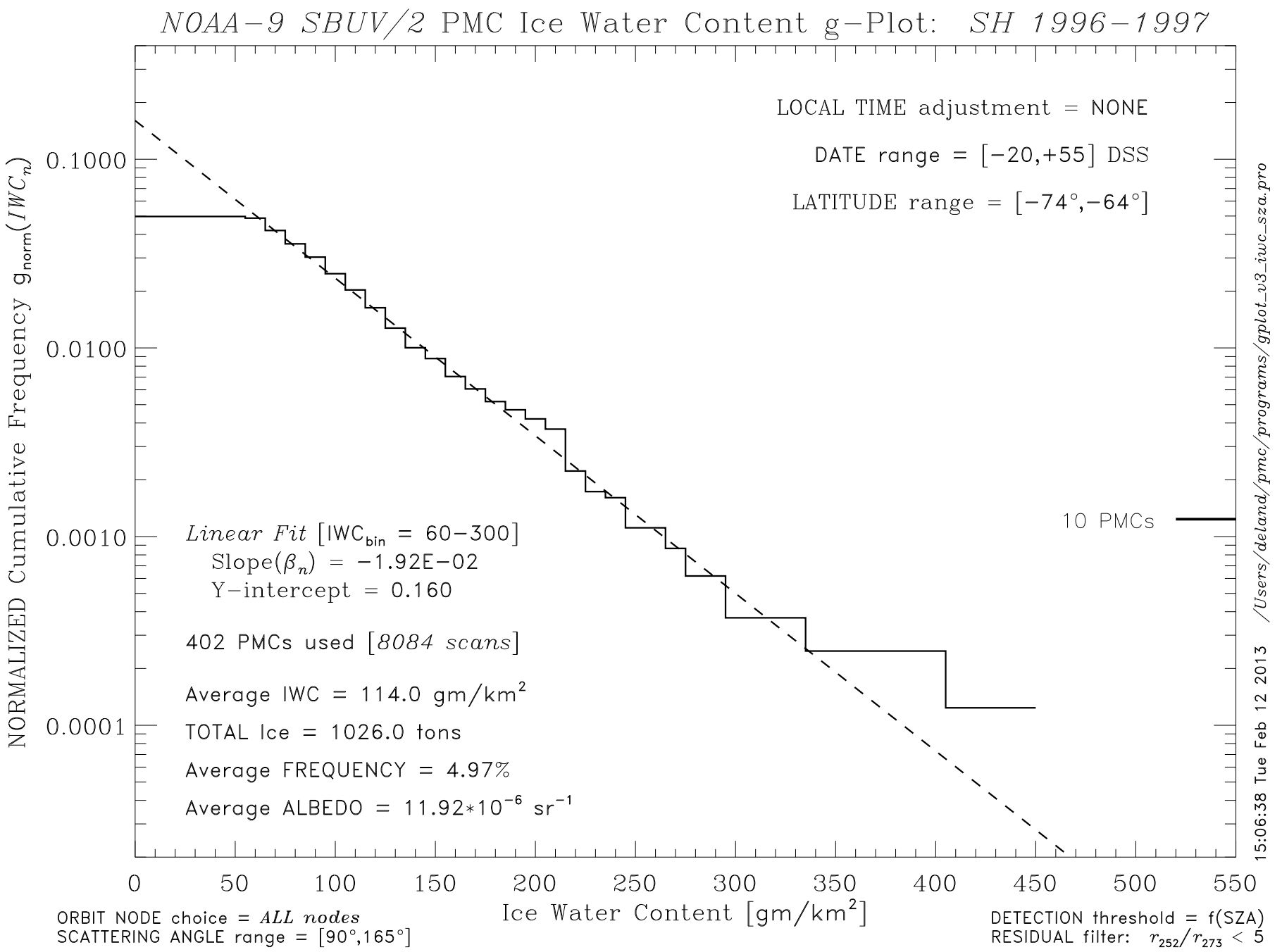

NOAA-9 SBUV/2 PMC Ice Water Content g-Plot: SH 1991-1992
LOCAL TIME adjustment = NONE
DATE range = [-20,+55] DSS
LATITUDE range = [-74°,-64°]
NORMALIZED Cumulative Frequency $g_{norm}(IWC_n)$
0.1000
0.0100
0.0010
0.0001
Linear Fit [IWC_{bin} = 70-160]
Slope(β_n) = -3.81E-02
Y-intercept = 0.167
147 PMCs used [10968 scans]
Average IWC = 94.0 gm/km^2
TOTAL Ice = 876.9 tons
Average FREQUENCY = 1.34%
Average ALBEDO = 10.71*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: $r_{252}/r_{273} < 5$
15:06:34 Tue Feb 12 2013 /Users/deland/pmc/programs/gplot_v3_iwc_sza.pro


NOAA-9 SBUV/2 PMC Ice Water Content g-Plot: SH 1992-1993
LOCAL TIME adjustment = NONE
DATE range = [-20,+55] DSS
LATITUDE range = [-74°,-64°]
NORMALIZED Cumulative Frequency $g_{norm}(IWC_n)$
0.1000
0.0100
0.0010
0.0001
Linear Fit [IWC_{bin} = 70-120]
Slope(β_n) = -5.40E-02
Y-intercept = 0.228
70 PMCs used [10026 scans]
Average IWC = 86.5 gm/km^2
TOTAL Ice = 897.4 tons
Average FREQUENCY = 0.70%
Average ALBEDO = 9.49*10^{-6} sr^{-1}
10 PMCs
0
50
100
150
200
250
300
350
400
450
500
550
Ice Water Content [gm/km^2]
15:06:35 Tue Feb 12 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: $r_{252}/r_{273} < 5$

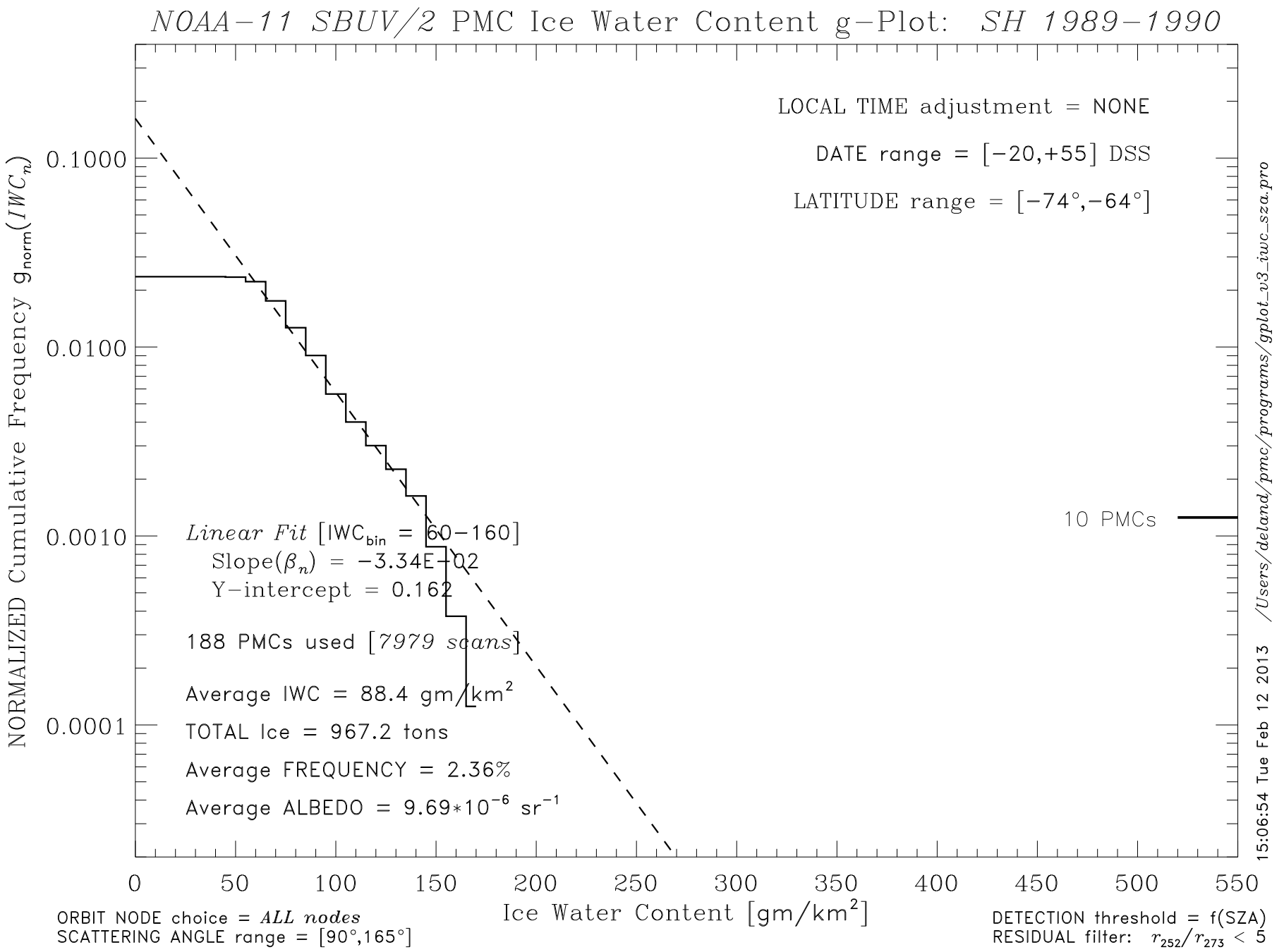

NOAA−9 SBUV/2 PMC Ice Water Content g−Plot: SH 1993−1994
LOCAL TIME adjustment = NONE
DATE range = [−20,+55] DSS
LATITUDE range = [−74°,−64°]
NORMALIZED Cumulative Frequency $g_{norm}(IWC_n)$
0.1000
0.0100
0.0010
0.0001
Linear Fit [IWC_{bin} = 70−260]
Slope(β_n) = −2.20E−02
Y−intercept = 0.141
362 PMCs used [8765 scans]
Average IWC = 103.7 gm/km^2
TOTAL Ice = 983.5 tons
Average FREQUENCY = 4.13%
Average ALBEDO = 10.89∗10^{-6} sr^{-1}
10 PMCs
0
50
100
150
200
250
300
350
400
450
500
550
Ice Water Content [gm/km^2]
ORBIT NODE choice = ALL nodes
SCATTERING ANGLE range = [90°,165°]
DETECTION threshold = f(SZA)
RESIDUAL filter: $r_{252}/r_{273} < 5$
15:06:36 Tue Feb 12 2013 /Users/deland/pmc/programs/gplot_v3_iwc_sza.pro

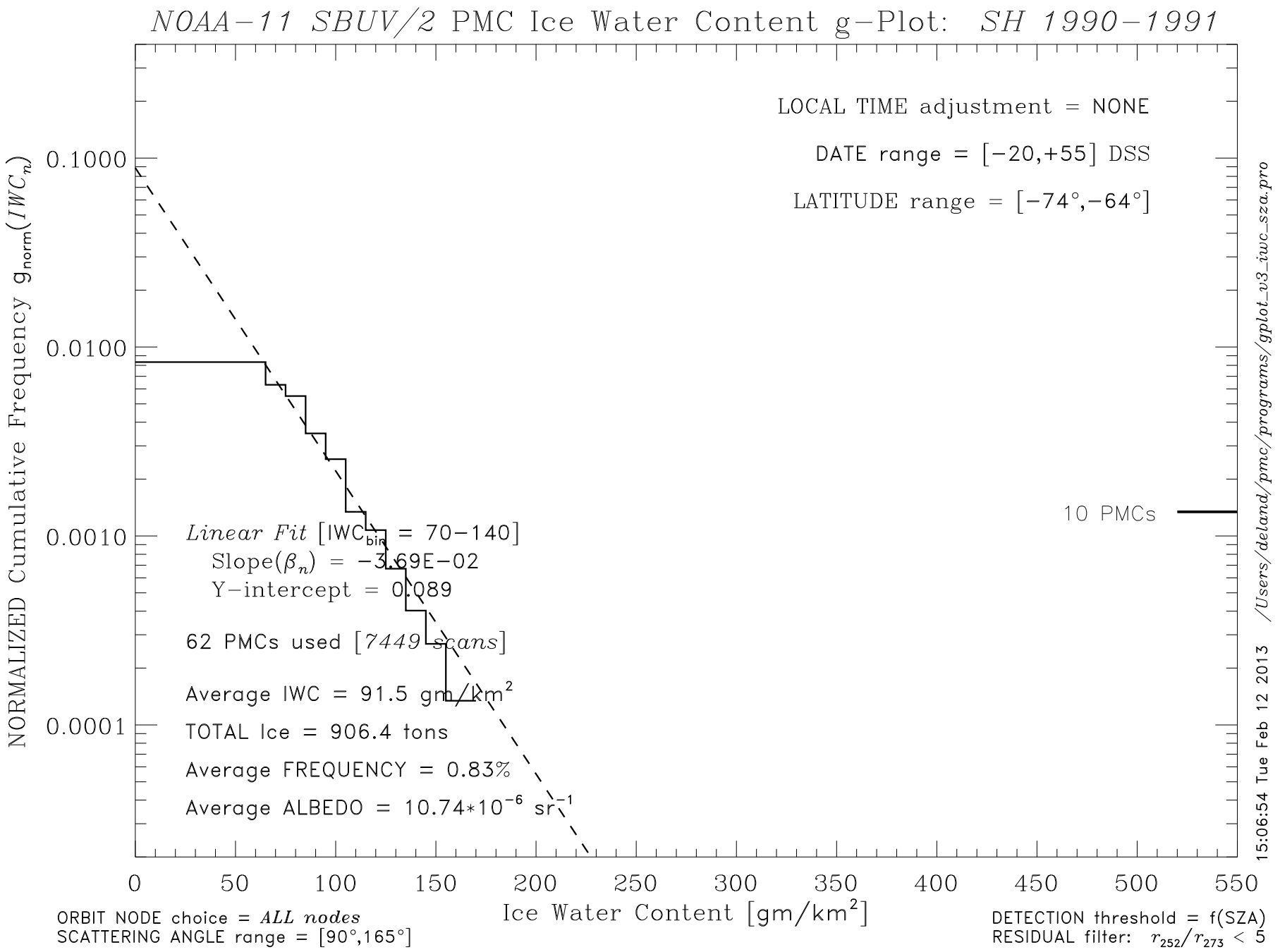
NOAA-9 SBUV/2 PMC Ice Water Content g-Plot: SH 1994-1995
LOCAL TIME adjustment = NONE
DATE range = [-20,+55] DSS
LATITUDE range = [-74°,-64°]
10 PMCs
Linear Fit [IWC_bin = 70-270]
Slope(β_n) = -2.18E-02
Y-intercept = 0.221
460 PMCs used [7624 scans]
Average IWC = 106.3 gm/km²
TOTAL Ice = 1020.0 tons
Average FREQUENCY = 6.03%
Average ALBEDO = 11.35*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
15:06:37 Tue Feb 12 2013 /Users/deland/pmc/programs/gplot_v3_iwc_sza.pro

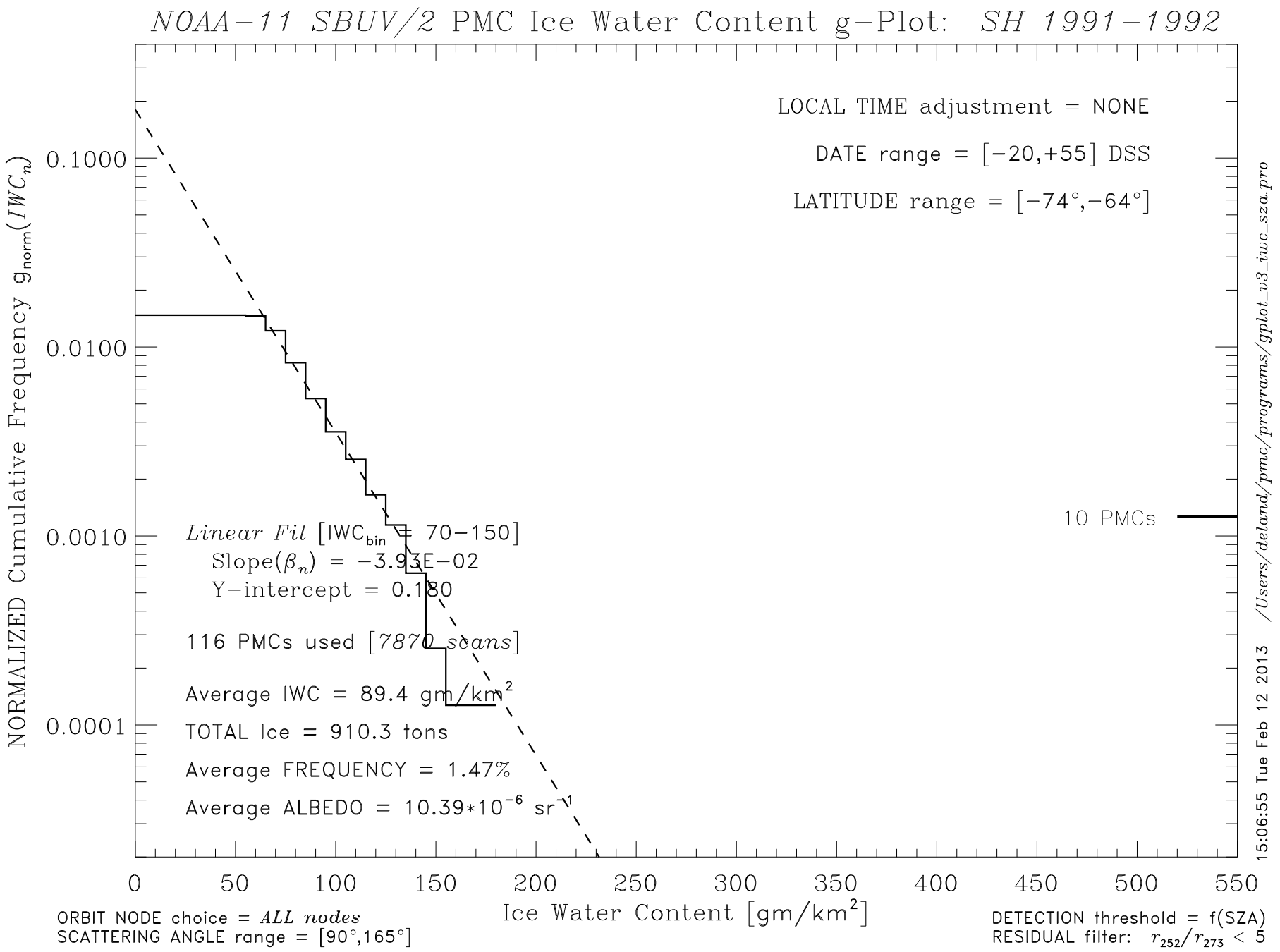

NOAA−9 SBUV/2 PMC Ice Water Content g−Plot: SH 1995−1996
LOCAL TIME adjustment = NONE
DATE range = [−20,+55] DSS
LATITUDE range = [−74°,−64°]
NORMALIZED Cumulative Frequency $g_{norm}(IWC_n)$
0.1000
0.0100
0.0010
0.0001
10 PMCs
Linear Fit [IWC_{bin} = 60−270]
Slope(β_n) = −2.12E−02
Y−intercept = 0.176
368 PMCs used [7587 scans]
Average IWC = 109.5 gm/km^2
TOTAL Ice = 1021.7 tons
Average FREQUENCY = 4.85%
Average ALBEDO = 11.10∗10^{-6} sr^{-1}
0
50
100
150
200
250
300
350
400
450
500
550
Ice Water Content [gm/km^2]
15:06:37 Tue Feb 12 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: $r_{252}/r_{273} < 5$

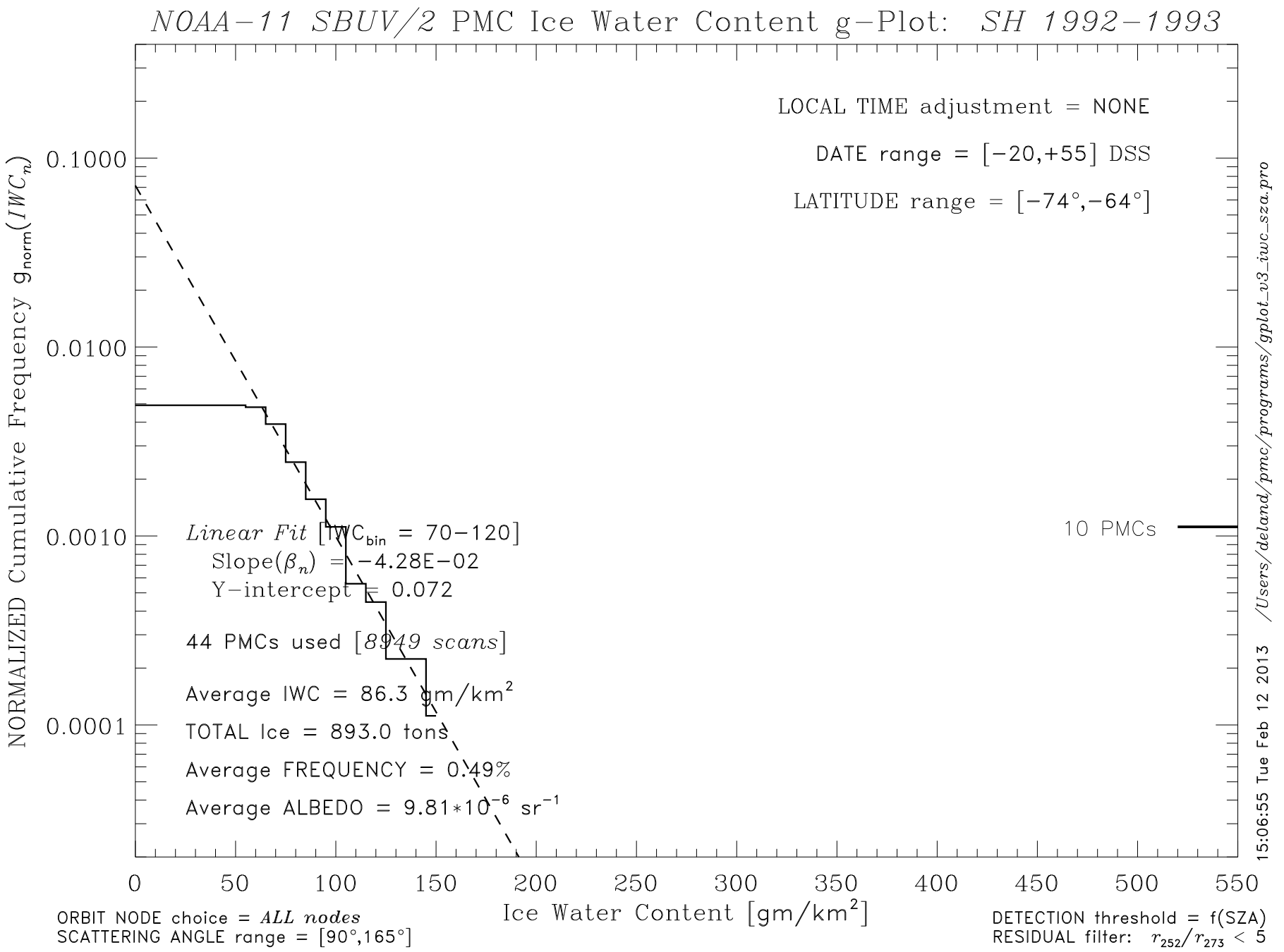

NOAA-9 SBUV/2 PMC Ice Water Content g-Plot: SH 1996-1997
LOCAL TIME adjustment = NONE
DATE range = [-20,+55] DSS
LATITUDE range = [-74°,-64°]
NORMALIZED Cumulative Frequency $g_{norm}(IWC_n)$
0.1000
0.0100
0.0010
0.0001
10 PMCs
Linear Fit [IWC_{bin} = 60-300]
Slope(β_n) = -1.92E-02
Y-intercept = 0.160
402 PMCs used [8084 scans]
Average IWC = 114.0 gm/km^2
TOTAL Ice = 1026.0 tons
Average FREQUENCY = 4.97%
Average ALBEDO = 11.92*10^{-6} sr^{-1}
0
50
100
150
200
250
300
350
400
450
500
550
Ice Water Content [gm/km^2]
15:06:38 Tue Feb 12 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 1988−1989
LOCAL TIME adjustment = NONE
DATE range = [−20,+55] DSS
LATITUDE range = [−74°,−64°]
10 PMCs
Linear Fit [IWC$_{bin}$ = 60−220]
Slope(β_n) = −2.59E−02
Y−intercept = 0.111
207 PMCs used [7828 scans]
Average IWC = 96.5 gm/km^2
TOTAL Ice = 977.2 tons
Average FREQUENCY = 2.64%
Average ALBEDO = 10.44*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: $r_{252}/r_{273} < 5$
15:06:53 Tue Feb 12 2013 /Users/deland/pmc/programs/gplot_v3_iwc_sza.pro

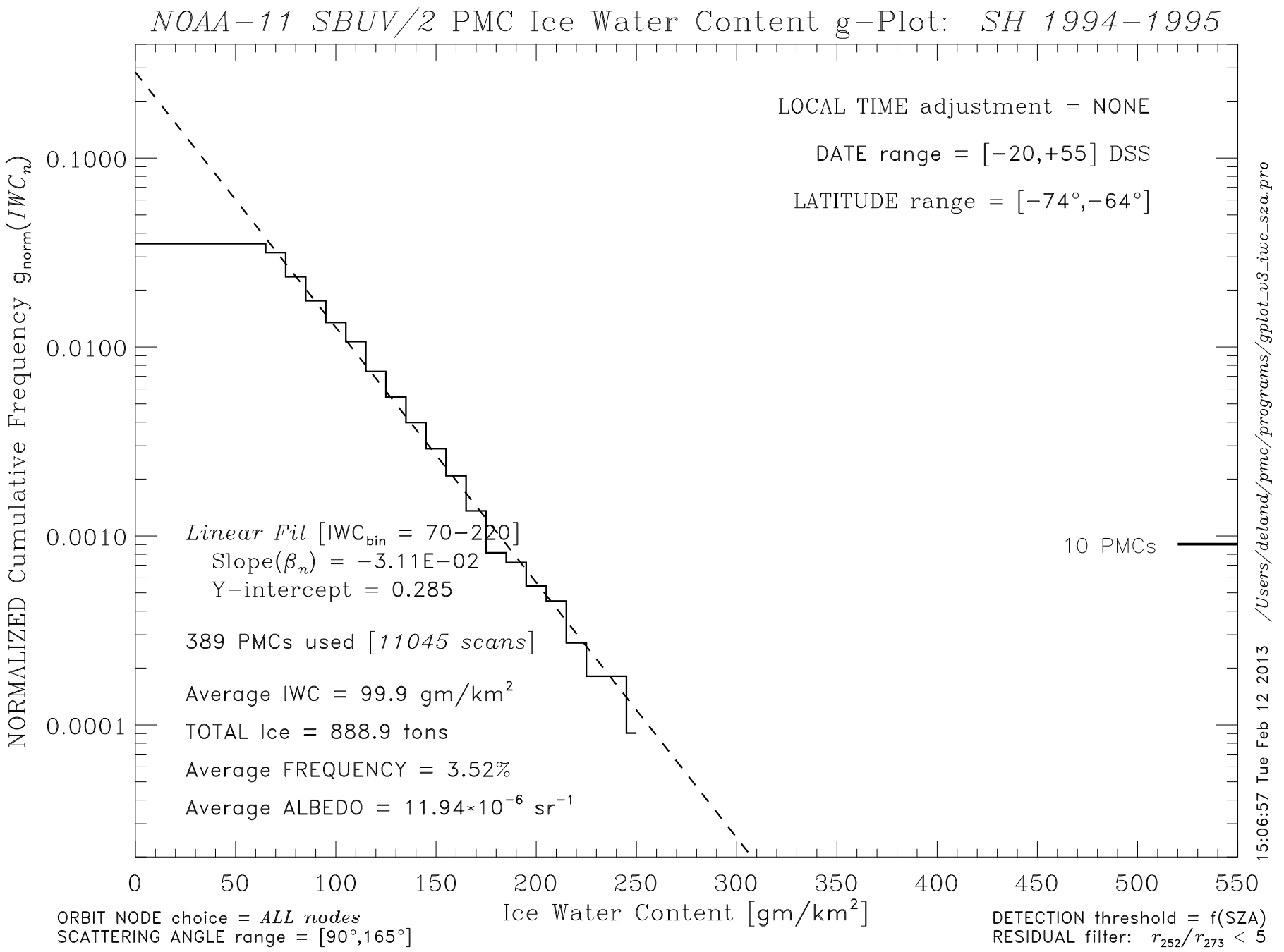

NOAA−11 SBUV/2 PMC Ice Water Content g−Plot: SH 1989−1990
LOCAL TIME adjustment = NONE
DATE range = [−20,+55] DSS
LATITUDE range = [−74°,−64°]
NORMALIZED Cumulative Frequency $g_{norm}(IWC_n)$
0.1000
0.0100
0.0010
0.0001
Linear Fit [IWC$_{bin}$ = 60−160]
Slope(β_n) = −3.34E−02
Y−intercept = 0.162
188 PMCs used [7979 scans]
Average IWC = 88.4 gm/km^2
TOTAL Ice = 967.2 tons
Average FREQUENCY = 2.36%
Average ALBEDO = 9.69∗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: $r_{252}/r_{273} < 5$
15:06:54 Tue Feb 12 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 = NONE
DATE range = [−20,+55] DSS
LATITUDE range = [−74°,−64°]
NORMALIZED Cumulative Frequency $g_{norm}(IWC_n)$
0.1000
0.0100
0.0010
0.0001
Linear Fit [IWC_{bin} = 70−140]
Slope(β_n) = −3.69E−02
Y−intercept = 0.089
62 PMCs used [7449 scans]
Average IWC = 91.5 gm/km^2
TOTAL Ice = 906.4 tons
Average FREQUENCY = 0.83%
Average ALBEDO = 10.74*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: $r_{252}/r_{273} < 5$
15:06:54 Tue Feb 12 2013 /Users/deland/pmc/programs/gplot_v3_iwc_sza.pro

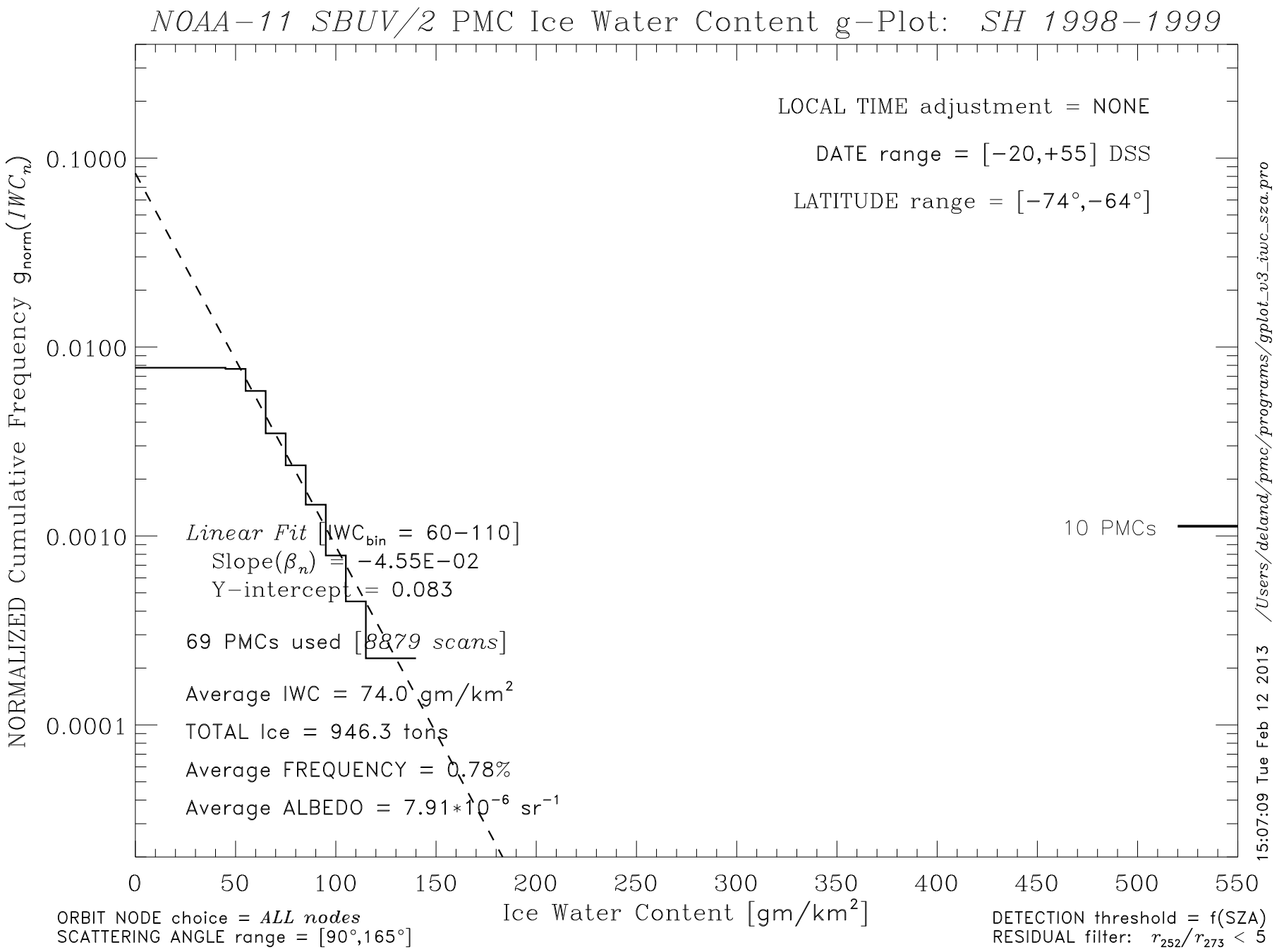

NOAA−11 SBUV/2 PMC Ice Water Content g−Plot: SH 1991−1992
LOCAL TIME adjustment = NONE
DATE range = [−20,+55] DSS
LATITUDE range = [−74°,−64°]
NORMALIZED Cumulative Frequency $g_{norm}(IWC_n)$
0.1000
0.0100
0.0010
0.0001
10 PMCs
Linear Fit [IWC_{bin} = 70−150]
Slope(β_n) = −3.93E−02
Y−intercept = 0.180
116 PMCs used [7870 scans]
Average IWC = 89.4 gm/km^2
TOTAL Ice = 910.3 tons
Average FREQUENCY = 1.47%
Average ALBEDO = 10.39∗10^{-6} sr^{-1}
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: $r_{252}/r_{273} < 5$
15:06:55 Tue Feb 12 2013 /Users/deland/pmc/programs/gplot_v3_iwc_sza.pro

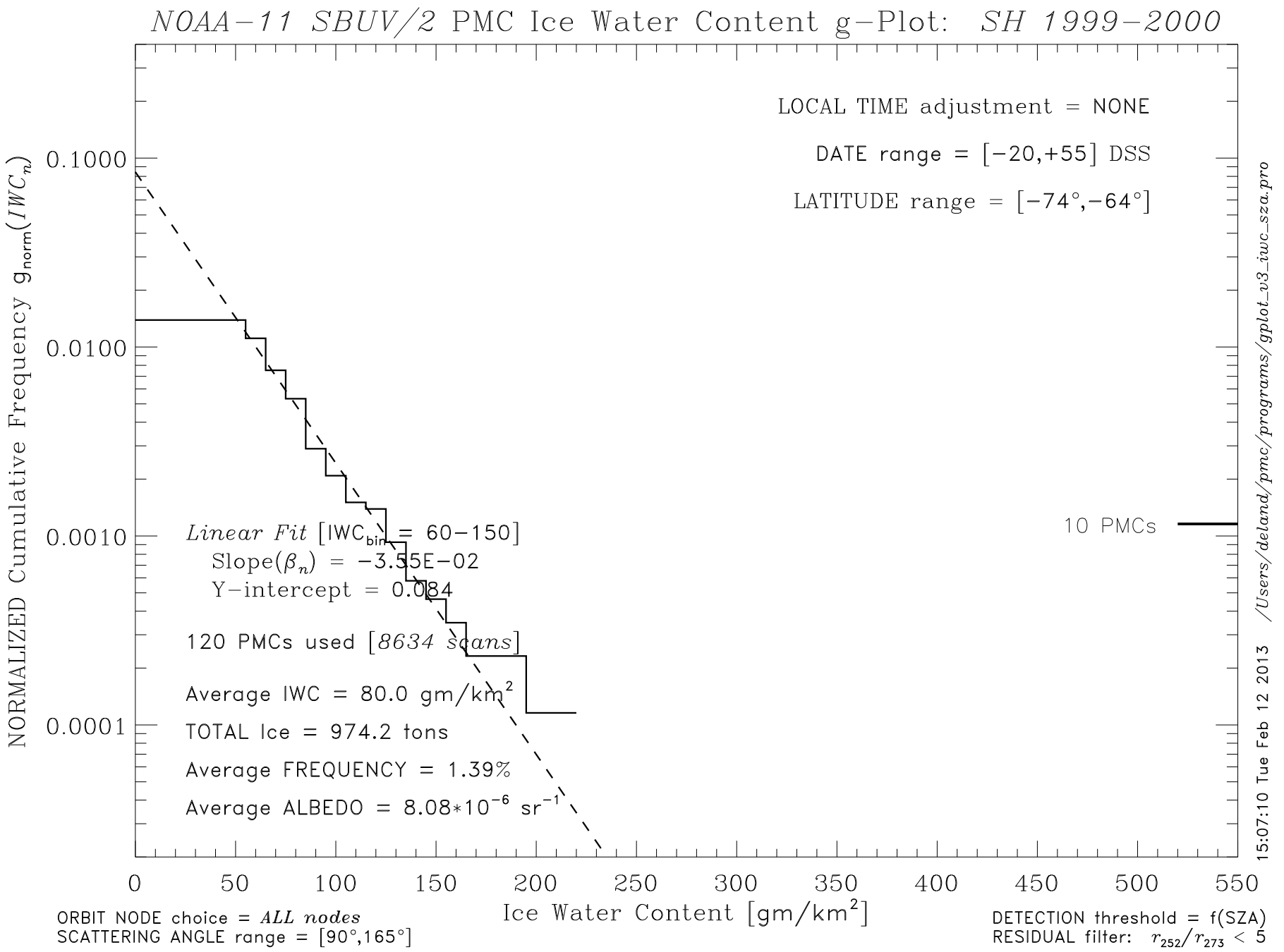

NOAA−11 SBUV/2 PMC Ice Water Content g−Plot: SH 1992−1993
LOCAL TIME adjustment = NONE
DATE range = [−20,+55] DSS
LATITUDE range = [−74°,−64°]
NORMALIZED Cumulative Frequency $g_{norm}(IWC_n)$
0.1000
0.0100
0.0010
0.0001
Linear Fit [IWC_{bin} = 70−120]
Slope(β_n) = −4.28E−02
Y−intercept = 0.072
44 PMCs used [8949 scans]
Average IWC = 86.3 gm/km^2
TOTAL Ice = 893.0 tons
Average FREQUENCY = 0.49%
Average ALBEDO = 9.81∗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: $r_{252}/r_{273} < 5$
15:06:55 Tue Feb 12 2013 /Users/deland/pmc/programs/gplot_v3_iwc_sza.pro

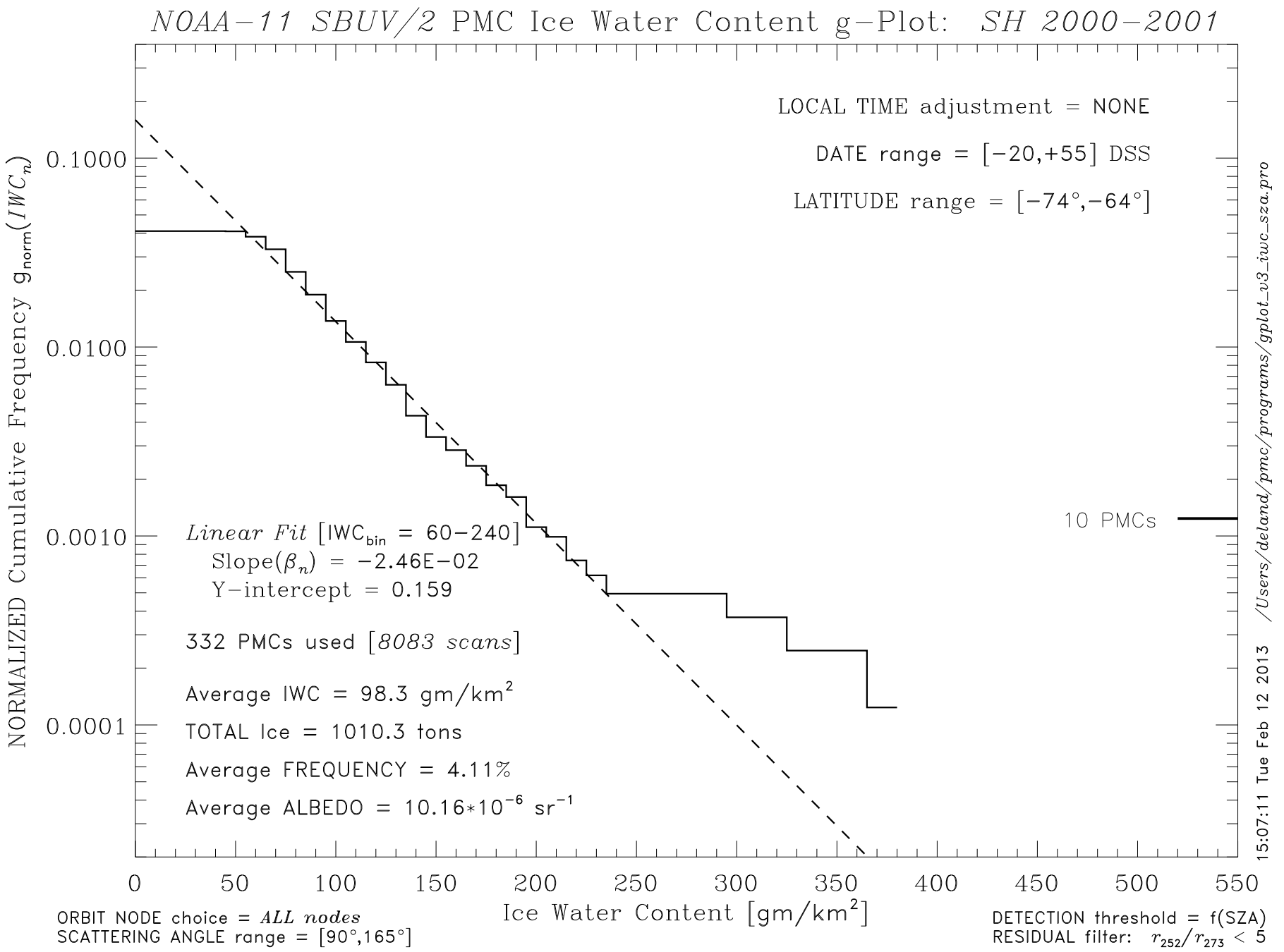
NOAA−11 SBUV/2 PMC Ice Water Content g−Plot: SH 1993−1994
LOCAL TIME adjustment = NONE
DATE range = [−20,+55] DSS
LATITUDE range = [−74°,−64°]
10 PMCs
Linear Fit [IWC$_{bin}$ = 50÷190]
Slope(β_n) = −3.44E−02
Y−intercept = 0.263
394 PMCs used [10430 scans]
Average IWC = 90.2 gm/km^2
TOTAL Ice = 908.3 tons
Average FREQUENCY = 3.78%
Average ALBEDO = 10.73*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: $r_{252}/r_{273} < 5$
15:06:56 Tue Feb 12 2013 /Users/deland/pmc/programs/gplot_v3_iwc_sza.pro

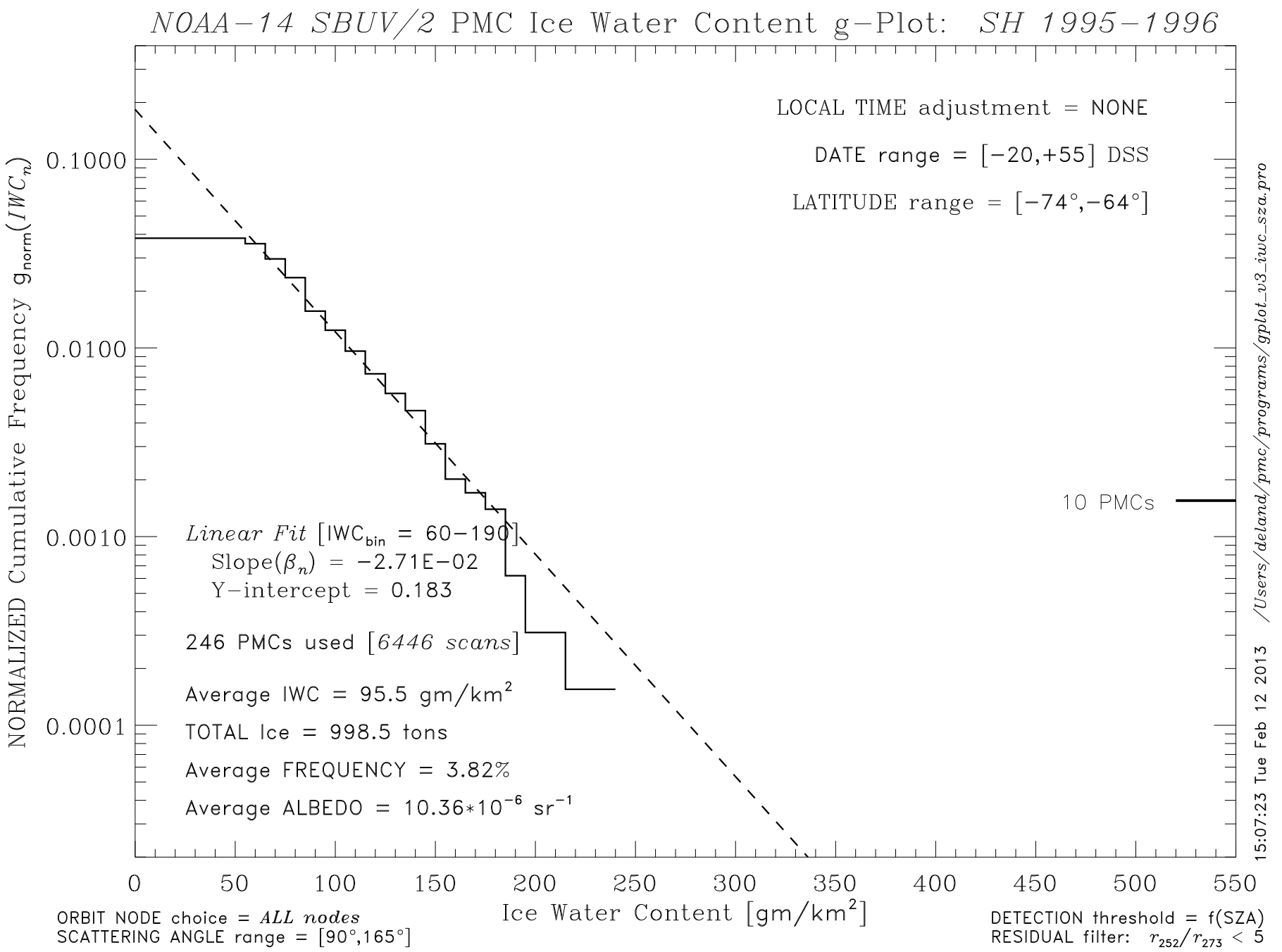

NOAA-11 SBUV/2 PMC Ice Water Content g-Plot: SH 1994-1995
LOCAL TIME adjustment = NONE
DATE range = [-20,+55] DSS
LATITUDE range = [-74°,-64°]
NORMALIZED Cumulative Frequency $g_{norm}(IWC_n)$
0.1000
0.0100
0.0010
0.0001
Linear Fit [IWC_{bin} = 70-220]
Slope(β_n) = -3.11E-02
Y-intercept = 0.285
389 PMCs used [11045 scans]
Average IWC = 99.9 gm/km^2
TOTAL Ice = 888.9 tons
Average FREQUENCY = 3.52%
Average ALBEDO = 11.94*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: $r_{252}/r_{273} < 5$
15:06:57 Tue Feb 12 2013 /Users/deland/pmc/programs/gplot_v3_iwc_sza.pro

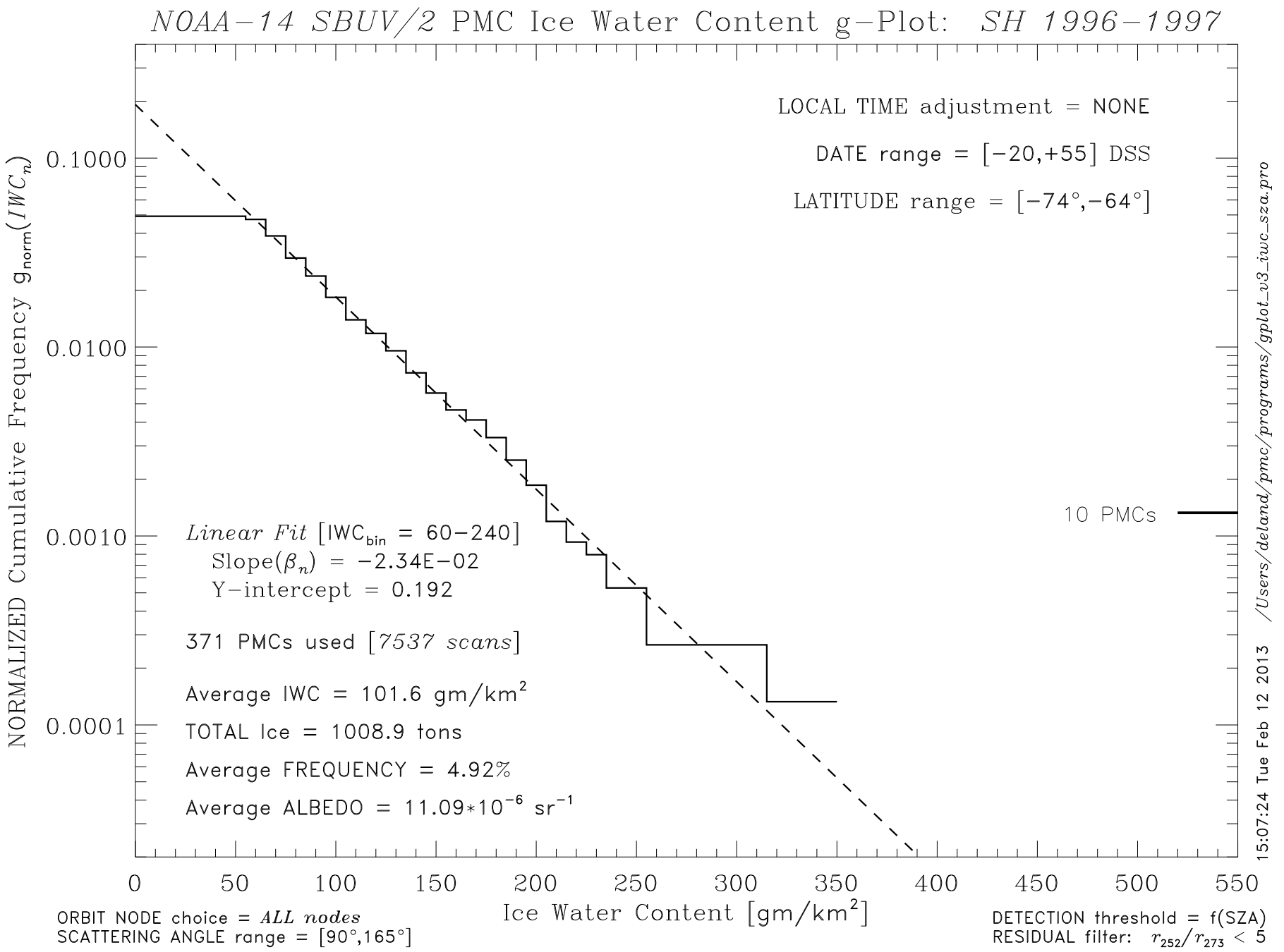
NOAA−11 SBUV/2 PMC Ice Water Content g−Plot: SH 1997−1998
LOCAL TIME adjustment = NONE
DATE range = [−20,+55] DSS
LATITUDE range = [−74°,−64°]
Linear Fit [IWC$_{bin}$ = 50−250]
Slope(β_n) = −2.55E−02
Y−intercept = 0.125
378 PMCs used [10589 scans]
Average IWC = 92.0 gm/km^2
TOTAL Ice = 948.3 tons
Average FREQUENCY = 3.57%
Average ALBEDO = 10.08*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
15:07:09 Tue Feb 12 2013 /Users/deland/pmc/programs/gplot_v3_iwc_sza.pro

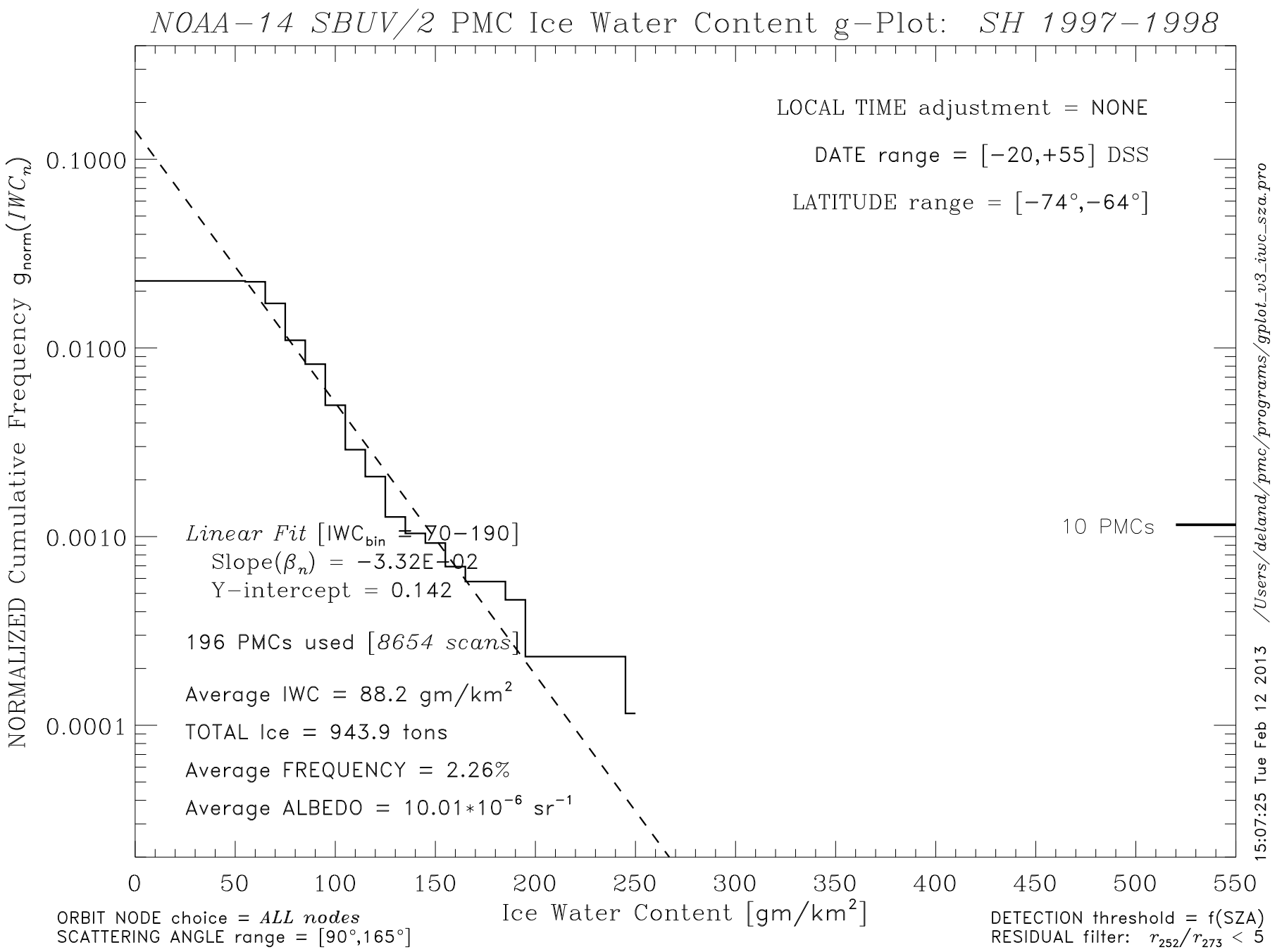

NOAA−11 SBUV/2 PMC Ice Water Content g−Plot: SH 1998−1999
LOCAL TIME adjustment = NONE
DATE range = [−20,+55] DSS
LATITUDE range = [−74°,−64°]
NORMALIZED Cumulative Frequency $g_{norm}(IWC_n)$
0.1000
0.0100
0.0010
0.0001
Linear Fit [IWC$_{bin}$ = 60−110]
Slope(β_n) = −4.55E−02
Y−intercept = 0.083
69 PMCs used [8879 scans]
Average IWC = 74.0 gm/km^2
TOTAL Ice = 946.3 tons
Average FREQUENCY = 0.78%
Average ALBEDO = 7.91∗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: $r_{252}/r_{273} < 5$
15:07:09 Tue Feb 12 2013 /Users/deland/pmc/programs/gplot_v3_iwc_sza.pro

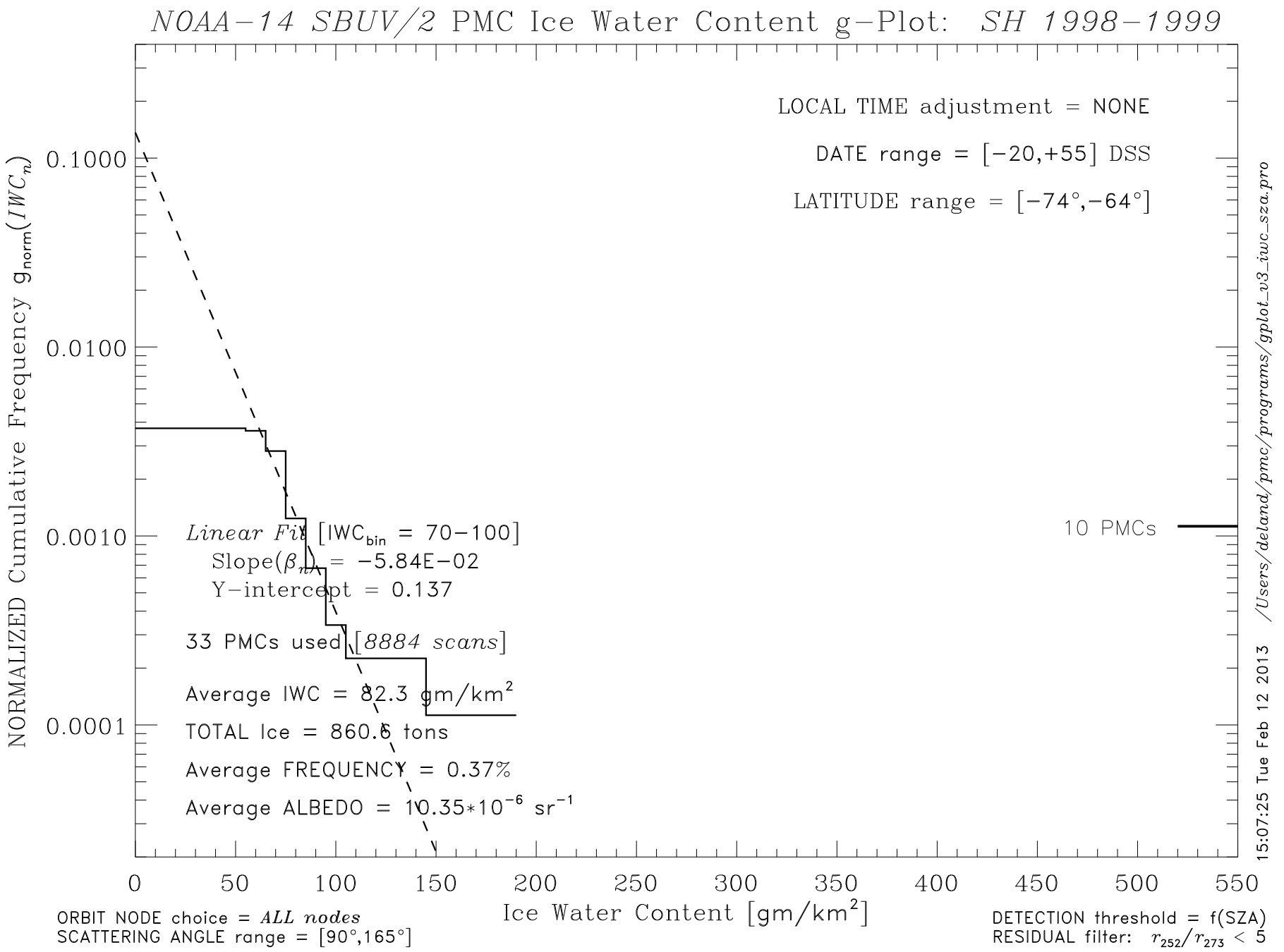

NOAA−11 SBUV/2 PMC Ice Water Content g−Plot: SH 1999−2000
LOCAL TIME adjustment = NONE
DATE range = [−20,+55] DSS
LATITUDE range = [−74°,−64°]
NORMALIZED Cumulative Frequency $g_{norm}(IWC_n)$
0.1000
0.0100
0.0010
0.0001
Linear Fit [IWC_{bin} = 60−150]
Slope(β_n) = −3.55E−02
Y−intercept = 0.084
120 PMCs used [8634 scans]
Average IWC = 80.0 gm/km^2
TOTAL Ice = 974.2 tons
Average FREQUENCY = 1.39%
Average ALBEDO = 8.08∗10^{-6} sr^{-1}
10 PMCs
0
50
100
150
200
250
300
350
400
450
500
550
Ice Water Content [gm/km^2]
ORBIT NODE choice = ALL nodes
SCATTERING ANGLE range = [90°,165°]
DETECTION threshold = f(SZA)
RESIDUAL filter: $r_{252}/r_{273} < 5$
15:07:10 Tue Feb 12 2013 /Users/deland/pmc/programs/gplot_v3_iwc_sza.pro


NOAA−11 SBUV/2 PMC Ice Water Content g−Plot: SH 2000−2001
LOCAL TIME adjustment = NONE
DATE range = [−20,+55] DSS
LATITUDE range = [−74°,−64°]
NORMALIZED Cumulative Frequency $g_{norm}(IWC_n)$
0.1000
0.0100
0.0010
0.0001
10 PMCs
Linear Fit [IWC_{bin} = 60−240]
Slope(β_n) = −2.46E−02
Y−intercept = 0.159
332 PMCs used [8083 scans]
Average IWC = 98.3 gm/km^2
TOTAL Ice = 1010.3 tons
Average FREQUENCY = 4.11%
Average ALBEDO = 10.16∗10^{-6} sr^{-1}
0
50
100
150
200
250
300
350
400
450
500
550
Ice Water Content [gm/km^2]
15:07:11 Tue Feb 12 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: $r_{252}/r_{273} < 5$

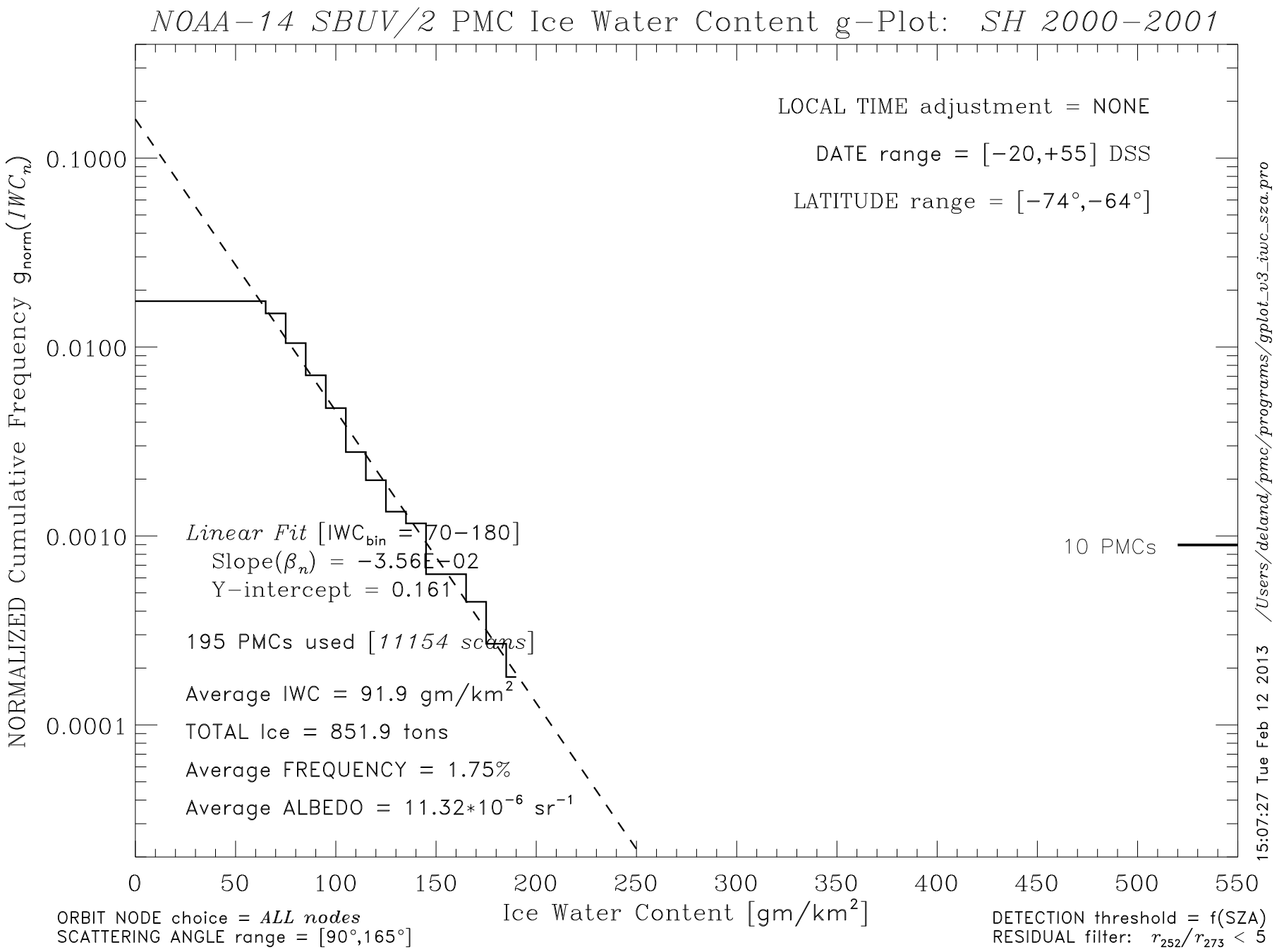

NOAA−14 SBUV/2 PMC Ice Water Content g−Plot: SH 1995−1996
LOCAL TIME adjustment = NONE
DATE range = [−20,+55] DSS
LATITUDE range = [−74°,−64°]
10 PMCs
Linear Fit [IWC_bin = 60−190]
Slope(β_n) = −2.71E−02
Y−intercept = 0.183
246 PMCs used [6446 scans]
Average IWC = 95.5 gm/km²
TOTAL Ice = 998.5 tons
Average FREQUENCY = 3.82%
Average ALBEDO = 10.36*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: r_252/r_273 < 5
15:07:23 Tue Feb 12 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 = NONE
DATE range = [−20,+55] DSS
LATITUDE range = [−74°,−64°]
NORMALIZED Cumulative Frequency $g_{norm}(IWC_n)$
0.1000
0.0100
0.0010
0.0001
10 PMCs
Linear Fit [IWC_{bin} = 60−240]
Slope(β_n) = −2.34E−02
Y−intercept = 0.192
371 PMCs used [7537 scans]
Average IWC = 101.6 gm/km^2
TOTAL Ice = 1008.9 tons
Average FREQUENCY = 4.92%
Average ALBEDO = 11.09∗10^{-6} sr^{-1}
0
50
100
150
200
250
300
350
400
450
500
550
Ice Water Content [gm/km^2]
15:07:24 Tue Feb 12 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−14 SBUV/2 PMC Ice Water Content g−Plot: SH 1997−1998
LOCAL TIME adjustment = NONE
DATE range = [−20,+55] DSS
LATITUDE range = [−74°,−64°]
NORMALIZED Cumulative Frequency $g_{norm}(IWC_n)$
0.1000
0.0100
0.0010
0.0001
Linear Fit [IWC_{bin} = 70−190]
Slope(β_n) = −3.32E−02
Y−intercept = 0.142
196 PMCs used [8654 scans]
Average IWC = 88.2 gm/km^2
TOTAL Ice = 943.9 tons
Average FREQUENCY = 2.26%
Average ALBEDO = 10.01∗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
15:07:25 Tue Feb 12 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 = NONE
DATE range = [−20,+55] DSS
LATITUDE range = [−74°,−64°]
NORMALIZED Cumulative Frequency $g_{norm}(IWC_n)$
0.1000
0.0100
0.0010
0.0001
Linear Fit [IWC_{bin} = 70−100]
Slope(β_m) = −5.84E−02
Y−intercept = 0.137
33 PMCs used [8884 scans]
Average IWC = 82.3 gm/km^2
TOTAL Ice = 860.6 tons
Average FREQUENCY = 0.37%
Average ALBEDO = 10.35∗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: $r_{252}/r_{273} < 5$
15:07:25 Tue Feb 12 2013 /Users/deland/pmc/programs/gplot_v3_iwc_sza.pro

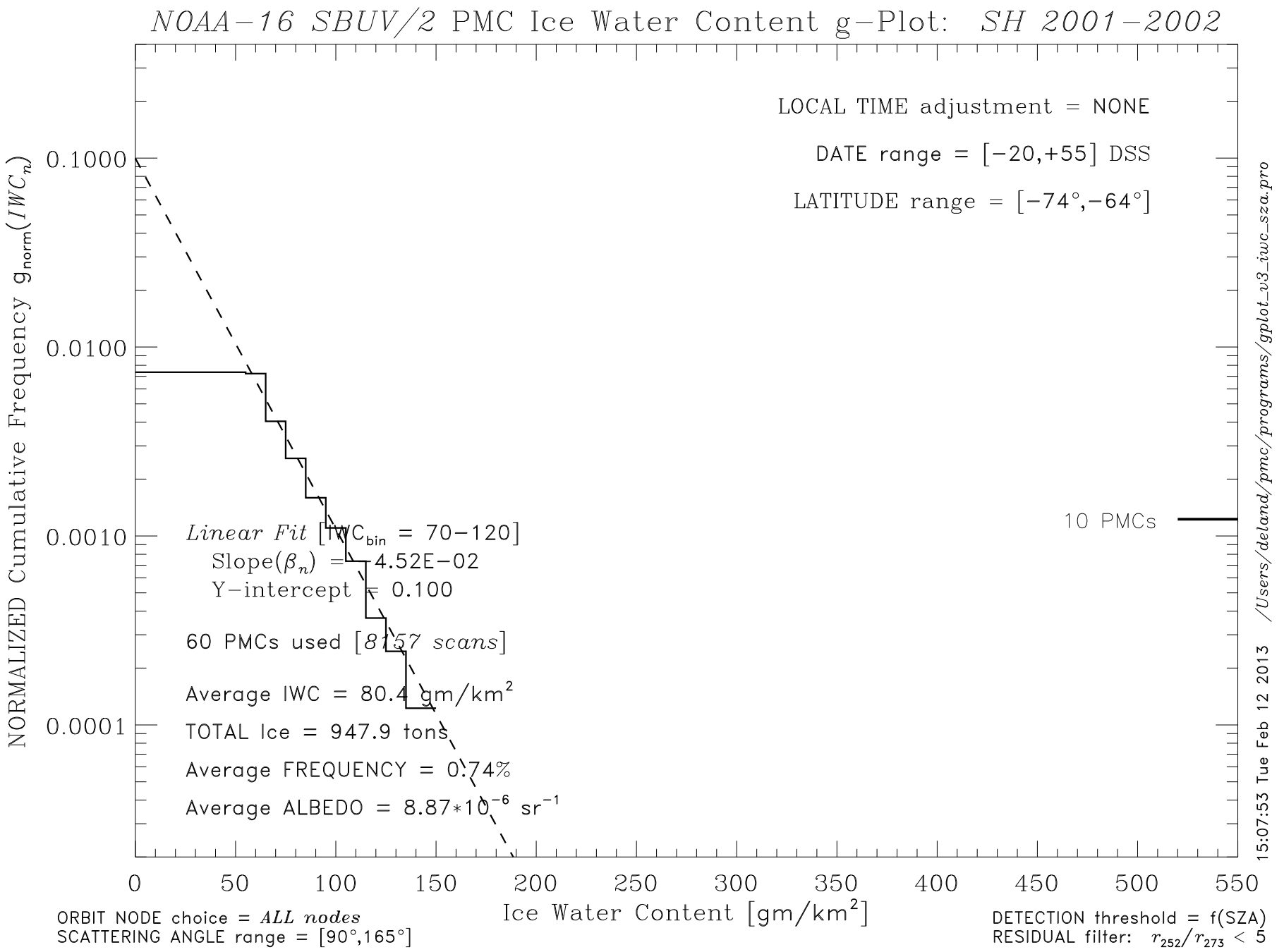
NOAA−14 SBUV/2 PMC Ice Water Content g−Plot: SH 1999−2000
LOCAL TIME adjustment = NONE
DATE range = [−20,+55] DSS
LATITUDE range = [−74°,−64°]
10 PMCs
Linear Fit [IWCbin = 70−100]
Slope(β1) = −6.83E−02
Y−intercept = 0.250
37 PMCs used [10051 scans]
Average IWC = 77.8 gm/km2
TOTAL Ice = 883.0 tons
Average FREQUENCY = 0.37%
Average ALBEDO = 8.99*10−6 sr−1
NORMALIZED Cumulative Frequency gnorm(IWCm)
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
15:07:26 Tue Feb 12 2013 /Users/deland/pmc/programs/gplot_v3_iwc_sza.pro

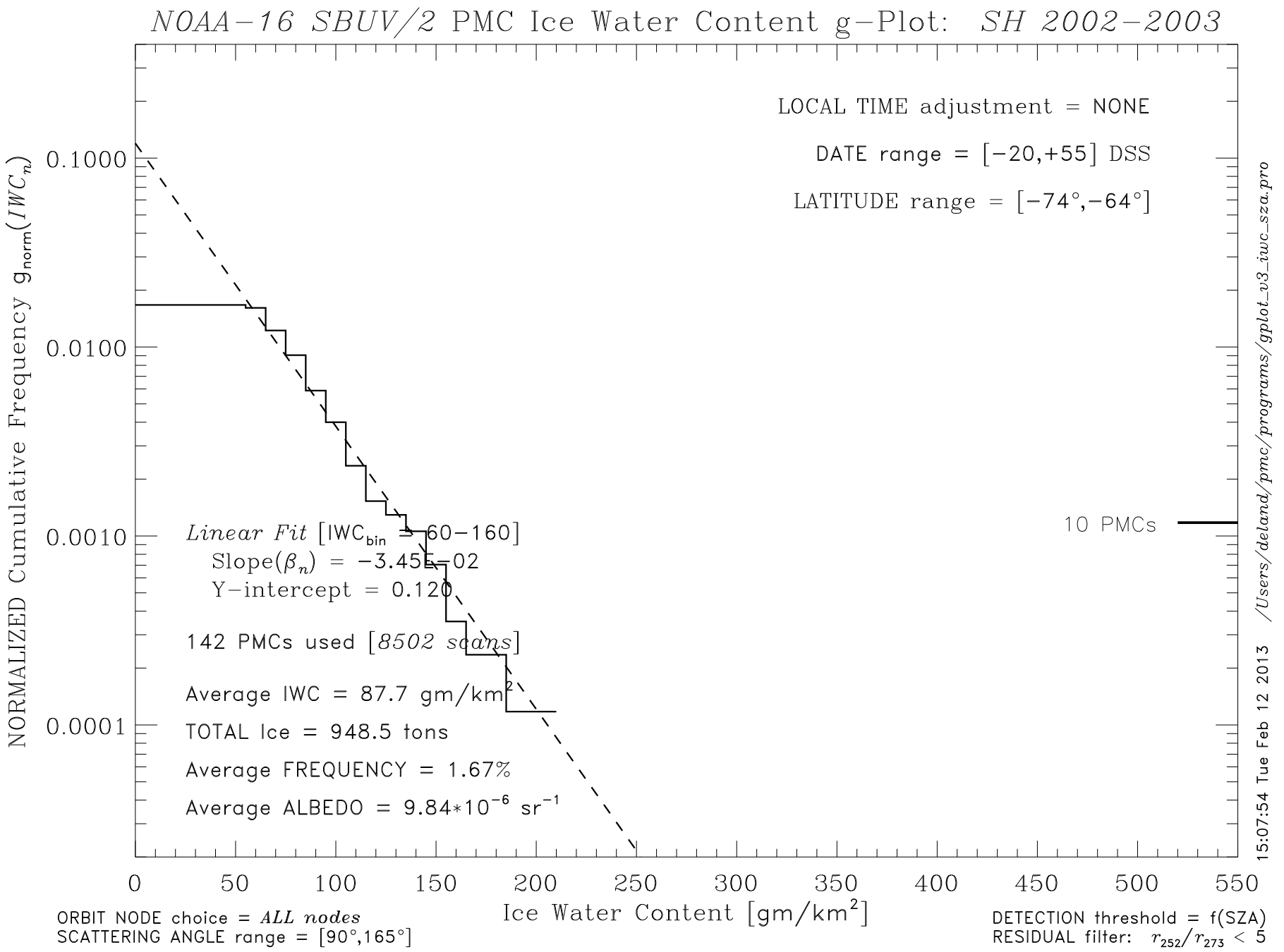

NOAA−14 SBUV/2 PMC Ice Water Content g−Plot: SH 2000−2001
LOCAL TIME adjustment = NONE
DATE range = [−20,+55] DSS
LATITUDE range = [−74°,−64°]
NORMALIZED Cumulative Frequency $g_{norm}(IWC_n)$
0.1000
0.0100
0.0010
0.0001
Linear Fit [IWC_bin = 70−180]
Slope(β_n) = −3.56E−02
Y−intercept = 0.161
195 PMCs used [11154 scans]
Average IWC = 91.9 gm/km^2
TOTAL Ice = 851.9 tons
Average FREQUENCY = 1.75%
Average ALBEDO = 11.32*10^{-6} sr^{-1}
10 PMCs
0
50
100
150
200
250
300
350
400
450
500
550
Ice Water Content [gm/km^2]
ORBIT NODE choice = ALL nodes
SCATTERING ANGLE range = [90°,165°]
DETECTION threshold = f(SZA)
RESIDUAL filter: $r_{252}/r_{273} < 5$
15:07:27 Tue Feb 12 2013 /Users/deland/pmc/programs/gplot_v3_iwc_sza.pro

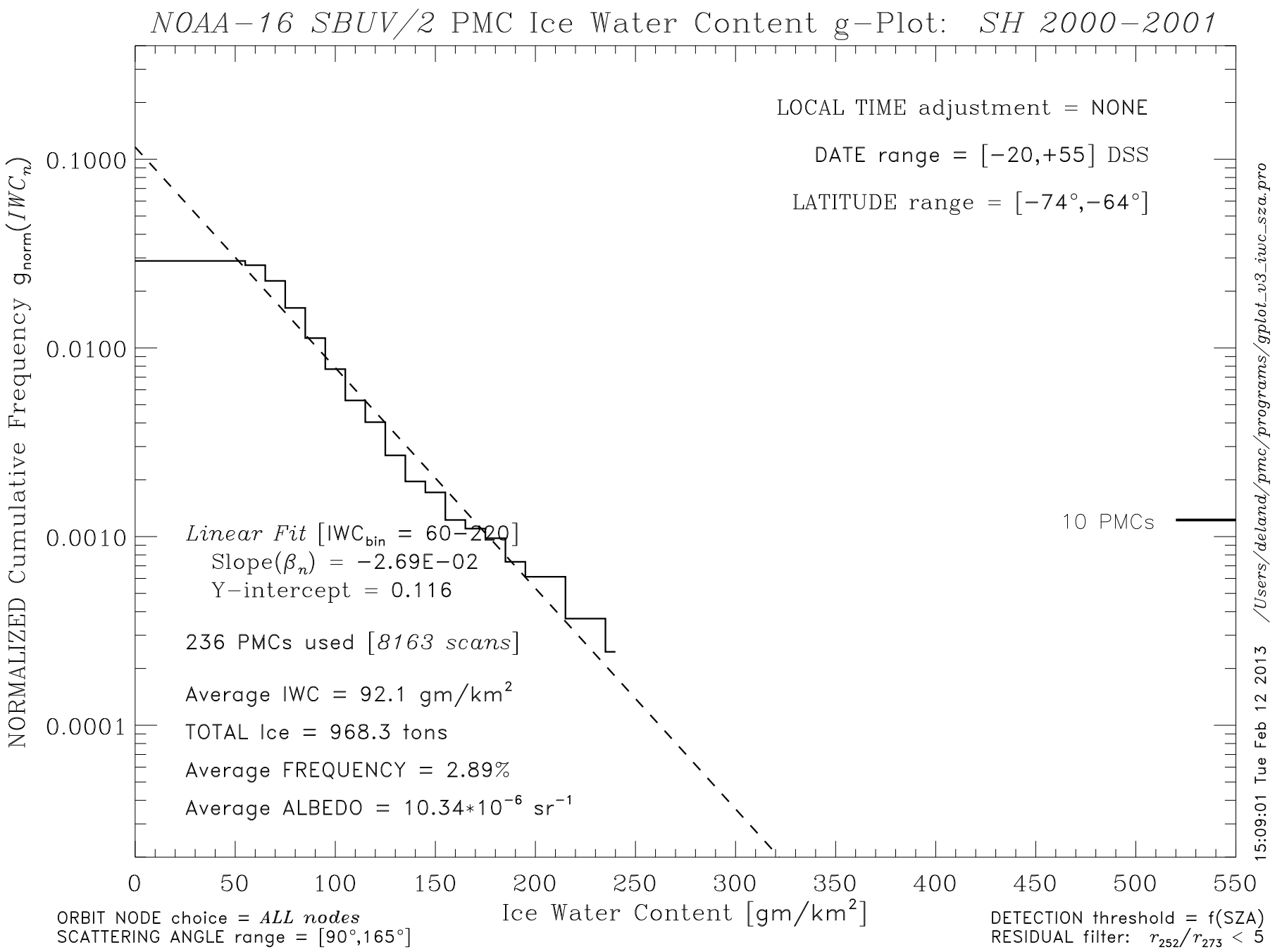
NOAA−14 SBUV/2 PMC Ice Water Content g−Plot: SH 2003−2004
LOCAL TIME adjustment = NONE
DATE range = [−20,+55] DSS
LATITUDE range = [−74°,−64°]
10 PMCs
Linear Fit [IWC_bin = 70−180]
Slope(β_n) = −3.29E−02
Y−intercept = 0.105
131 PMCs used [10686 scans]
Average IWC = 98.0 gm/km²
TOTAL Ice = 891.9 tons
Average FREQUENCY = 1.23%
Average ALBEDO = 10.88*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
15:07:40 Tue Feb 12 2013 /Users/deland/pmc/programs/gplot_v3_iwc_sza.pro

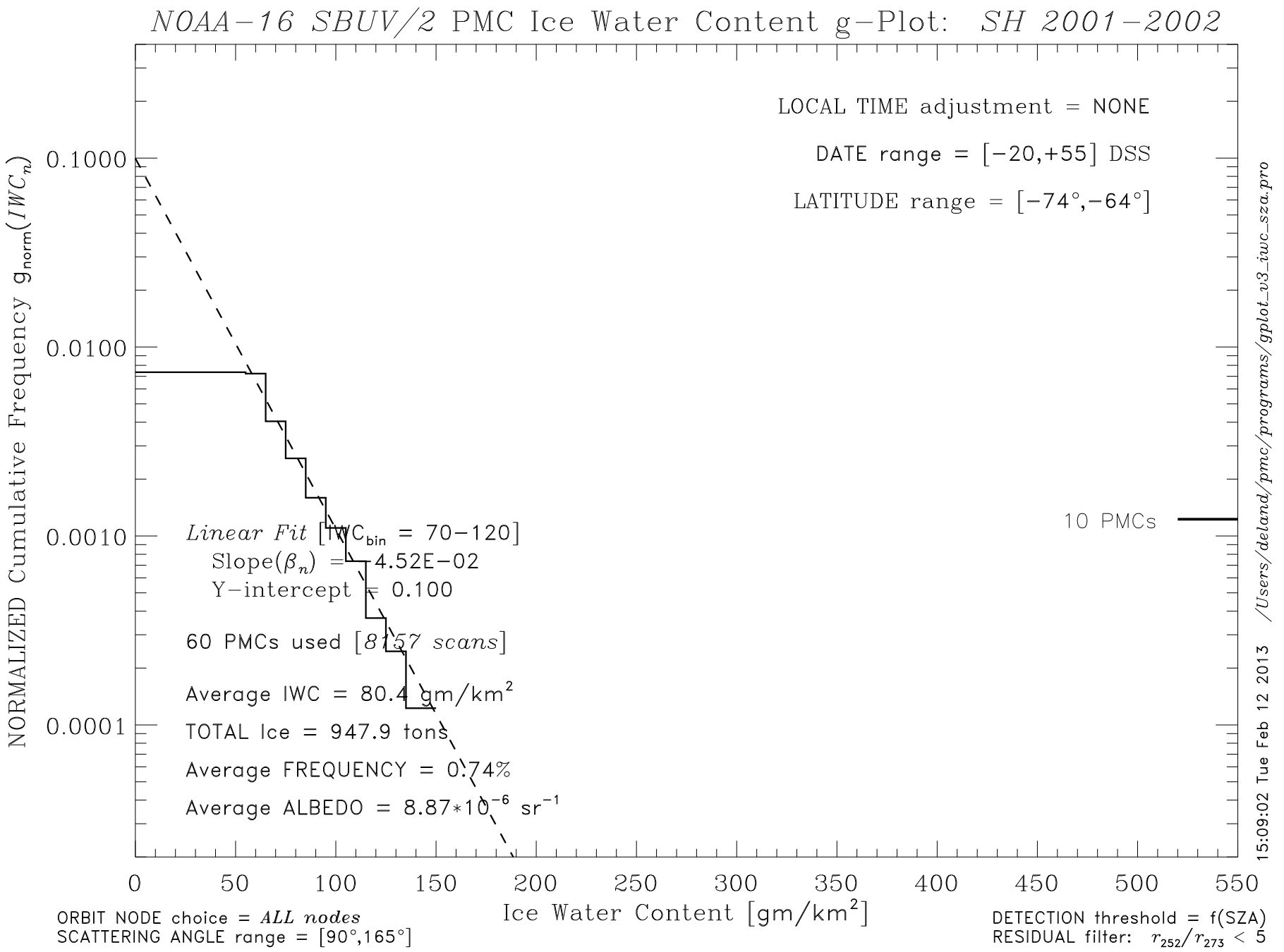
NOAA−14 SBUV/2 PMC Ice Water Content g−Plot: SH 2004−2005
LOCAL TIME adjustment = NONE
DATE range = [−20,+55] DSS
LATITUDE range = [−74°,−64°]
10 PMCs
Linear Fit [IWC$_{bin}$ = 60−240]
Slope(β_n) = −2.39E−02
Y−intercept = 0.101
242 PMCs used [9092 scans]
Average IWC = 101.0 gm/km^2
TOTAL Ice = 913.8 tons
Average FREQUENCY = 2.66%
Average ALBEDO = 11.41*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: $r_{252}/r_{273} < 5$
15:07:40 Tue Feb 12 2013 /Users/deland/pmc/programs/gplot_v3_iwc_sza.pro

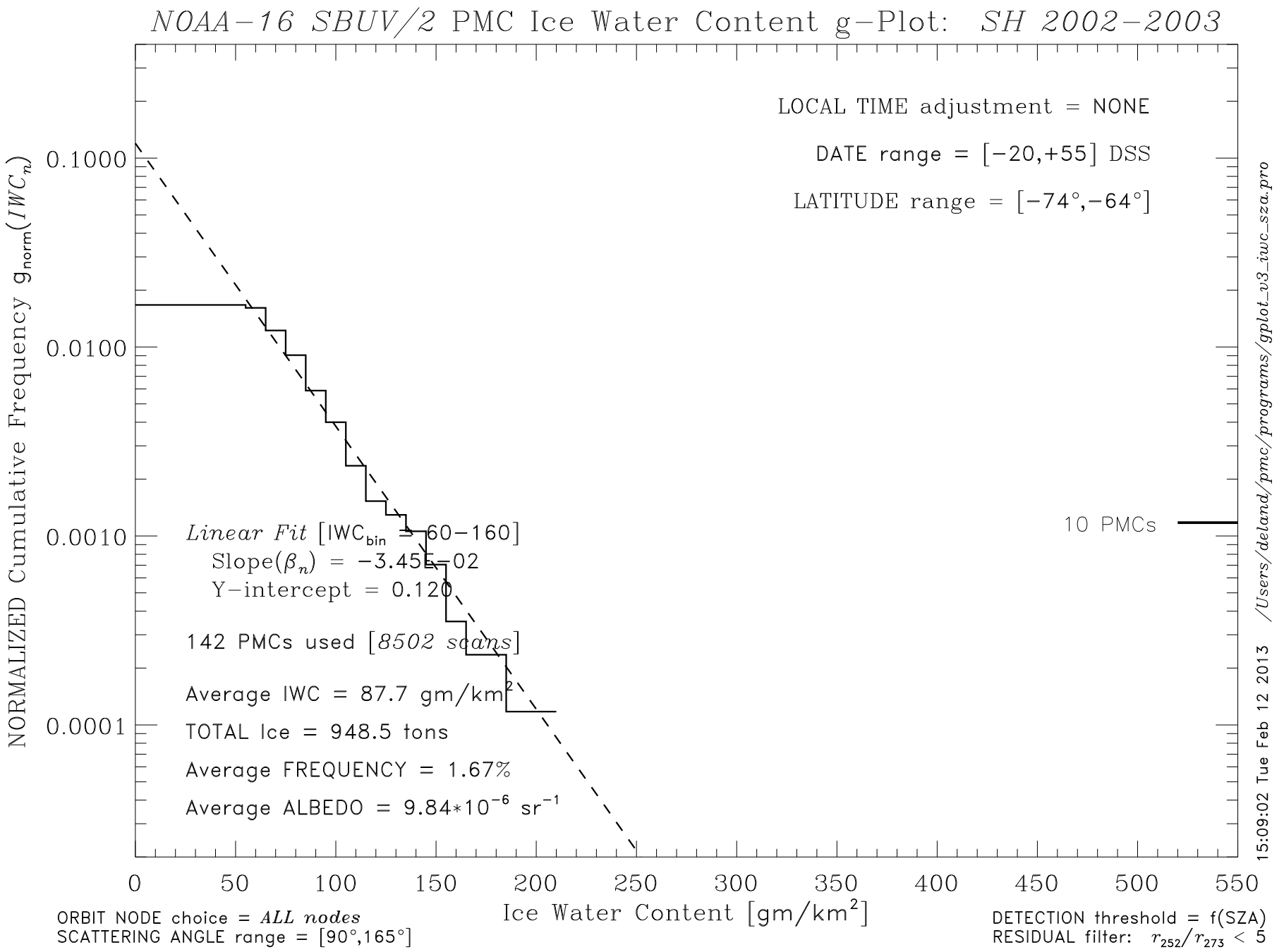
NOAA-14 SBUV/2 PMC Ice Water Content g-Plot: SH 2005-2006
LOCAL TIME adjustment = NONE
DATE range = [-20,+55] DSS
LATITUDE range = [-74°,-64°]
10 PMCs
Linear Fit [IWC_bin = 70-190]
Slope(β_n) = -2.84E-02
Y-intercept = 0.133
157 PMCs used [7347 scans]
Average IWC = 100.2 gm/km²
TOTAL Ice = 936.4 tons
Average FREQUENCY = 2.14%
Average ALBEDO = 11.07*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
15:07:41 Tue Feb 12 2013 /Users/deland/pmc/programs/gplot_v3_iwc_sza.pro

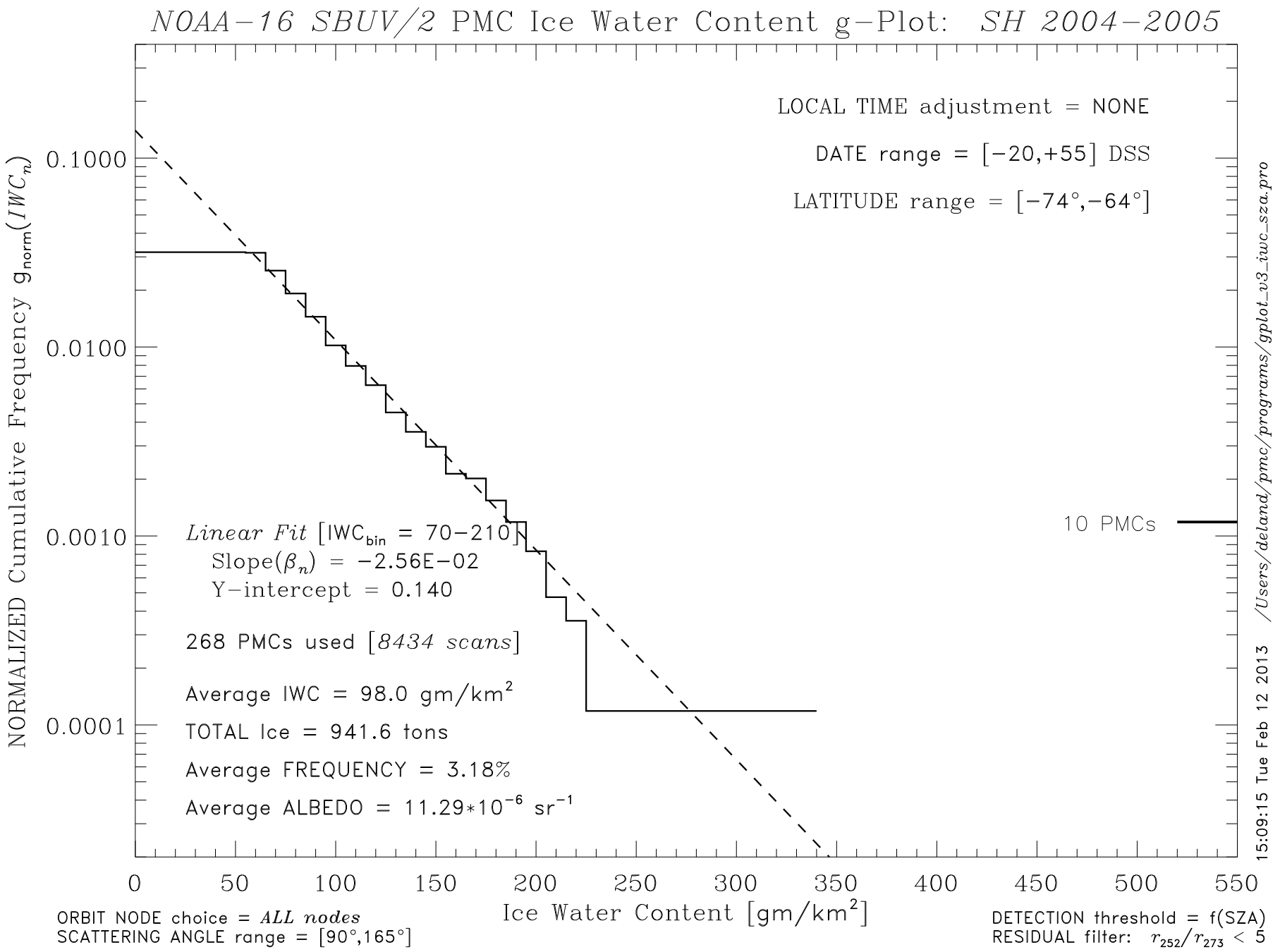

NOAA−16 SBUV/2 PMC Ice Water Content g−Plot: SH 2001−2002
LOCAL TIME adjustment = NONE
DATE range = [−20,+55] DSS
LATITUDE range = [−74°,−64°]
NORMALIZED Cumulative Frequency $g_{norm}(IWC_n)$
0.1000
0.0100
0.0010
0.0001
Linear Fit [IWC_{bin} = 70−120]
Slope(β_n) = 4.52E−02
Y−intercept = 0.100
60 PMCs used [8157 scans]
Average IWC = 80.4 gm/km^2
TOTAL Ice = 947.9 tons
Average FREQUENCY = 0.74%
Average ALBEDO = 8.87∗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: $r_{252}/r_{273} < 5$
15:07:53 Tue Feb 12 2013 /Users/deland/pmc/programs/gplot_v3_iwc_sza.pro

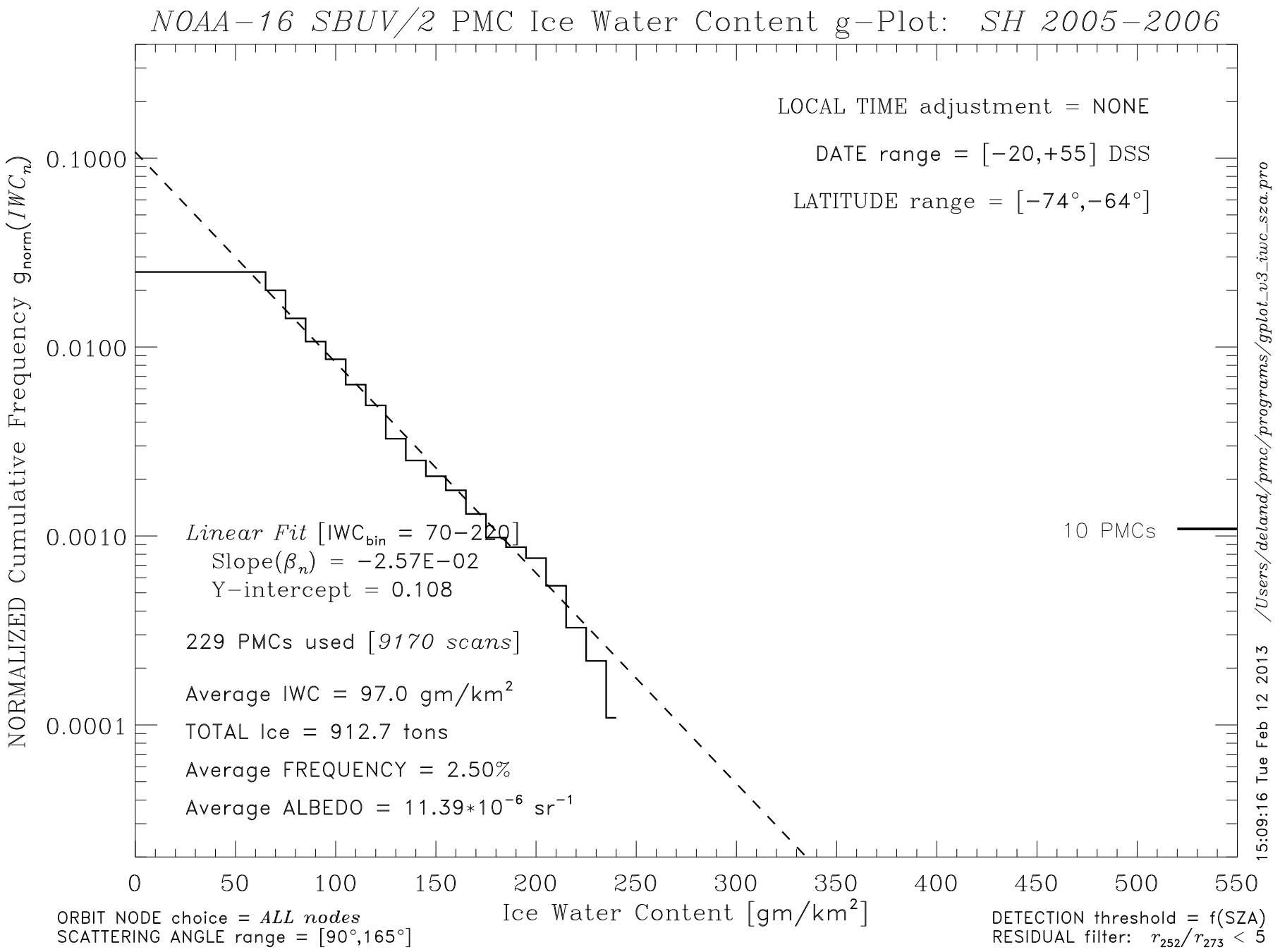

NOAA−16 SBUV/2 PMC Ice Water Content g−Plot: SH 2002−2003
LOCAL TIME adjustment = NONE
DATE range = [−20,+55] DSS
LATITUDE range = [−74°,−64°]
NORMALIZED Cumulative Frequency $g_{norm}(IWC_n)$
0.1000
0.0100
0.0010
0.0001
Linear Fit [IWC$_{bin}$ = 60−160]
Slope(β_n) = −3.45E−02
Y−intercept = 0.120
142 PMCs used [8502 scans]
Average IWC = 87.7 gm/km^2
TOTAL Ice = 948.5 tons
Average FREQUENCY = 1.67%
Average ALBEDO = 9.84∗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: $r_{252}/r_{273} < 5$
15:07:54 Tue Feb 12 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 = NONE
DATE range = [−20,+55] DSS
LATITUDE range = [−74°,−64°]
NORMALIZED Cumulative Frequency $g_{norm}(IWC_n)$
0.1000
0.0100
0.0010
0.0001
Linear Fit [IWC_{bin} = 60−220]
Slope(β_n) = −2.69E−02
Y−intercept = 0.116
236 PMCs used [8163 scans]
Average IWC = 92.1 gm/km^2
TOTAL Ice = 968.3 tons
Average FREQUENCY = 2.89%
Average ALBEDO = 10.34∗10^{-6} sr^{-1}
10 PMCs
0
50
100
150
200
250
300
350
400
450
500
550
Ice Water Content [gm/km^2]
ORBIT NODE choice = ALL nodes
SCATTERING ANGLE range = [90°,165°]
DETECTION threshold = f(SZA)
RESIDUAL filter: $r_{252}/r_{273} < 5$
15:09:01 Tue Feb 12 2013 /Users/deland/pmc/programs/gplot_v3_iwc_sza.pro

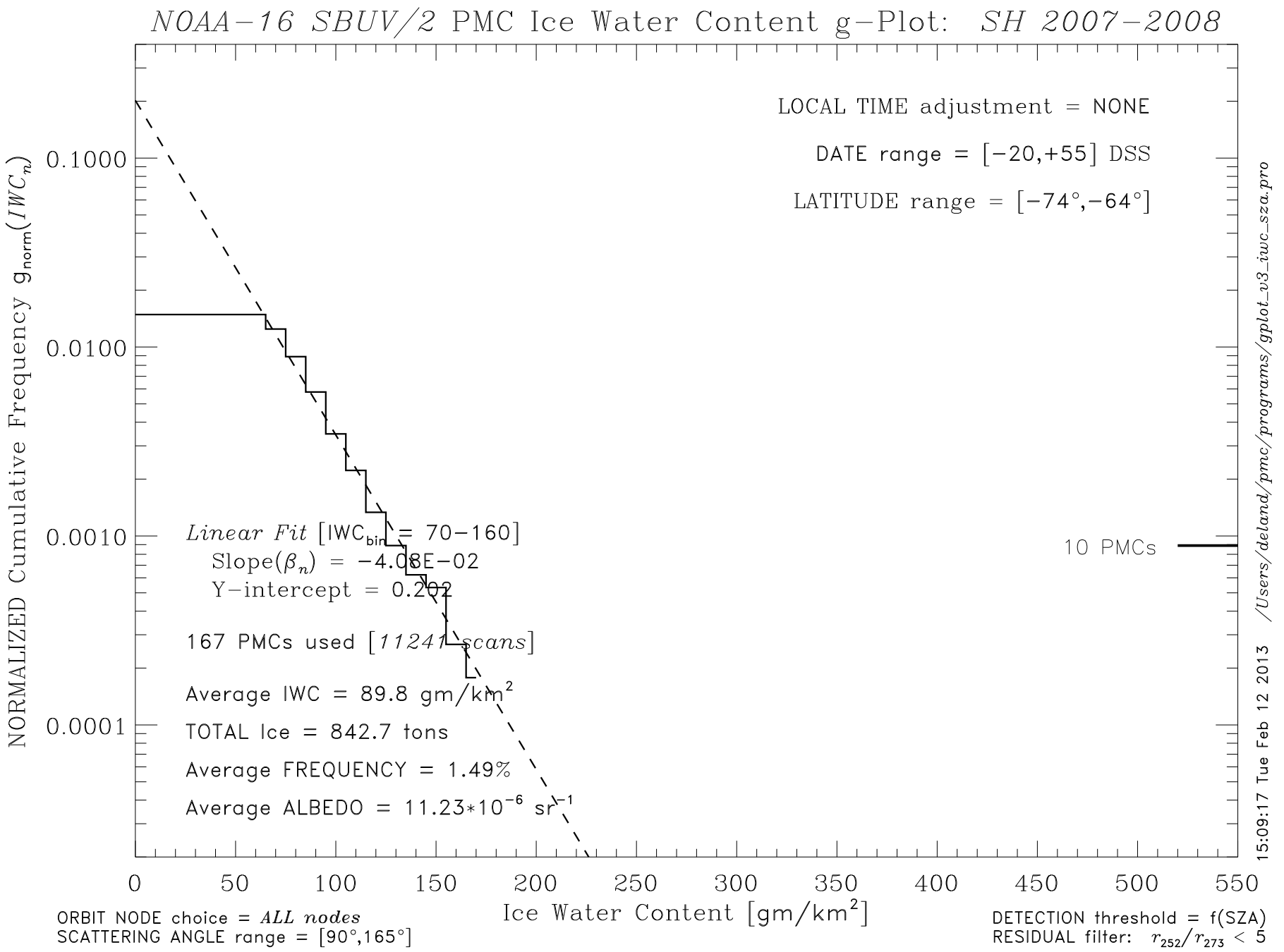

NOAA−16 SBUV/2 PMC Ice Water Content g−Plot: SH 2001−2002
LOCAL TIME adjustment = NONE
DATE range = [−20,+55] DSS
LATITUDE range = [−74°,−64°]
NORMALIZED Cumulative Frequency $g_{norm}(IWC_n)$
0.1000
0.0100
0.0010
0.0001
Linear Fit [IWC_{bin} = 70−120]
Slope(β_n) = 4.52E−02
Y−intercept = 0.100
60 PMCs used [8157 scans]
Average IWC = 80.4 gm/km^2
TOTAL Ice = 947.9 tons
Average FREQUENCY = 0.74%
Average ALBEDO = 8.87∗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: $r_{252}/r_{273} < 5$
15:09:02 Tue Feb 12 2013 /Users/deland/pmc/programs/gplot_v3_iwc_sza.pro

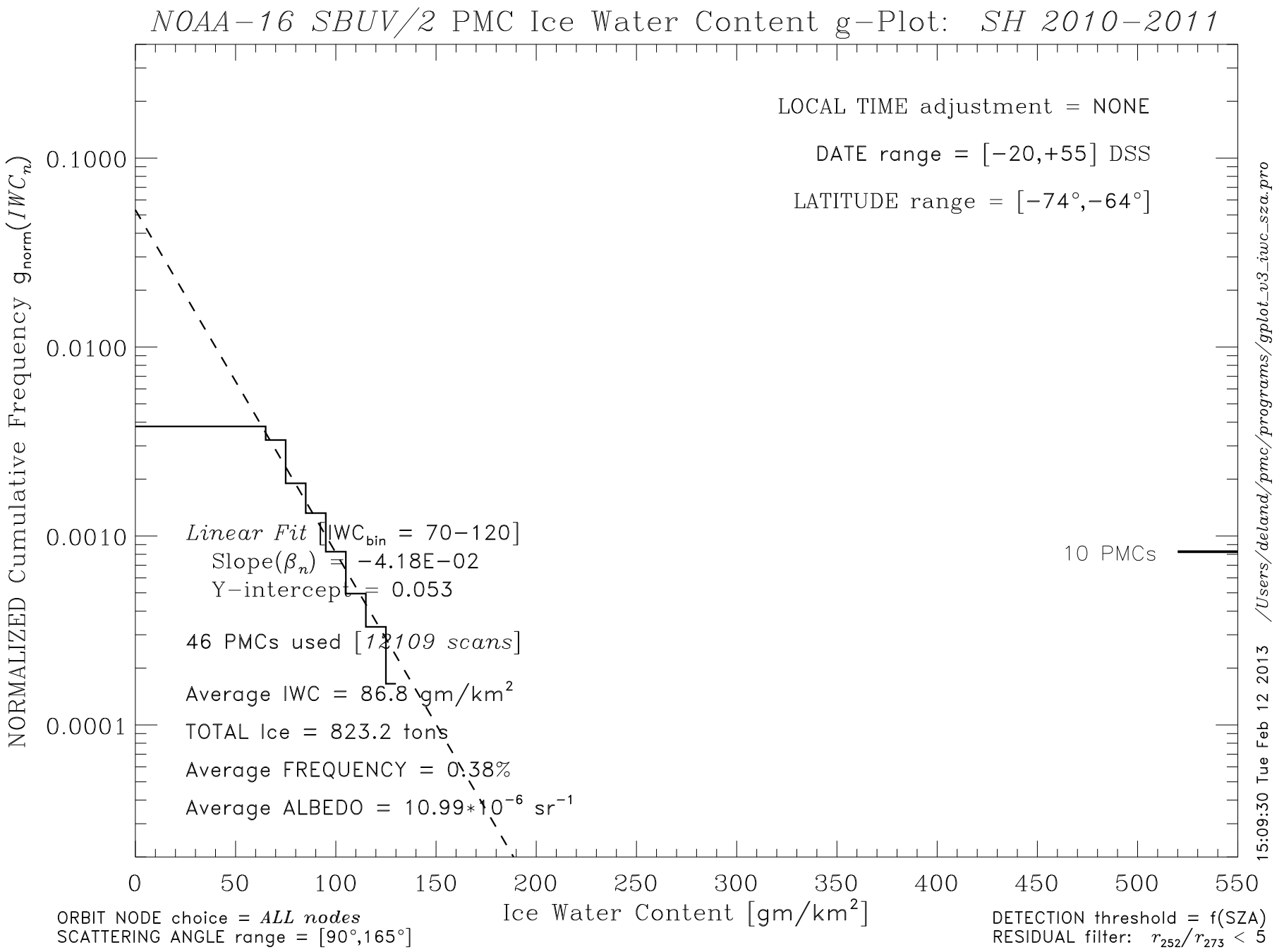

NOAA−16 SBUV/2 PMC Ice Water Content g−Plot: SH 2002−2003
LOCAL TIME adjustment = NONE
DATE range = [−20,+55] DSS
LATITUDE range = [−74°,−64°]
NORMALIZED Cumulative Frequency $g_{norm}(IWC_n)$
0.1000
0.0100
0.0010
0.0001
Linear Fit [IWC$_{bin}$ = 60−160]
Slope(β_n) = −3.45E−02
Y−intercept = 0.120
142 PMCs used [8502 scans]
Average IWC = 87.7 gm/km^2
TOTAL Ice = 948.5 tons
Average FREQUENCY = 1.67%
Average ALBEDO = 9.84∗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: $r_{252}/r_{273} < 5$
15:09:02 Tue Feb 12 2013 /Users/deland/pmc/programs/gplot_v3_iwc_sza.pro

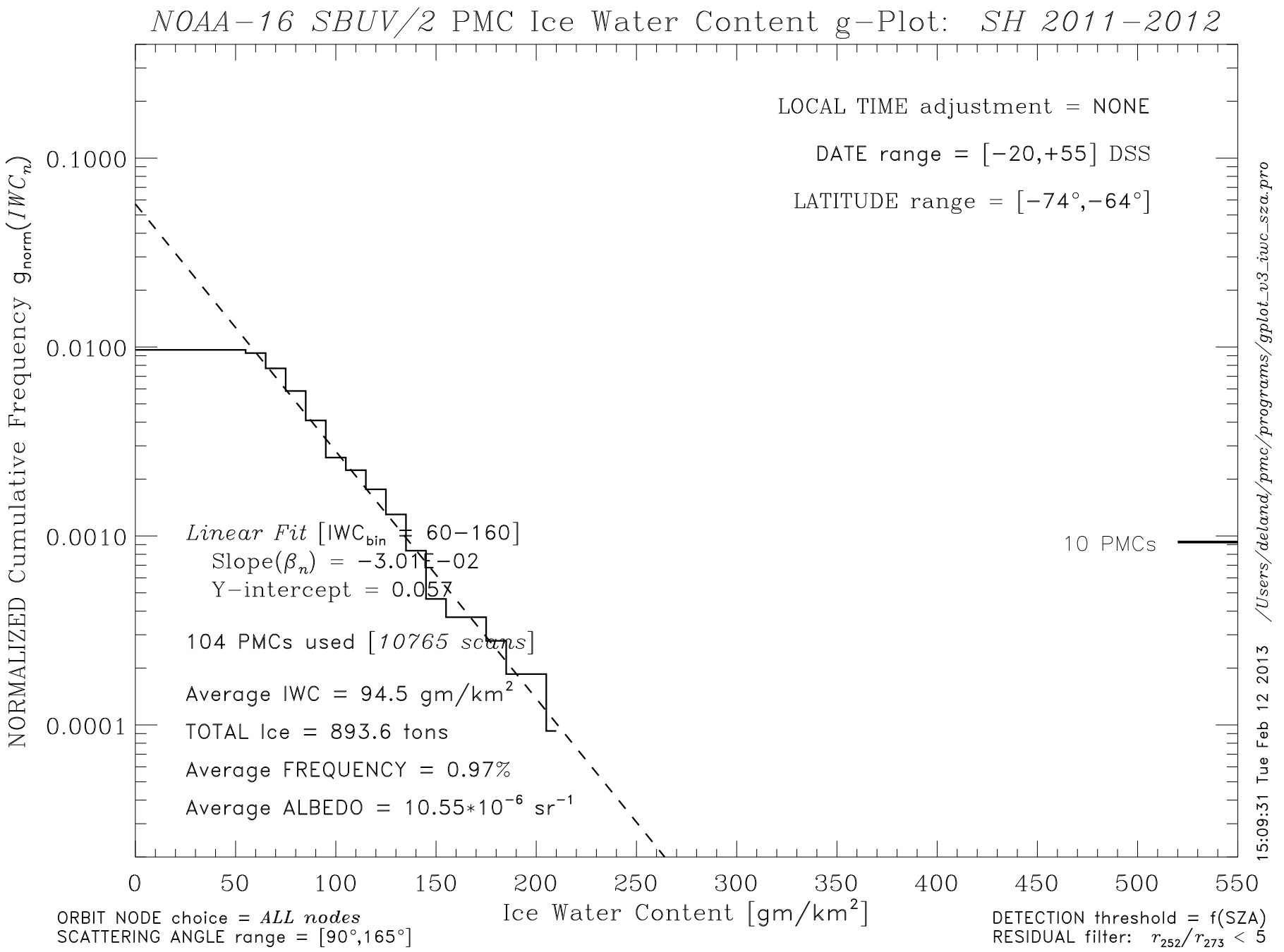

NOAA−16 SBUV/2 PMC Ice Water Content g−Plot: SH 2004−2005
LOCAL TIME adjustment = NONE
DATE range = [−20,+55] DSS
LATITUDE range = [−74°,−64°]
NORMALIZED Cumulative Frequency $g_{norm}(IWC_n)$
0.1000
0.0100
0.0010
0.0001
Linear Fit [IWC_{bin} = 70−210]
Slope(β_n) = −2.56E−02
Y−intercept = 0.140
268 PMCs used [8434 scans]
Average IWC = 98.0 gm/km^2
TOTAL Ice = 941.6 tons
Average FREQUENCY = 3.18%
Average ALBEDO = 11.29∗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
15:09:15 Tue Feb 12 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 = NONE
DATE range = [−20,+55] DSS
LATITUDE range = [−74°,−64°]
NORMALIZED Cumulative Frequency $g_{norm}(IWC_n)$
0.1000
0.0100
0.0010
0.0001
Linear Fit [IWC_{bin} = 70−220]
Slope(β_n) = −2.57E−02
Y−intercept = 0.108
229 PMCs used [9170 scans]
Average IWC = 97.0 gm/km^2
TOTAL Ice = 912.7 tons
Average FREQUENCY = 2.50%
Average ALBEDO = 11.39∗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: $r_{252}/r_{273} < 5$
15:09:16 Tue Feb 12 2013 /Users/deland/pmc/programs/gplot_v3_iwc_sza.pro

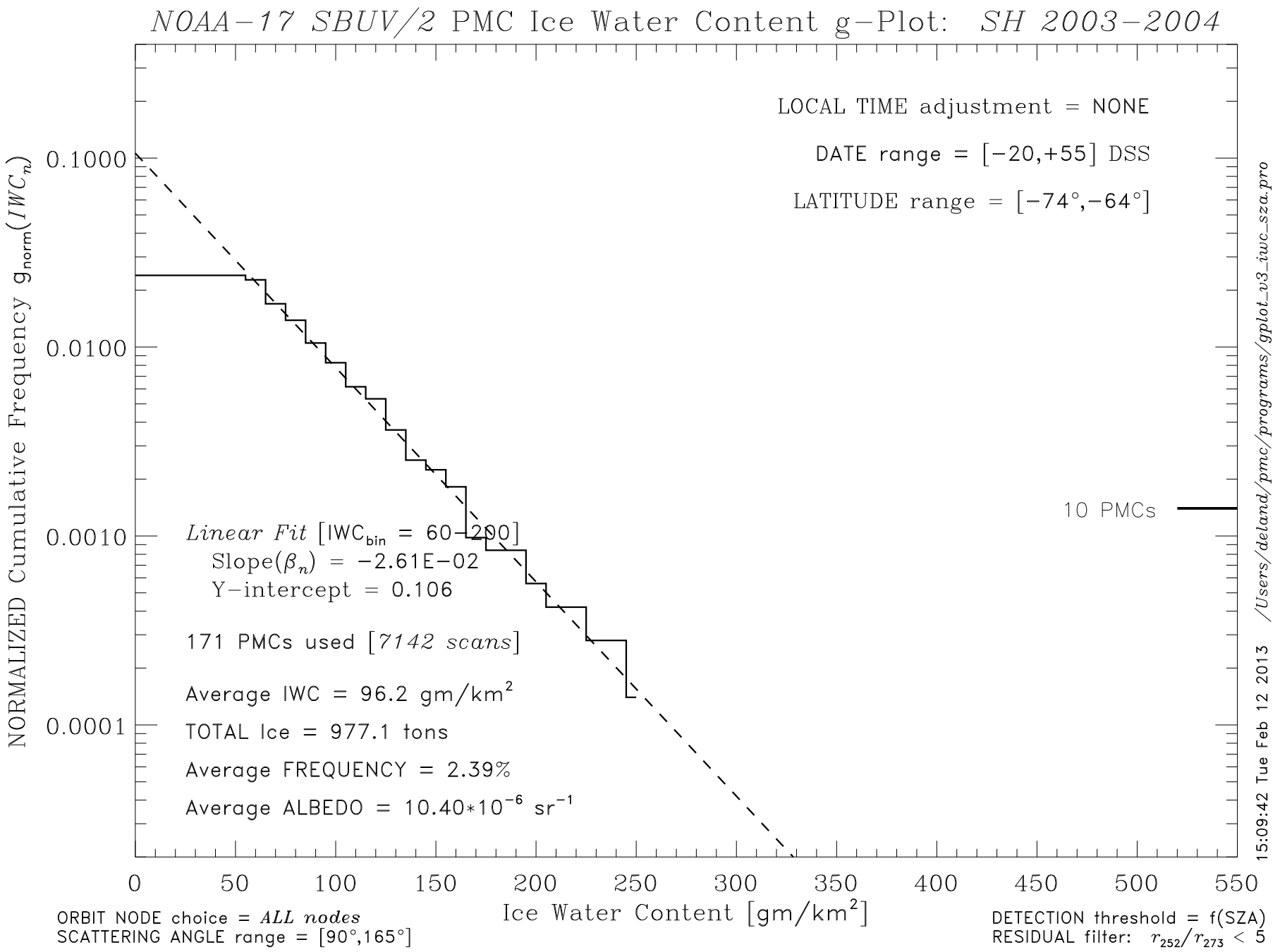
NOAA−16 SBUV/2 PMC Ice Water Content g−Plot: SH 2006−2007
LOCAL TIME adjustment = NONE
DATE range = [−20,+55] DSS
LATITUDE range = [−74°,−64°]
10 PMCs
Linear Fit [IWC$_{bin}$ = 70−160]
Slope(β_n) = −4.39E−02
Y−intercept = 0.362
228 PMCs used [1023 Scans]
Average IWC = 87.0 gm/km^2
TOTAL Ice = 879.4 tons
Average FREQUENCY = 2.23%
Average ALBEDO = 10.50*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: $r_{252}/r_{273} < 5$
15:09:16 Tue Feb 12 2013 /Users/deland/pmc/programs/gplot_v3_iwc_sza.pro

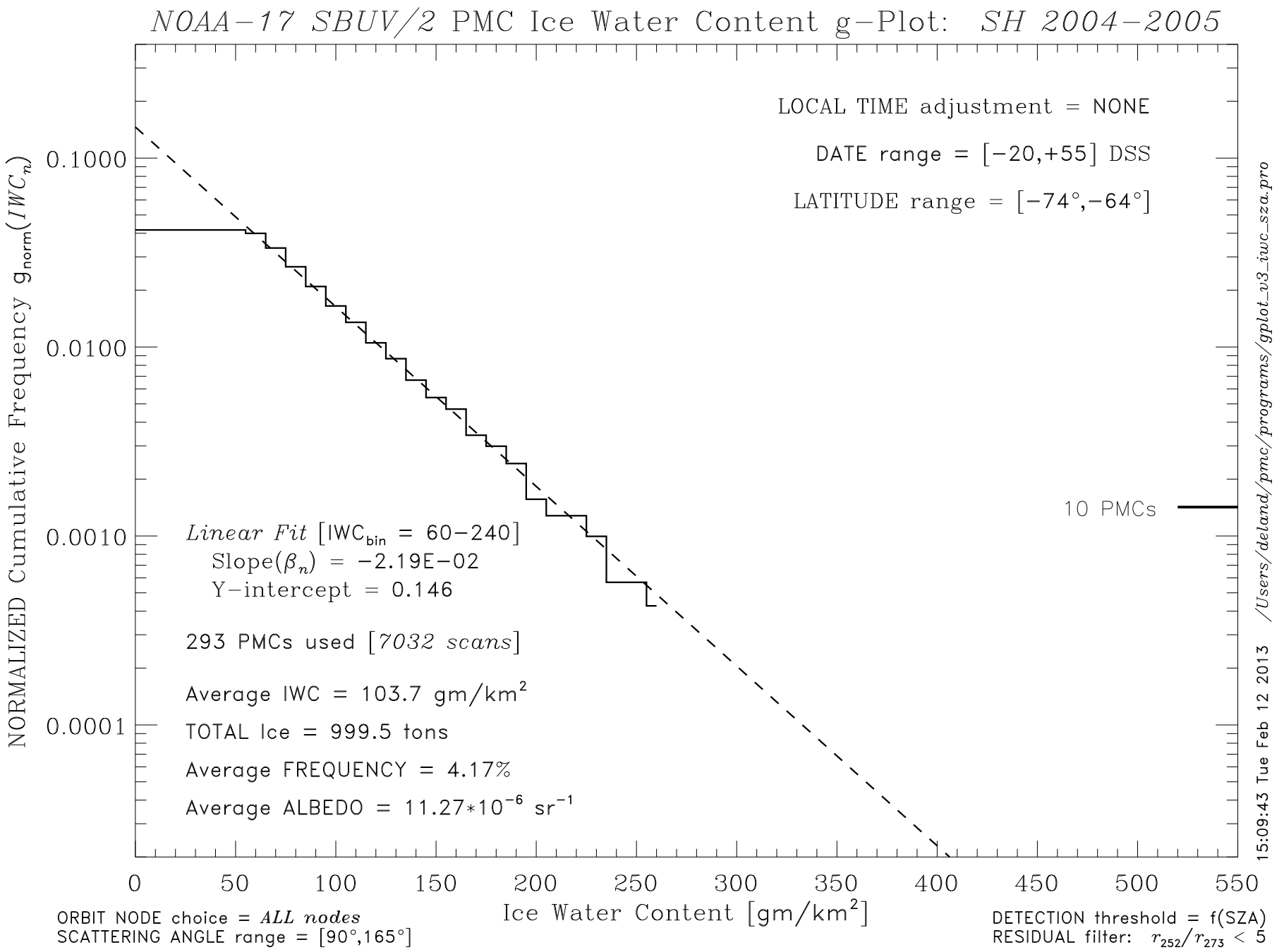

NOAA−16 SBUV/2 PMC Ice Water Content g−Plot: SH 2007−2008
LOCAL TIME adjustment = NONE
DATE range = [−20,+55] DSS
LATITUDE range = [−74°,−64°]
NORMALIZED Cumulative Frequency $g_{norm}(IWC_n)$
0.1000
0.0100
0.0010
0.0001
Linear Fit [IWC_{bin} = 70−160]
Slope(β_n) = −4.08E−02
Y−intercept = 0.202
167 PMCs used [11241 scans]
Average IWC = 89.8 gm/km^2
TOTAL Ice = 842.7 tons
Average FREQUENCY = 1.49%
Average ALBEDO = 11.23∗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: $r_{252}/r_{273} < 5$
15:09:17 Tue Feb 12 2013 /Users/deland/pmc/programs/gplot_v3_iwc_sza.pro

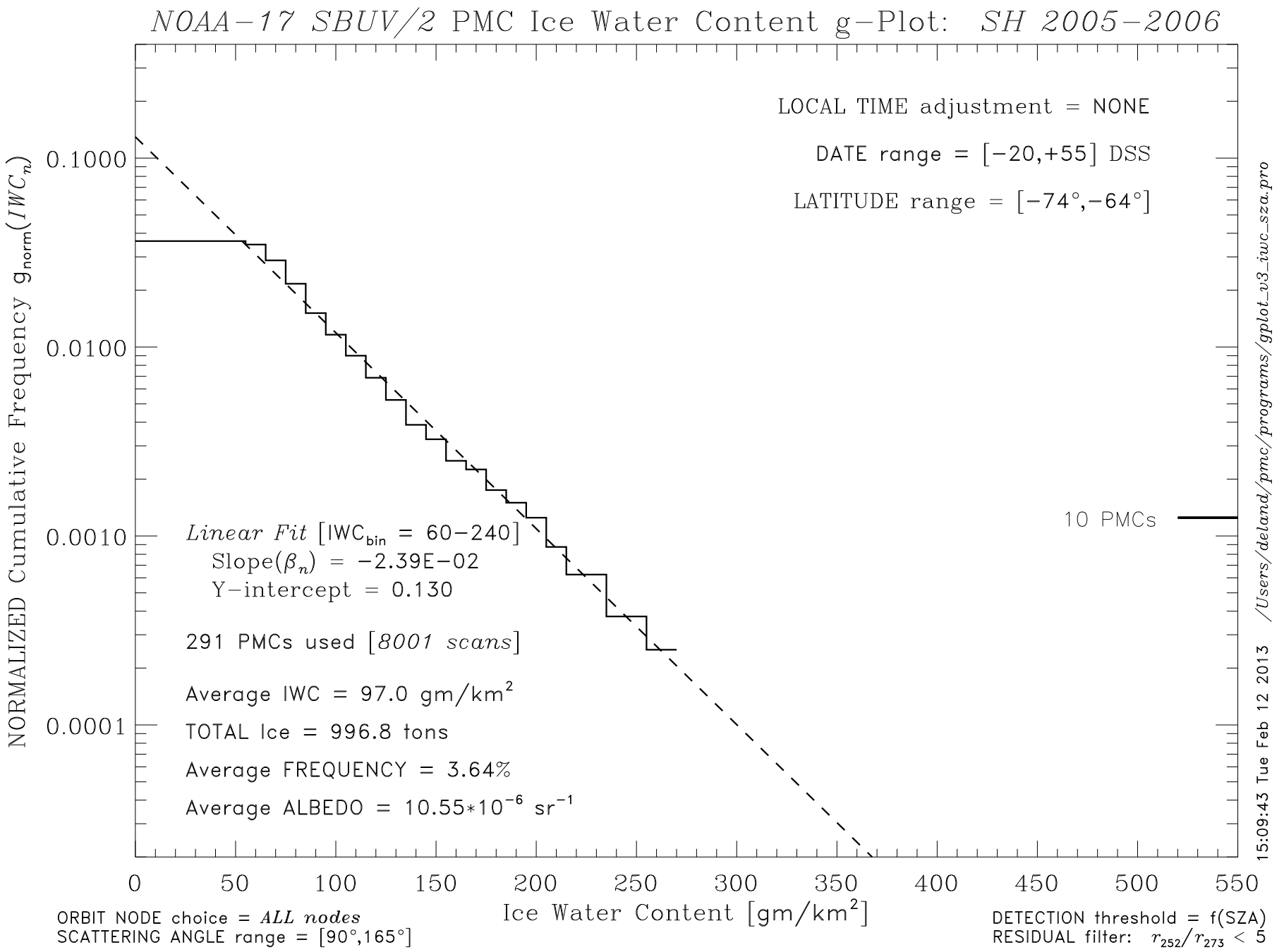

NOAA−16 SBUV/2 PMC Ice Water Content g−Plot: SH 2010−2011
LOCAL TIME adjustment = NONE
DATE range = [−20,+55] DSS
LATITUDE range = [−74°,−64°]
NORMALIZED Cumulative Frequency $g_{norm}(IWC_n)$
0.1000
0.0100
0.0010
0.0001
Linear Fit [IWC$_{bin}$ = 70−120]
Slope(β_n) = −4.18E−02
Y−intercept = 0.053
46 PMCs used [12109 scans]
Average IWC = 86.8 gm/km^2
TOTAL Ice = 823.2 tons
Average FREQUENCY = 0.38%
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]
15:09:30 Tue Feb 12 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: $r_{252}/r_{273} < 5$

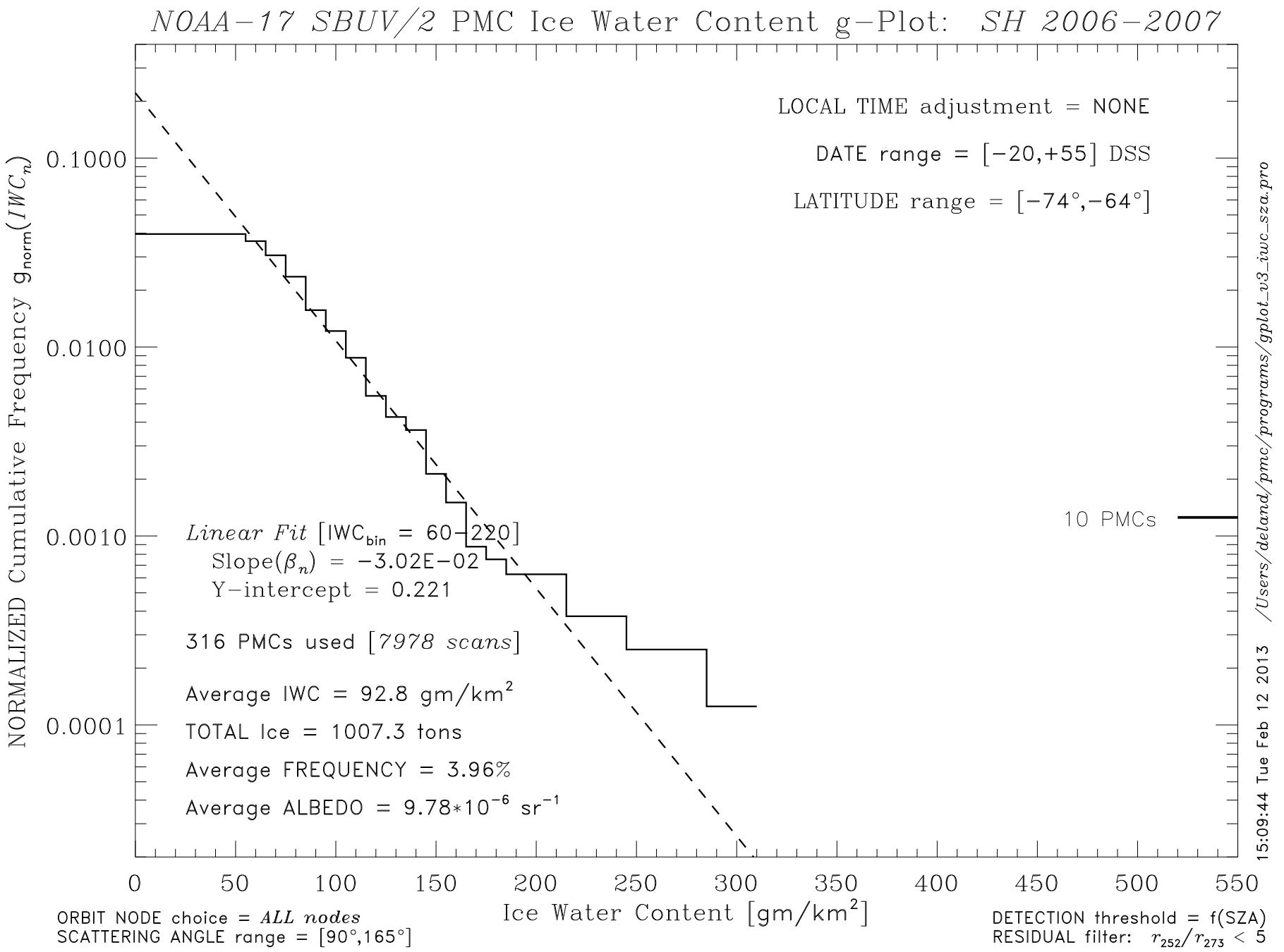

NOAA−16 SBUV/2 PMC Ice Water Content g−Plot: SH 2011−2012
LOCAL TIME adjustment = NONE
DATE range = [−20,+55] DSS
LATITUDE range = [−74°,−64°]
NORMALIZED Cumulative Frequency $g_{norm}(IWC_n)$
0.1000
0.0100
0.0010
0.0001
Linear Fit [IWC_{bin} = 60−160]
Slope(β_n) = −3.01E−02
Y−intercept = 0.057
104 PMCs used [10765 scans]
Average IWC = 94.5 gm/km^2
TOTAL Ice = 893.6 tons
Average FREQUENCY = 0.97%
Average ALBEDO = 10.55∗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
15:09:31 Tue Feb 12 2013 /Users/deland/pmc/programs/gplot_v3_iwc_sza.pro

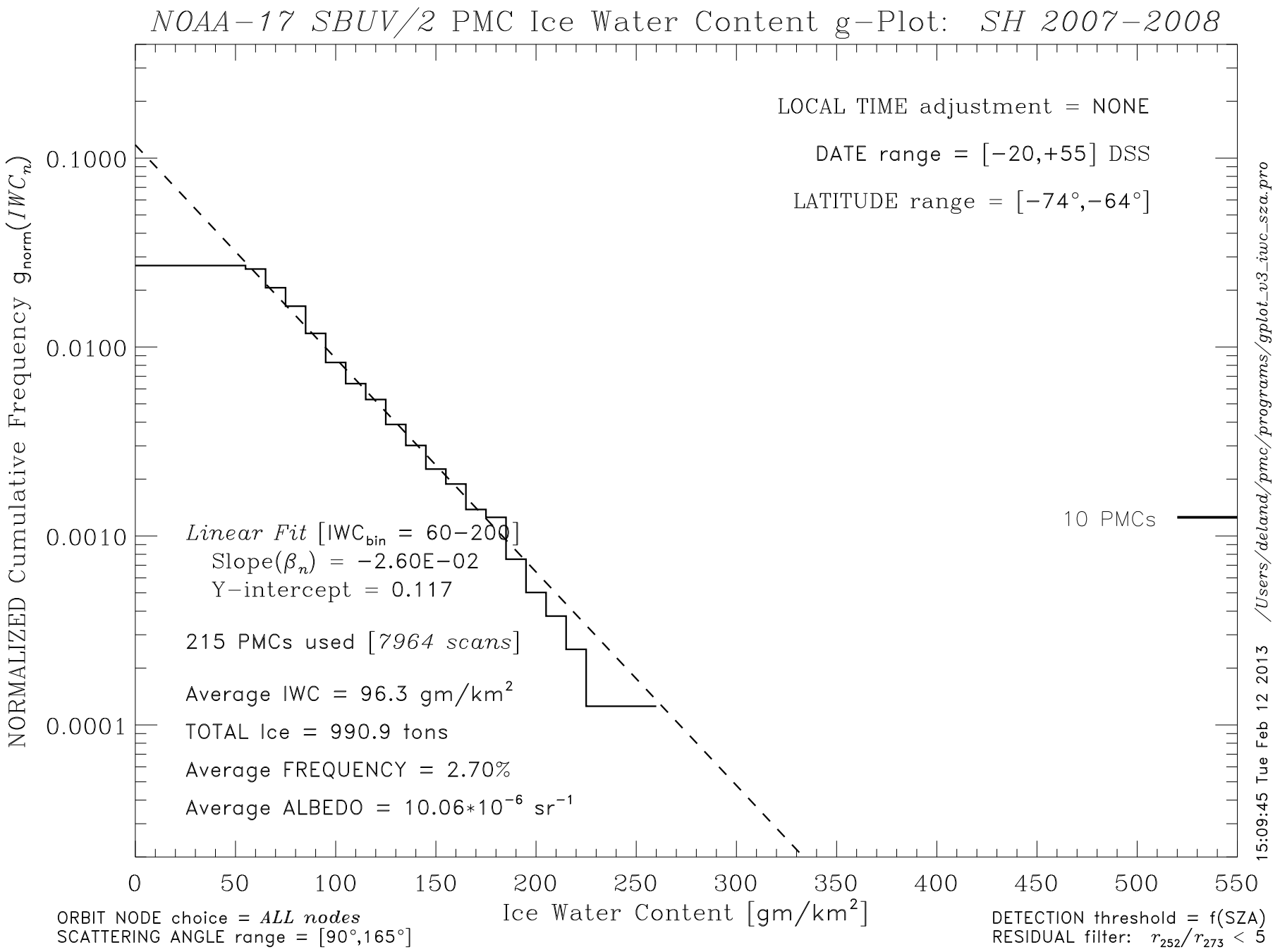
NOAA−17 SBUV/2 PMC Ice Water Content g−Plot: SH 2002−2003
LOCAL TIME adjustment = NONE
DATE range = [−20,+55] DSS
LATITUDE range = [−74°,−64°]
10 PMCs
Linear Fit [IWC_bin = 60−190]
Slope(β_n) = −2.97E−02
Y−intercept = 0.173
229 PMCs used [7798 scans]
Average IWC = 94.7 gm/km²
TOTAL Ice = 979.7 tons
Average FREQUENCY = 2.94%
Average ALBEDO = 10.26*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
15:09:42 Tue Feb 12 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 = NONE
DATE range = [−20,+55] DSS
LATITUDE range = [−74°,−64°]
10 PMCs
Linear Fit [IWC_bin = 60−200]
Slope(β_n) = −2.61E−02
Y−intercept = 0.106
171 PMCs used [7142 scans]
Average IWC = 96.2 gm/km²
TOTAL Ice = 977.1 tons
Average FREQUENCY = 2.39%
Average ALBEDO = 10.40*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: r_252/r_273 < 5
15:09:42 Tue Feb 12 2013 /Users/deland/pmc/programs/gplot_v3_iwc_sza.pro

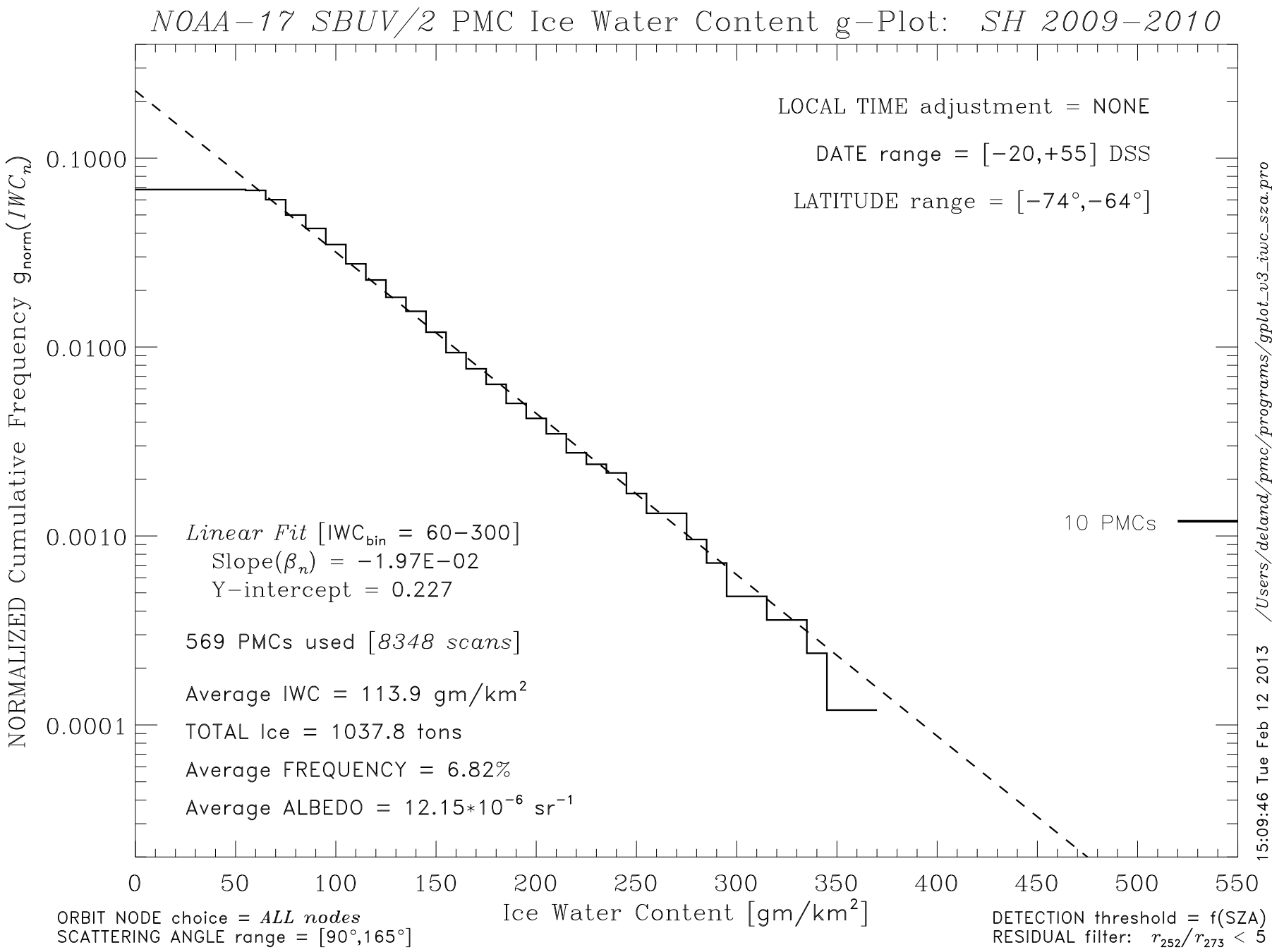

NOAA−17 SBUV/2 PMC Ice Water Content g−Plot: SH 2004−2005
LOCAL TIME adjustment = NONE
DATE range = [−20,+55] DSS
LATITUDE range = [−74°,−64°]
NORMALIZED Cumulative Frequency $g_{norm}(IWC_n)$
0.1000
0.0100
0.0010
0.0001
10 PMCs
Linear Fit [IWC_{bin} = 60−240]
Slope(β_n) = −2.19E−02
Y−intercept = 0.146
293 PMCs used [7032 scans]
Average IWC = 103.7 gm/km^2
TOTAL Ice = 999.5 tons
Average FREQUENCY = 4.17%
Average ALBEDO = 11.27*10^{-6} sr^{-1}
0
50
100
150
200
250
300
350
400
450
500
550
Ice Water Content [gm/km^2]
15:09:43 Tue Feb 12 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: $r_{252}/r_{273} < 5$

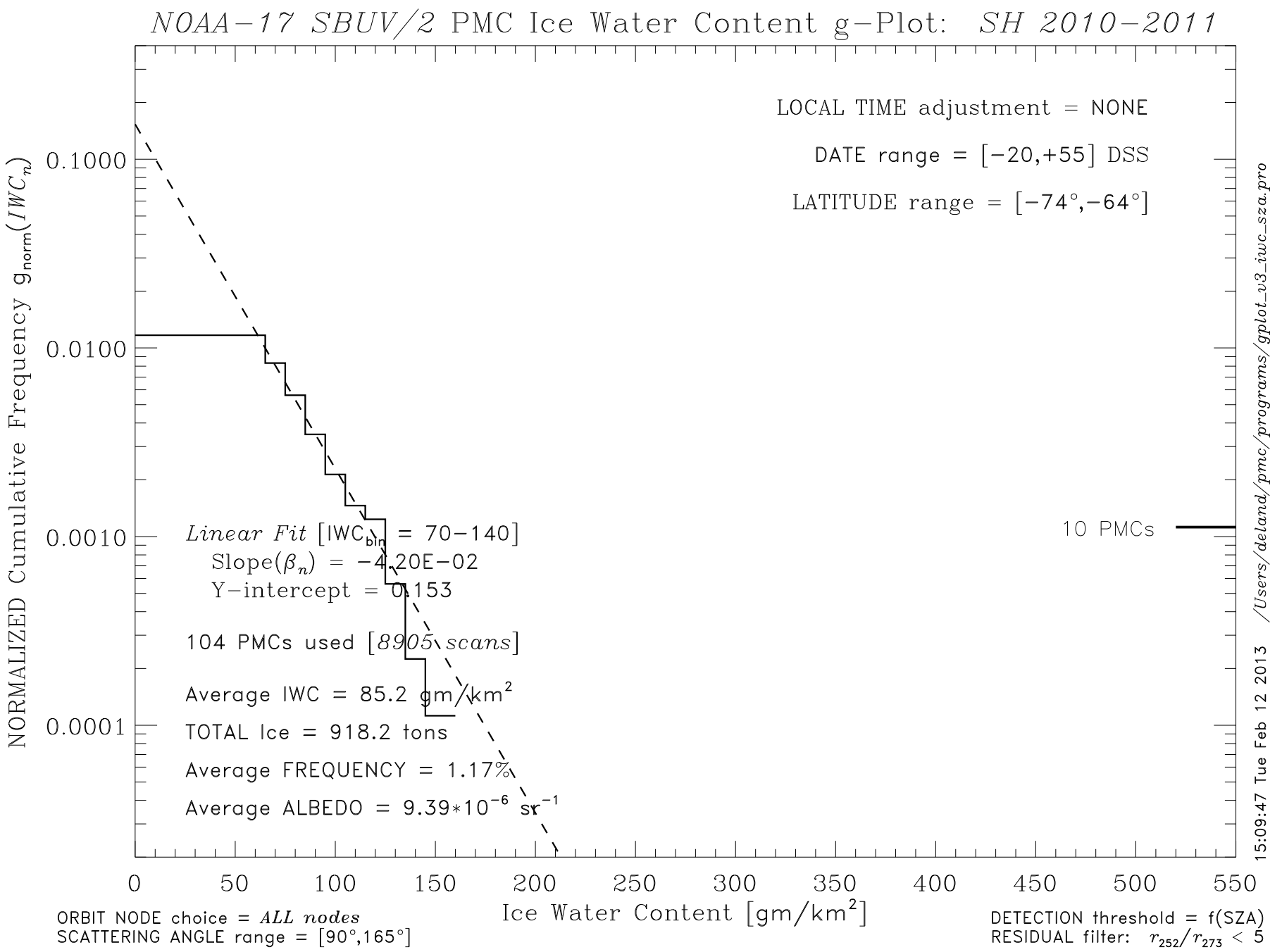

NOAA−17 SBUV/2 PMC Ice Water Content g−Plot: SH 2005−2006
LOCAL TIME adjustment = NONE
DATE range = [−20,+55] DSS
LATITUDE range = [−74°,−64°]
NORMALIZED Cumulative Frequency $g_{norm}(IWC_n)$
0.1000
0.0100
0.0010
0.0001
10 PMCs
Linear Fit [IWC_{bin} = 60−240]
Slope(β_n) = −2.39E−02
Y−intercept = 0.130
291 PMCs used [8001 scans]
Average IWC = 97.0 gm/km^2
TOTAL Ice = 996.8 tons
Average FREQUENCY = 3.64%
Average ALBEDO = 10.55∗10^{-6} sr^{-1}
0
50
100
150
200
250
300
350
400
450
500
550
Ice Water Content [gm/km^2]
15:09:43 Tue Feb 12 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: $r_{252}/r_{273} < 5$

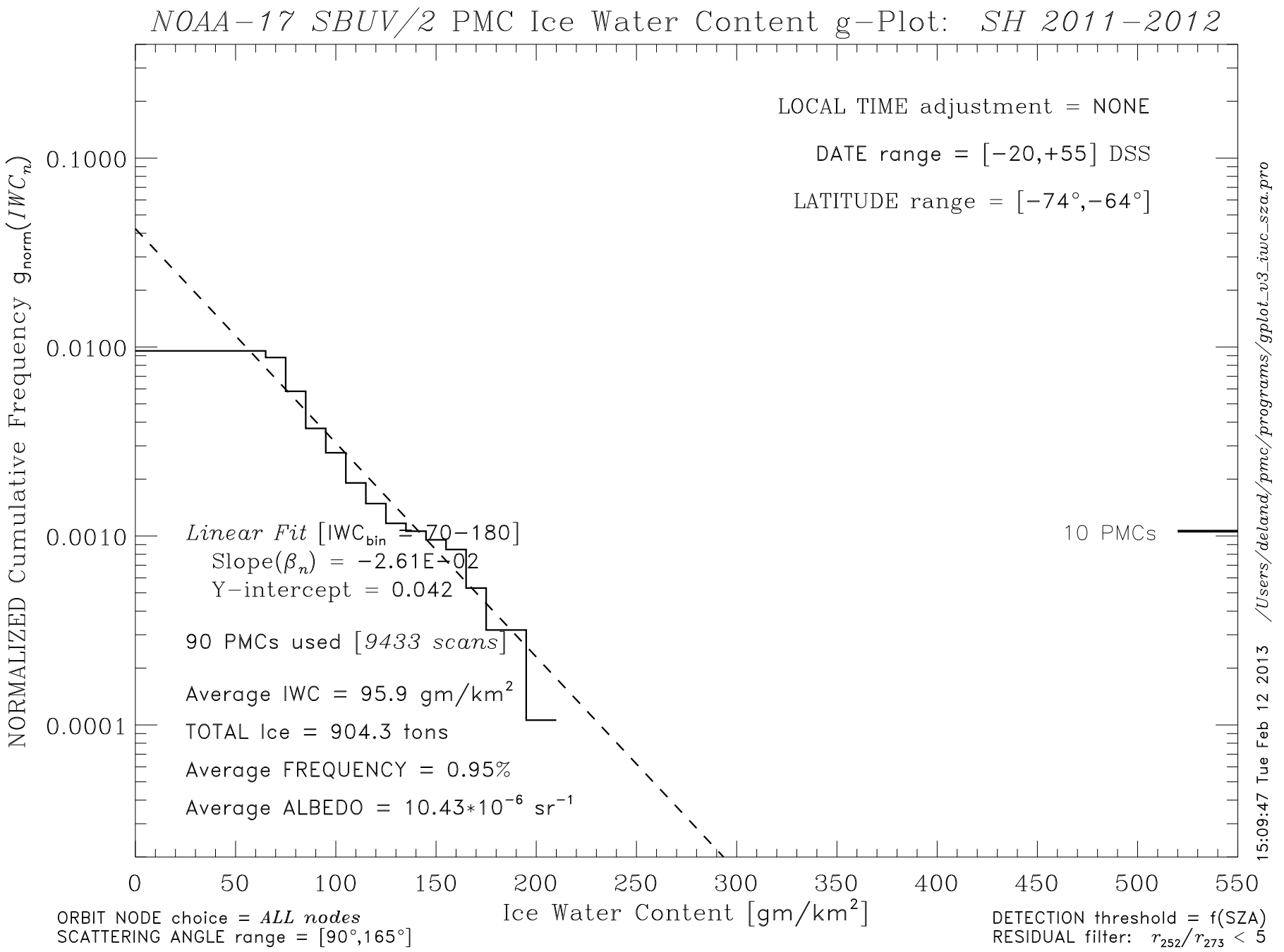

NOAA−17 SBUV/2 PMC Ice Water Content g−Plot: SH 2006−2007
LOCAL TIME adjustment = NONE
DATE range = [−20,+55] DSS
LATITUDE range = [−74°,−64°]
NORMALIZED Cumulative Frequency $g_{norm}(IWC_n)$
0.1000
0.0100
0.0010
0.0001
Linear Fit [IWC_{bin} = 60−220]
Slope(β_n) = −3.02E−02
Y−intercept = 0.221
316 PMCs used [7978 scans]
Average IWC = 92.8 gm/km^2
TOTAL Ice = 1007.3 tons
Average FREQUENCY = 3.96%
Average ALBEDO = 9.78∗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: $r_{252}/r_{273} < 5$
15:09:44 Tue Feb 12 2013 /Users/deland/pmc/programs/gplot_v3_iwc_sza.pro

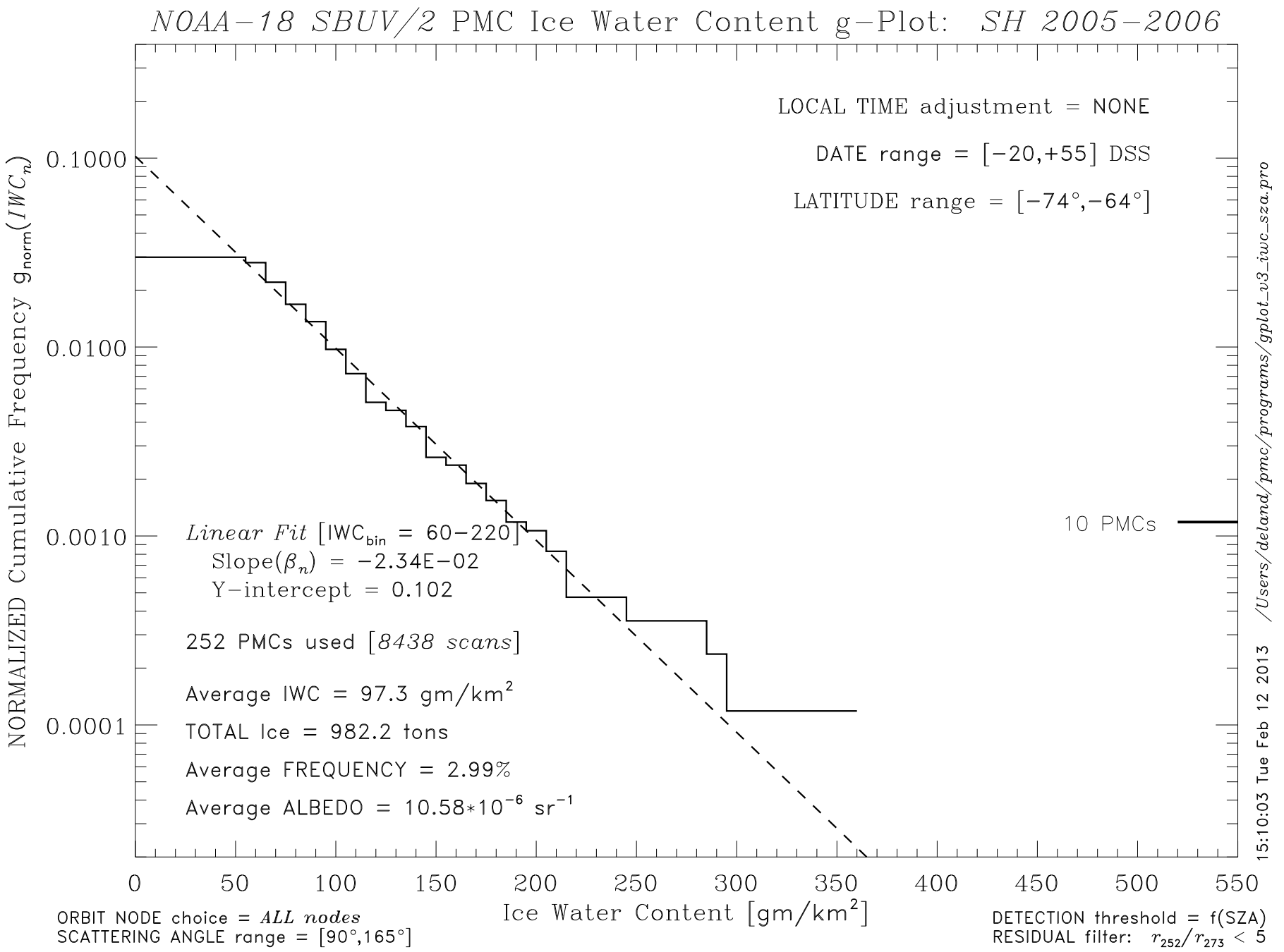

NOAA−17 SBUV/2 PMC Ice Water Content g−Plot: SH 2007−2008
LOCAL TIME adjustment = NONE
DATE range = [−20,+55] DSS
LATITUDE range = [−74°,−64°]
NORMALIZED Cumulative Frequency $g_{norm}(IWC_n)$
0.1000
0.0100
0.0010
0.0001
10 PMCs
Linear Fit [IWC_{bin} = 60−200]
Slope(β_n) = −2.60E−02
Y−intercept = 0.117
215 PMCs used [7964 scans]
Average IWC = 96.3 gm/km^2
TOTAL Ice = 990.9 tons
Average FREQUENCY = 2.70%
Average ALBEDO = 10.06*10^{-6} sr^{-1}
0
50
100
150
200
250
300
350
400
450
500
550
Ice Water Content [gm/km^2]
15:09:45 Tue Feb 12 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: $r_{252}/r_{273} < 5$

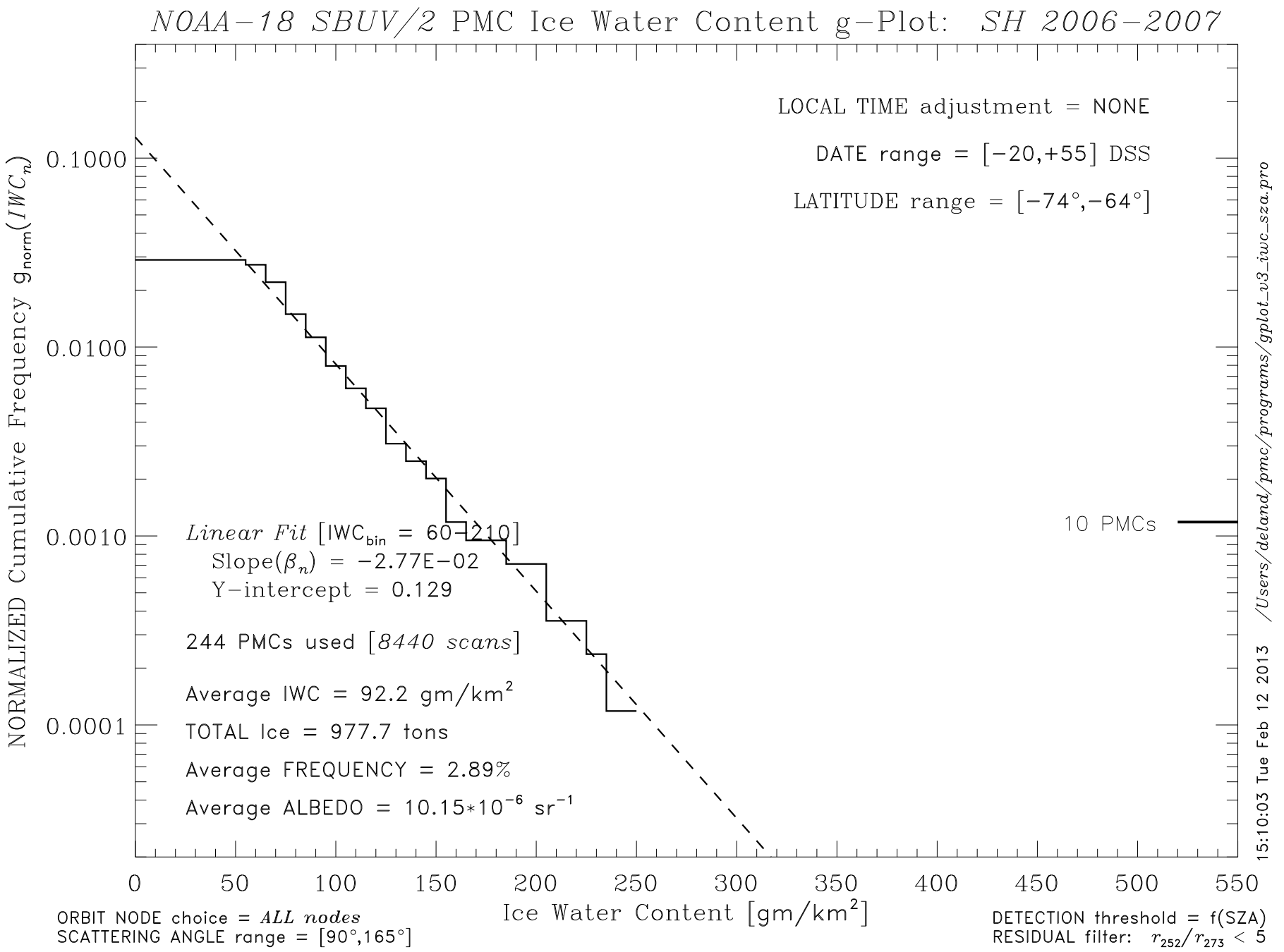
NOAA−17 SBUV/2 PMC Ice Water Content g−Plot: SH 2008−2009
LOCAL TIME adjustment = NONE
DATE range = [−20,+55] DSS
LATITUDE range = [−74°,−64°]
10 PMCs
Linear Fit [IWC$_{bin}$ = 60−240]
Slope(β_n) = −2.16E−02
Y−intercept = 0.086
212 PMCs used [8071 scans]
Average IWC = 101.3 gm/km^2
TOTAL Ice = 986.3 tons
Average FREQUENCY = 2.63%
Average ALBEDO = 10.26*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: $r_{252}/r_{273} < 5$
15:09:45 Tue Feb 12 2013 /Users/deland/pmc/programs/gplot_v3_iwc_sza.pro

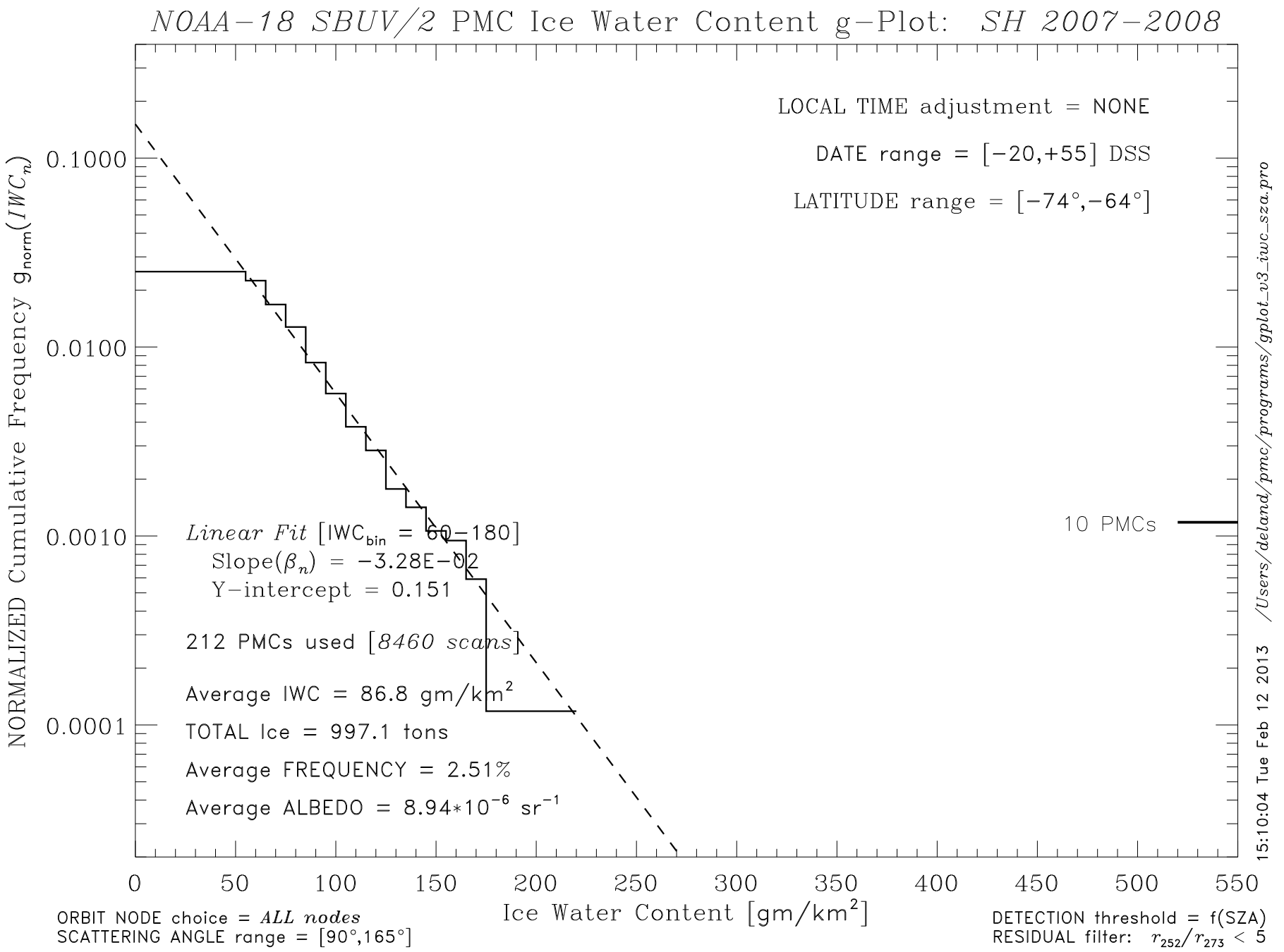

NOAA−17 SBUV/2 PMC Ice Water Content g−Plot: SH 2009−2010
LOCAL TIME adjustment = NONE
DATE range = [−20,+55] DSS
LATITUDE range = [−74°,−64°]
NORMALIZED Cumulative Frequency $g_{norm}(IWC_n)$
0.1000
0.0100
0.0010
0.0001
Linear Fit [IWC_{bin} = 60−300]
Slope(β_n) = −1.97E−02
Y−intercept = 0.227
569 PMCs used [8348 scans]
Average IWC = 113.9 gm/km^2
TOTAL Ice = 1037.8 tons
Average FREQUENCY = 6.82%
Average ALBEDO = 12.15∗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: $r_{252}/r_{273} < 5$
15:09:46 Tue Feb 12 2013 /Users/deland/pmc/programs/gplot_v3_iwc_sza.pro

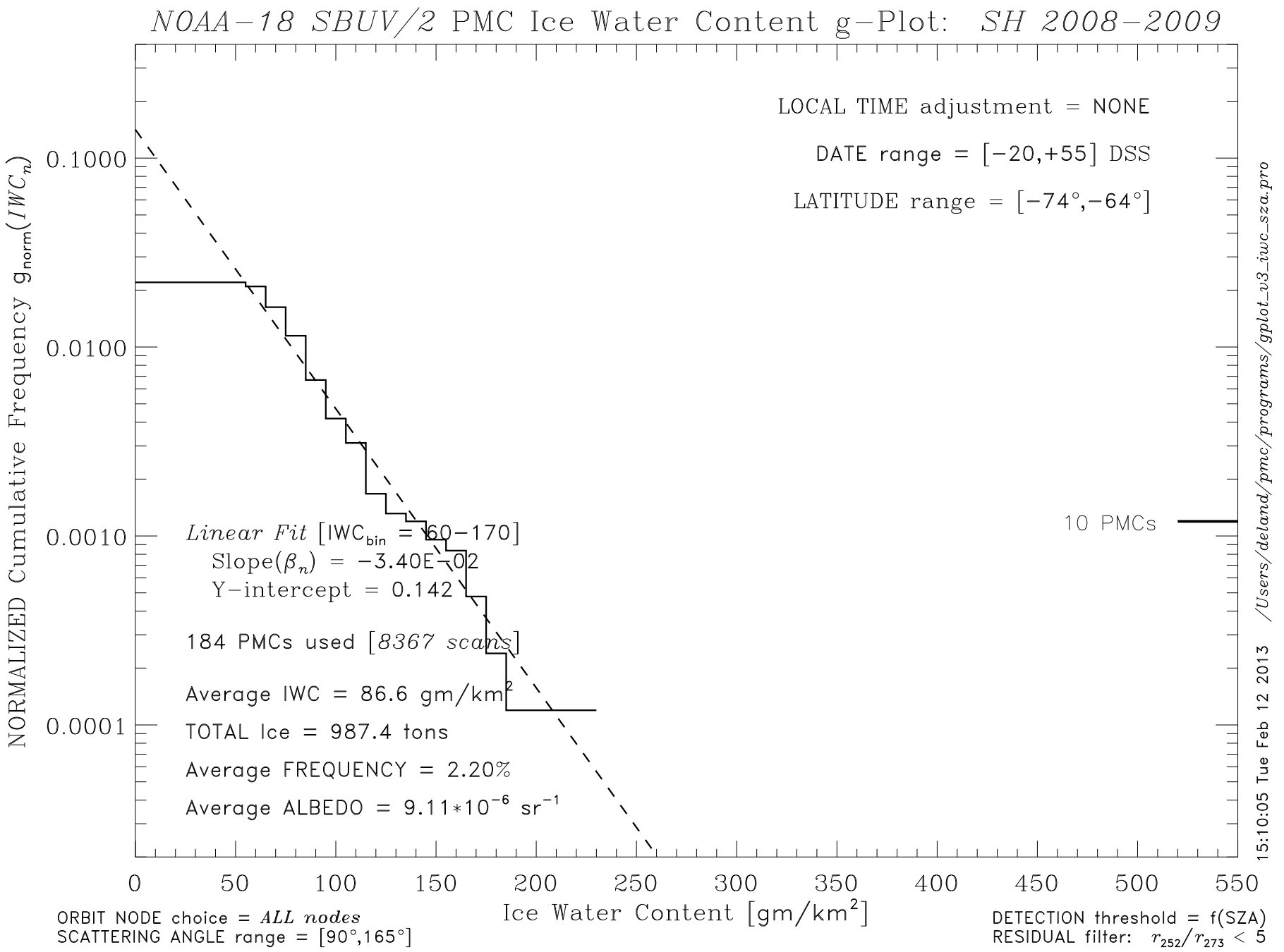

NOAA−17 SBUV/2 PMC Ice Water Content g−Plot: SH 2010−2011
LOCAL TIME adjustment = NONE
DATE range = [−20,+55] DSS
LATITUDE range = [−74°,−64°]
NORMALIZED Cumulative Frequency $g_{norm}(IWC_n)$
0.1000
0.0100
0.0010
0.0001
Linear Fit [IWC_{bin} = 70−140]
Slope(β_n) = −4.20E−02
Y−intercept = 0.153
104 PMCs used [8905 scans]
Average IWC = 85.2 gm/km^2
TOTAL Ice = 918.2 tons
Average FREQUENCY = 1.17%
Average ALBEDO = 9.39∗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: $r_{252}/r_{273} < 5$
15:09:47 Tue Feb 12 2013 /Users/deland/pmc/programs/gplot_v3_iwc_sza.pro

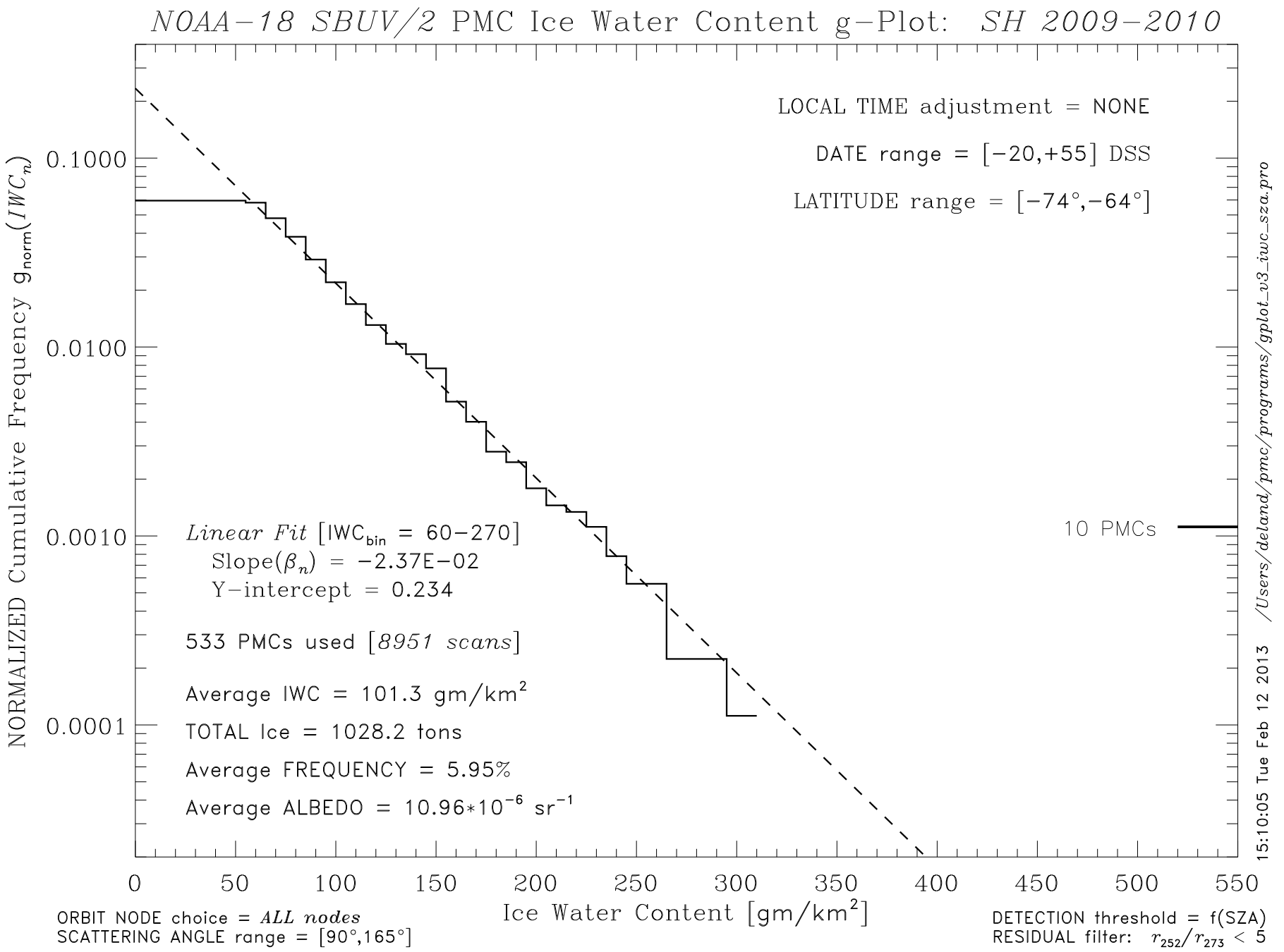

NOAA−17 SBUV/2 PMC Ice Water Content g−Plot: SH 2011−2012
LOCAL TIME adjustment = NONE
DATE range = [−20,+55] DSS
LATITUDE range = [−74°,−64°]
NORMALIZED Cumulative Frequency $g_{norm}(IWC_n)$
0.1000
0.0100
0.0010
0.0001
Linear Fit [IWC_{bin} = 70−180]
Slope(β_n) = −2.61E−02
Y−intercept = 0.042
90 PMCs used [9433 scans]
Average IWC = 95.9 gm/km^2
TOTAL Ice = 904.3 tons
Average FREQUENCY = 0.95%
Average ALBEDO = 10.43∗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
15:09:47 Tue Feb 12 2013 /Users/deland/pmc/programs/gplot_v3_iwc_sza.pro

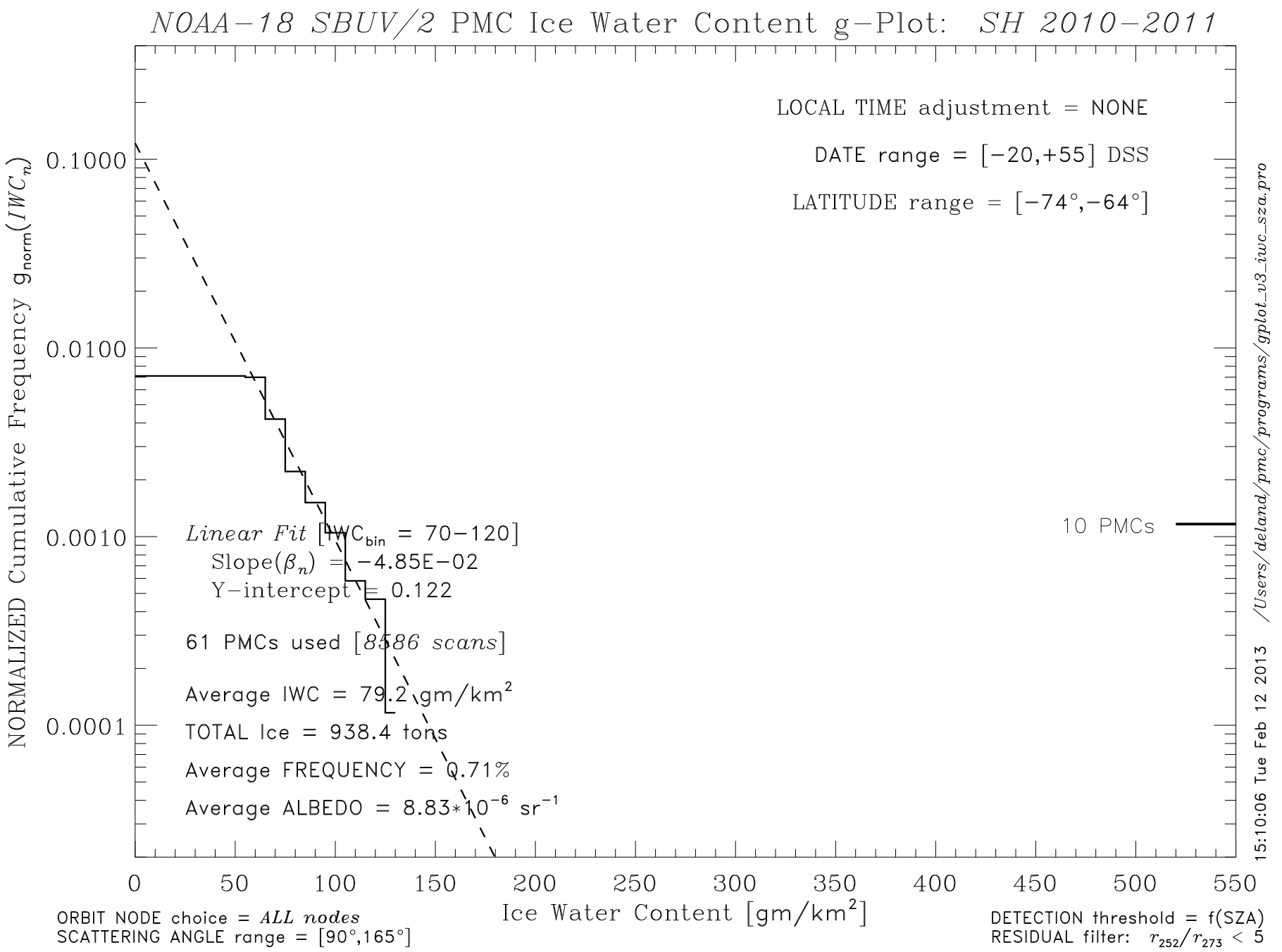

NOAA−18 SBUV/2 PMC Ice Water Content g−Plot: SH 2005−2006
LOCAL TIME adjustment = NONE
DATE range = [−20,+55] DSS
LATITUDE range = [−74°,−64°]
NORMALIZED Cumulative Frequency $g_{norm}(IWC_n)$
0.1000
0.0100
0.0010
0.0001
Linear Fit [IWC$_{bin}$ = 60−220]
Slope(β_n) = −2.34E−02
Y−intercept = 0.102
252 PMCs used [8438 scans]
Average IWC = 97.3 gm/km^2
TOTAL Ice = 982.2 tons
Average FREQUENCY = 2.99%
Average ALBEDO = 10.58∗10^{-6} sr^{-1}
10 PMCs
0
50
100
150
200
250
300
350
400
450
500
550
Ice Water Content [gm/km^2]
ORBIT NODE choice = ALL nodes
SCATTERING ANGLE range = [90°,165°]
DETECTION threshold = f(SZA)
RESIDUAL filter: $r_{252}/r_{273} < 5$
15:10:03 Tue Feb 12 2013 /Users/deland/pmc/programs/gplot_v3_iwc_sza.pro

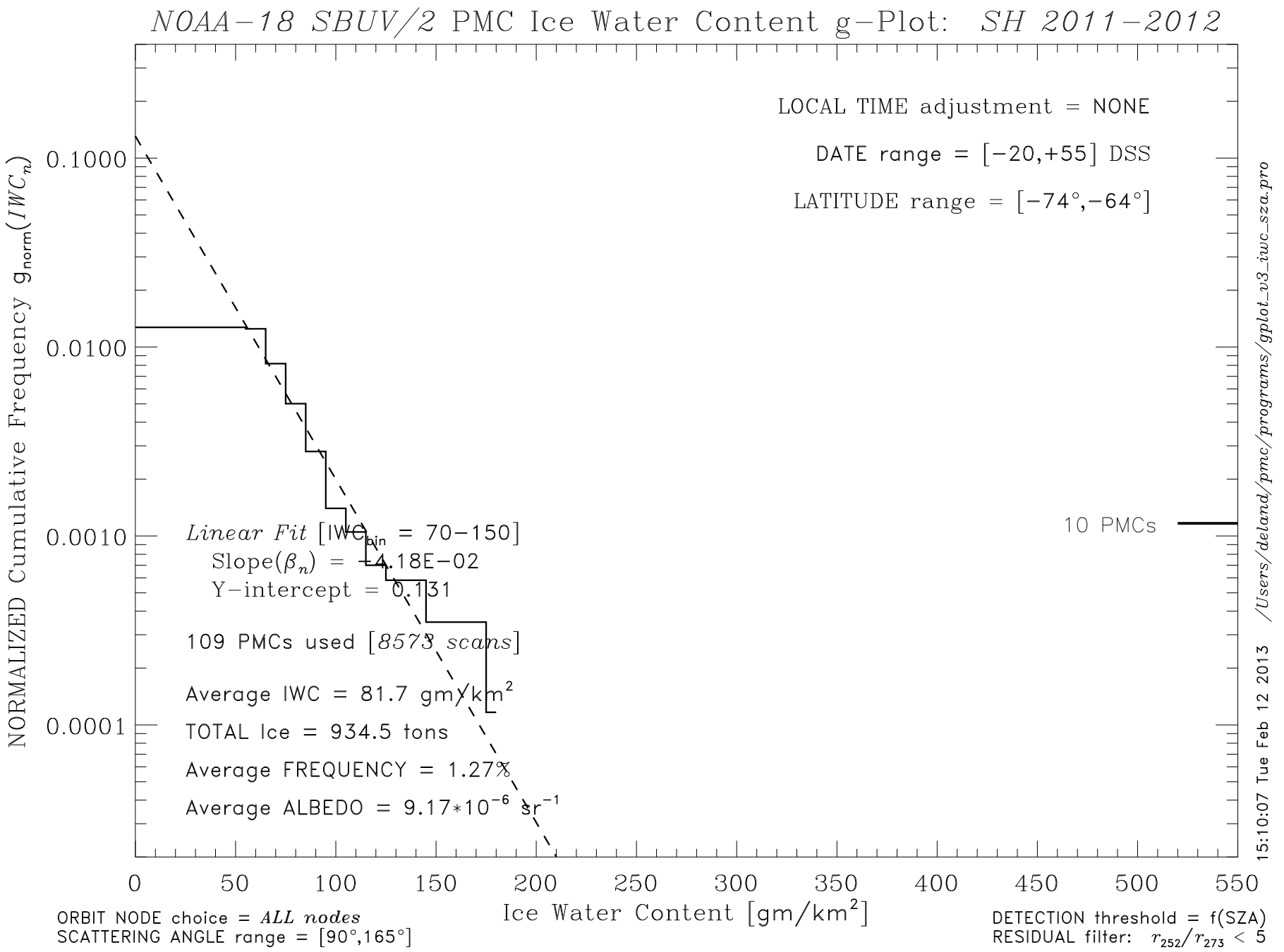

NOAA−18 SBUV/2 PMC Ice Water Content g−Plot: SH 2006−2007
LOCAL TIME adjustment = NONE
DATE range = [−20,+55] DSS
LATITUDE range = [−74°,−64°]
NORMALIZED Cumulative Frequency $g_{norm}(IWC_n)$
0.1000
0.0100
0.0010
0.0001
Linear Fit [IWC$_{bin}$ = 60−210]
Slope(β_n) = −2.77E−02
Y−intercept = 0.129
244 PMCs used [8440 scans]
Average IWC = 92.2 gm/km^2
TOTAL Ice = 977.7 tons
Average FREQUENCY = 2.89%
Average ALBEDO = 10.15∗10^{-6} sr^{-1}
10 PMCs
0
50
100
150
200
250
300
350
400
450
500
550
Ice Water Content [gm/km^2]
15:10:03 Tue Feb 12 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: $r_{252}/r_{273} < 5$

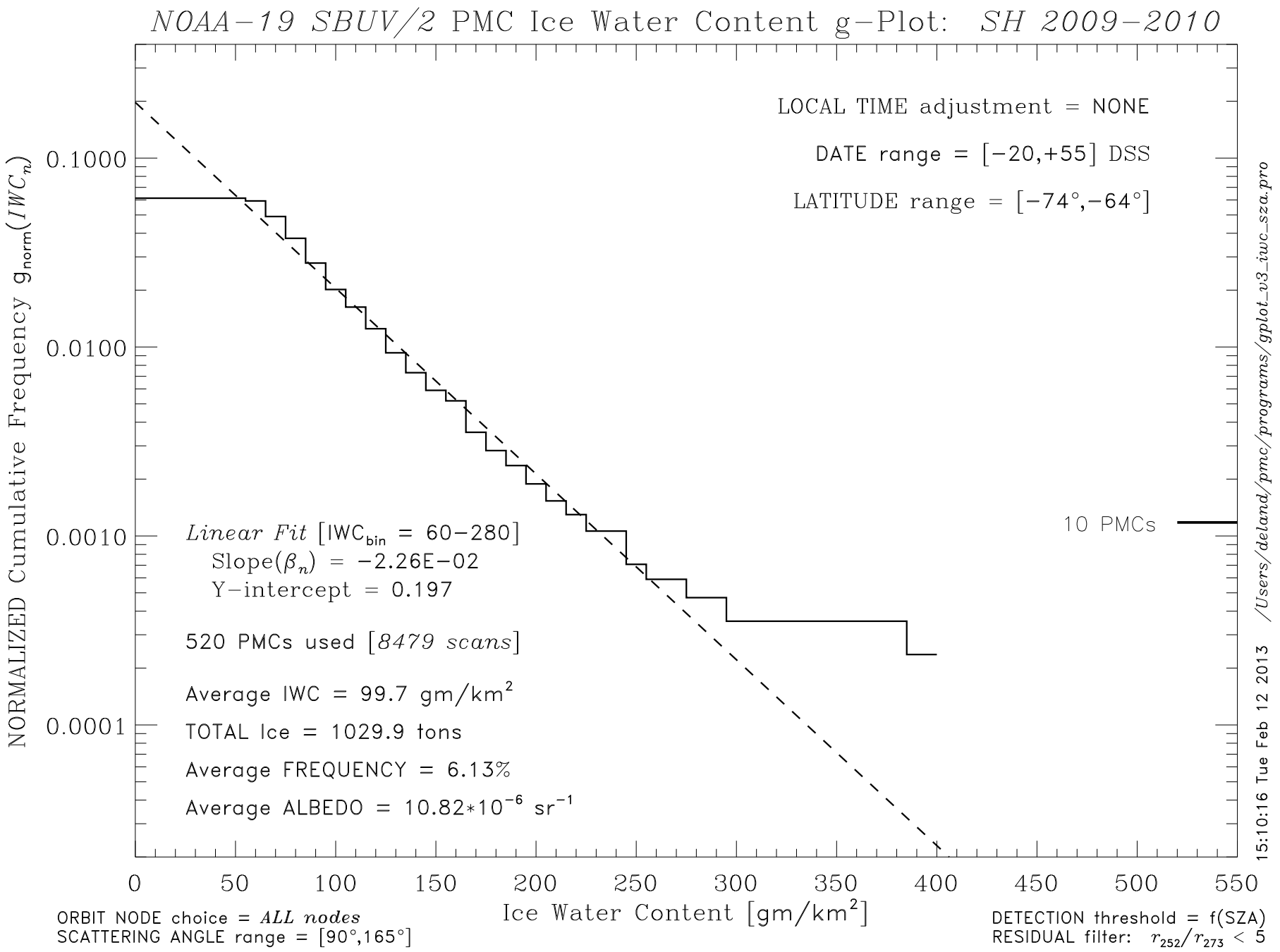

NOAA−18 SBUV/2 PMC Ice Water Content g−Plot: SH 2007−2008
LOCAL TIME adjustment = NONE
DATE range = [−20,+55] DSS
LATITUDE range = [−74°,−64°]
NORMALIZED Cumulative Frequency $g_{norm}(IWC_n)$
0.1000
0.0100
0.0010
0.0001
Linear Fit [IWC$_{bin}$ = 60−180]
Slope(β_n) = −3.28E−02
Y−intercept = 0.151
212 PMCs used [8460 scans]
Average IWC = 86.8 gm/km^2
TOTAL Ice = 997.1 tons
Average FREQUENCY = 2.51%
Average ALBEDO = 8.94∗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: $r_{252}/r_{273} < 5$
15:10:04 Tue Feb 12 2013 /Users/deland/pmc/programs/gplot_v3_iwc_sza.pro

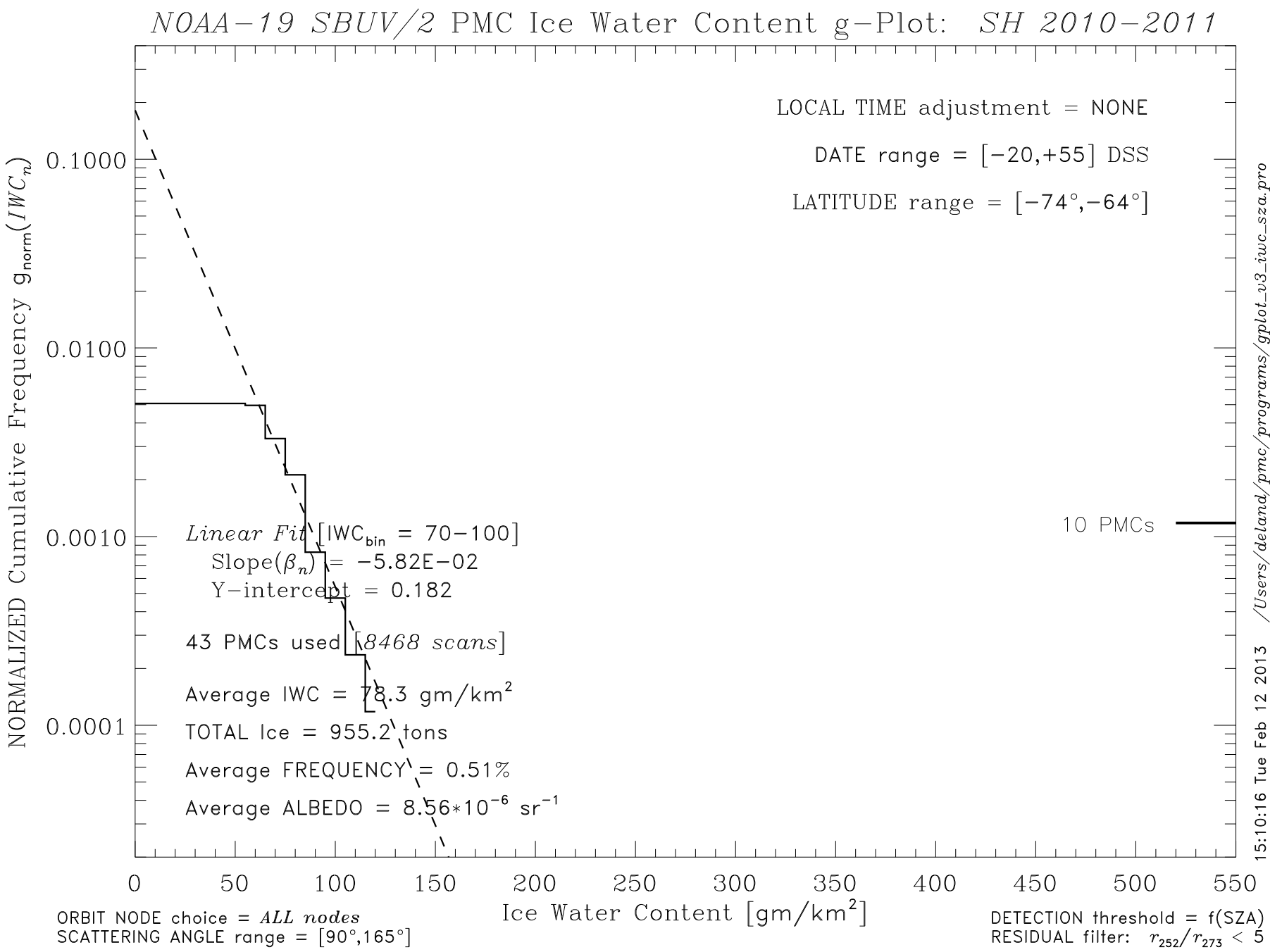

NOAA−18 SBUV/2 PMC Ice Water Content g−Plot: SH 2008−2009
LOCAL TIME adjustment = NONE
DATE range = [−20,+55] DSS
LATITUDE range = [−74°,−64°]
NORMALIZED Cumulative Frequency $g_{norm}(IWC_n)$
0.1000
0.0100
0.0010
0.0001
Linear Fit [IWC$_{bin}$ = 60−170]
Slope(β_n) = −3.40E−02
Y−intercept = 0.142
184 PMCs used [8367 scans]
Average IWC = 86.6 gm/km^2
TOTAL Ice = 987.4 tons
Average FREQUENCY = 2.20%
Average ALBEDO = 9.11∗10^{-6} sr^{-1}
10 PMCs
0
50
100
150
200
250
300
350
400
450
500
550
Ice Water Content [gm/km^2]
ORBIT NODE choice = ALL nodes
SCATTERING ANGLE range = [90°,165°]
DETECTION threshold = f(SZA)
RESIDUAL filter: $r_{252}/r_{273} < 5$
15:10:05 Tue Feb 12 2013 /Users/deland/pmc/programs/gplot_v3_iwc_sza.pro

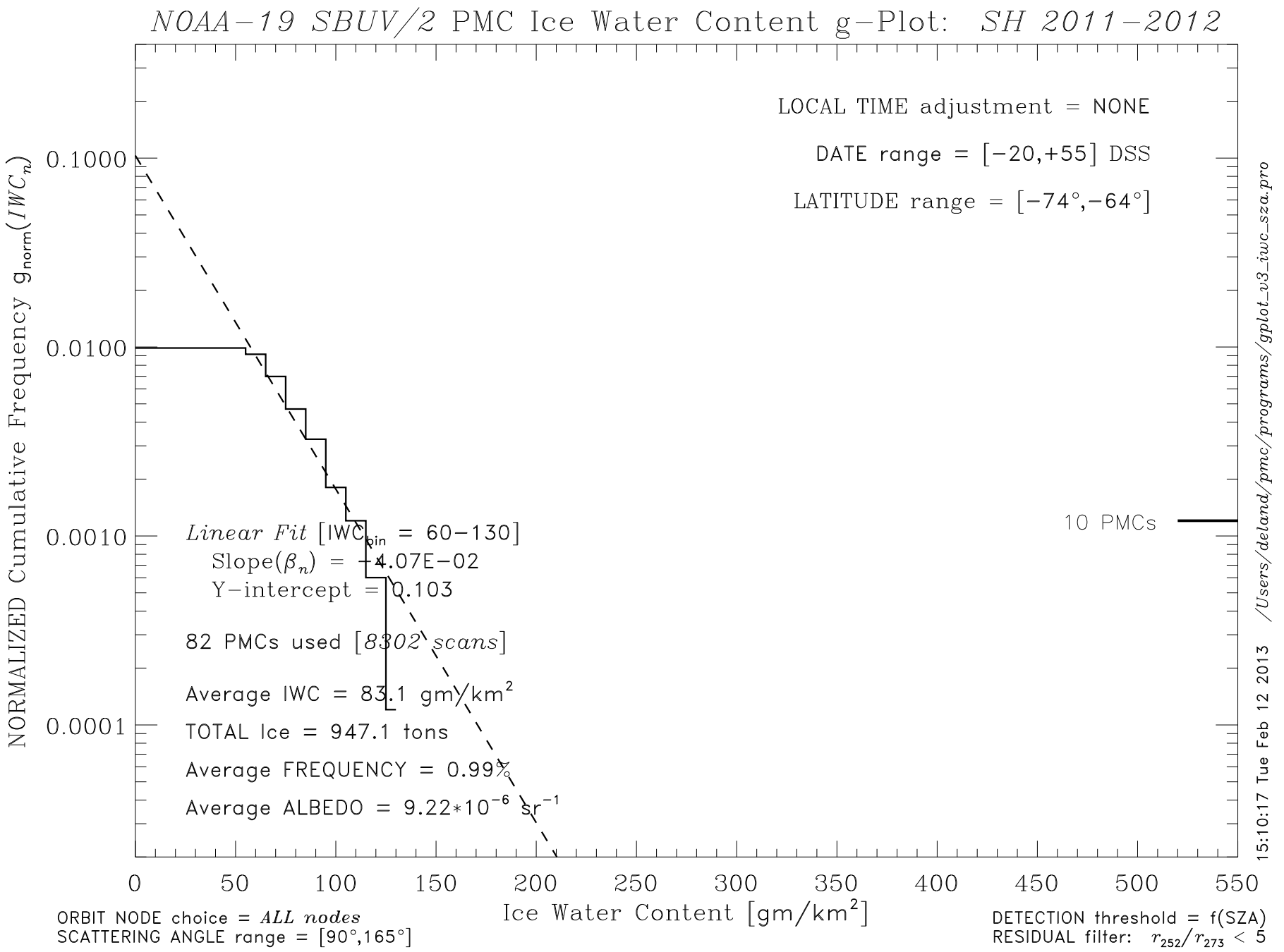

NOAA−18 SBUV/2 PMC Ice Water Content g−Plot: SH 2009−2010
LOCAL TIME adjustment = NONE
DATE range = [−20,+55] DSS
LATITUDE range = [−74°,−64°]
NORMALIZED Cumulative Frequency $g_{norm}(IWC_n)$
0.1000
0.0100
0.0010
0.0001
Linear Fit [IWC_bin = 60−270]
Slope(β_n) = −2.37E−02
Y−intercept = 0.234
533 PMCs used [8951 scans]
Average IWC = 101.3 gm/km^2
TOTAL Ice = 1028.2 tons
Average FREQUENCY = 5.95%
Average ALBEDO = 10.96∗10^{-6} sr^{-1}
10 PMCs
0
50
100
150
200
250
300
350
400
450
500
550
Ice Water Content [gm/km^2]
15:10:05 Tue Feb 12 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 = NONE
DATE range = [−20,+55] DSS
LATITUDE range = [−74°,−64°]
NORMALIZED Cumulative Frequency $g_{norm}(IWC_n)$
0.1000
0.0100
0.0010
0.0001
Linear Fit [IWC_{bin} = 70−120]
Slope(β_n) = −4.85E−02
Y−intercept = 0.122
61 PMCs used [8586 scans]
Average IWC = 79.2 gm/km^2
TOTAL Ice = 938.4 tons
Average FREQUENCY = 0.71%
Average ALBEDO = 8.83*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: $r_{252}/r_{273} < 5$
15:10:06 Tue Feb 12 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 = NONE
DATE range = [−20,+55] DSS
LATITUDE range = [−74°,−64°]
NORMALIZED Cumulative Frequency $g_{norm}(IWC_n)$
0.1000
0.0100
0.0010
0.0001
Linear Fit [IWC_{bin} = 70−150]
Slope(β_n) = −4.18E−02
Y−intercept = 0.131
109 PMCs used [8573 scans]
Average IWC = 81.7 gm/km^2
TOTAL Ice = 934.5 tons
Average FREQUENCY = 1.27%
Average ALBEDO = 9.17∗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: $r_{252}/r_{273} < 5$
15:10:07 Tue Feb 12 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 = NONE
DATE range = [−20,+55] DSS
LATITUDE range = [−74°,−64°]
NORMALIZED Cumulative Frequency $g_{norm}(IWC_n)$
0.1000
0.0100
0.0010
0.0001
Linear Fit [IWC$_{bin}$ = 60−280]
Slope(β_n) = −2.26E−02
Y−intercept = 0.197
520 PMCs used [8479 scans]
Average IWC = 99.7 gm/km^2
TOTAL Ice = 1029.9 tons
Average FREQUENCY = 6.13%
Average ALBEDO = 10.82∗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: $r_{252}/r_{273} < 5$
15:10:16 Tue Feb 12 2013 /Users/deland/pmc/programs/gplot_v3_iwc_sza.pro


NOAA−19 SBUV/2 PMC Ice Water Content g−Plot: SH 2010−2011
LOCAL TIME adjustment = NONE
DATE range = [−20,+55] DSS
LATITUDE range = [−74°,−64°]
NORMALIZED Cumulative Frequency $g_{norm}(IWC_n)$
0.1000
0.0100
0.0010
0.0001
Linear Fit [IWC$_{bin}$ = 70−100]
Slope(β_n) = −5.82E−02
Y−intercept = 0.182
43 PMCs used [8468 scans]
Average IWC = 78.3 gm/km^2
TOTAL Ice = 955.2 tons
Average FREQUENCY = 0.51%
Average ALBEDO = 8.56∗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: $r_{252}/r_{273} < 5$
15:10:16 Tue Feb 12 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 = NONE
DATE range = [−20,+55] DSS
LATITUDE range = [−74°,−64°]
NORMALIZED Cumulative Frequency $g_{norm}(IWC_n)$
0.1000
0.0100
0.0010
0.0001
Linear Fit [IWC_{bin} = 60−130]
Slope(β_n) = −4.07E−02
Y−intercept = 0.103
82 PMCs used [8302 scans]
Average IWC = 83.1 gm/km^2
TOTAL Ice = 947.1 tons
Average FREQUENCY = 0.99%
Average ALBEDO = 9.22∗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: $r_{252}/r_{273} < 5$
15:10:17 Tue Feb 12 2013 /Users/deland/pmc/programs/gplot_v3_iwc_sza.pro