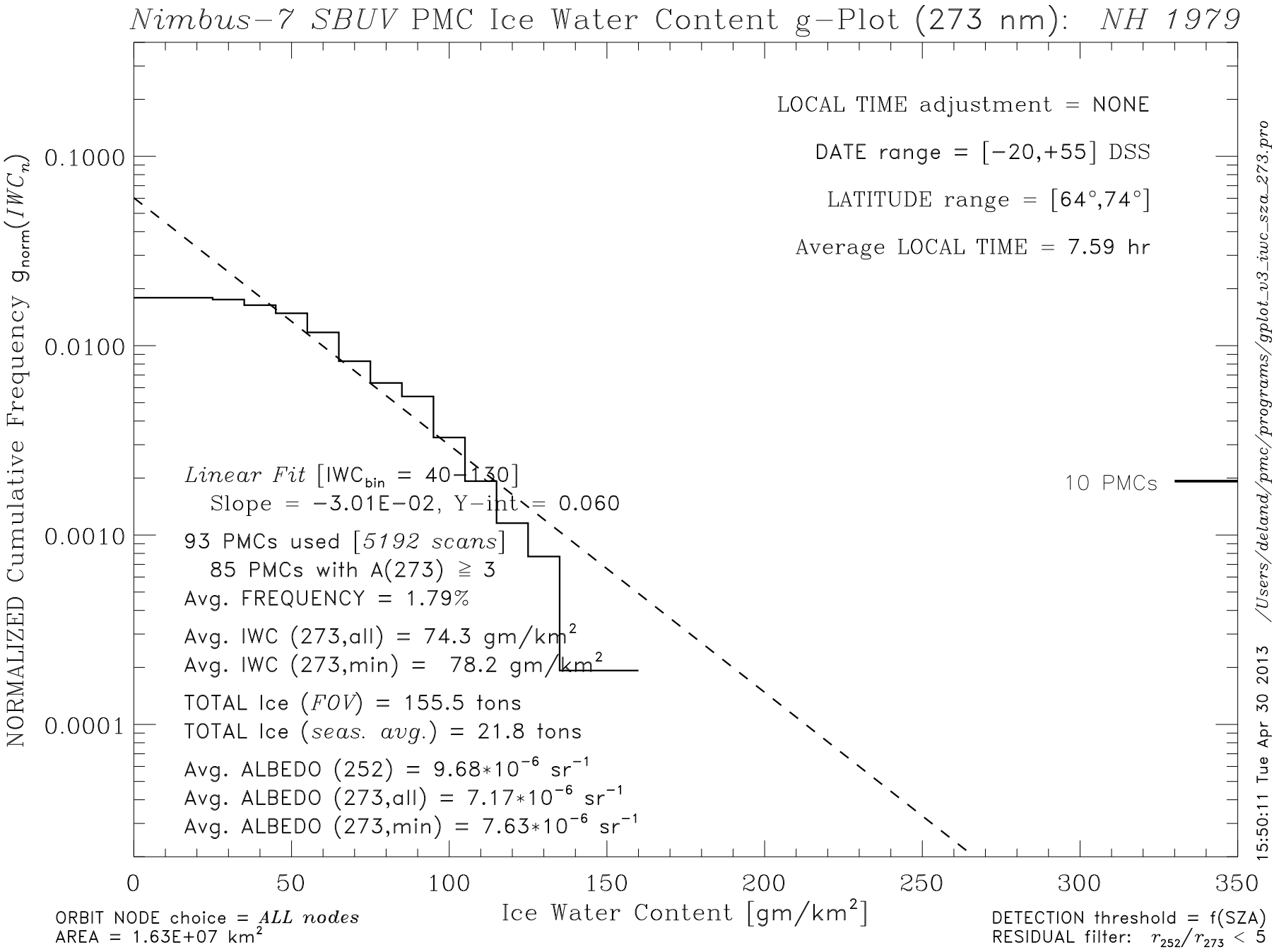
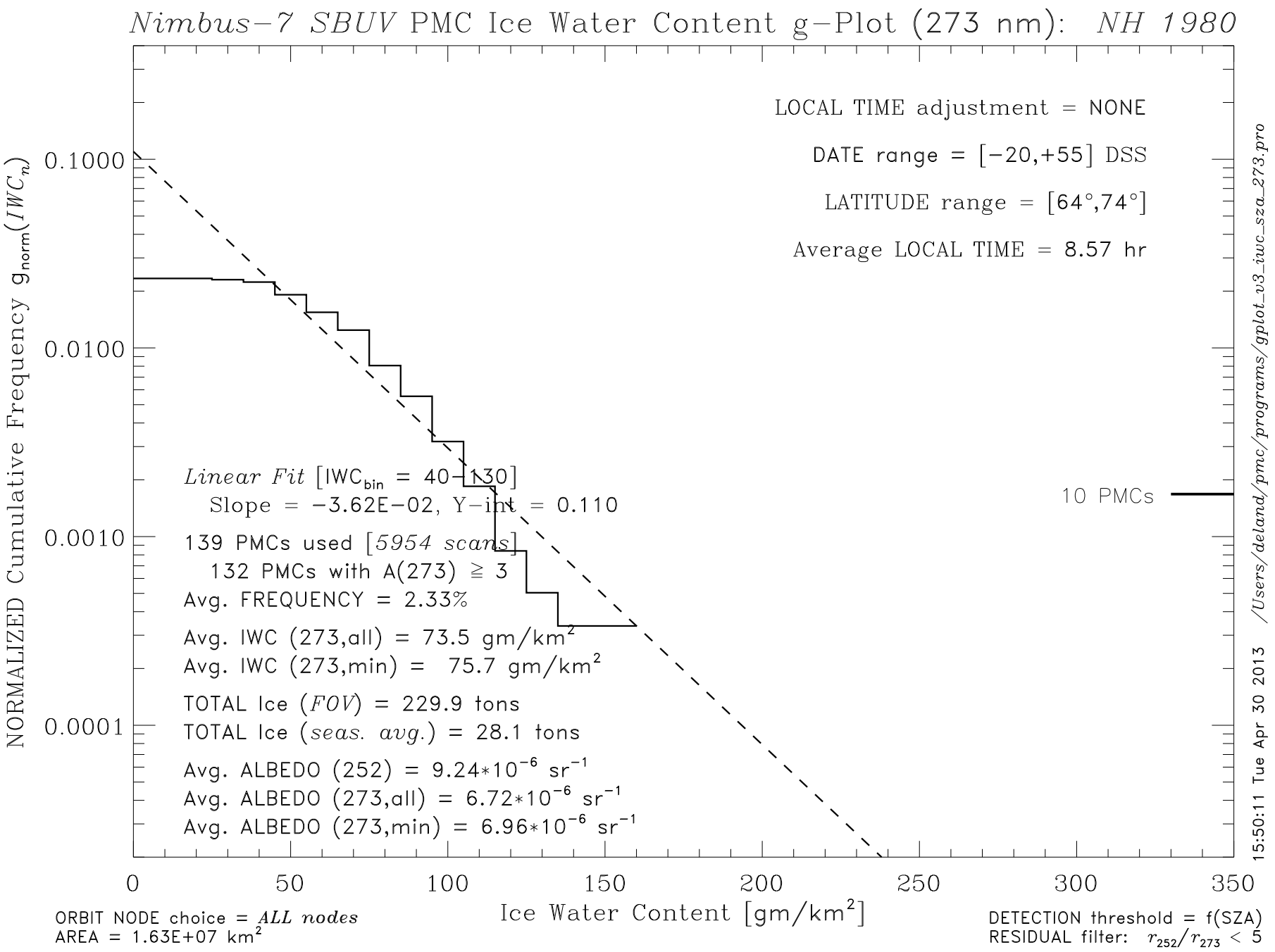
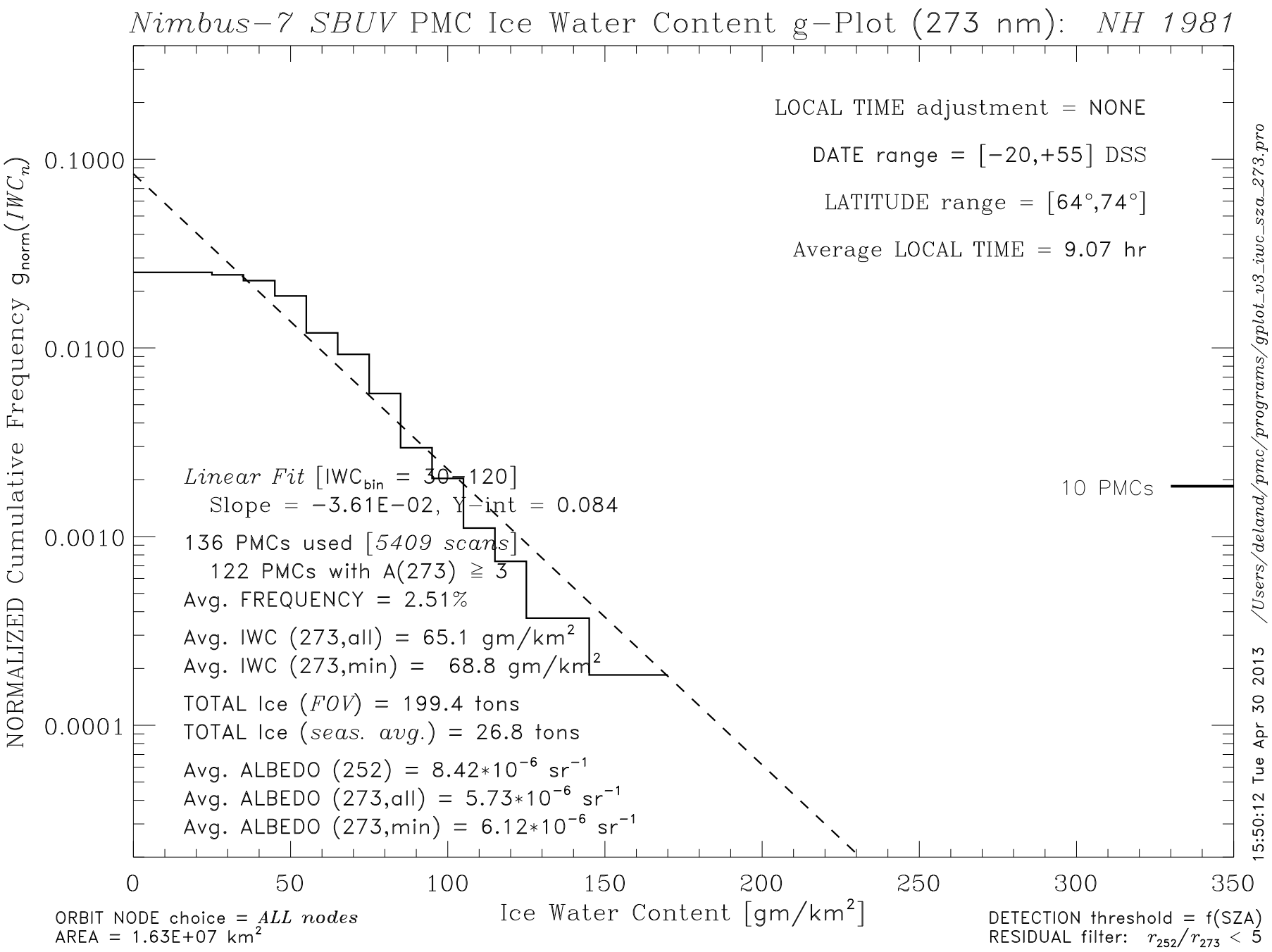
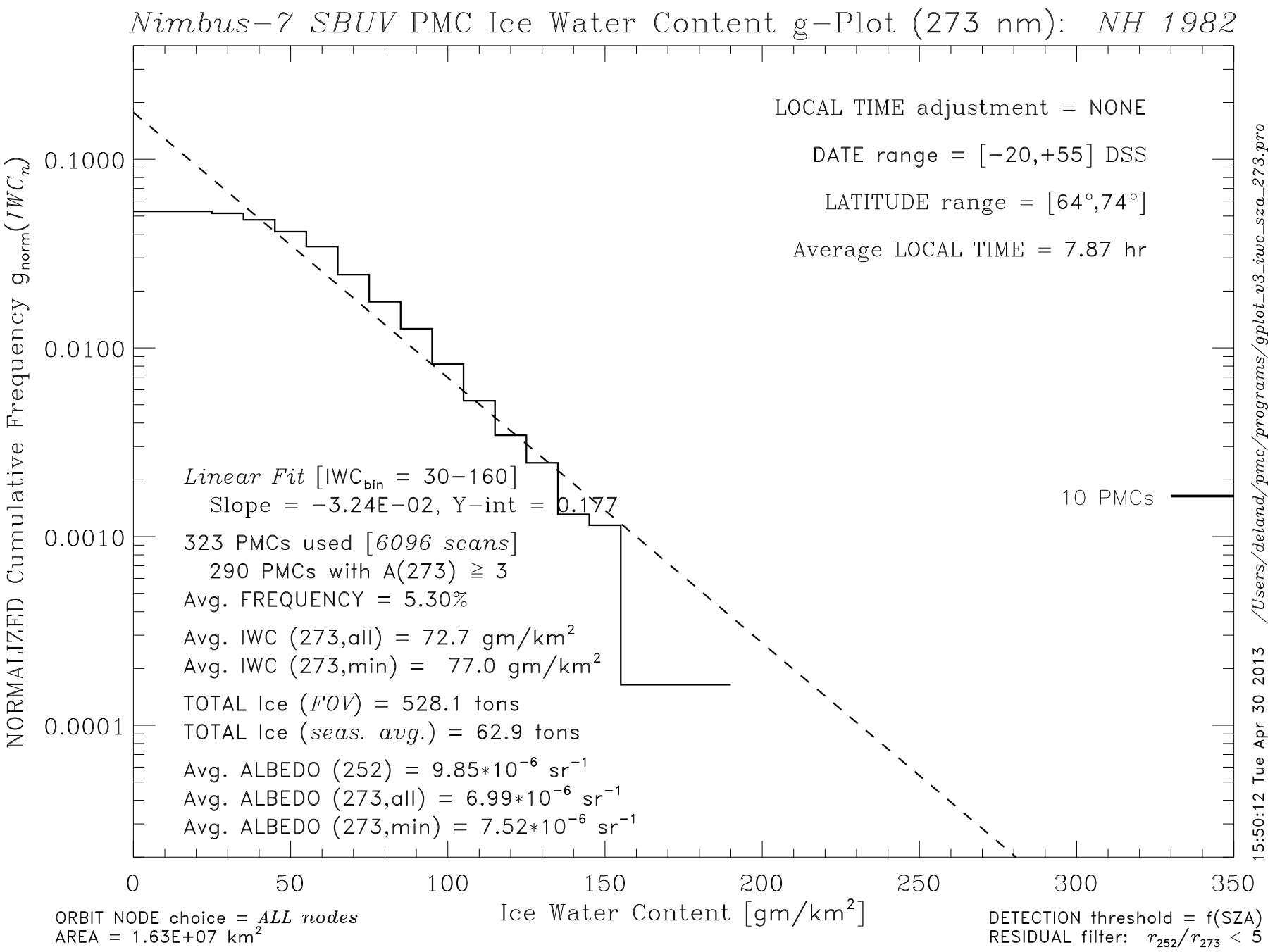
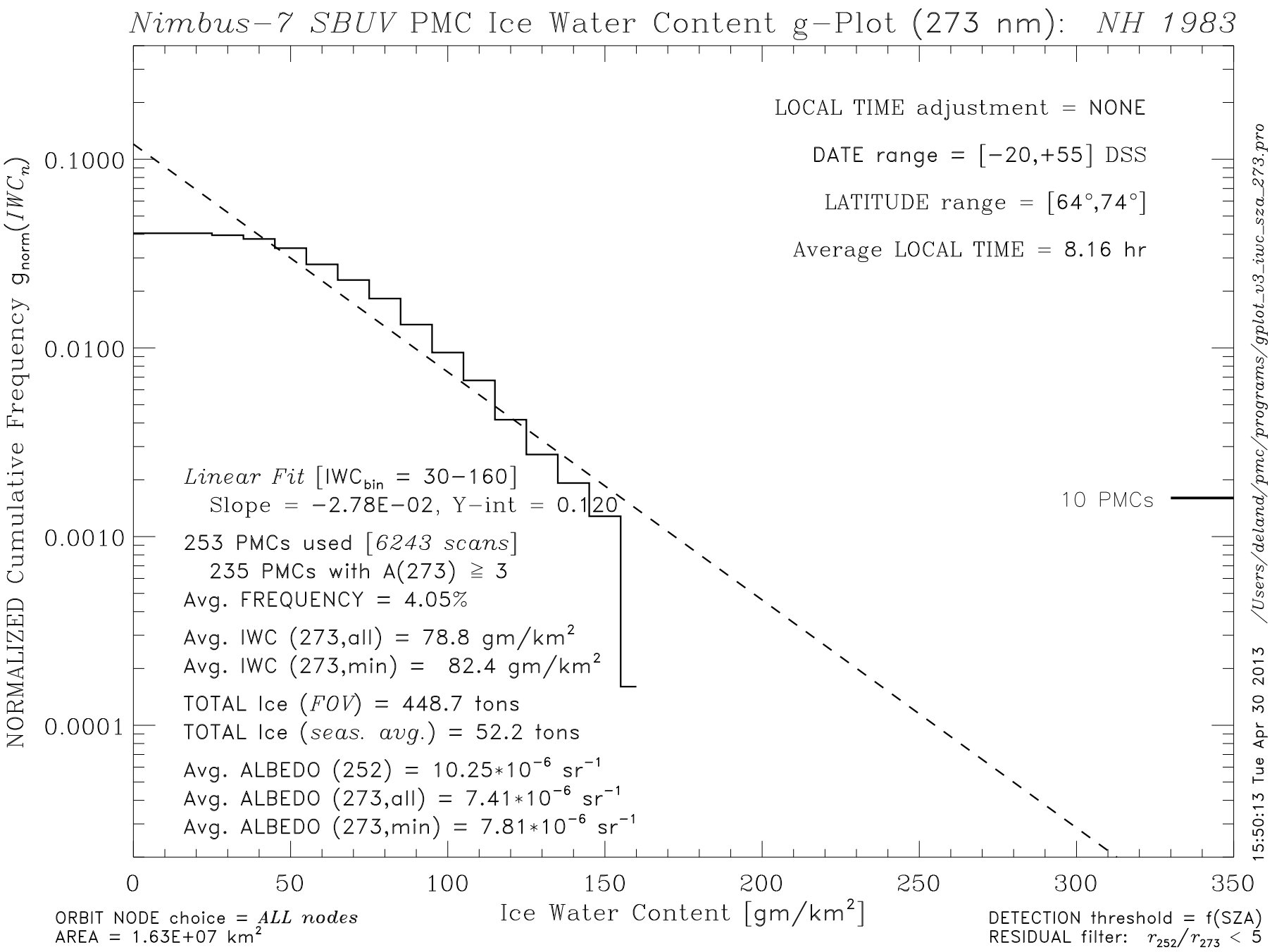
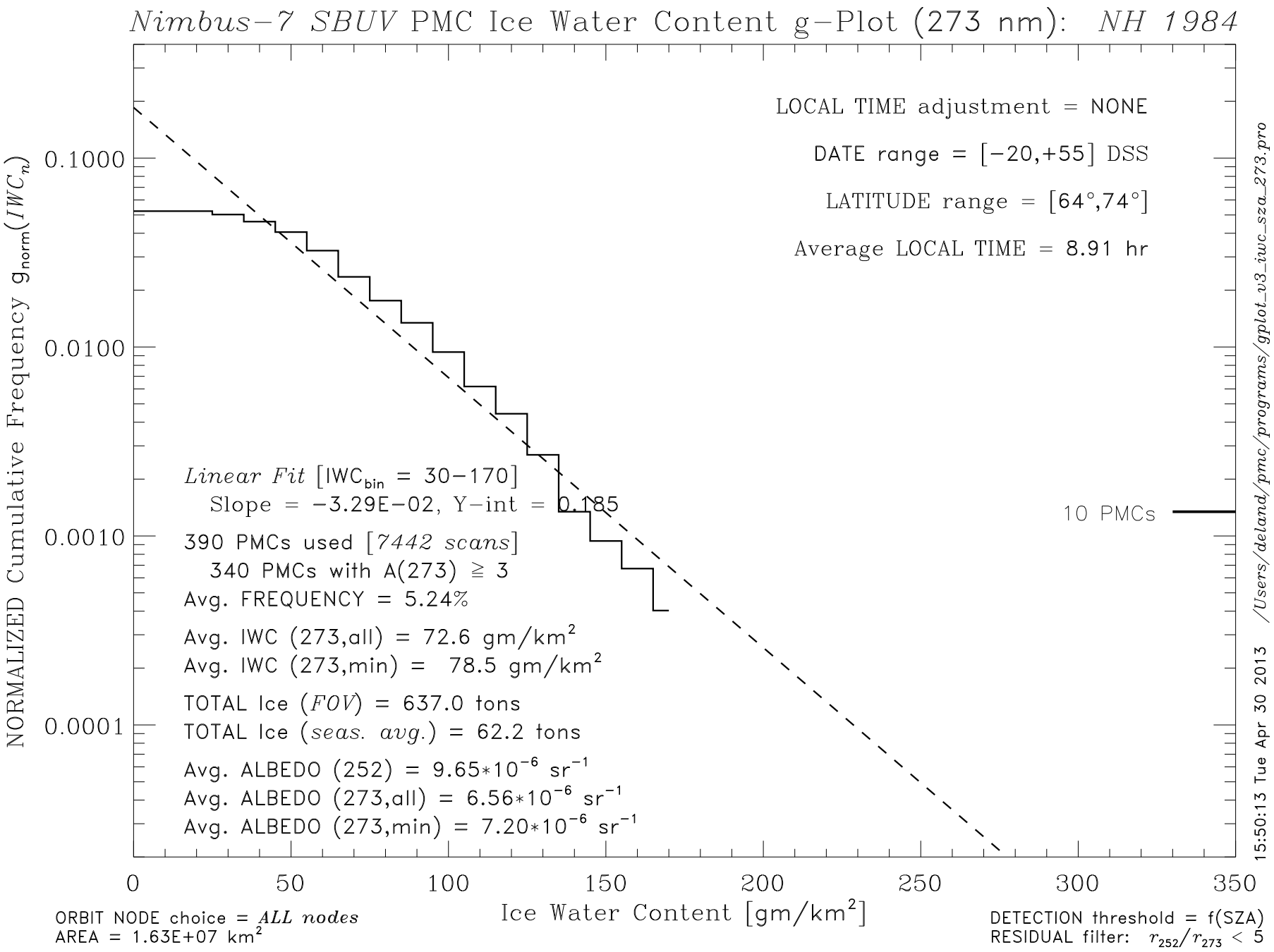

Nimbus-7 SBUV PMC Ice Water Content g-Plot (273 nm): NH 1979
LOCAL TIME adjustment = NONE
DATE range = [-20,+55] DSS
LATITUDE range = [64°,74°]
Average LOCAL TIME = 7.59 hr
NORMALIZED Cumulative Frequency $g_{norm}(IWC_n)$
0.1000
0.0100
0.0010
0.0001
Linear Fit [IWC_{bin} = 40-130]
Slope = -3.01E-02, Y-int = 0.060
93 PMCs used [5192 scans]
85 PMCs with A(273) ≧ 3
Avg. FREQUENCY = 1.79%
Avg. IWC (273,all) = 74.3 gm/km^2
Avg. IWC (273,min) = 78.2 gm/km^2
TOTAL Ice (FOV) = 155.5 tons
TOTAL Ice (seas. avg.) = 21.8 tons
Avg. ALBEDO (252) = 9.68*10^{-6} sr^{-1}
Avg. ALBEDO (273,all) = 7.17*10^{-6} sr^{-1}
Avg. ALBEDO (273,min) = 7.63*10^{-6} sr^{-1}
10 PMCs
0
50
100
150
200
250
300
350
Ice Water Content [gm/km^2]
ORBIT NODE choice = ALL nodes
AREA = 1.63E+07 km^2
DETECTION threshold = f(SZA)
RESIDUAL filter: $r_{252}/r_{273} < 5$
15:50:11 Tue Apr 30 2013 /Users/deland/pmc/programs/gplot_v3_iwc_sza_273.pro

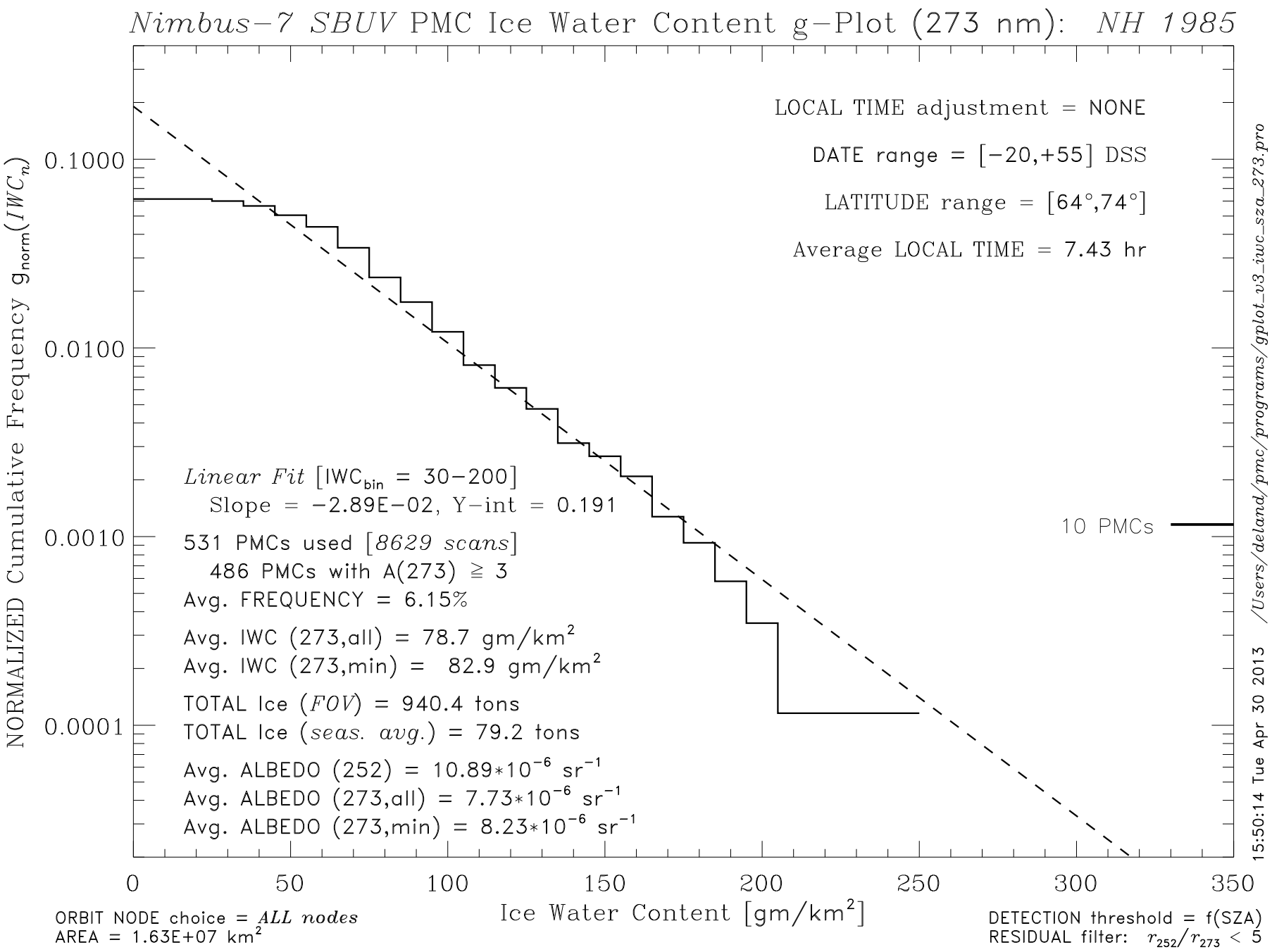

Nimbus-7 SBUV PMC Ice Water Content g-Plot (273 nm): NH 1980
LOCAL TIME adjustment = NONE
DATE range = [-20,+55] DSS
LATITUDE range = [64°,74°]
Average LOCAL TIME = 8.57 hr
NORMALIZED Cumulative Frequency $g_{norm}(IWC_n)$
0.1000
0.0100
0.0010
0.0001
Linear Fit [IWC$_{bin}$ = 40-130]
Slope = -3.62E-02, Y-int = 0.110
139 PMCs used [5954 scans]
132 PMCs with A(273) ≧ 3
Avg. FREQUENCY = 2.33%
Avg. IWC (273,all) = 73.5 gm/km^2
Avg. IWC (273,min) = 75.7 gm/km^2
TOTAL Ice (FOV) = 229.9 tons
TOTAL Ice (seas. avg.) = 28.1 tons
Avg. ALBEDO (252) = 9.24*10^{-6} sr^{-1}
Avg. ALBEDO (273,all) = 6.72*10^{-6} sr^{-1}
Avg. ALBEDO (273,min) = 6.96*10^{-6} sr^{-1}
10 PMCs
0
50
100
150
200
250
300
350
Ice Water Content [gm/km^2]
15:50:11 Tue Apr 30 2013 /Users/deland/pmc/programs/gplot_v3_iwc_sza_273.pro
ORBIT NODE choice = ALL nodes
AREA = 1.63E+07 km^2
DETECTION threshold = f(SZA)
RESIDUAL filter: $r_{252}/r_{273} < 5$

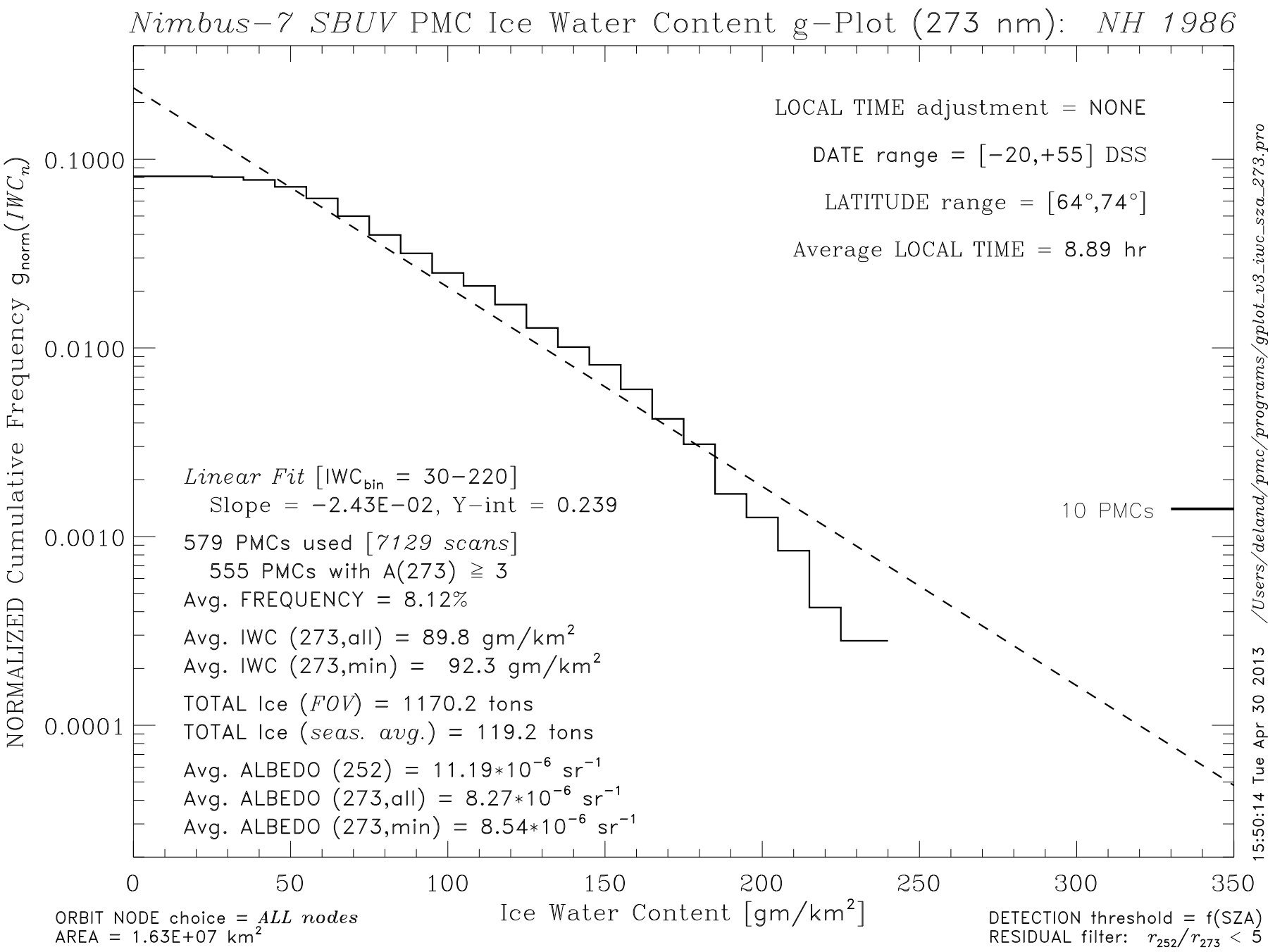

Nimbus-7 SBUV PMC Ice Water Content g-Plot (273 nm): NH 1981
LOCAL TIME adjustment = NONE
DATE range = [-20,+55] DSS
LATITUDE range = [64°,74°]
Average LOCAL TIME = 9.07 hr
NORMALIZED Cumulative Frequency $g_{norm}(IWC_n)$
0.1000
0.0100
0.0010
0.0001
Linear Fit [IWC_{bin} = 30-120]
Slope = -3.61E-02, Y-int = 0.084
136 PMCs used [5409 scans]
122 PMCs with A(273) ≧ 3
Avg. FREQUENCY = 2.51%
Avg. IWC (273,all) = 65.1 gm/km^2
Avg. IWC (273,min) = 68.8 gm/km^2
TOTAL Ice (FOV) = 199.4 tons
TOTAL Ice (seas. avg.) = 26.8 tons
Avg. ALBEDO (252) = 8.42*10^{-6} sr^{-1}
Avg. ALBEDO (273,all) = 5.73*10^{-6} sr^{-1}
Avg. ALBEDO (273,min) = 6.12*10^{-6} sr^{-1}
10 PMCs
0
50
100
150
200
250
300
350
Ice Water Content [gm/km^2]
ORBIT NODE choice = ALL nodes
AREA = 1.63E+07 km^2
DETECTION threshold = f(SZA)
RESIDUAL filter: $r_{252}/r_{273} < 5$
15:50:12 Tue Apr 30 2013 /Users/deland/pmc/programs/gplot_v3_iwc_sza_273.pro

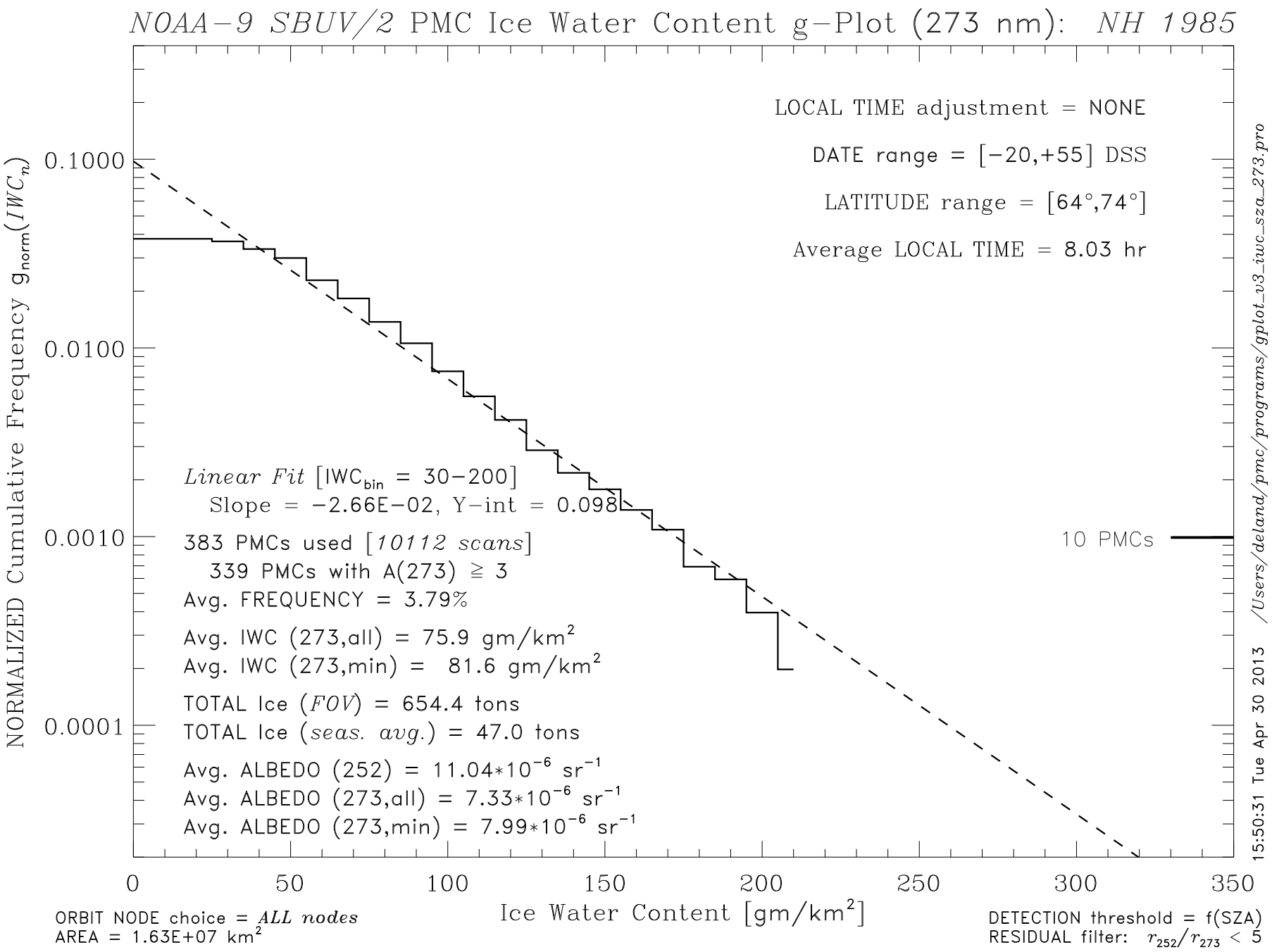

Nimbus-7 SBUV PMC Ice Water Content g-Plot (273 nm): NH 1982
LOCAL TIME adjustment = NONE
DATE range = [-20,+55] DSS
LATITUDE range = [64°,74°]
Average LOCAL TIME = 7.87 hr
Linear Fit [IWC_bin = 30-160]
Slope = -3.24E-02, Y-int = 0.177
323 PMCs used [6096 scans]
290 PMCs with A(273) ≧ 3
Avg. FREQUENCY = 5.30%
Avg. IWC (273,all) = 72.7 gm/km²
Avg. IWC (273,min) = 77.0 gm/km²
TOTAL Ice (FOV) = 528.1 tons
TOTAL Ice (seas. avg.) = 62.9 tons
Avg. ALBEDO (252) = 9.85*10⁻⁶ sr⁻¹
Avg. ALBEDO (273,all) = 6.99*10⁻⁶ sr⁻¹
Avg. ALBEDO (273,min) = 7.52*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
Ice Water Content [gm/km²]
ORBIT NODE choice = ALL nodes
AREA = 1.63E+07 km²
DETECTION threshold = f(SZA)
RESIDUAL filter: r252/r273 < 5
15:50:12 Tue Apr 30 2013 /Users/deland/pmc/programs/gplot_v3_iwc_sza_273.pro

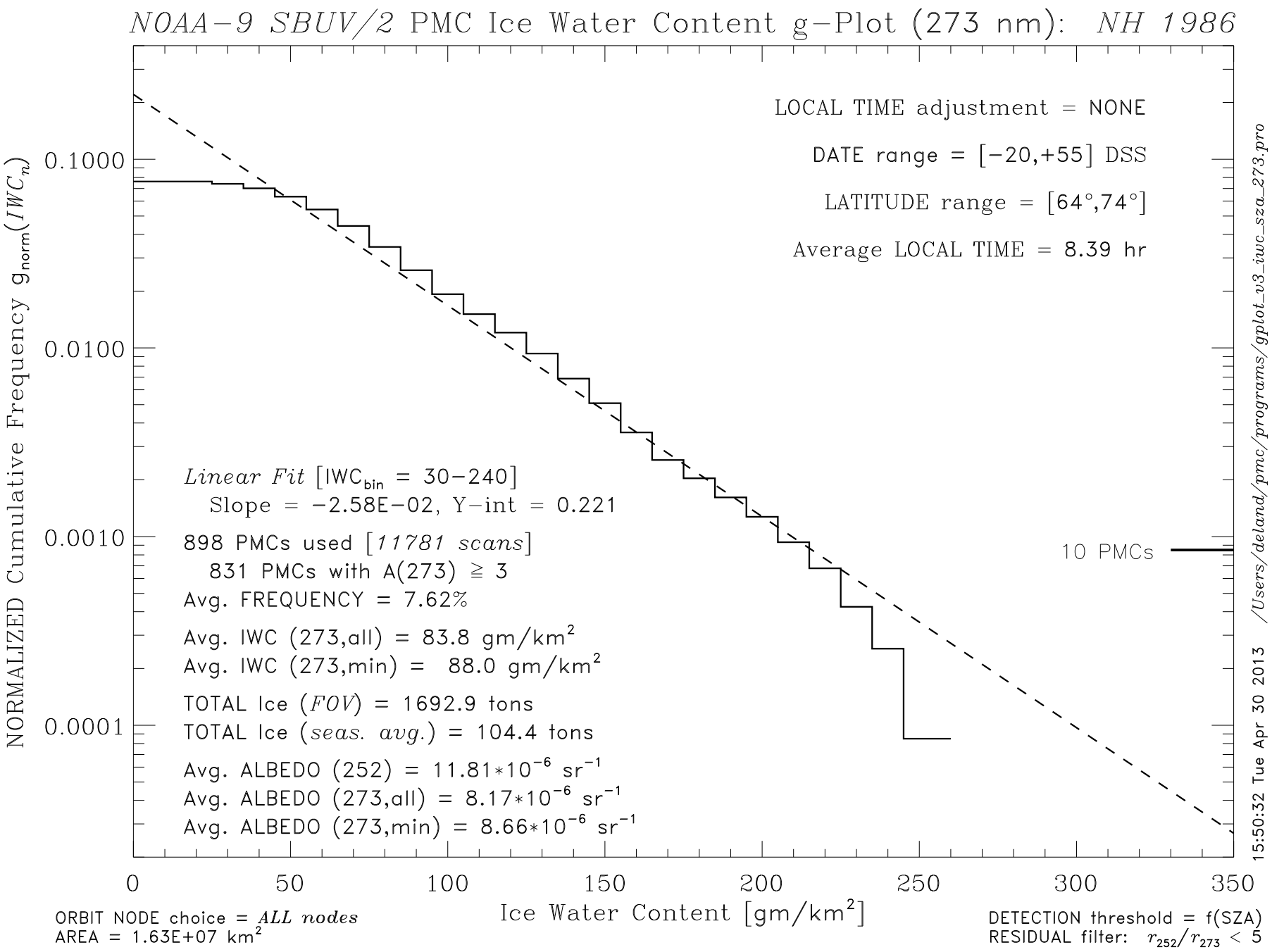

Nimbus-7 SBUV PMC Ice Water Content g-Plot (273 nm): NH 1983
LOCAL TIME adjustment = NONE
DATE range = [-20,+55] DSS
LATITUDE range = [64°,74°]
Average LOCAL TIME = 8.16 hr
NORMALIZED Cumulative Frequency $g_{norm}(IWC_n)$
0.1000
0.0100
0.0010
0.0001
Linear Fit [IWC_{bin} = 30-160]
Slope = -2.78E-02, Y-int = 0.120
253 PMCs used [6243 scans]
235 PMCs with A(273) ≧ 3
Avg. FREQUENCY = 4.05%
Avg. IWC (273,all) = 78.8 gm/km^2
Avg. IWC (273,min) = 82.4 gm/km^2
TOTAL Ice (FOV) = 448.7 tons
TOTAL Ice (seas. avg.) = 52.2 tons
Avg. ALBEDO (252) = 10.25*10^{-6} sr^{-1}
Avg. ALBEDO (273,all) = 7.41*10^{-6} sr^{-1}
Avg. ALBEDO (273,min) = 7.81*10^{-6} sr^{-1}
10 PMCs
0
50
100
150
200
250
300
350
Ice Water Content [gm/km^2]
15:50:13 Tue Apr 30 2013 /Users/deland/pmc/programs/gplot_v3_iwc_sza_273.pro
ORBIT NODE choice = ALL nodes
AREA = 1.63E+07 km^2
DETECTION threshold = f(SZA)
RESIDUAL filter: $r_{252}/r_{273} < 5$

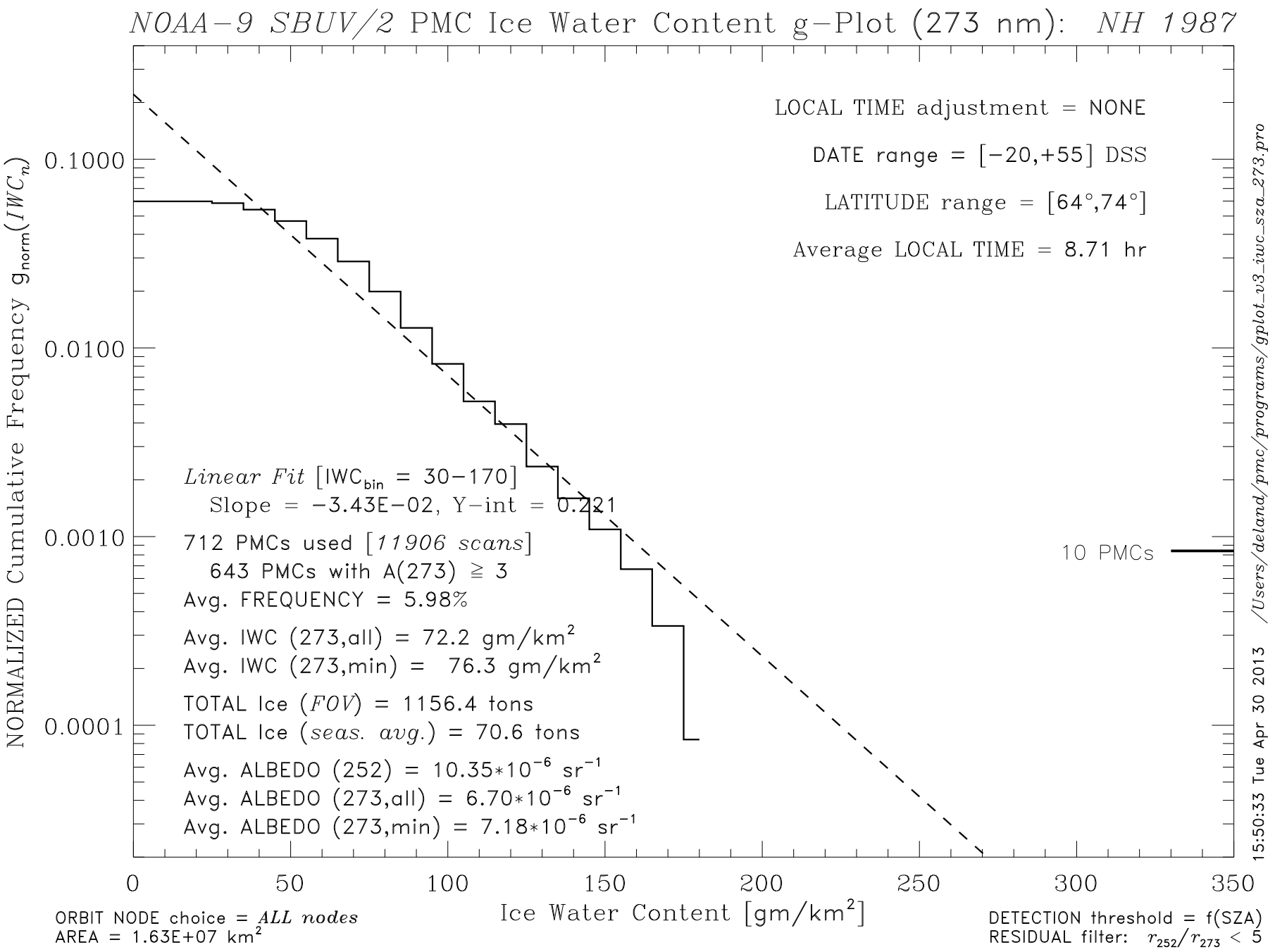

Nimbus-7 SBUV PMC Ice Water Content g-Plot (273 nm): NH 1984
LOCAL TIME adjustment = NONE
DATE range = [-20,+55] DSS
LATITUDE range = [64°,74°]
Average LOCAL TIME = 8.91 hr
Linear Fit [IWC_bin = 30-170]
Slope = -3.29E-02, Y-int = 0.185
390 PMCs used [7442 scans]
340 PMCs with A(273) ≧ 3
Avg. FREQUENCY = 5.24%
Avg. IWC (273,all) = 72.6 gm/km²
Avg. IWC (273,min) = 78.5 gm/km²
TOTAL Ice (FOV) = 637.0 tons
TOTAL Ice (seas. avg.) = 62.2 tons
Avg. ALBEDO (252) = 9.65*10⁻⁶ sr⁻¹
Avg. ALBEDO (273,all) = 6.56*10⁻⁶ sr⁻¹
Avg. ALBEDO (273,min) = 7.20*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
Ice Water Content [gm/km²]
ORBIT NODE choice = ALL nodes
AREA = 1.63E+07 km²
DETECTION threshold = f(SZA)
RESIDUAL filter: r252/r273 < 5
15:50:13 Tue Apr 30 2013 /Users/deland/pmc/programs/gplot_v3_iwc_sza_273.pro

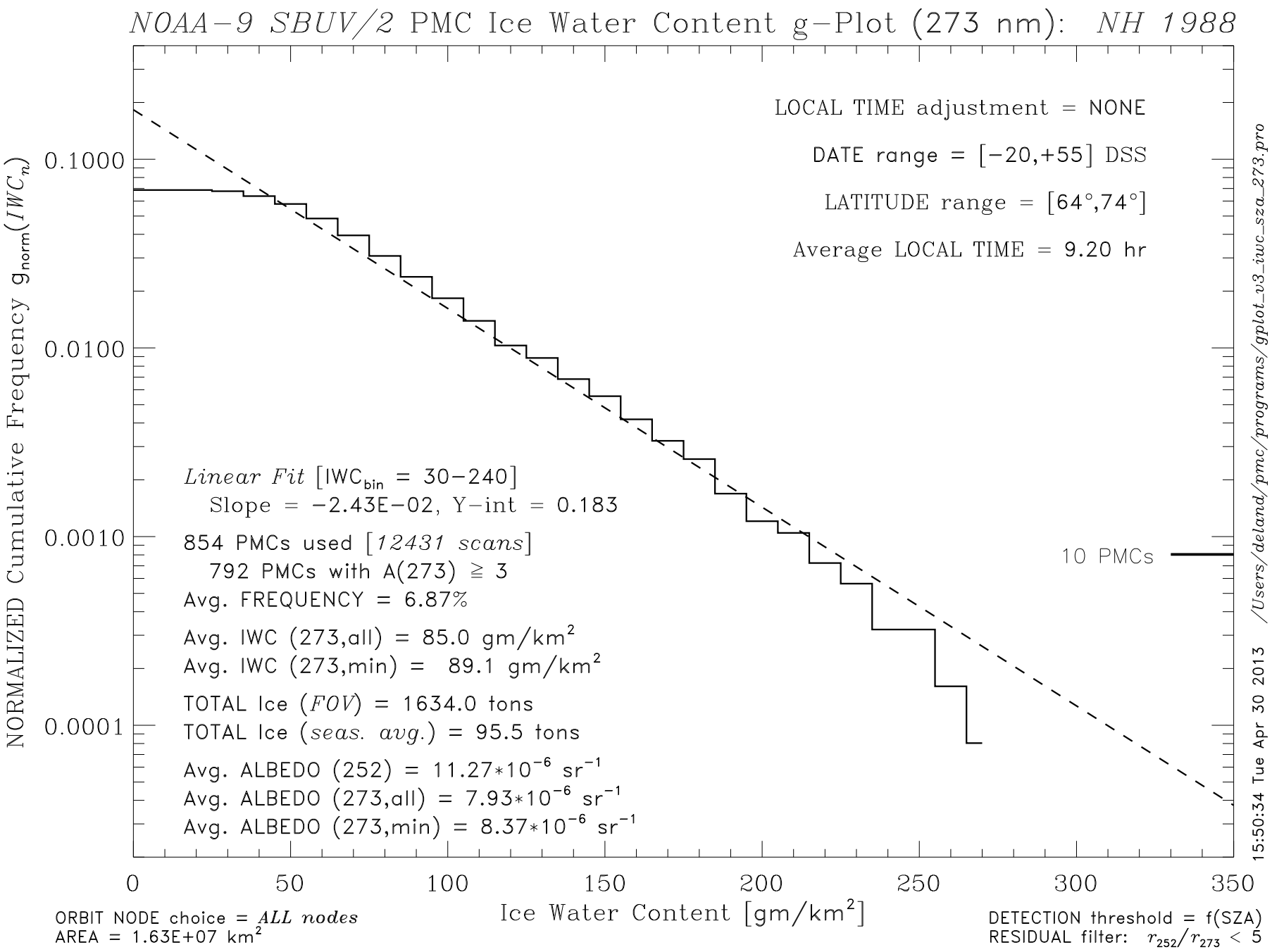

Nimbus-7 SBUV PMC Ice Water Content g-Plot (273 nm): NH 1985
LOCAL TIME adjustment = NONE
DATE range = [-20,+55] DSS
LATITUDE range = [64°,74°]
Average LOCAL TIME = 7.43 hr
Linear Fit [IWC_bin = 30-200]
Slope = -2.89E-02, Y-int = 0.191
531 PMCs used [8629 scans]
486 PMCs with A(273) ≧ 3
Avg. FREQUENCY = 6.15%
Avg. IWC (273,all) = 78.7 gm/km²
Avg. IWC (273,min) = 82.9 gm/km²
TOTAL Ice (FOV) = 940.4 tons
TOTAL Ice (seas. avg.) = 79.2 tons
Avg. ALBEDO (252) = 10.89*10⁻⁶ sr⁻¹
Avg. ALBEDO (273,all) = 7.73*10⁻⁶ sr⁻¹
Avg. ALBEDO (273,min) = 8.23*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
Ice Water Content [gm/km²]
ORBIT NODE choice = ALL nodes
AREA = 1.63E+07 km²
DETECTION threshold = f(SZA)
RESIDUAL filter: r252/r273 < 5
15:50:14 Tue Apr 30 2013 /Users/deland/pmc/programs/gplot_v3_iwc_sza_273.pro

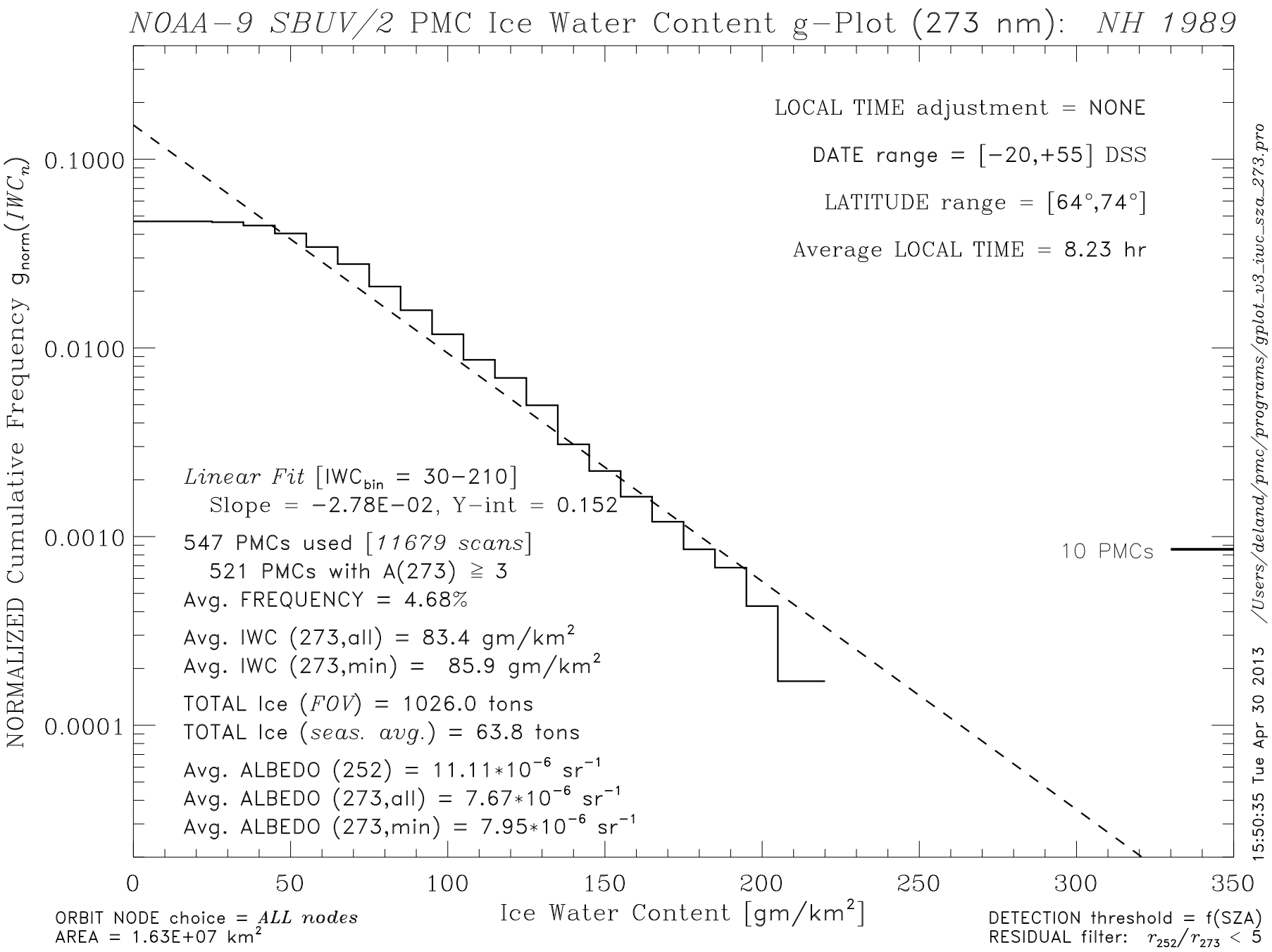

Nimbus-7 SBUV PMC Ice Water Content g-Plot (273 nm): NH 1986
LOCAL TIME adjustment = NONE
DATE range = [-20,+55] DSS
LATITUDE range = [64°,74°]
Average LOCAL TIME = 8.89 hr
Linear Fit [IWC_bin = 30-220]
Slope = -2.43E-02, Y-int = 0.239
579 PMCs used [7129 scans]
555 PMCs with A(273) ≧ 3
Avg. FREQUENCY = 8.12%
Avg. IWC (273,all) = 89.8 gm/km²
Avg. IWC (273,min) = 92.3 gm/km²
TOTAL Ice (FOV) = 1170.2 tons
TOTAL Ice (seas. avg.) = 119.2 tons
Avg. ALBEDO (252) = 11.19*10⁻⁶ sr⁻¹
Avg. ALBEDO (273,all) = 8.27*10⁻⁶ sr⁻¹
Avg. ALBEDO (273,min) = 8.54*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
Ice Water Content [gm/km²]
15:50:14 Tue Apr 30 2013 /Users/deland/pmc/programs/gplot_v3_iwc_sza_273.pro
ORBIT NODE choice = ALL nodes
AREA = 1.63E+07 km²
DETECTION threshold = f(SZA)
RESIDUAL filter: r252/r273 < 5

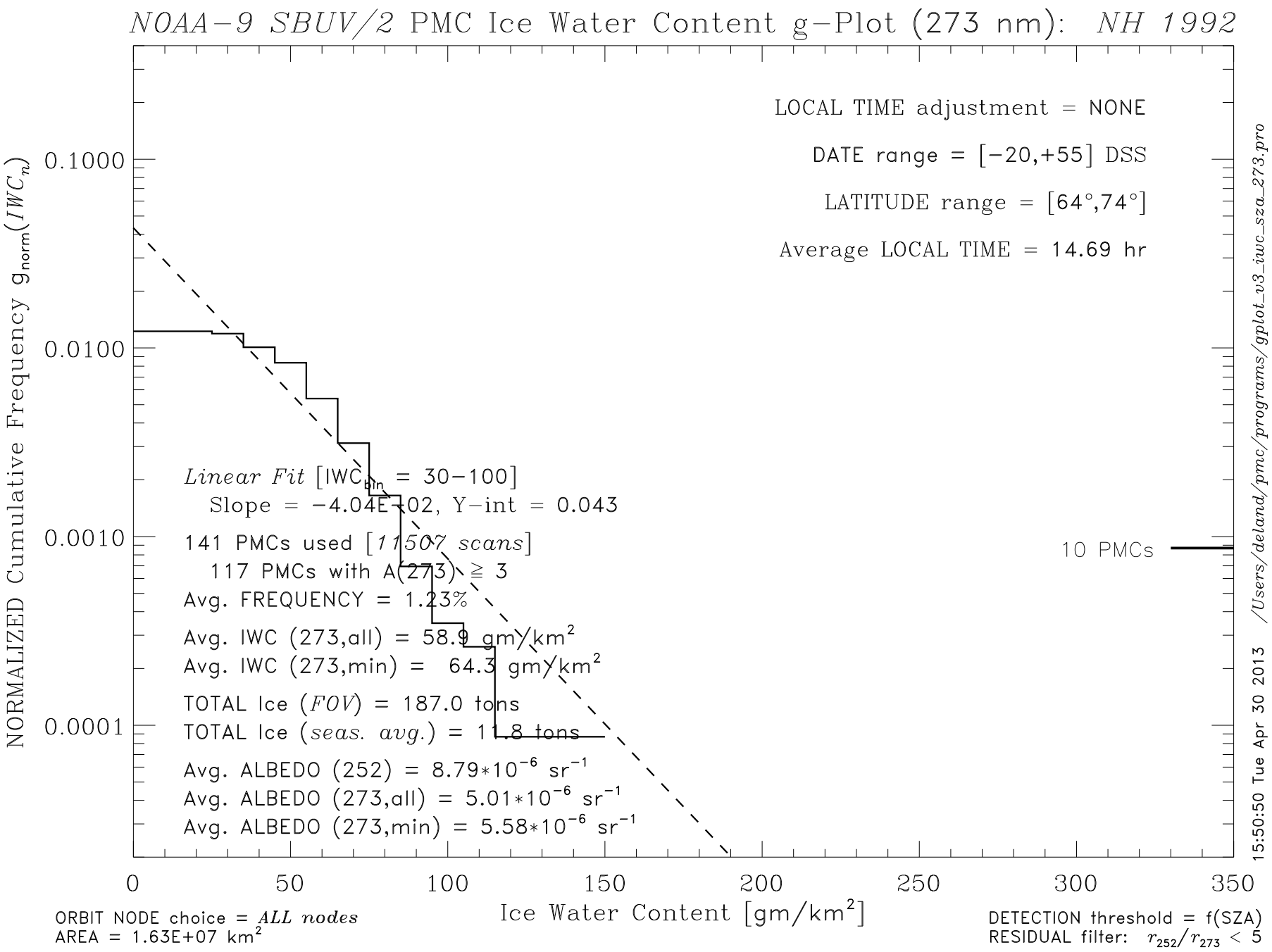

NOAA-9 SBUV/2 PMC Ice Water Content g-Plot (273 nm): NH 1985
LOCAL TIME adjustment = NONE
DATE range = [-20,+55] DSS
LATITUDE range = [64°,74°]
Average LOCAL TIME = 8.03 hr
NORMALIZED Cumulative Frequency $g_{norm}(IWC_n)$
0.1000
0.0100
0.0010
0.0001
Linear Fit [IWC_{bin} = 30-200]
Slope = -2.66E-02, Y-int = 0.098
383 PMCs used [10112 scans]
339 PMCs with A(273) ≧ 3
Avg. FREQUENCY = 3.79%
Avg. IWC (273,all) = 75.9 gm/km^2
Avg. IWC (273,min) = 81.6 gm/km^2
TOTAL Ice (FOV) = 654.4 tons
TOTAL Ice (seas. avg.) = 47.0 tons
Avg. ALBEDO (252) = 11.04*10^{-6} sr^{-1}
Avg. ALBEDO (273,all) = 7.33*10^{-6} sr^{-1}
Avg. ALBEDO (273,min) = 7.99*10^{-6} sr^{-1}
10 PMCs
0
50
100
150
200
250
300
350
Ice Water Content [gm/km^2]
15:50:31 Tue Apr 30 2013 /Users/deland/pmc/programs/gplot_v3_iwc_sza_273.pro
ORBIT NODE choice = ALL nodes
AREA = 1.63E+07 km^2
DETECTION threshold = f(SZA)
RESIDUAL filter: $r_{252}/r_{273} < 5$

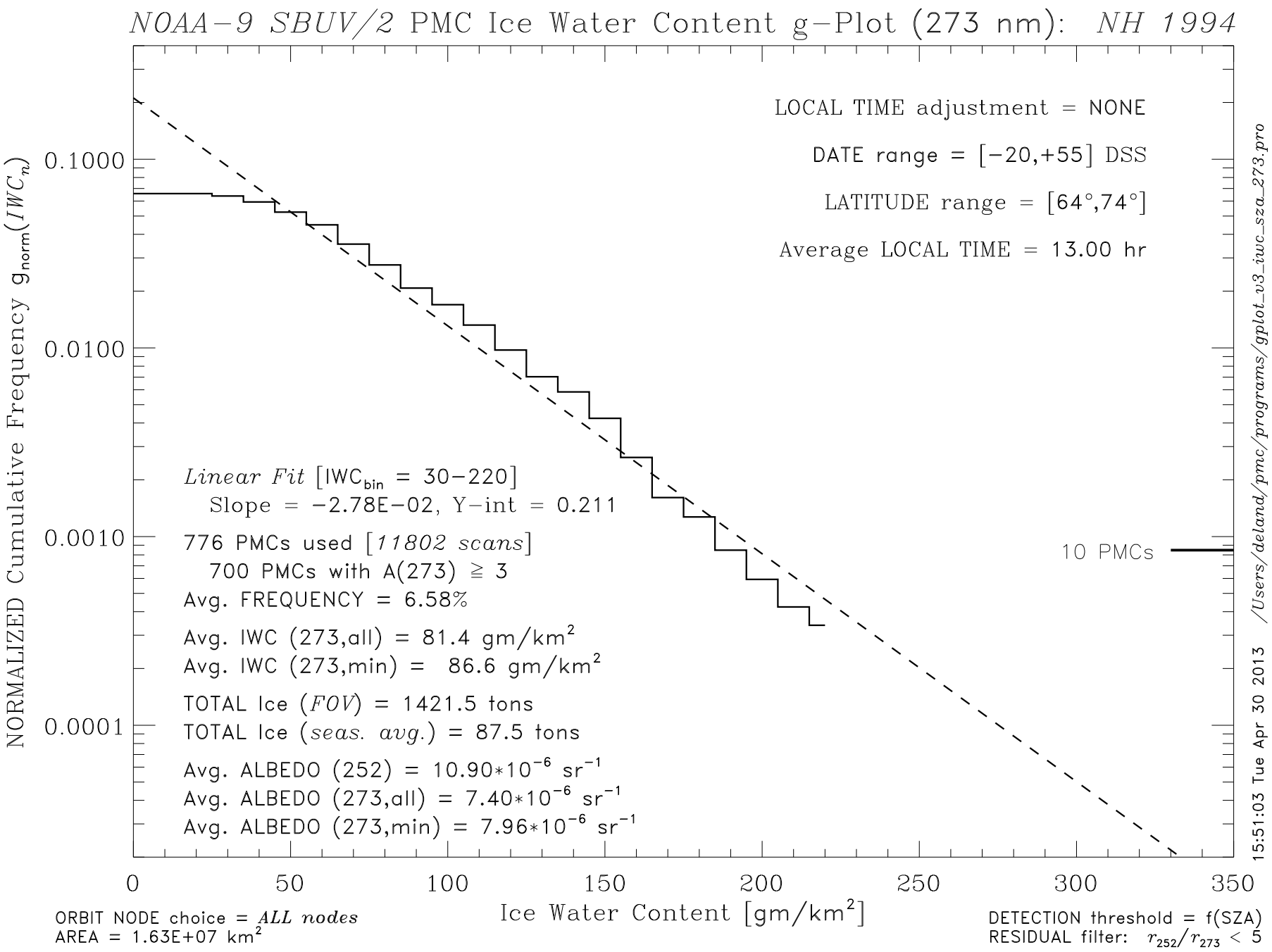

NOAA-9 SBUV/2 PMC Ice Water Content g-Plot (273 nm): NH 1986
LOCAL TIME adjustment = NONE
DATE range = [-20,+55] DSS
LATITUDE range = [64°,74°]
Average LOCAL TIME = 8.39 hr
NORMALIZED Cumulative Frequency $g_{norm}(IWC_n)$
0.1000
0.0100
0.0010
0.0001
Linear Fit [IWC_{bin} = 30-240]
Slope = -2.58E-02, Y-int = 0.221
898 PMCs used [11781 scans]
831 PMCs with A(273) ≧ 3
Avg. FREQUENCY = 7.62%
Avg. IWC (273,all) = 83.8 gm/km^2
Avg. IWC (273,min) = 88.0 gm/km^2
TOTAL Ice (FOV) = 1692.9 tons
TOTAL Ice (seas. avg.) = 104.4 tons
Avg. ALBEDO (252) = 11.81*10^{-6} sr^{-1}
Avg. ALBEDO (273,all) = 8.17*10^{-6} sr^{-1}
Avg. ALBEDO (273,min) = 8.66*10^{-6} sr^{-1}
10 PMCs
0
50
100
150
200
250
300
350
Ice Water Content [gm/km^2]
15:50:32 Tue Apr 30 2013 /Users/deland/pmc/programs/gplot_v3_iwc_sza_273.pro
ORBIT NODE choice = ALL nodes
AREA = 1.63E+07 km^2
DETECTION threshold = f(SZA)
RESIDUAL filter: $r_{252}/r_{273} < 5$

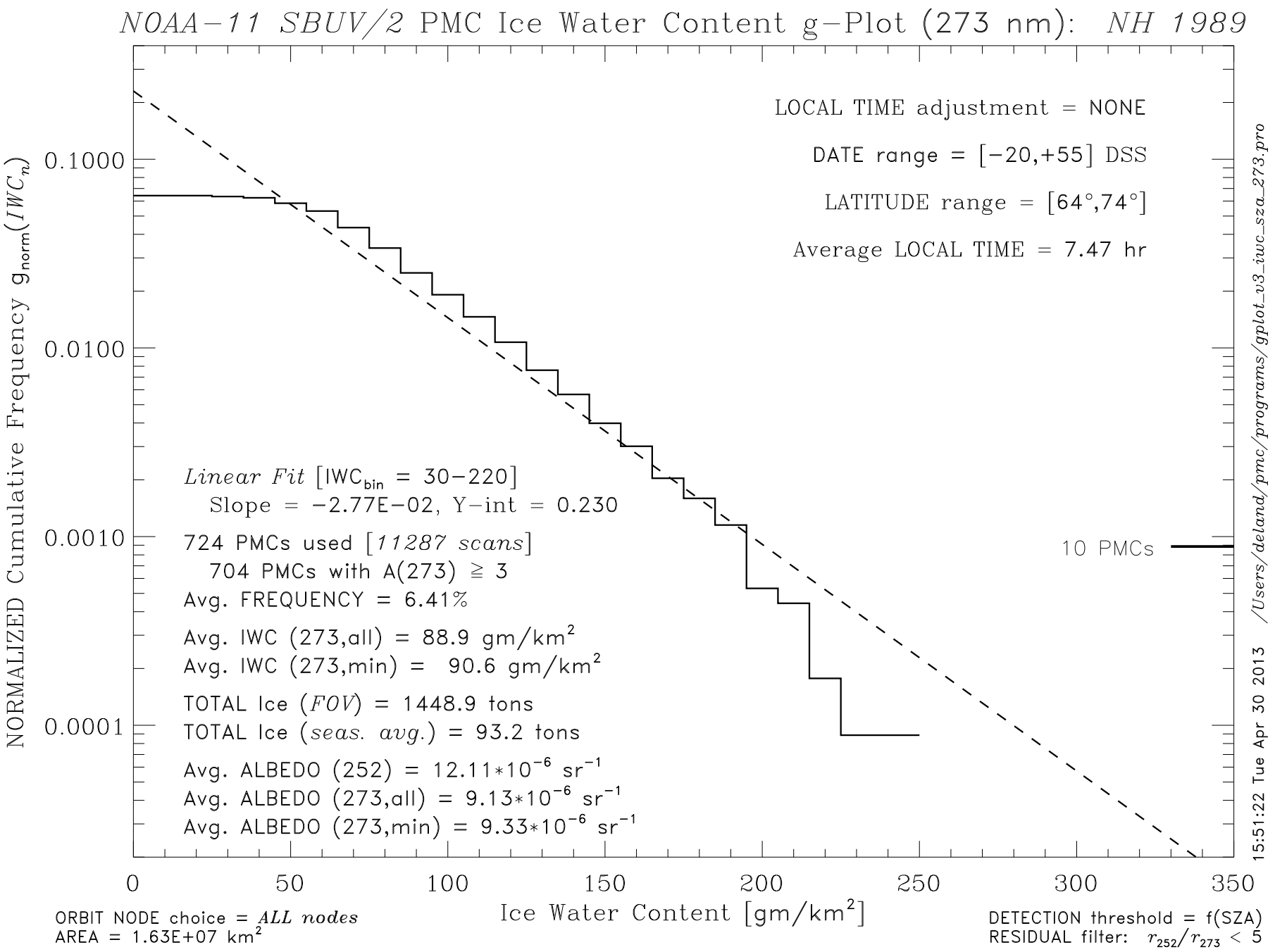

NOAA-9 SBUV/2 PMC Ice Water Content g-Plot (273 nm): NH 1987
LOCAL TIME adjustment = NONE
DATE range = [-20,+55] DSS
LATITUDE range = [64°,74°]
Average LOCAL TIME = 8.71 hr
NORMALIZED Cumulative Frequency $g_{norm}(IWC_n)$
0.1000
0.0100
0.0010
0.0001
Linear Fit [IWC_{bin} = 30-170]
Slope = -3.43E-02, Y-int = 0.221
712 PMCs used [11906 scans]
643 PMCs with A(273) ≧ 3
Avg. FREQUENCY = 5.98%
Avg. IWC (273,all) = 72.2 gm/km^2
Avg. IWC (273,min) = 76.3 gm/km^2
TOTAL Ice (FOV) = 1156.4 tons
TOTAL Ice (seas. avg.) = 70.6 tons
Avg. ALBEDO (252) = 10.35*10^{-6} sr^{-1}
Avg. ALBEDO (273,all) = 6.70*10^{-6} sr^{-1}
Avg. ALBEDO (273,min) = 7.18*10^{-6} sr^{-1}
10 PMCs
0
50
100
150
200
250
300
350
Ice Water Content [gm/km^2]
15:50:33 Tue Apr 30 2013 /Users/deland/pmc/programs/gplot_v3_iwc_sza_273.pro
ORBIT NODE choice = ALL nodes
AREA = 1.63E+07 km^2
DETECTION threshold = f(SZA)
RESIDUAL filter: $r_{252}/r_{273} < 5$

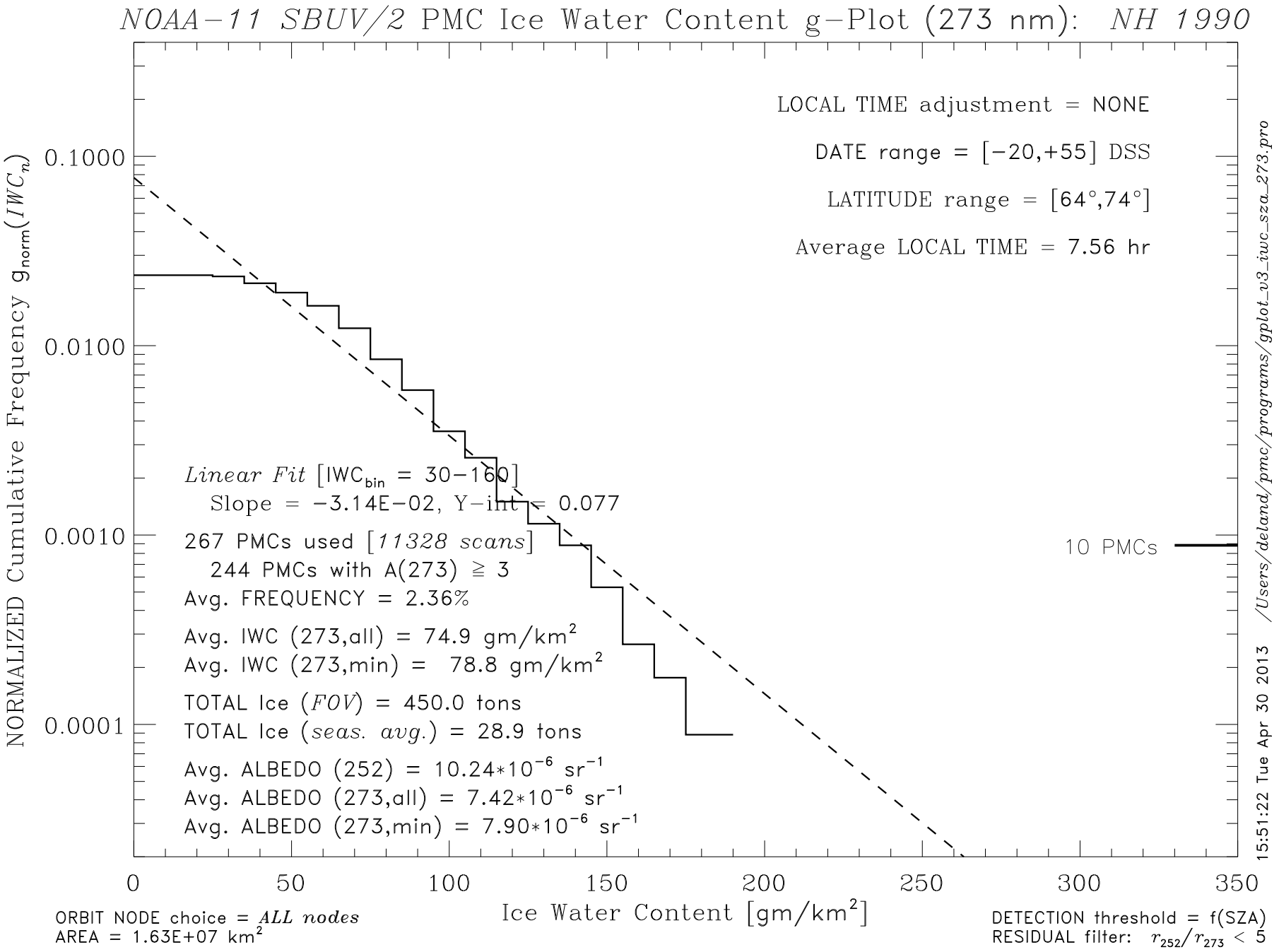

NOAA-9 SBUV/2 PMC Ice Water Content g-Plot (273 nm): NH 1988
LOCAL TIME adjustment = NONE
DATE range = [-20,+55] DSS
LATITUDE range = [64°,74°]
Average LOCAL TIME = 9.20 hr
NORMALIZED Cumulative Frequency $g_{norm}(IWC_n)$
0.1000
0.0100
0.0010
0.0001
Linear Fit [IWC_{bin} = 30-240]
Slope = -2.43E-02, Y-int = 0.183
854 PMCs used [12431 scans]
792 PMCs with A(273) ≧ 3
Avg. FREQUENCY = 6.87%
Avg. IWC (273,all) = 85.0 gm/km^2
Avg. IWC (273,min) = 89.1 gm/km^2
TOTAL Ice (FOV) = 1634.0 tons
TOTAL Ice (seas. avg.) = 95.5 tons
Avg. ALBEDO (252) = 11.27*10^{-6} sr^{-1}
Avg. ALBEDO (273,all) = 7.93*10^{-6} sr^{-1}
Avg. ALBEDO (273,min) = 8.37*10^{-6} sr^{-1}
10 PMCs
0
50
100
150
200
250
300
350
Ice Water Content [gm/km^2]
15:50:34 Tue Apr 30 2013 /Users/deland/pmc/programs/gplot_v3_iwc_sza_273.pro
ORBIT NODE choice = ALL nodes
AREA = 1.63E+07 km^2
DETECTION threshold = f(SZA)
RESIDUAL filter: $r_{252}/r_{273} < 5$

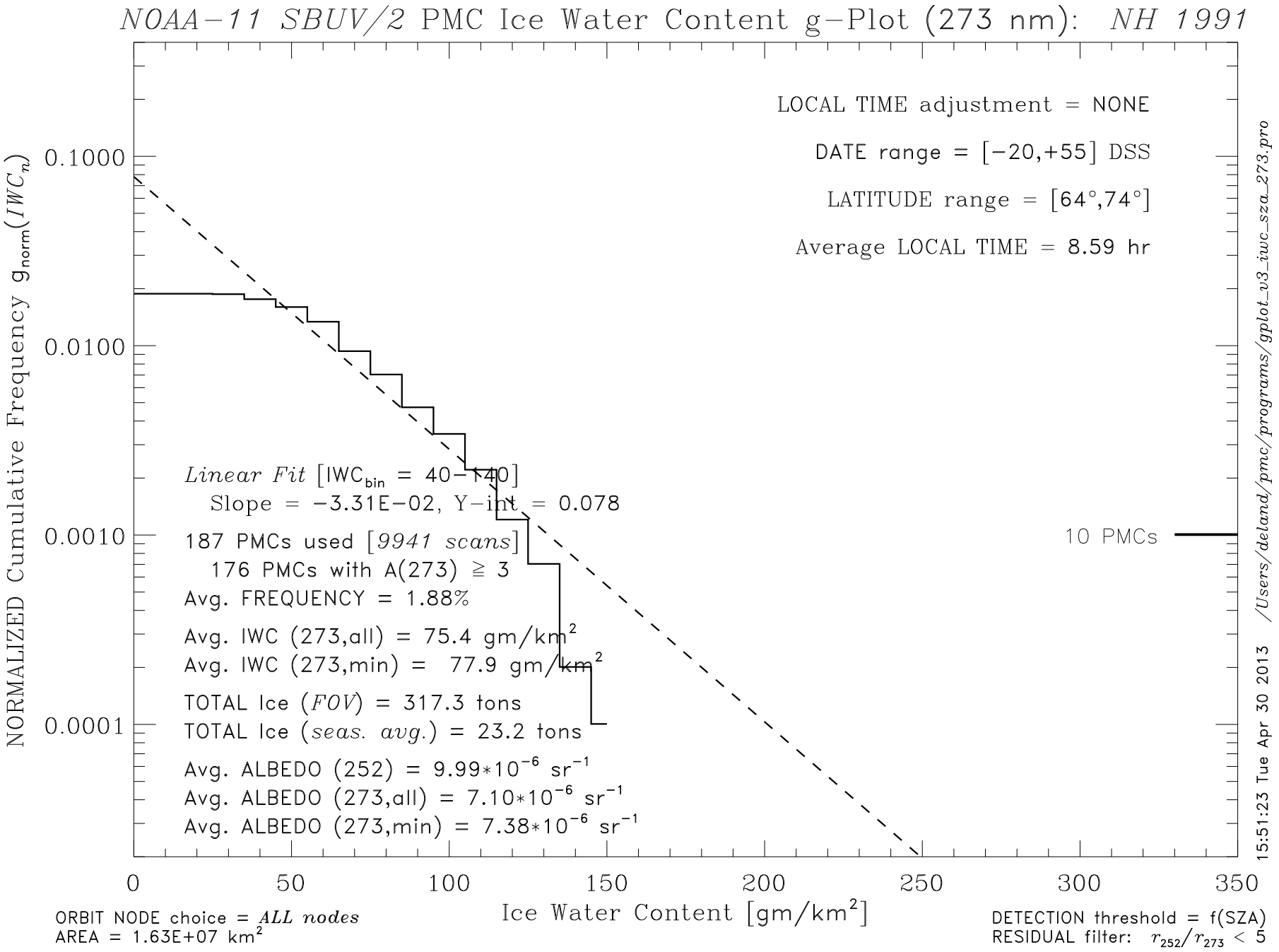

NOAA−9 SBUV/2 PMC Ice Water Content g−Plot (273 nm): NH 1989
LOCAL TIME adjustment = NONE
DATE range = [−20,+55] DSS
LATITUDE range = [64°,74°]
Average LOCAL TIME = 8.23 hr
NORMALIZED Cumulative Frequency $g_{norm}(IWC_n)$
0.1000
0.0100
0.0010
0.0001
Linear Fit [IWC$_{bin}$ = 30−210]
Slope = −2.78E−02, Y−int = 0.152
547 PMCs used [11679 scans]
521 PMCs with A(273) ≧ 3
Avg. FREQUENCY = 4.68%
Avg. IWC (273,all) = 83.4 gm/km^2
Avg. IWC (273,min) = 85.9 gm/km^2
TOTAL Ice (FOV) = 1026.0 tons
TOTAL Ice (seas. avg.) = 63.8 tons
Avg. ALBEDO (252) = 11.11∗10^{-6} sr^{-1}
Avg. ALBEDO (273,all) = 7.67∗10^{-6} sr^{-1}
Avg. ALBEDO (273,min) = 7.95∗10^{-6} sr^{-1}
10 PMCs
0
50
100
150
200
250
300
350
Ice Water Content [gm/km^2]
15:50:35 Tue Apr 30 2013 /Users/deland/pmc/programs/gplot_v3_iwc_sza_273.pro
ORBIT NODE choice = ALL nodes
AREA = 1.63E+07 km^2
DETECTION threshold = f(SZA)
RESIDUAL filter: $r_{252}/r_{273} < 5$

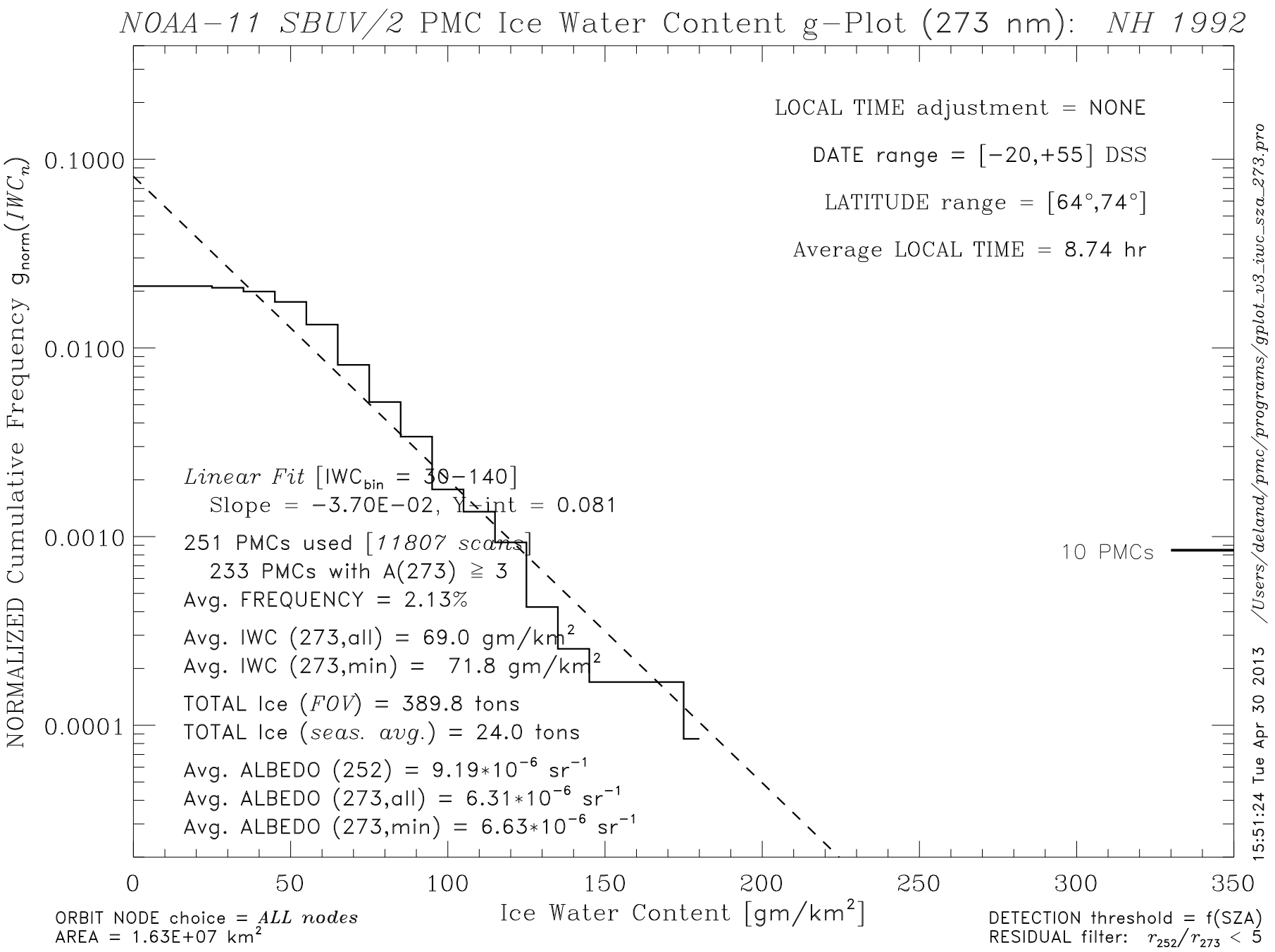

NOAA-9 SBUV/2 PMC Ice Water Content g-Plot (273 nm): NH 1992
LOCAL TIME adjustment = NONE
DATE range = [-20,+55] DSS
LATITUDE range = [64°,74°]
Average LOCAL TIME = 14.69 hr
NORMALIZED Cumulative Frequency $g_{norm}(IWC_n)$
0.1000
0.0100
0.0010
0.0001
Linear Fit [IWC_{bin} = 30-100]
Slope = -4.04E-02, Y-int = 0.043
141 PMCs used [11507 scans]
117 PMCs with A(273) ≧ 3
Avg. FREQUENCY = 1.23%
Avg. IWC (273,all) = 58.9 gm/km^2
Avg. IWC (273,min) = 64.3 gm/km^2
TOTAL Ice (FOV) = 187.0 tons
TOTAL Ice (seas. avg.) = 11.8 tons
Avg. ALBEDO (252) = 8.79*10^{-6} sr^{-1}
Avg. ALBEDO (273,all) = 5.01*10^{-6} sr^{-1}
Avg. ALBEDO (273,min) = 5.58*10^{-6} sr^{-1}
10 PMCs
0
50
100
150
200
250
300
350
Ice Water Content [gm/km^2]
15:50:50 Tue Apr 30 2013 /Users/deland/pmc/programs/gplot_v3_iwc_sza_273.pro
ORBIT NODE choice = ALL nodes
AREA = 1.63E+07 km^2
DETECTION threshold = f(SZA)
RESIDUAL filter: $r_{252}/r_{273} < 5$

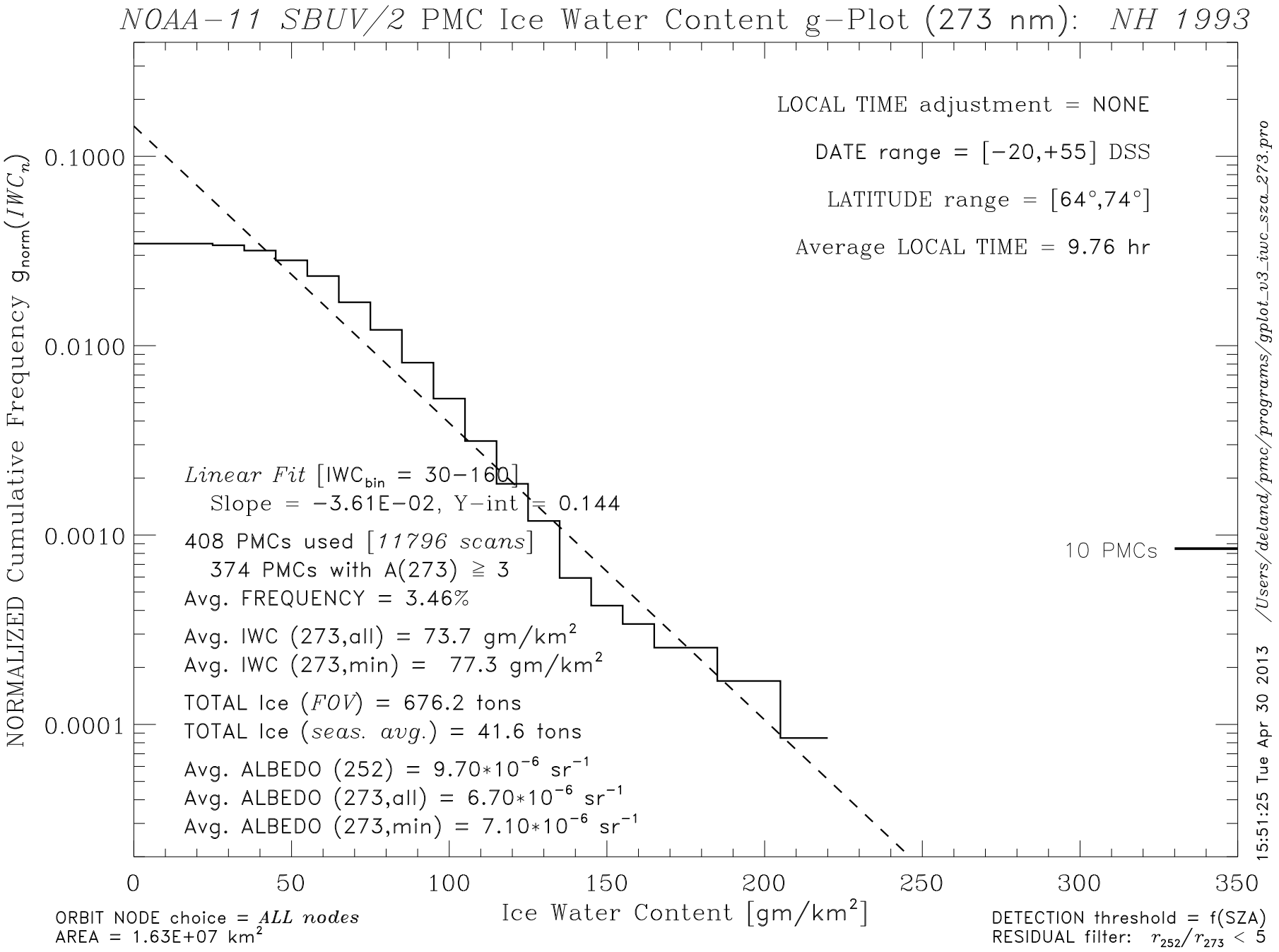

NOAA-9 SBUV/2 PMC Ice Water Content g-Plot (273 nm): NH 1994
LOCAL TIME adjustment = NONE
DATE range = [-20,+55] DSS
LATITUDE range = [64°,74°]
Average LOCAL TIME = 13.00 hr
Linear Fit [IWC_bin = 30-220]
Slope = -2.78E-02, Y-int = 0.211
776 PMCs used [11802 scans]
700 PMCs with A(273) ≧ 3
Avg. FREQUENCY = 6.58%
Avg. IWC (273,all) = 81.4 gm/km²
Avg. IWC (273,min) = 86.6 gm/km²
TOTAL Ice (FOV) = 1421.5 tons
TOTAL Ice (seas. avg.) = 87.5 tons
Avg. ALBEDO (252) = 10.90*10⁻⁶ sr⁻¹
Avg. ALBEDO (273,all) = 7.40*10⁻⁶ sr⁻¹
Avg. ALBEDO (273,min) = 7.96*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
Ice Water Content [gm/km²]
ORBIT NODE choice = ALL nodes
AREA = 1.63E+07 km²
DETECTION threshold = f(SZA)
RESIDUAL filter: r252/r273 < 5
15:51:03 Tue Apr 30 2013 /Users/deland/pmc/programs/gplot_v3_iwc_sza_273.pro

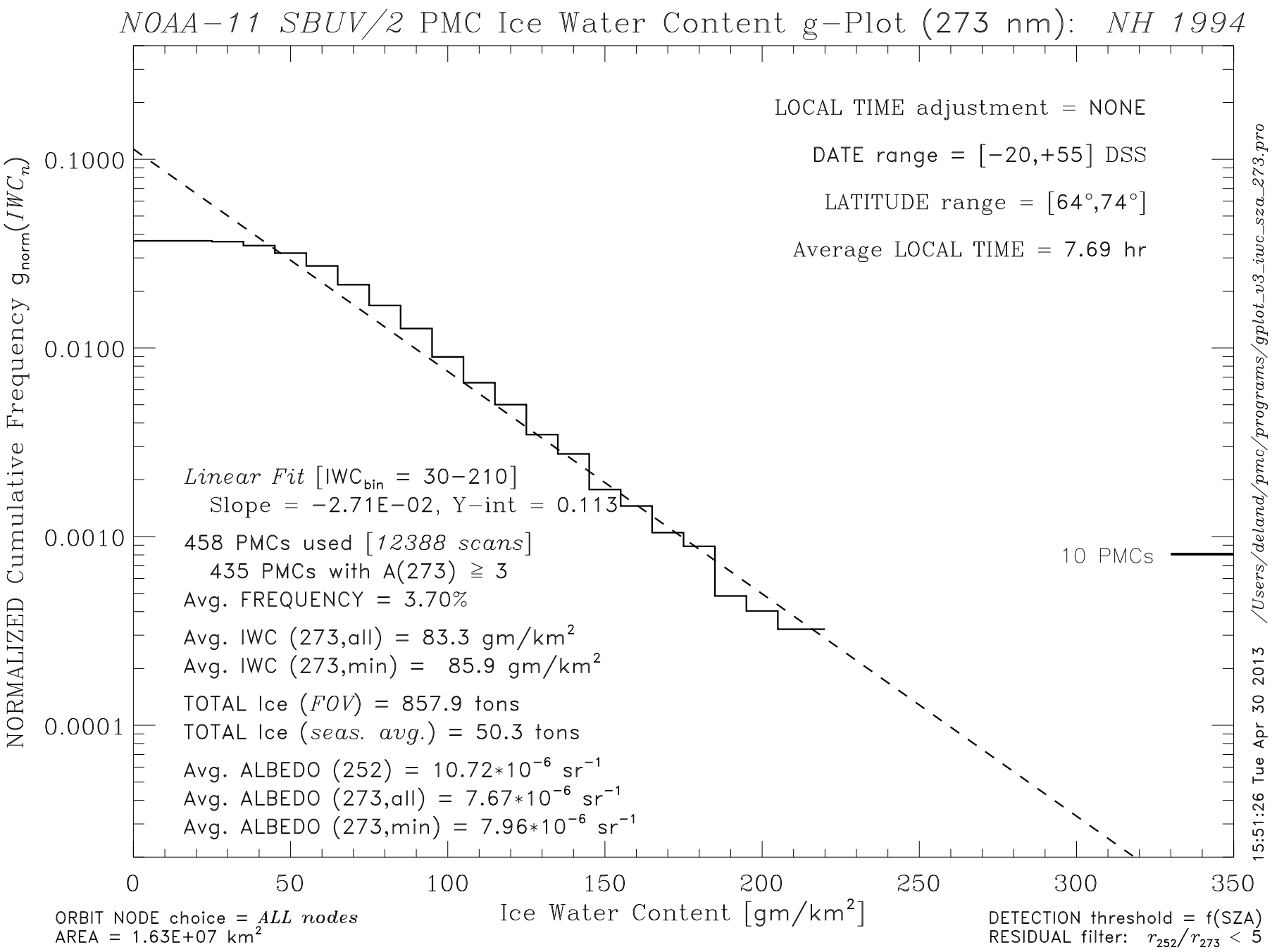

NOAA-11 SBUV/2 PMC Ice Water Content g-Plot (273 nm): NH 1989
LOCAL TIME adjustment = NONE
DATE range = [-20,+55] DSS
LATITUDE range = [64°,74°]
Average LOCAL TIME = 7.47 hr
Linear Fit [IWC_bin = 30-220]
Slope = -2.77E-02, Y-int = 0.230
724 PMCs used [11287 scans]
704 PMCs with A(273) ≧ 3
Avg. FREQUENCY = 6.41%
Avg. IWC (273,all) = 88.9 gm/km²
Avg. IWC (273,min) = 90.6 gm/km²
TOTAL Ice (FOV) = 1448.9 tons
TOTAL Ice (seas. avg.) = 93.2 tons
Avg. ALBEDO (252) = 12.11*10⁻⁶ sr⁻¹
Avg. ALBEDO (273,all) = 9.13*10⁻⁶ sr⁻¹
Avg. ALBEDO (273,min) = 9.33*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
Ice Water Content [gm/km²]
ORBIT NODE choice = ALL nodes
AREA = 1.63E+07 km²
DETECTION threshold = f(SZA)
RESIDUAL filter: r252/r273 < 5
15:51:22 Tue Apr 30 2013 /Users/deland/pmc/programs/gplot_v3_iwc_sza_273.pro

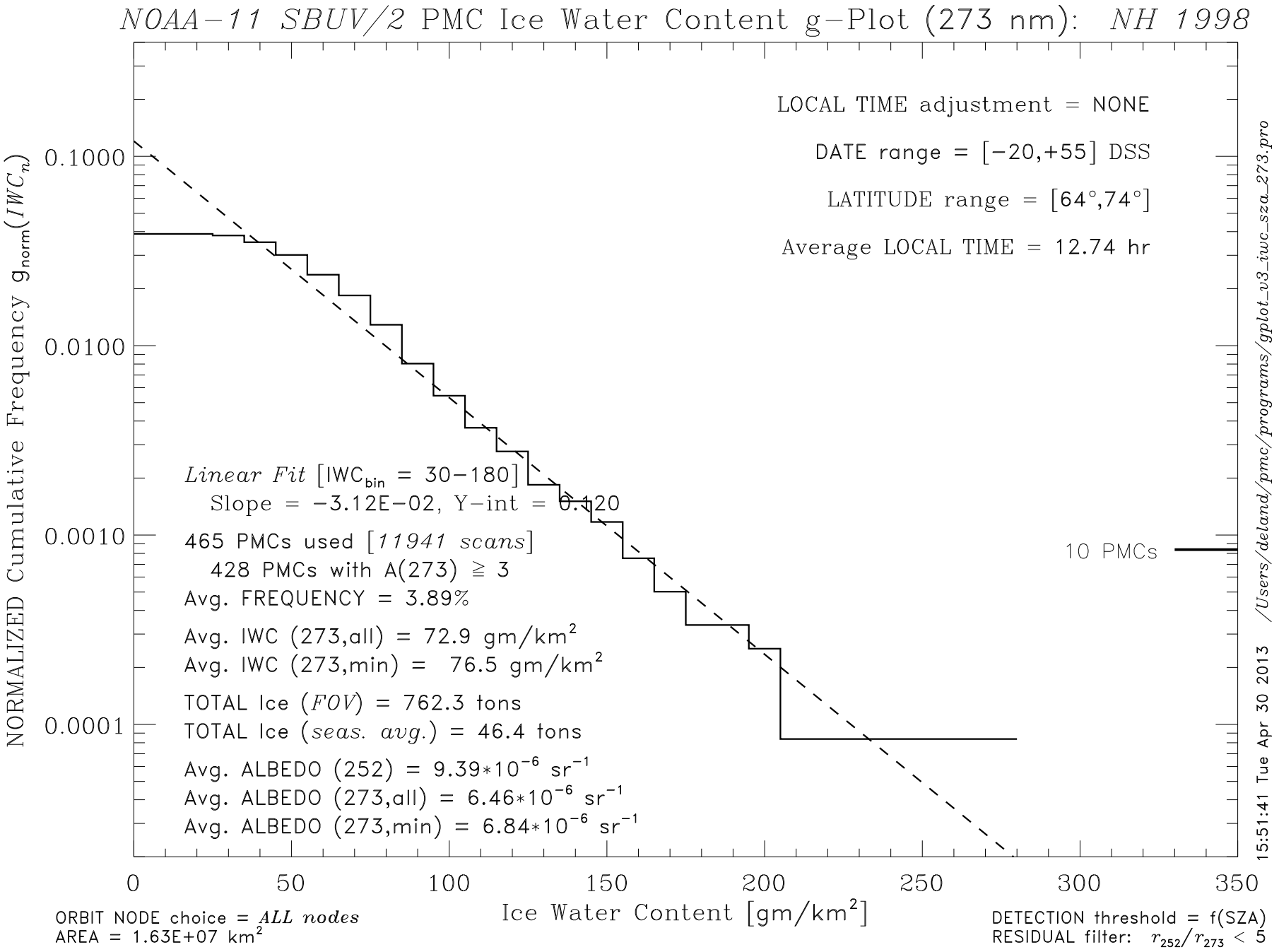

NOAA-11 SBUV/2 PMC Ice Water Content g-Plot (273 nm): NH 1990
LOCAL TIME adjustment = NONE
DATE range = [-20,+55] DSS
LATITUDE range = [64°,74°]
Average LOCAL TIME = 7.56 hr
NORMALIZED Cumulative Frequency $g_{norm}(IWC_n)$
0.1000
0.0100
0.0010
0.0001
Linear Fit [IWC_{bin} = 30-160]
Slope = -3.14E-02, Y-int = 0.077
267 PMCs used [11328 scans]
244 PMCs with A(273) ≧ 3
Avg. FREQUENCY = 2.36%
Avg. IWC (273,all) = 74.9 gm/km^2
Avg. IWC (273,min) = 78.8 gm/km^2
TOTAL Ice (FOV) = 450.0 tons
TOTAL Ice (seas. avg.) = 28.9 tons
Avg. ALBEDO (252) = 10.24*10^{-6} sr^{-1}
Avg. ALBEDO (273,all) = 7.42*10^{-6} sr^{-1}
Avg. ALBEDO (273,min) = 7.90*10^{-6} sr^{-1}
10 PMCs
0
50
100
150
200
250
300
350
Ice Water Content [gm/km^2]
15:51:22 Tue Apr 30 2013 /Users/deland/pmc/programs/gplot_v3_iwc_sza_273.pro
ORBIT NODE choice = ALL nodes
AREA = 1.63E+07 km^2
DETECTION threshold = f(SZA)
RESIDUAL filter: $r_{252}/r_{273} < 5$

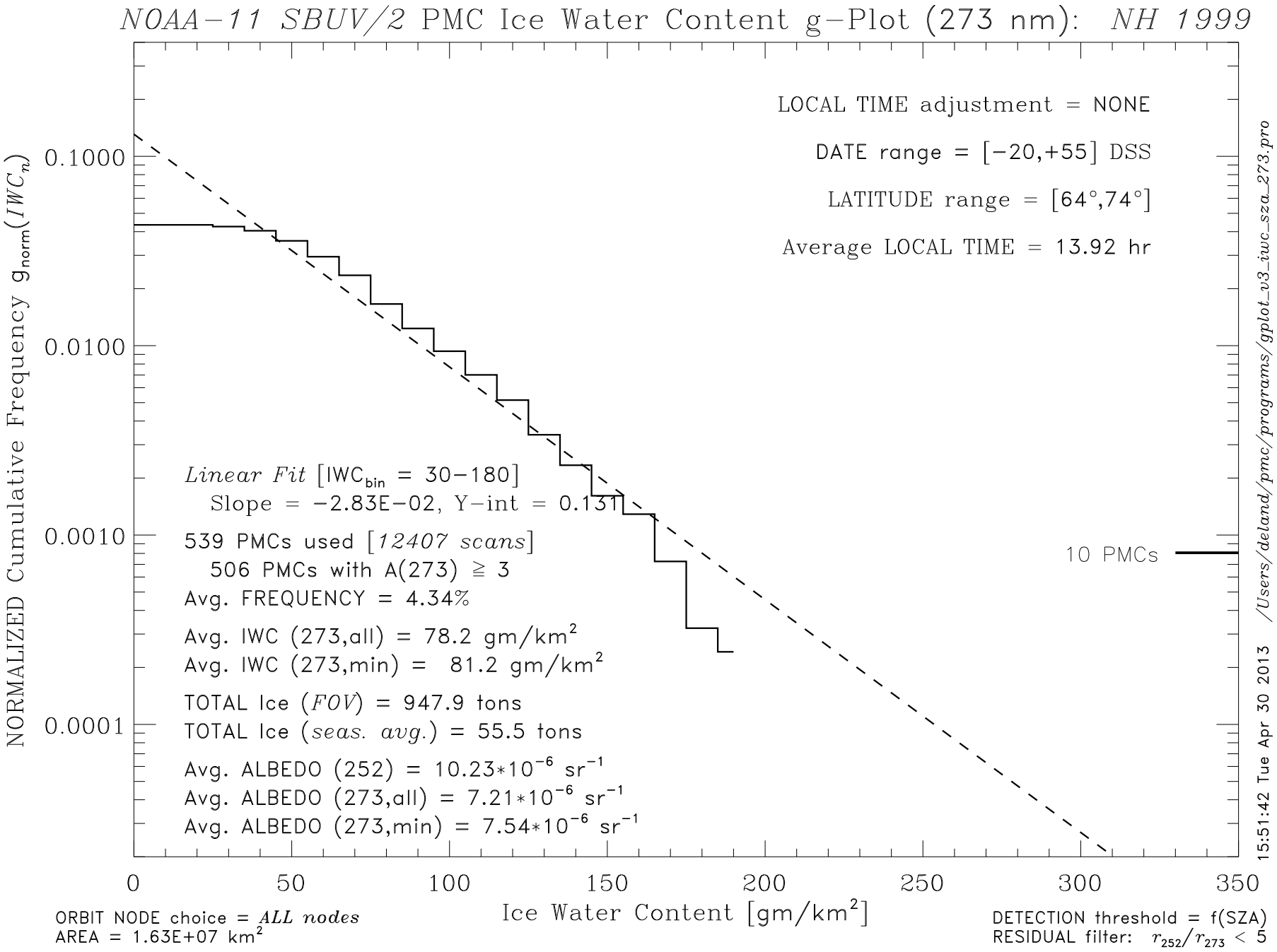

NOAA-11 SBUV/2 PMC Ice Water Content g-Plot (273 nm): NH 1991
LOCAL TIME adjustment = NONE
DATE range = [-20,+55] DSS
LATITUDE range = [64°,74°]
Average LOCAL TIME = 8.59 hr
NORMALIZED Cumulative Frequency $g_{norm}(IWC_n)$
0.1000
0.0100
0.0010
0.0001
Linear Fit [IWC_{bin} = 40-140]
Slope = -3.31E-02, Y-int = 0.078
187 PMCs used [9941 scans]
176 PMCs with A(273) ≧ 3
Avg. FREQUENCY = 1.88%
Avg. IWC (273,all) = 75.4 gm/km^2
Avg. IWC (273,min) = 77.9 gm/km^2
TOTAL Ice (FOV) = 317.3 tons
TOTAL Ice (seas. avg.) = 23.2 tons
Avg. ALBEDO (252) = 9.99*10^{-6} sr^{-1}
Avg. ALBEDO (273,all) = 7.10*10^{-6} sr^{-1}
Avg. ALBEDO (273,min) = 7.38*10^{-6} sr^{-1}
10 PMCs
0
50
100
150
200
250
300
350
Ice Water Content [gm/km^2]
ORBIT NODE choice = ALL nodes
AREA = 1.63E+07 km^2
DETECTION threshold = f(SZA)
RESIDUAL filter: $r_{252}/r_{273} < 5$
15:51:23 Tue Apr 30 2013 /Users/deland/pmc/programs/gplot_v3_iwc_sza_273.pro

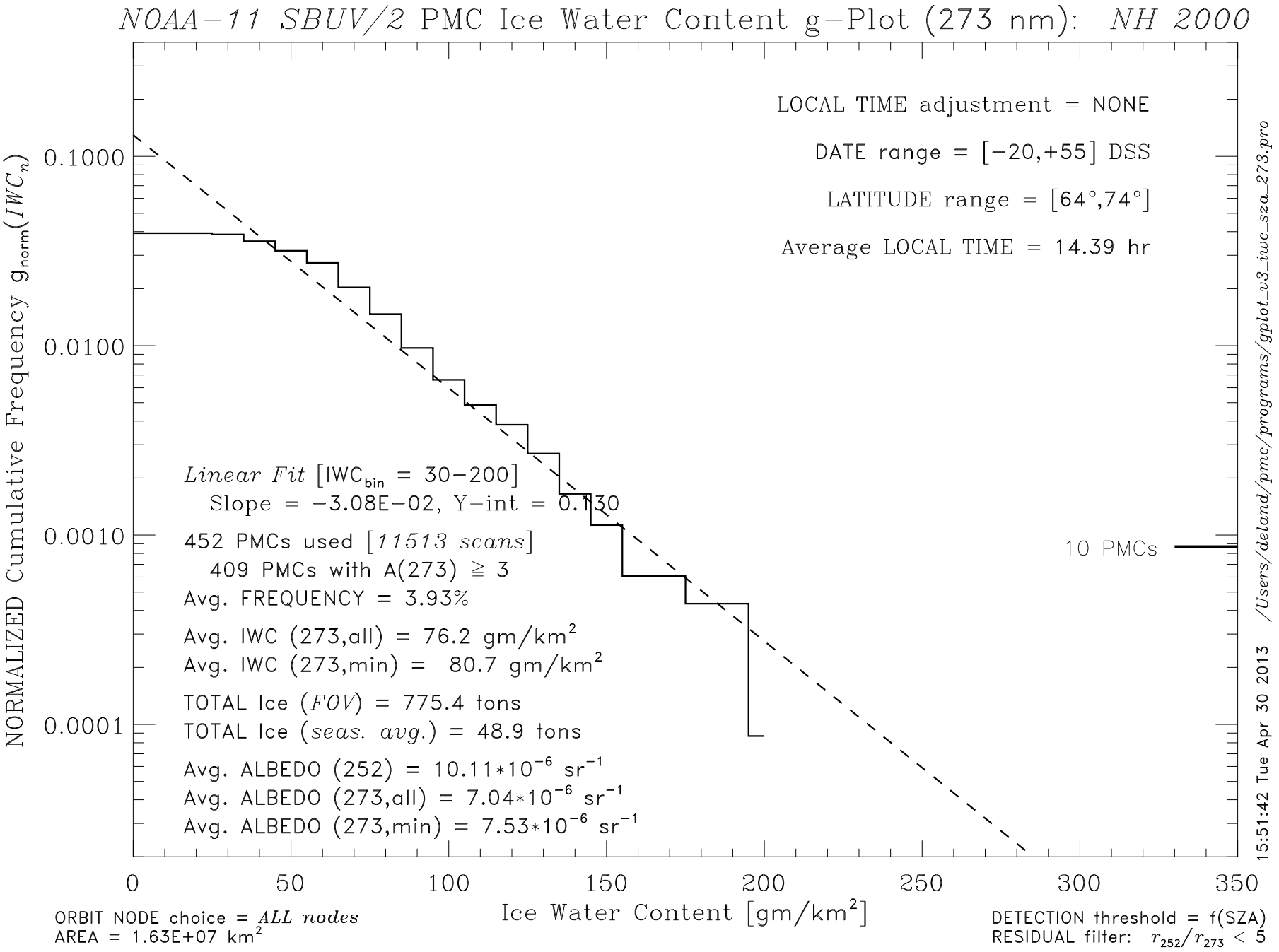

NOAA-11 SBUV/2 PMC Ice Water Content g-Plot (273 nm): NH 1992
LOCAL TIME adjustment = NONE
DATE range = [-20,+55] DSS
LATITUDE range = [64°,74°]
Average LOCAL TIME = 8.74 hr
NORMALIZED Cumulative Frequency $g_{norm}(IWC_n)$
0.1000
0.0100
0.0010
0.0001
Linear Fit [IWC$_{bin}$ = 30-140]
Slope = -3.70E-02, Y-int = 0.081
251 PMCs used [11807 scans]
233 PMCs with A(273) ≧ 3
Avg. FREQUENCY = 2.13%
Avg. IWC (273,all) = 69.0 gm/km^2
Avg. IWC (273,min) = 71.8 gm/km^2
TOTAL Ice (FOV) = 389.8 tons
TOTAL Ice (seas. avg.) = 24.0 tons
Avg. ALBEDO (252) = 9.19*10^{-6} sr^{-1}
Avg. ALBEDO (273,all) = 6.31*10^{-6} sr^{-1}
Avg. ALBEDO (273,min) = 6.63*10^{-6} sr^{-1}
10 PMCs
0
50
100
150
200
250
300
350
Ice Water Content [gm/km^2]
ORBIT NODE choice = ALL nodes
AREA = 1.63E+07 km^2
DETECTION threshold = f(SZA)
RESIDUAL filter: $r_{252}/r_{273} < 5$
15:51:24 Tue Apr 30 2013 /Users/deland/pmc/programs/gplot_v3_iwc_sza_273.pro

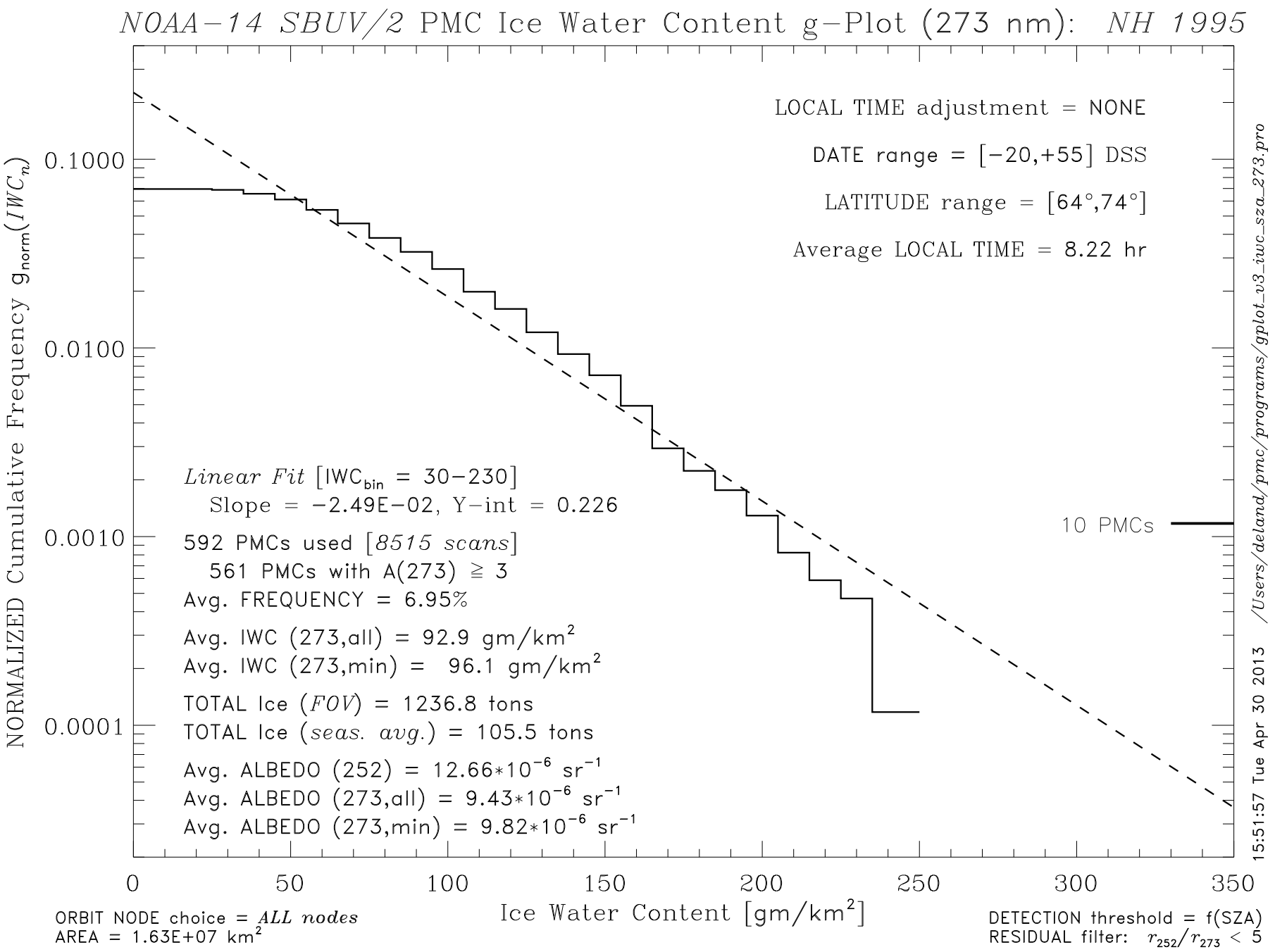

NOAA-11 SBUV/2 PMC Ice Water Content g-Plot (273 nm): NH 1993
LOCAL TIME adjustment = NONE
DATE range = [-20,+55] DSS
LATITUDE range = [64°,74°]
Average LOCAL TIME = 9.76 hr
NORMALIZED Cumulative Frequency $g_{norm}(IWC_n)$
0.1000
0.0100
0.0010
0.0001
Linear Fit [IWC_{bin} = 30-160]
Slope = -3.61E-02, Y-int = 0.144
408 PMCs used [11796 scans]
374 PMCs with A(273) ≧ 3
Avg. FREQUENCY = 3.46%
Avg. IWC (273,all) = 73.7 gm/km^2
Avg. IWC (273,min) = 77.3 gm/km^2
TOTAL Ice (FOV) = 676.2 tons
TOTAL Ice (seas. avg.) = 41.6 tons
Avg. ALBEDO (252) = 9.70*10^{-6} sr^{-1}
Avg. ALBEDO (273,all) = 6.70*10^{-6} sr^{-1}
Avg. ALBEDO (273,min) = 7.10*10^{-6} sr^{-1}
10 PMCs
0
50
100
150
200
250
300
350
Ice Water Content [gm/km^2]
15:51:25 Tue Apr 30 2013 /Users/deland/pmc/programs/gplot_v3_iwc_sza_273.pro
ORBIT NODE choice = ALL nodes
AREA = 1.63E+07 km^2
DETECTION threshold = f(SZA)
RESIDUAL filter: $r_{252}/r_{273} < 5$

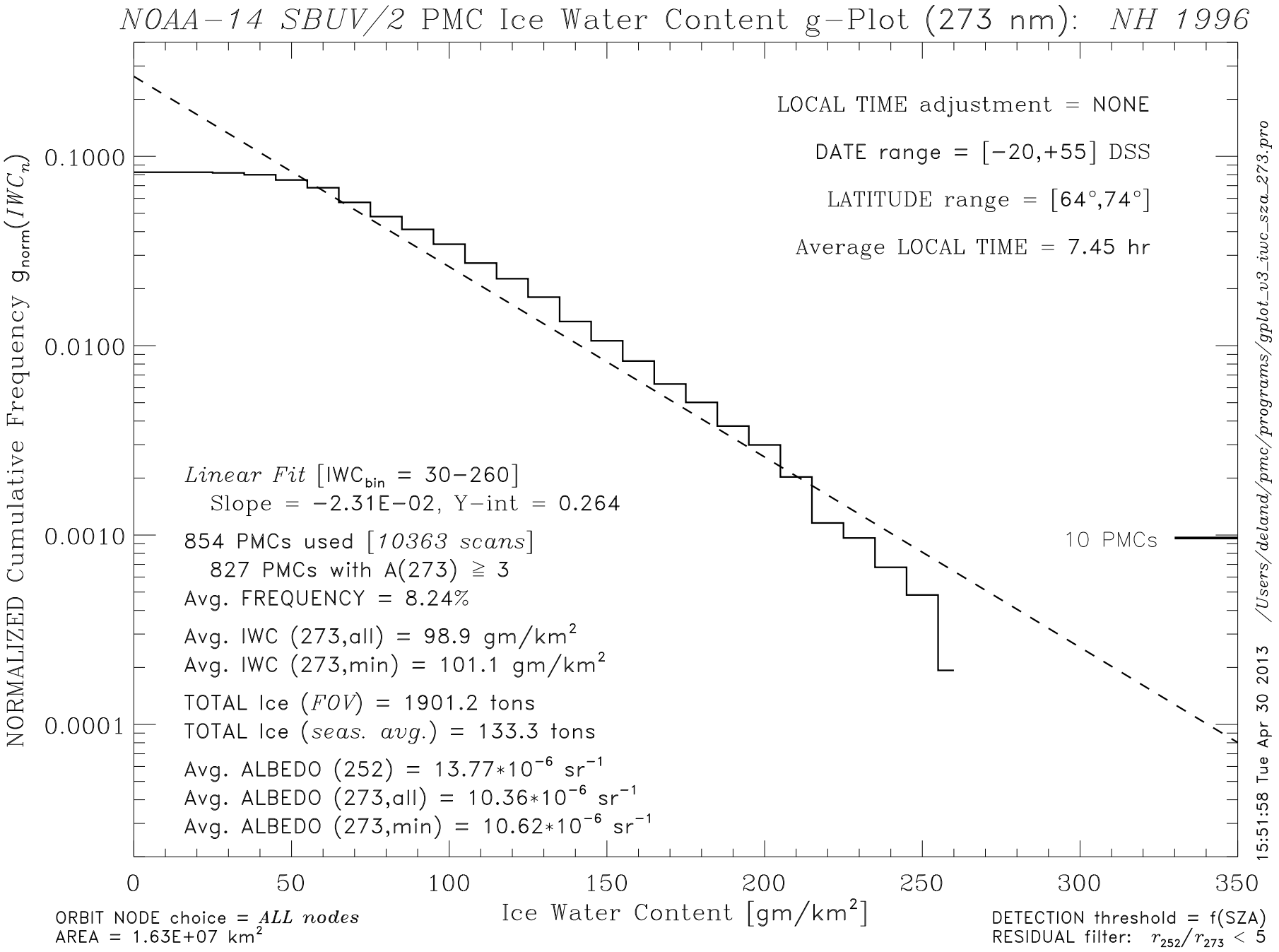

NOAA-11 SBUV/2 PMC Ice Water Content g-Plot (273 nm): NH 1994
LOCAL TIME adjustment = NONE
DATE range = [-20,+55] DSS
LATITUDE range = [64°,74°]
Average LOCAL TIME = 7.69 hr
NORMALIZED Cumulative Frequency $g_{norm}(IWC_n)$
0.1000
0.0100
0.0010
0.0001
Linear Fit [IWC_{bin} = 30-210]
Slope = -2.71E-02, Y-int = 0.113
458 PMCs used [12388 scans]
435 PMCs with A(273) ≧ 3
Avg. FREQUENCY = 3.70%
Avg. IWC (273,all) = 83.3 gm/km^2
Avg. IWC (273,min) = 85.9 gm/km^2
TOTAL Ice (FOV) = 857.9 tons
TOTAL Ice (seas. avg.) = 50.3 tons
Avg. ALBEDO (252) = 10.72*10^{-6} sr^{-1}
Avg. ALBEDO (273,all) = 7.67*10^{-6} sr^{-1}
Avg. ALBEDO (273,min) = 7.96*10^{-6} sr^{-1}
10 PMCs
0
50
100
150
200
250
300
350
Ice Water Content [gm/km^2]
15:51:26 Tue Apr 30 2013 /Users/deland/pmc/programs/gplot_v3_iwc_sza_273.pro
ORBIT NODE choice = ALL nodes
AREA = 1.63E+07 km^2
DETECTION threshold = f(SZA)
RESIDUAL filter: $r_{252}/r_{273} < 5$

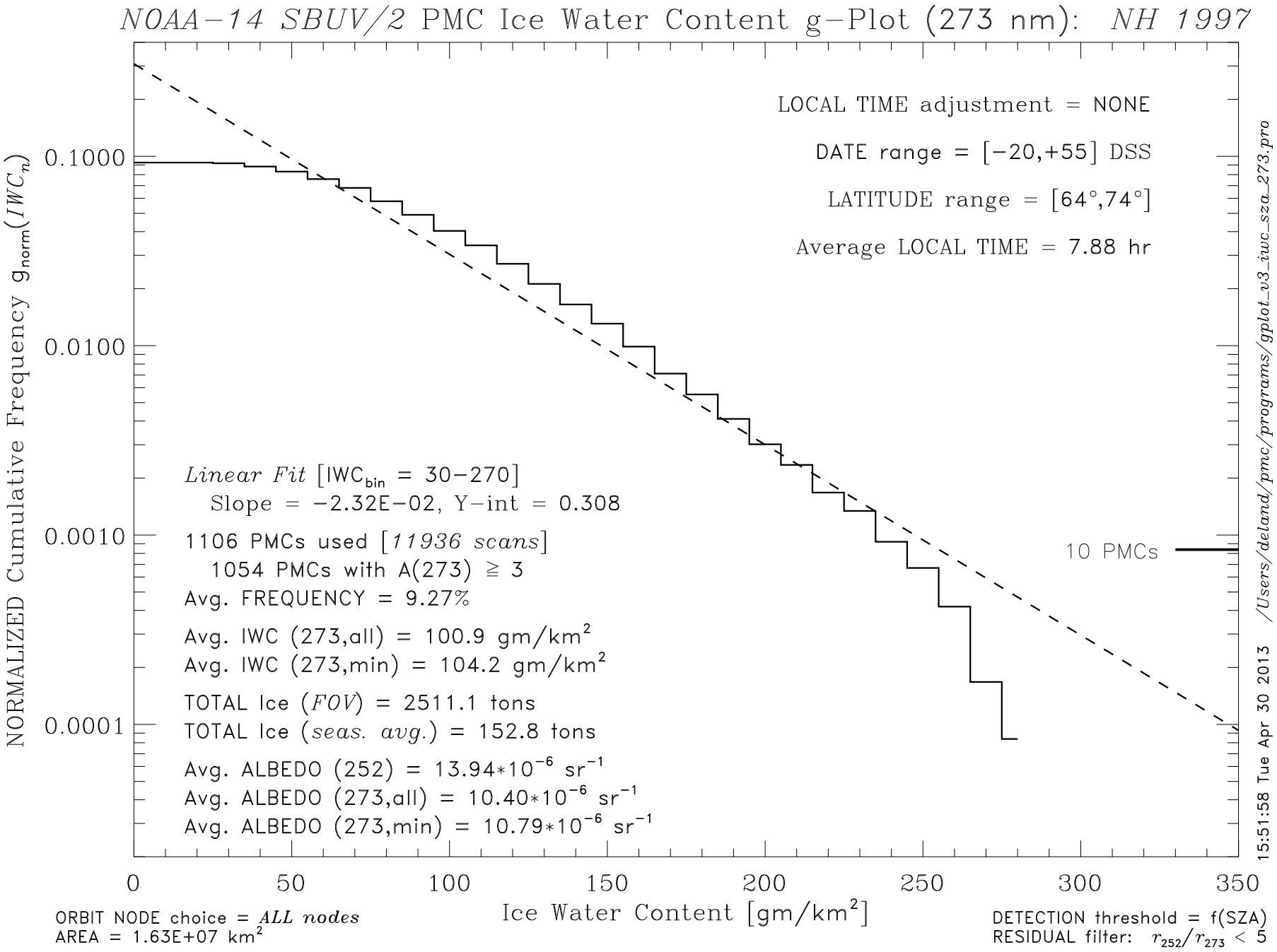

NOAA-11 SBUV/2 PMC Ice Water Content g-Plot (273 nm): NH 1998
LOCAL TIME adjustment = NONE
DATE range = [-20,+55] DSS
LATITUDE range = [64°,74°]
Average LOCAL TIME = 12.74 hr
NORMALIZED Cumulative Frequency $g_{norm}(IWC_n)$
0.1000
0.0100
0.0010
0.0001
Linear Fit [IWC_{bin} = 30-180]
Slope = -3.12E-02, Y-int = 0.120
465 PMCs used [11941 scans]
428 PMCs with A(273) ≧ 3
Avg. FREQUENCY = 3.89%
Avg. IWC (273,all) = 72.9 gm/km^2
Avg. IWC (273,min) = 76.5 gm/km^2
TOTAL Ice (FOV) = 762.3 tons
TOTAL Ice (seas. avg.) = 46.4 tons
Avg. ALBEDO (252) = 9.39*10^{-6} sr^{-1}
Avg. ALBEDO (273,all) = 6.46*10^{-6} sr^{-1}
Avg. ALBEDO (273,min) = 6.84*10^{-6} sr^{-1}
10 PMCs
0
50
100
150
200
250
300
350
Ice Water Content [gm/km^2]
15:51:41 Tue Apr 30 2013 /Users/deland/pmc/programs/gplot_v3_iwc_sza_273.pro
ORBIT NODE choice = ALL nodes
AREA = 1.63E+07 km^2
DETECTION threshold = f(SZA)
RESIDUAL filter: $r_{252}/r_{273} < 5$

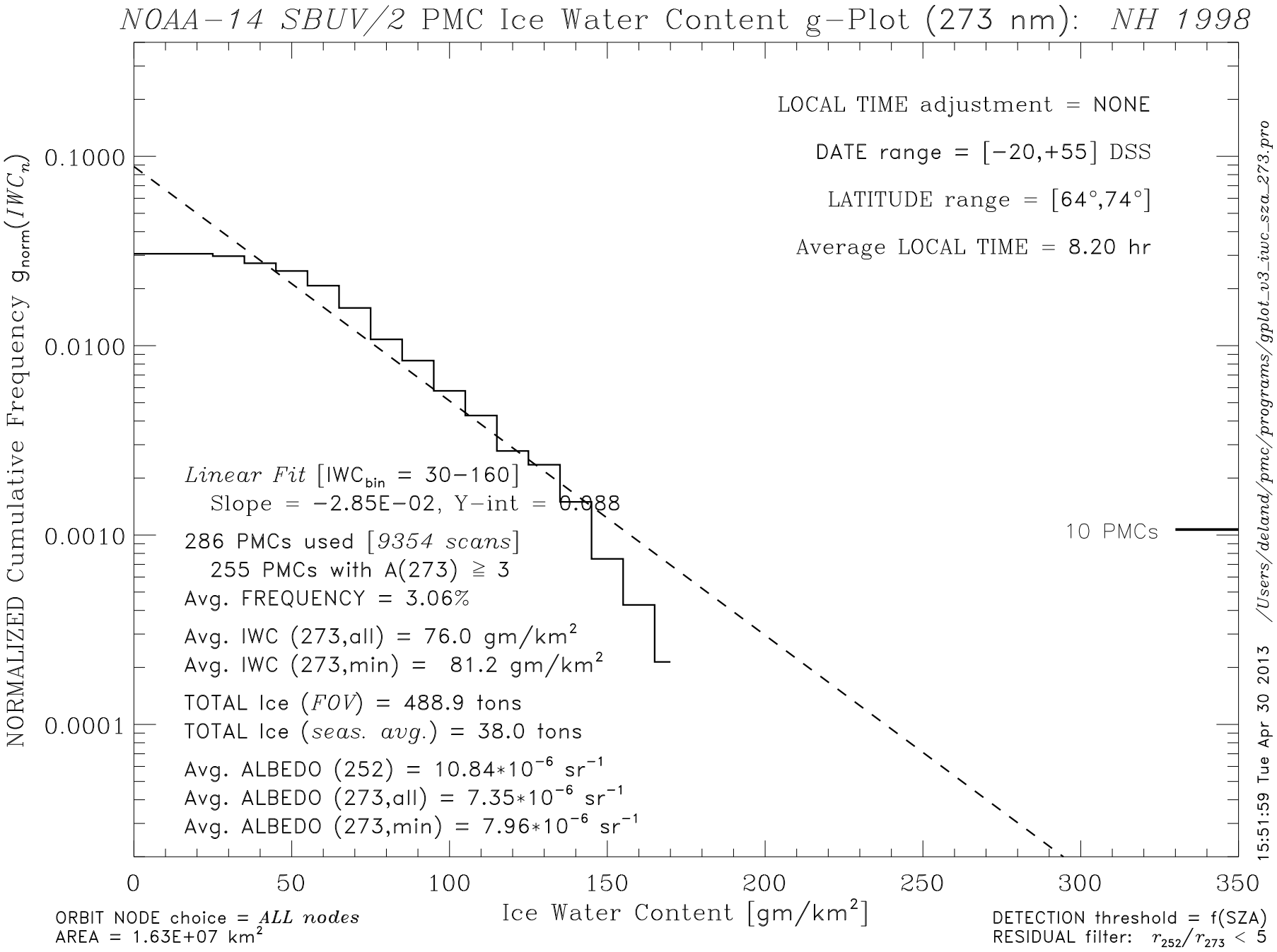

NOAA-11 SBUV/2 PMC Ice Water Content g-Plot (273 nm): NH 1999
LOCAL TIME adjustment = NONE
DATE range = [-20,+55] DSS
LATITUDE range = [64°,74°]
Average LOCAL TIME = 13.92 hr
NORMALIZED Cumulative Frequency $g_{norm}(IWC_n)$
0.1000
0.0100
0.0010
0.0001
Linear Fit [IWC_{bin} = 30-180]
Slope = -2.83E-02, Y-int = 0.131
539 PMCs used [12407 scans]
506 PMCs with A(273) ≧ 3
Avg. FREQUENCY = 4.34%
Avg. IWC (273,all) = 78.2 gm/km^2
Avg. IWC (273,min) = 81.2 gm/km^2
TOTAL Ice (FOV) = 947.9 tons
TOTAL Ice (seas. avg.) = 55.5 tons
Avg. ALBEDO (252) = 10.23*10^{-6} sr^{-1}
Avg. ALBEDO (273,all) = 7.21*10^{-6} sr^{-1}
Avg. ALBEDO (273,min) = 7.54*10^{-6} sr^{-1}
10 PMCs
0
50
100
150
200
250
300
350
Ice Water Content [gm/km^2]
15:51:42 Tue Apr 30 2013 /Users/deland/pmc/programs/gplot_v3_iwc_sza_273.pro
ORBIT NODE choice = ALL nodes
AREA = 1.63E+07 km^2
DETECTION threshold = f(SZA)
RESIDUAL filter: $r_{252}/r_{273} < 5$

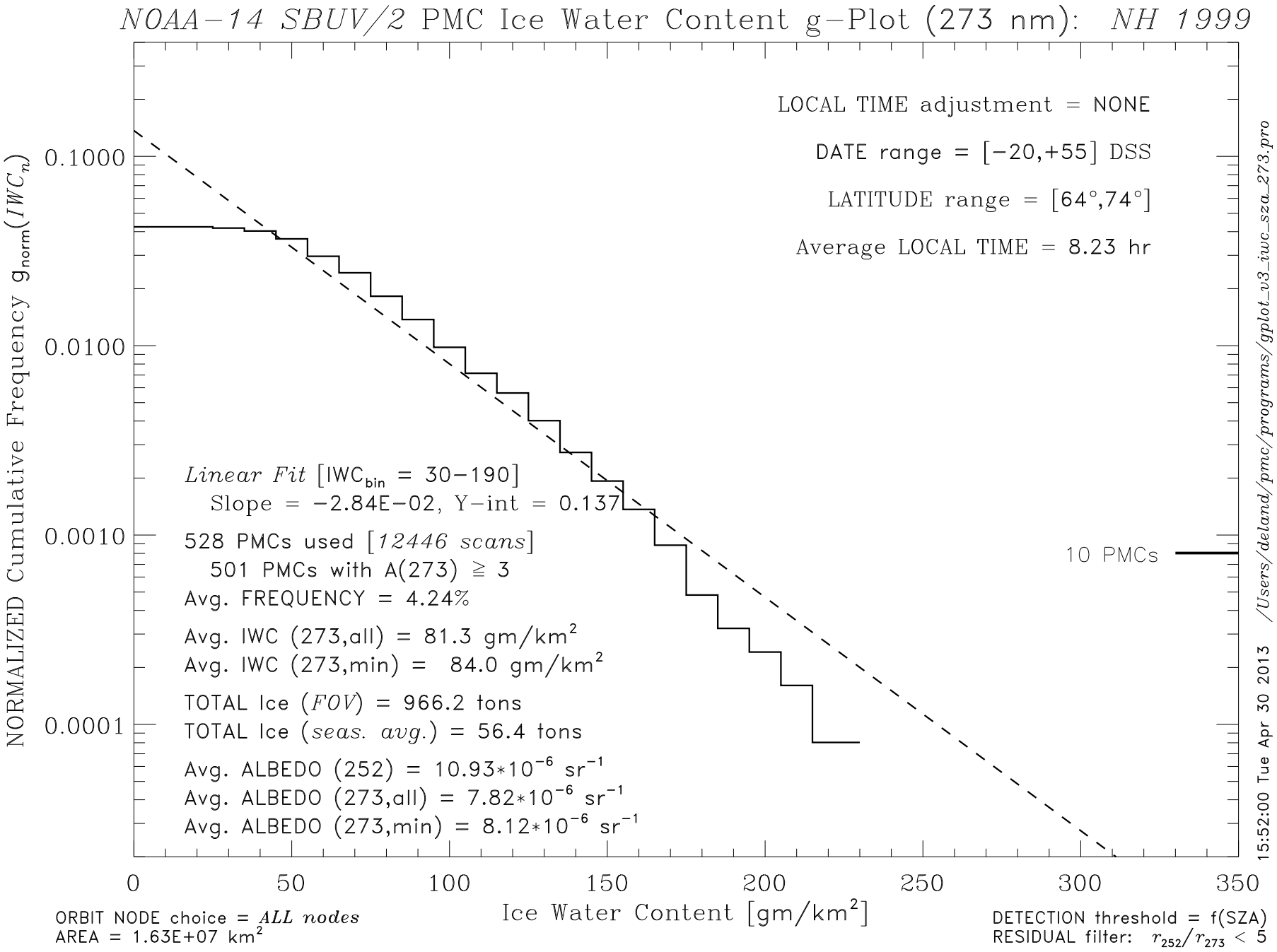

NOAA-11 SBUV/2 PMC Ice Water Content g-Plot (273 nm): NH 2000
LOCAL TIME adjustment = NONE
DATE range = [-20,+55] DSS
LATITUDE range = [64°,74°]
Average LOCAL TIME = 14.39 hr
NORMALIZED Cumulative Frequency $g_{norm}(IWC_n)$
0.1000
0.0100
0.0010
0.0001
Linear Fit [IWC_{bin} = 30-200]
Slope = -3.08E-02, Y-int = 0.130
452 PMCs used [11513 scans]
409 PMCs with A(273) ≧ 3
Avg. FREQUENCY = 3.93%
Avg. IWC (273,all) = 76.2 gm/km^2
Avg. IWC (273,min) = 80.7 gm/km^2
TOTAL Ice (FOV) = 775.4 tons
TOTAL Ice (seas. avg.) = 48.9 tons
Avg. ALBEDO (252) = 10.11*10^{-6} sr^{-1}
Avg. ALBEDO (273,all) = 7.04*10^{-6} sr^{-1}
Avg. ALBEDO (273,min) = 7.53*10^{-6} sr^{-1}
10 PMCs
0
50
100
150
200
250
300
350
Ice Water Content [gm/km^2]
15:51:42 Tue Apr 30 2013 /Users/deland/pmc/programs/gplot_v3_iwc_sza_273.pro
ORBIT NODE choice = ALL nodes
AREA = 1.63E+07 km^2
DETECTION threshold = f(SZA)
RESIDUAL filter: $r_{252}/r_{273} < 5$

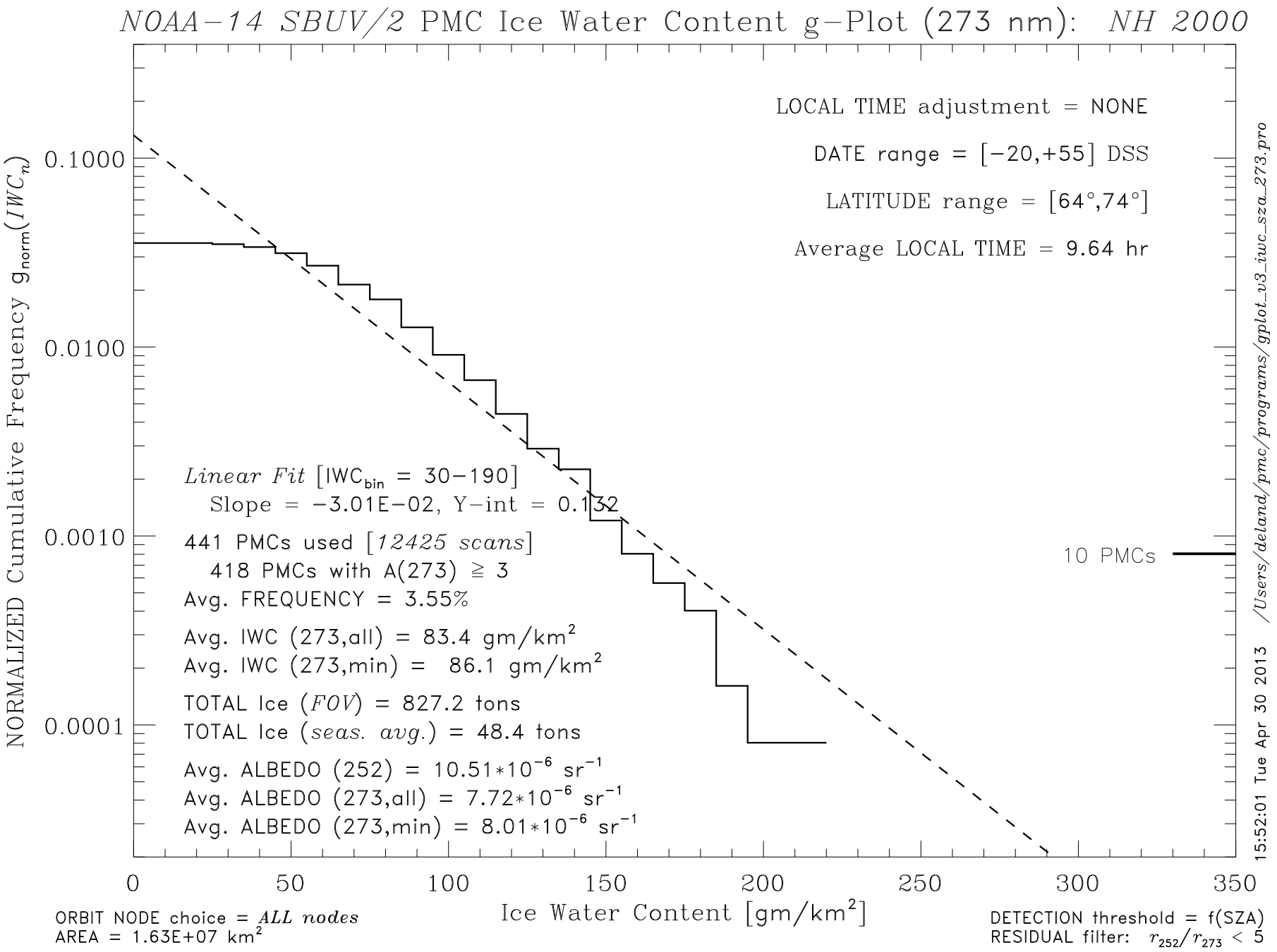

NOAA-14 SBUV/2 PMC Ice Water Content g-Plot (273 nm): NH 1995
LOCAL TIME adjustment = NONE
DATE range = [-20,+55] DSS
LATITUDE range = [64°,74°]
Average LOCAL TIME = 8.22 hr
Linear Fit [IWC_bin = 30-230]
Slope = -2.49E-02, Y-int = 0.226
592 PMCs used [8515 scans]
561 PMCs with A(273) ≧ 3
Avg. FREQUENCY = 6.95%
Avg. IWC (273,all) = 92.9 gm/km²
Avg. IWC (273,min) = 96.1 gm/km²
TOTAL Ice (FOV) = 1236.8 tons
TOTAL Ice (seas. avg.) = 105.5 tons
Avg. ALBEDO (252) = 12.66*10⁻⁶ sr⁻¹
Avg. ALBEDO (273,all) = 9.43*10⁻⁶ sr⁻¹
Avg. ALBEDO (273,min) = 9.82*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
Ice Water Content [gm/km²]
ORBIT NODE choice = ALL nodes
AREA = 1.63E+07 km²
DETECTION threshold = f(SZA)
RESIDUAL filter: r252/r273 < 5
15:51:57 Tue Apr 30 2013 /Users/deland/pmc/programs/gplot_v3_iwc_sza_273.pro

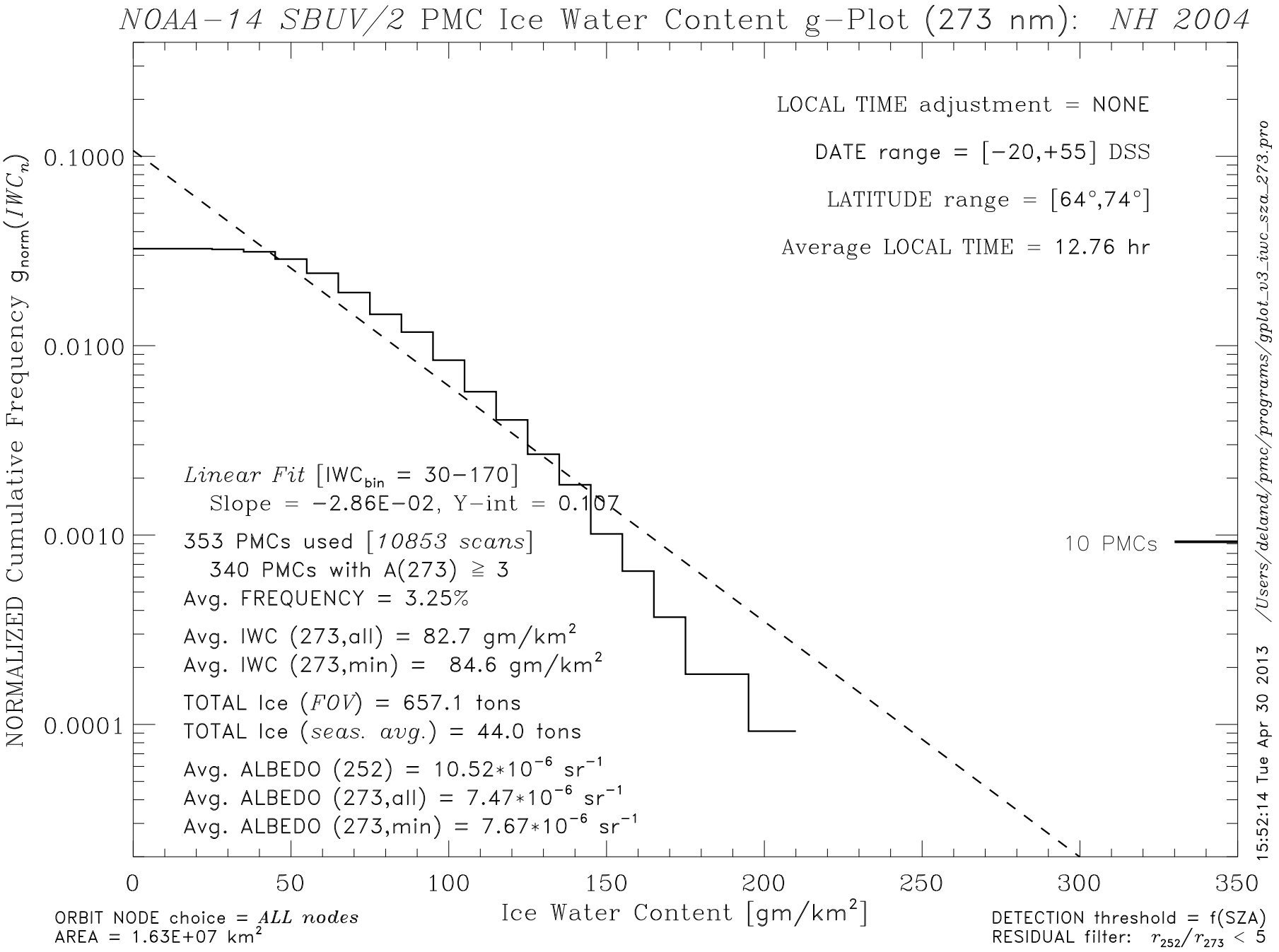

NOAA-14 SBUV/2 PMC Ice Water Content g-Plot (273 nm): NH 1996
LOCAL TIME adjustment = NONE
DATE range = [-20,+55] DSS
LATITUDE range = [64°,74°]
Average LOCAL TIME = 7.45 hr
Linear Fit [IWC_bin = 30-260]
Slope = -2.31E-02, Y-int = 0.264
854 PMCs used [10363 scans]
827 PMCs with A(273) ≧ 3
Avg. FREQUENCY = 8.24%
Avg. IWC (273,all) = 98.9 gm/km²
Avg. IWC (273,min) = 101.1 gm/km²
TOTAL Ice (FOV) = 1901.2 tons
TOTAL Ice (seas. avg.) = 133.3 tons
Avg. ALBEDO (252) = 13.77*10⁻⁶ sr⁻¹
Avg. ALBEDO (273,all) = 10.36*10⁻⁶ sr⁻¹
Avg. ALBEDO (273,min) = 10.62*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
Ice Water Content [gm/km²]
ORBIT NODE choice = ALL nodes
AREA = 1.63E+07 km²
DETECTION threshold = f(SZA)
RESIDUAL filter: r252/r273 < 5
15:51:58 Tue Apr 30 2013 /Users/deland/pmc/programs/gplot_v3_iwc_sza_273.pro

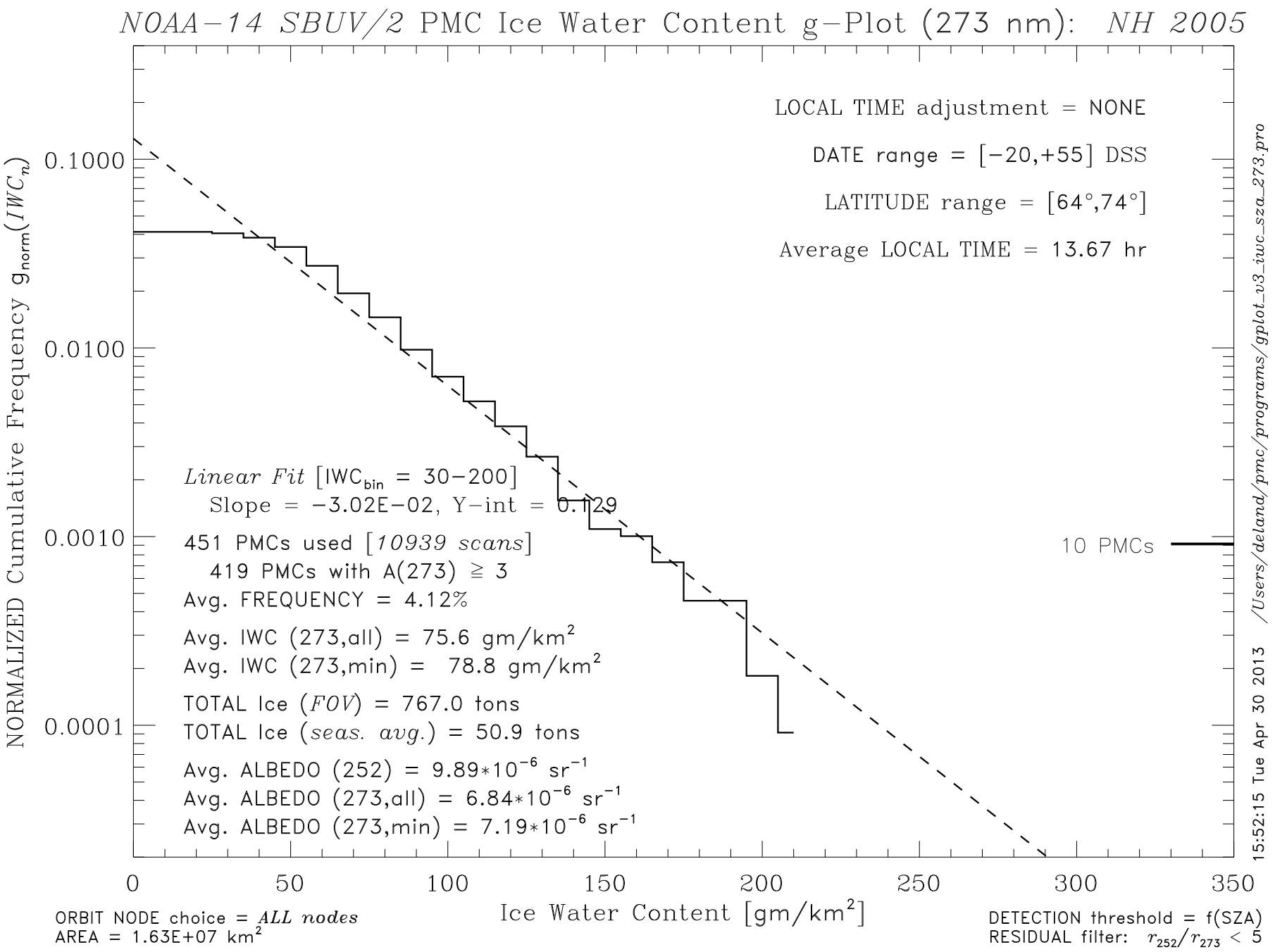

NOAA-14 SBUV/2 PMC Ice Water Content g-Plot (273 nm): NH 1997
LOCAL TIME adjustment = NONE
DATE range = [-20,+55] DSS
LATITUDE range = [64°,74°]
Average LOCAL TIME = 7.88 hr
Linear Fit [IWC_bin = 30-270]
Slope = -2.32E-02, Y-int = 0.308
1106 PMCs used [11936 scans]
1054 PMCs with A(273) ≧ 3
Avg. FREQUENCY = 9.27%
Avg. IWC (273,all) = 100.9 gm/km²
Avg. IWC (273,min) = 104.2 gm/km²
TOTAL Ice (FOV) = 2511.1 tons
TOTAL Ice (seas. avg.) = 152.8 tons
Avg. ALBEDO (252) = 13.94*10⁻⁶ sr⁻¹
Avg. ALBEDO (273,all) = 10.40*10⁻⁶ sr⁻¹
Avg. ALBEDO (273,min) = 10.79*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
Ice Water Content [gm/km²]
ORBIT NODE choice = ALL nodes
AREA = 1.63E+07 km²
DETECTION threshold = f(SZA)
RESIDUAL filter: r252/r273 < 5
15:51:58 Tue Apr 30 2013 /Users/deland/pmc/programs/gplot_v3_iwc_sza_273.pro

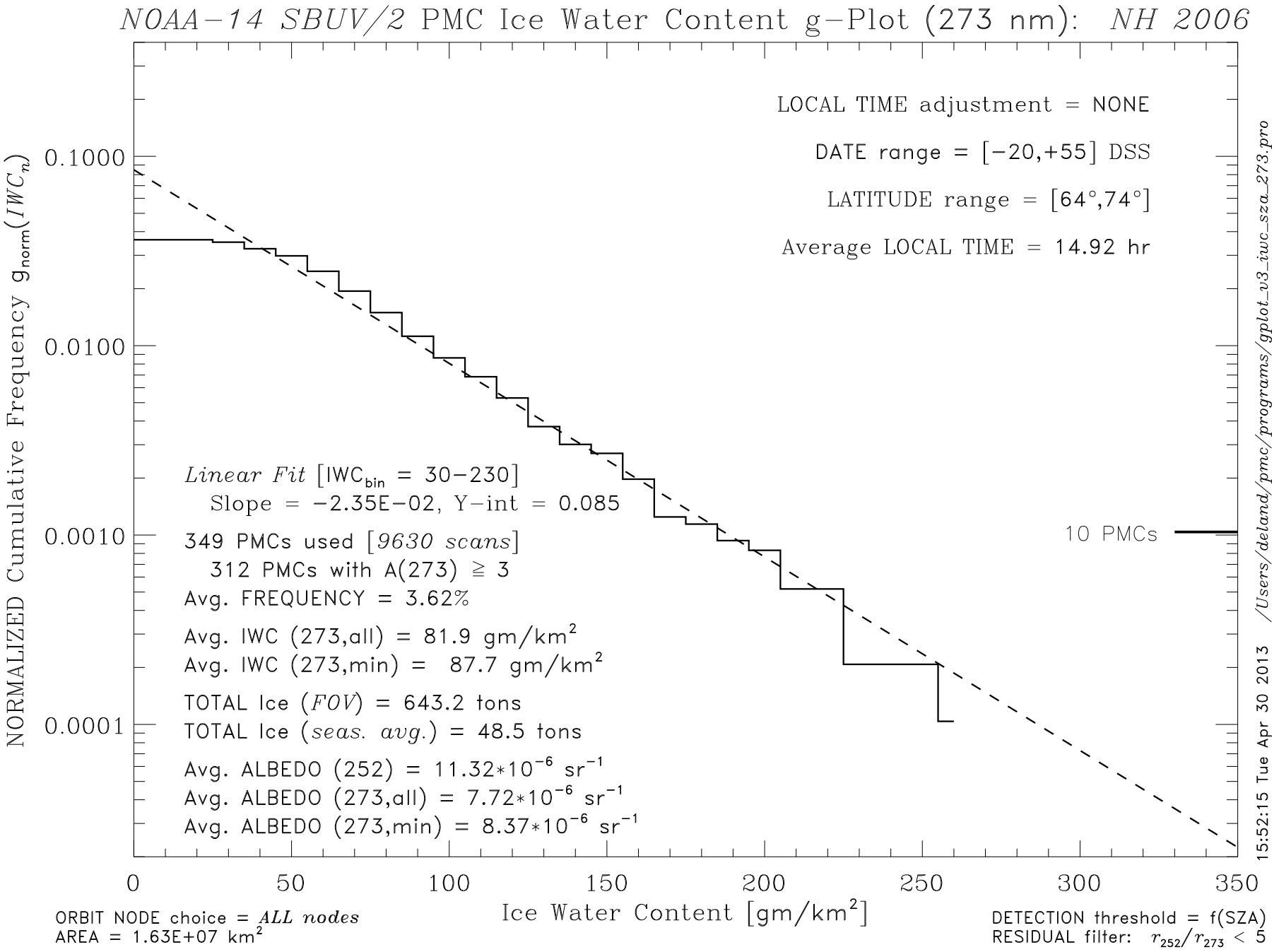

NOAA-14 SBUV/2 PMC Ice Water Content g-Plot (273 nm): NH 1998
LOCAL TIME adjustment = NONE
DATE range = [-20,+55] DSS
LATITUDE range = [64°,74°]
Average LOCAL TIME = 8.20 hr
NORMALIZED Cumulative Frequency $g_{norm}(IWC_n)$
0.1000
0.0100
0.0010
0.0001
Linear Fit [IWC_{bin} = 30-160]
Slope = -2.85E-02, Y-int = 0.988
286 PMCs used [9354 scans]
255 PMCs with A(273) ≧ 3
Avg. FREQUENCY = 3.06%
Avg. IWC (273,all) = 76.0 gm/km^2
Avg. IWC (273,min) = 81.2 gm/km^2
TOTAL Ice (FOV) = 488.9 tons
TOTAL Ice (seas. avg.) = 38.0 tons
Avg. ALBEDO (252) = 10.84*10^{-6} sr^{-1}
Avg. ALBEDO (273,all) = 7.35*10^{-6} sr^{-1}
Avg. ALBEDO (273,min) = 7.96*10^{-6} sr^{-1}
10 PMCs
0
50
100
150
200
250
300
350
Ice Water Content [gm/km^2]
ORBIT NODE choice = ALL nodes
AREA = 1.63E+07 km^2
DETECTION threshold = f(SZA)
RESIDUAL filter: $r_{252}/r_{273} < 5$
15:51:59 Tue Apr 30 2013 /Users/deland/pmc/programs/gplot_v3_iwc_sza_273.pro

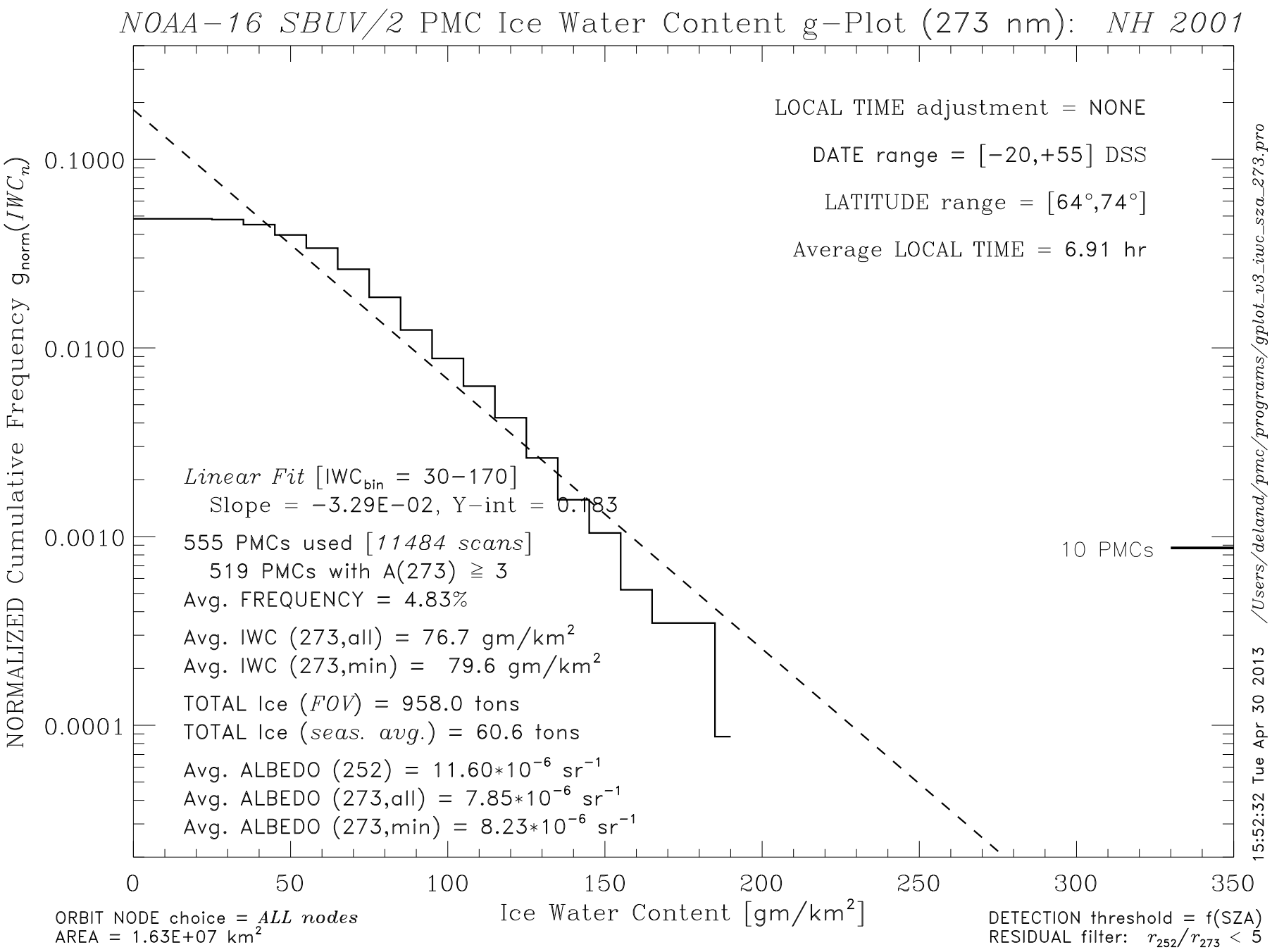

NOAA-14 SBUV/2 PMC Ice Water Content g-Plot (273 nm): NH 1999
LOCAL TIME adjustment = NONE
DATE range = [-20,+55] DSS
LATITUDE range = [64°,74°]
Average LOCAL TIME = 8.23 hr
NORMALIZED Cumulative Frequency $g_{norm}(IWC_n)$
0.1000
0.0100
0.0010
0.0001
Linear Fit [IWC_{bin} = 30-190]
Slope = -2.84E-02, Y-int = 0.137
528 PMCs used [12446 scans]
501 PMCs with A(273) ≧ 3
Avg. FREQUENCY = 4.24%
Avg. IWC (273,all) = 81.3 gm/km^2
Avg. IWC (273,min) = 84.0 gm/km^2
TOTAL Ice (FOV) = 966.2 tons
TOTAL Ice (seas. avg.) = 56.4 tons
Avg. ALBEDO (252) = 10.93*10^{-6} sr^{-1}
Avg. ALBEDO (273,all) = 7.82*10^{-6} sr^{-1}
Avg. ALBEDO (273,min) = 8.12*10^{-6} sr^{-1}
10 PMCs
0
50
100
150
200
250
300
350
Ice Water Content [gm/km^2]
15:52:00 Tue Apr 30 2013 /Users/deland/pmc/programs/gplot_v3_iwc_sza_273.pro
ORBIT NODE choice = ALL nodes
AREA = 1.63E+07 km^2
DETECTION threshold = f(SZA)
RESIDUAL filter: $r_{252}/r_{273} < 5$

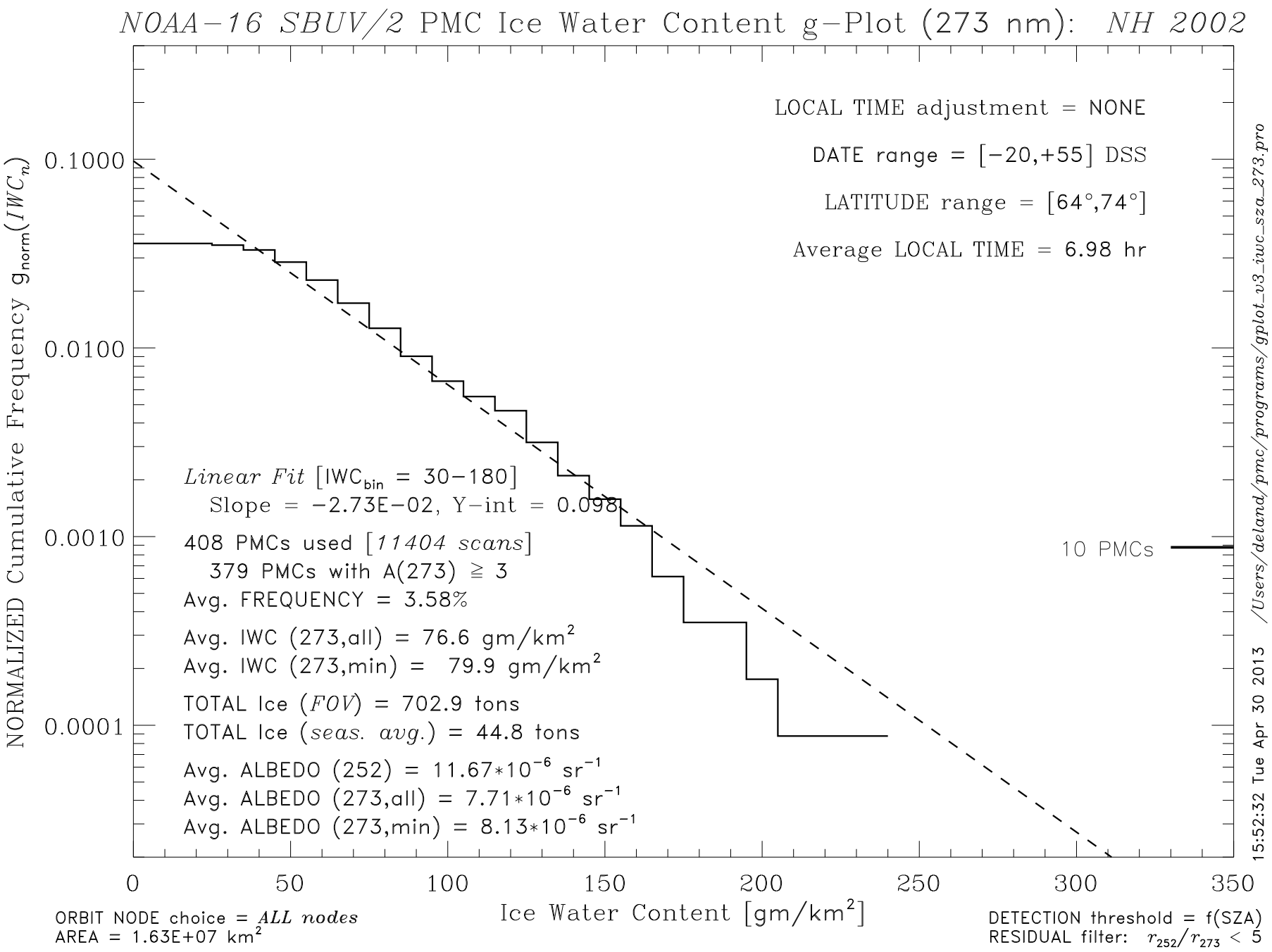

NOAA-14 SBUV/2 PMC Ice Water Content g-Plot (273 nm): NH 2000
LOCAL TIME adjustment = NONE
DATE range = [-20,+55] DSS
LATITUDE range = [64°,74°]
Average LOCAL TIME = 9.64 hr
NORMALIZED Cumulative Frequency $g_{norm}(IWC_n)$
0.1000
0.0100
0.0010
0.0001
Linear Fit [IWC_{bin} = 30-190]
Slope = -3.01E-02, Y-int = 0.132
441 PMCs used [12425 scans]
418 PMCs with A(273) ≧ 3
Avg. FREQUENCY = 3.55%
Avg. IWC (273,all) = 83.4 gm/km^2
Avg. IWC (273,min) = 86.1 gm/km^2
TOTAL Ice (FOV) = 827.2 tons
TOTAL Ice (seas. avg.) = 48.4 tons
Avg. ALBEDO (252) = 10.51*10^{-6} sr^{-1}
Avg. ALBEDO (273,all) = 7.72*10^{-6} sr^{-1}
Avg. ALBEDO (273,min) = 8.01*10^{-6} sr^{-1}
10 PMCs
0
50
100
150
200
250
300
350
Ice Water Content [gm/km^2]
15:52:01 Tue Apr 30 2013 /Users/deland/pmc/programs/gplot_v3_iwc_sza_273.pro
ORBIT NODE choice = ALL nodes
AREA = 1.63E+07 km^2
DETECTION threshold = f(SZA)
RESIDUAL filter: $r_{252}/r_{273} < 5$

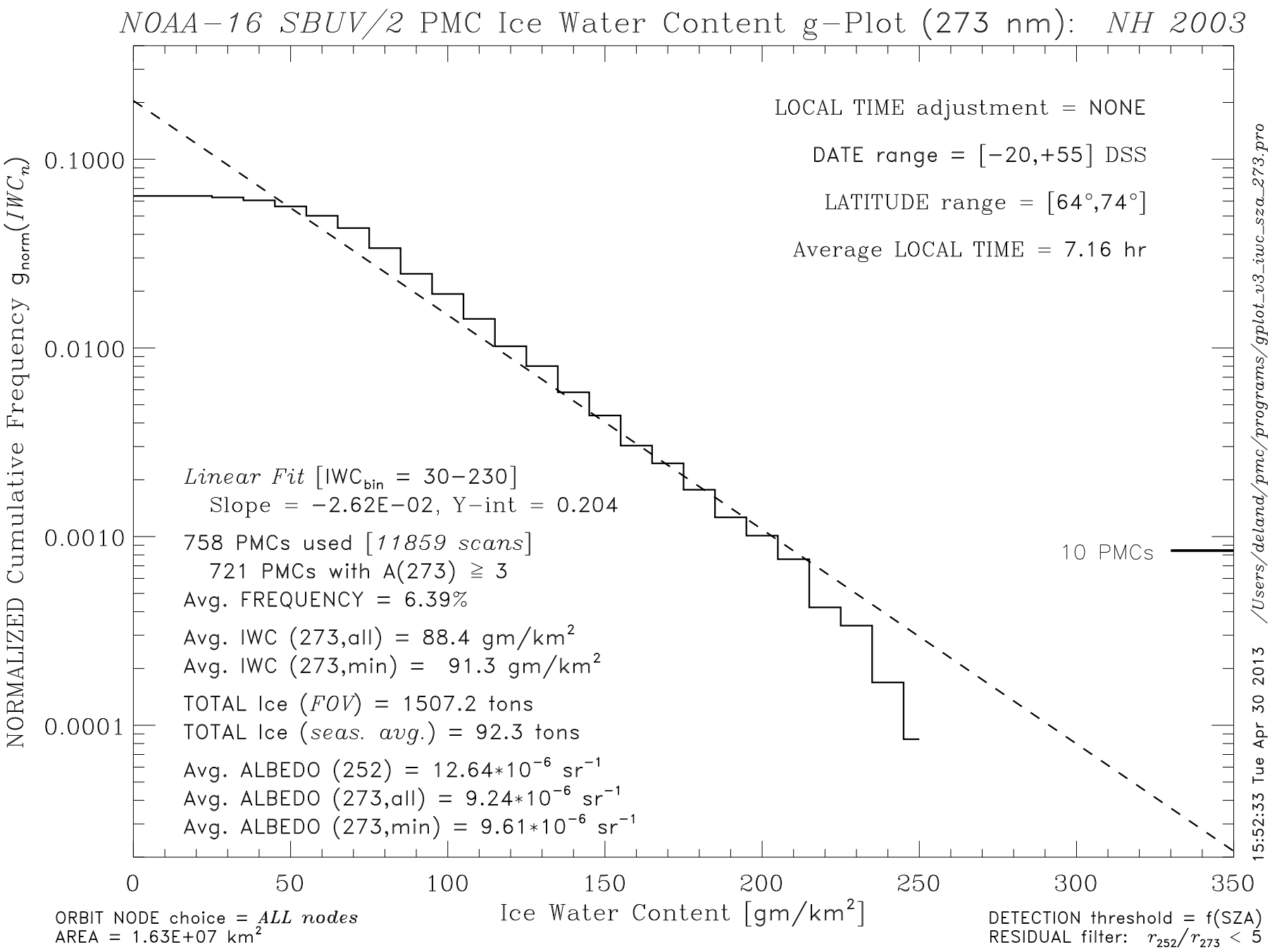

NOAA−14 SBUV/2 PMC Ice Water Content g−Plot (273 nm): NH 2004
LOCAL TIME adjustment = NONE
DATE range = [−20,+55] DSS
LATITUDE range = [64°,74°]
Average LOCAL TIME = 12.76 hr
Linear Fit [IWC_bin = 30−170]
Slope = −2.86E−02, Y−int = 0.107
353 PMCs used [10853 scans]
340 PMCs with A(273) ≧ 3
Avg. FREQUENCY = 3.25%
Avg. IWC (273,all) = 82.7 gm/km²
Avg. IWC (273,min) = 84.6 gm/km²
TOTAL Ice (FOV) = 657.1 tons
TOTAL Ice (seas. avg.) = 44.0 tons
Avg. ALBEDO (252) = 10.52*10⁻⁶ sr⁻¹
Avg. ALBEDO (273,all) = 7.47*10⁻⁶ sr⁻¹
Avg. ALBEDO (273,min) = 7.67*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
Ice Water Content [gm/km²]
ORBIT NODE choice = ALL nodes
AREA = 1.63E+07 km²
DETECTION threshold = f(SZA)
RESIDUAL filter: r252/r273 < 5
15:52:14 Tue Apr 30 2013 /Users/deland/pmc/programs/gplot_v3_iwc_sza_273.pro

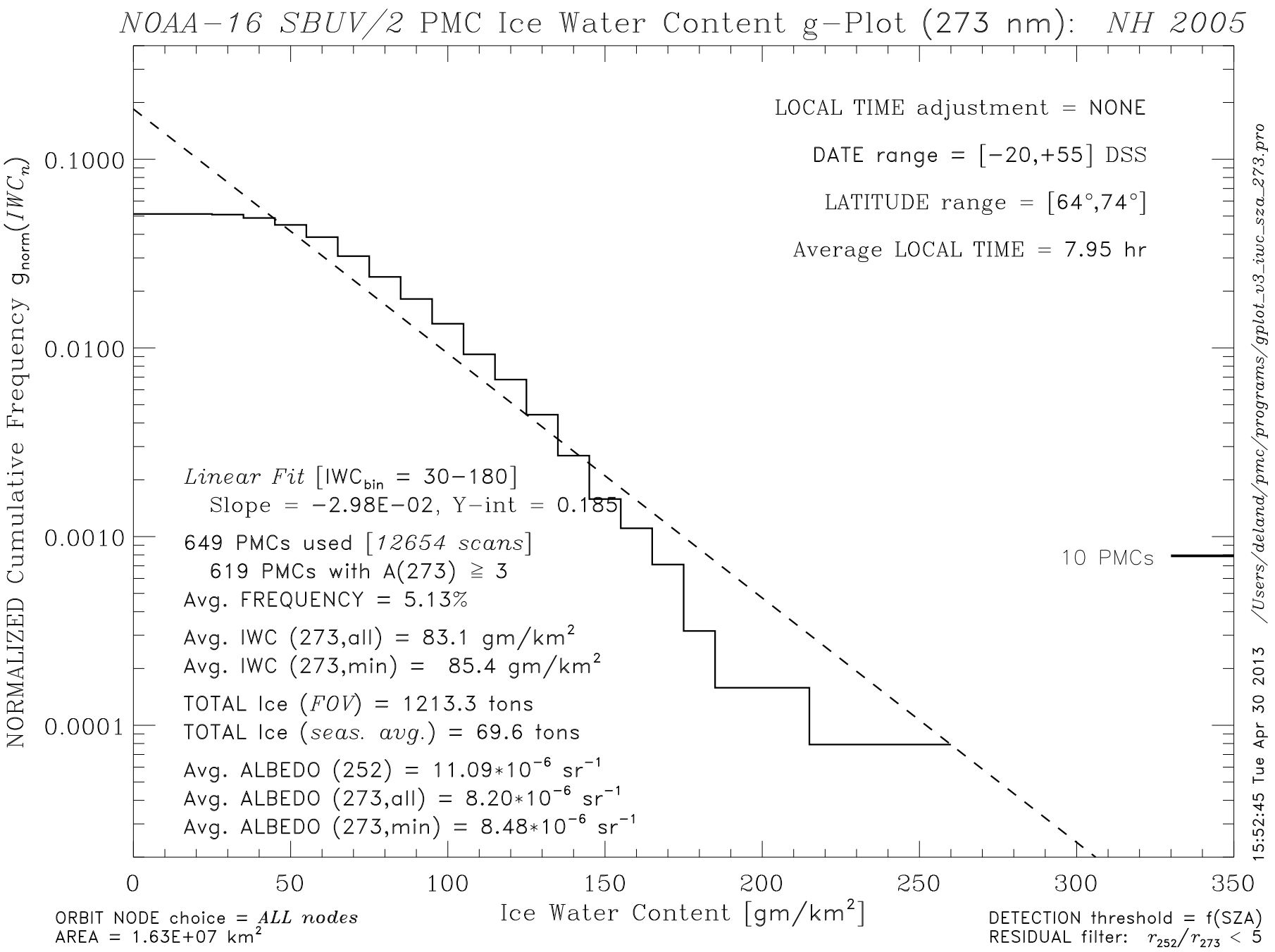

NOAA-14 SBUV/2 PMC Ice Water Content g-Plot (273 nm): NH 2005
LOCAL TIME adjustment = NONE
DATE range = [-20,+55] DSS
LATITUDE range = [64°,74°]
Average LOCAL TIME = 13.67 hr
Linear Fit [IWC_bin = 30-200]
Slope = -3.02E-02, Y-int = 0.129
451 PMCs used [10939 scans]
419 PMCs with A(273) ≧ 3
Avg. FREQUENCY = 4.12%
Avg. IWC (273,all) = 75.6 gm/km²
Avg. IWC (273,min) = 78.8 gm/km²
TOTAL Ice (FOV) = 767.0 tons
TOTAL Ice (seas. avg.) = 50.9 tons
Avg. ALBEDO (252) = 9.89*10⁻⁶ sr⁻¹
Avg. ALBEDO (273,all) = 6.84*10⁻⁶ sr⁻¹
Avg. ALBEDO (273,min) = 7.19*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
Ice Water Content [gm/km²]
ORBIT NODE choice = ALL nodes
AREA = 1.63E+07 km²
DETECTION threshold = f(SZA)
RESIDUAL filter: r252/r273 < 5
15:52:15 Tue Apr 30 2013 /Users/deland/pmc/programs/gplot_v3_iwc_sza_273.pro

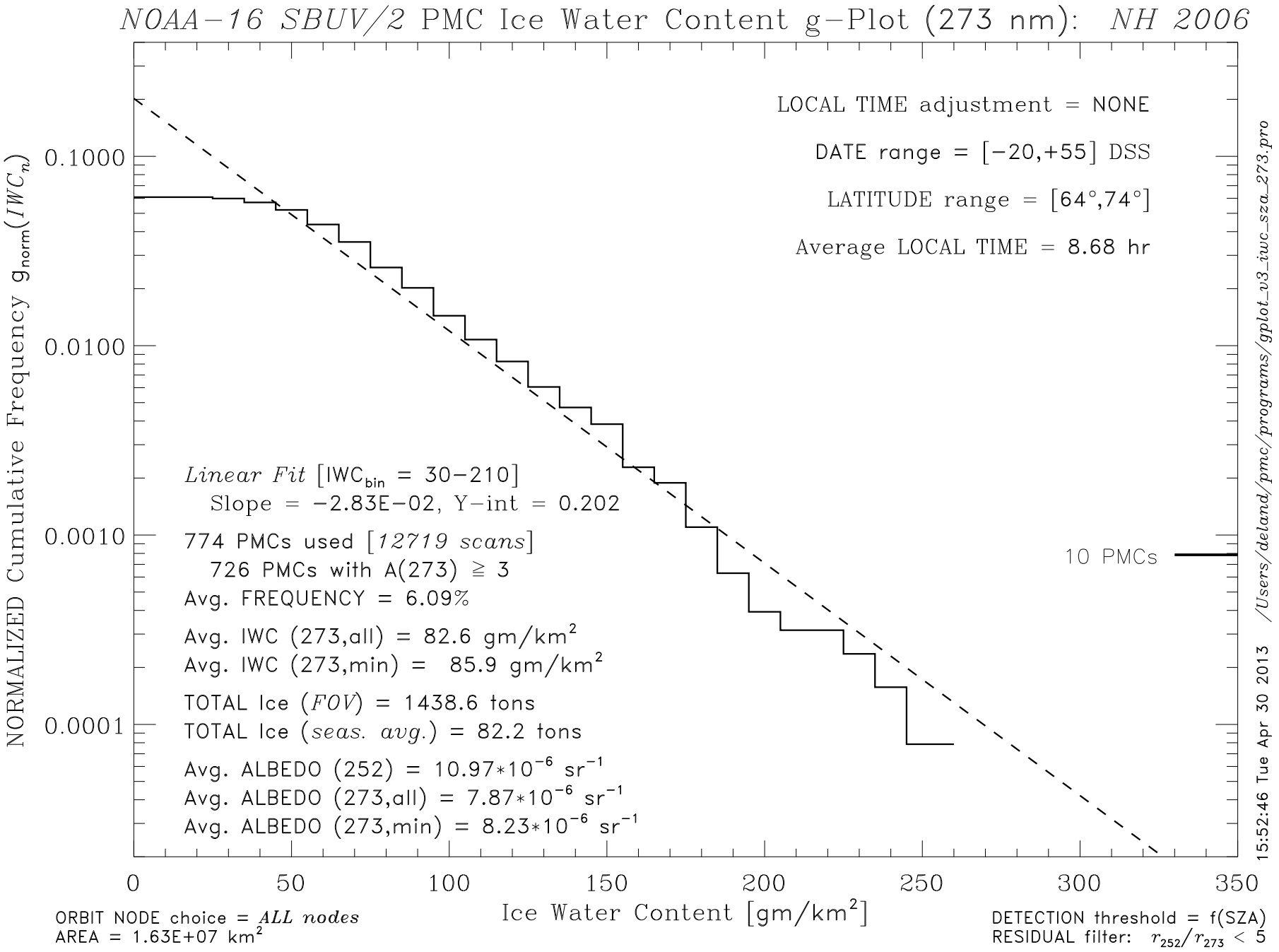

NOAA−14 SBUV/2 PMC Ice Water Content g−Plot (273 nm): NH 2006
LOCAL TIME adjustment = NONE
DATE range = [−20,+55] DSS
LATITUDE range = [64°,74°]
Average LOCAL TIME = 14.92 hr
Linear Fit [IWC_bin = 30−230]
Slope = −2.35E−02, Y−int = 0.085
349 PMCs used [9630 scans]
312 PMCs with A(273) ≧ 3
Avg. FREQUENCY = 3.62%
Avg. IWC (273,all) = 81.9 gm/km²
Avg. IWC (273,min) = 87.7 gm/km²
TOTAL Ice (FOV) = 643.2 tons
TOTAL Ice (seas. avg.) = 48.5 tons
Avg. ALBEDO (252) = 11.32*10⁻⁶ sr⁻¹
Avg. ALBEDO (273,all) = 7.72*10⁻⁶ sr⁻¹
Avg. ALBEDO (273,min) = 8.37*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
Ice Water Content [gm/km²]
ORBIT NODE choice = ALL nodes
AREA = 1.63E+07 km²
DETECTION threshold = f(SZA)
RESIDUAL filter: r252/r273 < 5
15:52:15 Tue Apr 30 2013 /Users/deland/pmc/programs/gplot_v3_iwc_sza_273.pro

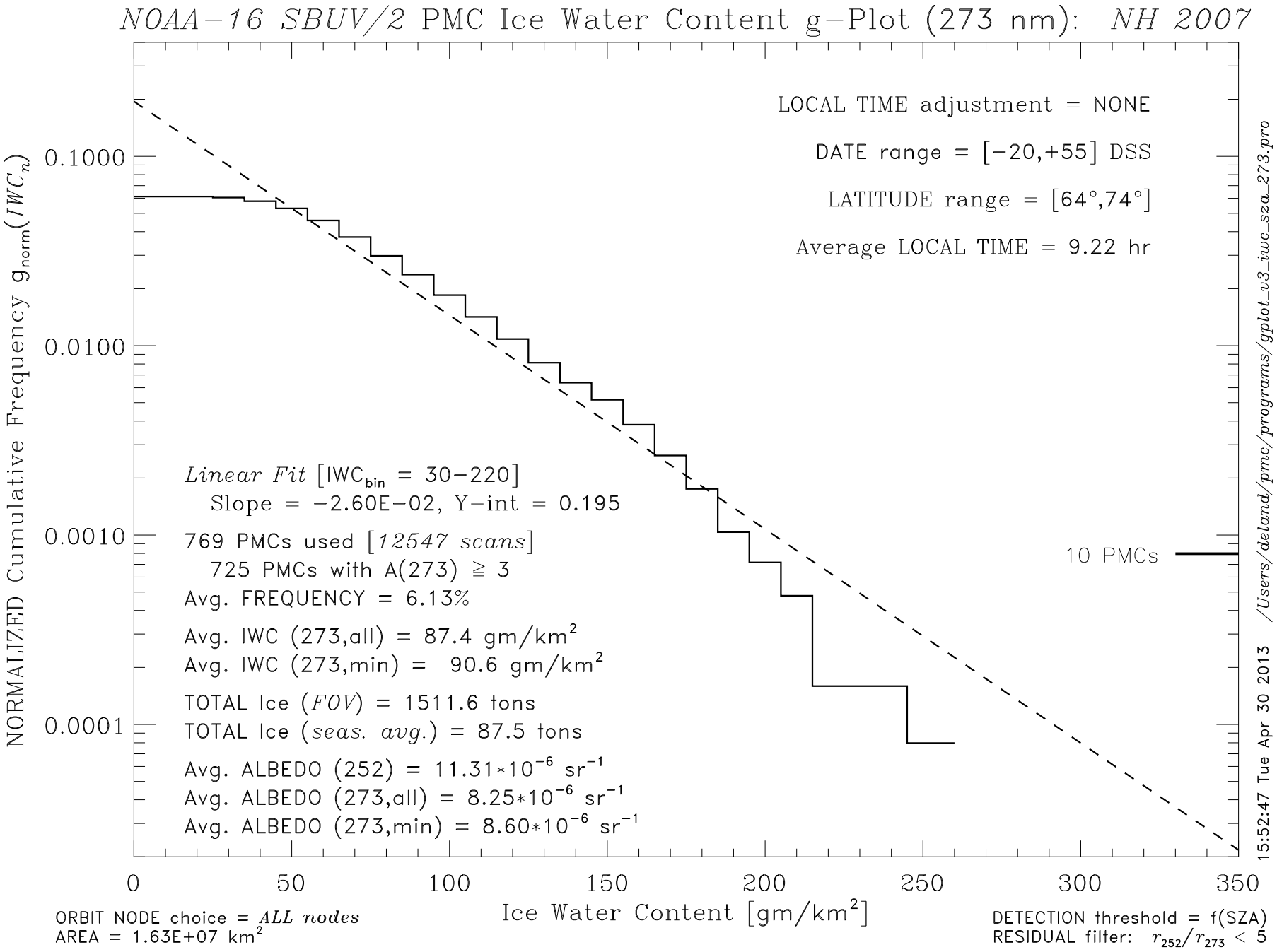

NOAA-16 SBUV/2 PMC Ice Water Content g-Plot (273 nm): NH 2001
LOCAL TIME adjustment = NONE
DATE range = [-20,+55] DSS
LATITUDE range = [64°,74°]
Average LOCAL TIME = 6.91 hr
Linear Fit [IWC_bin = 30-170]
Slope = -3.29E-02, Y-int = 0.183
555 PMCs used [11484 scans]
519 PMCs with A(273) ≧ 3
Avg. FREQUENCY = 4.83%
Avg. IWC (273,all) = 76.7 gm/km²
Avg. IWC (273,min) = 79.6 gm/km²
TOTAL Ice (FOV) = 958.0 tons
TOTAL Ice (seas. avg.) = 60.6 tons
Avg. ALBEDO (252) = 11.60*10⁻⁶ sr⁻¹
Avg. ALBEDO (273,all) = 7.85*10⁻⁶ sr⁻¹
Avg. ALBEDO (273,min) = 8.23*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
Ice Water Content [gm/km²]
ORBIT NODE choice = ALL nodes
AREA = 1.63E+07 km²
DETECTION threshold = f(SZA)
RESIDUAL filter: r252/r273 < 5
15:52:32 Tue Apr 30 2013 /Users/deland/pmc/programs/gplot_v3_iwc_sza_273.pro

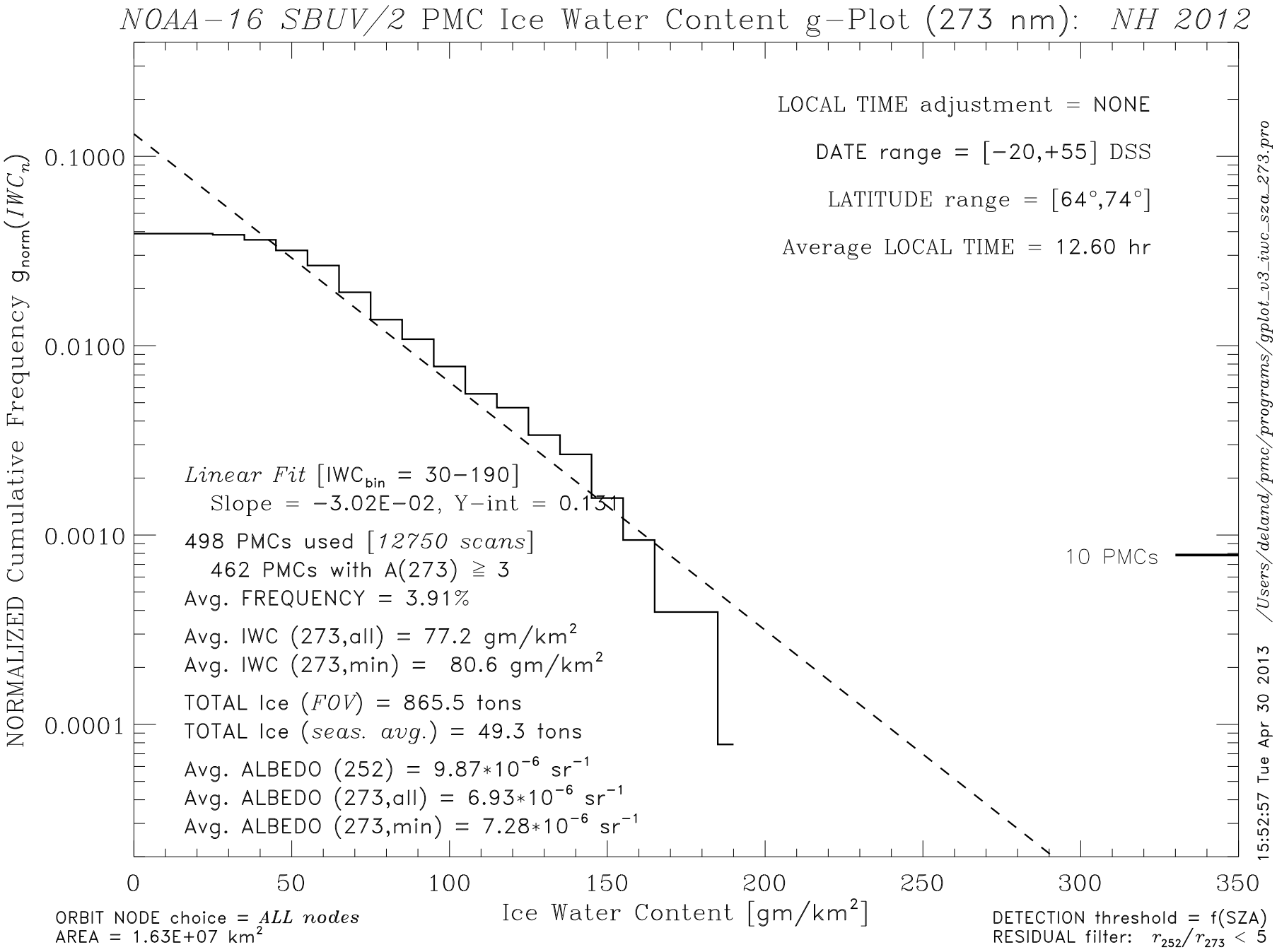

NOAA−16 SBUV/2 PMC Ice Water Content g−Plot (273 nm): NH 2002
LOCAL TIME adjustment = NONE
DATE range = [−20,+55] DSS
LATITUDE range = [64°,74°]
Average LOCAL TIME = 6.98 hr
NORMALIZED Cumulative Frequency $g_{norm}(IWC_n)$
0.1000
0.0100
0.0010
0.0001
Linear Fit [IWC_{bin} = 30−180]
Slope = −2.73E−02, Y−int = 0.098
408 PMCs used [11404 scans]
379 PMCs with A(273) ≧ 3
Avg. FREQUENCY = 3.58%
Avg. IWC (273,all) = 76.6 gm/km^2
Avg. IWC (273,min) = 79.9 gm/km^2
TOTAL Ice (FOV) = 702.9 tons
TOTAL Ice (seas. avg.) = 44.8 tons
Avg. ALBEDO (252) = 11.67*10^{-6} sr^{-1}
Avg. ALBEDO (273,all) = 7.71*10^{-6} sr^{-1}
Avg. ALBEDO (273,min) = 8.13*10^{-6} sr^{-1}
10 PMCs
0
50
100
150
200
250
300
350
Ice Water Content [gm/km^2]
ORBIT NODE choice = ALL nodes
AREA = 1.63E+07 km^2
DETECTION threshold = f(SZA)
RESIDUAL filter: $r_{252}/r_{273} < 5$
15:52:32 Tue Apr 30 2013 /Users/deland/pmc/programs/gplot_v3_iwc_sza_273.pro

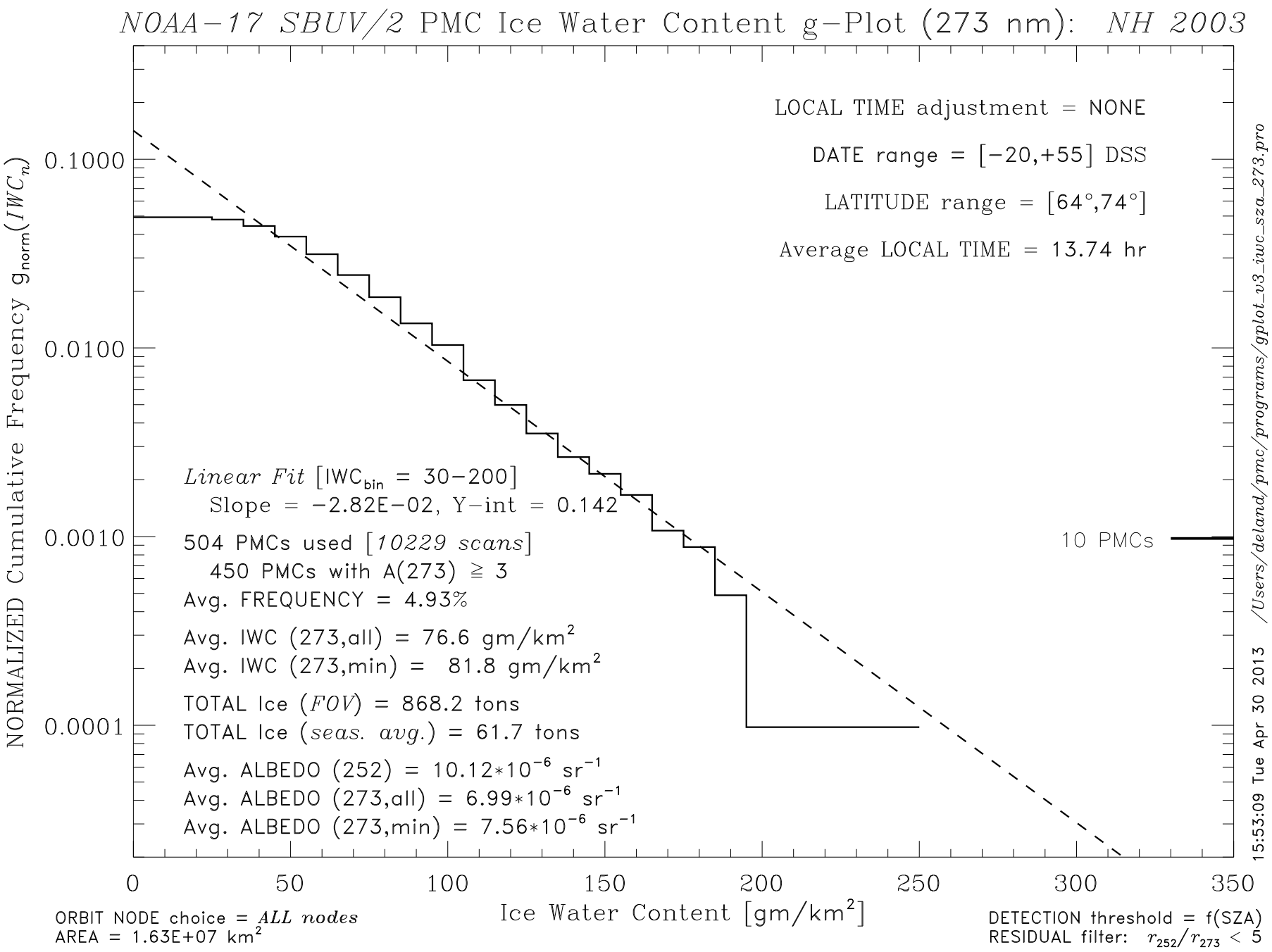

NOAA-16 SBUV/2 PMC Ice Water Content g-Plot (273 nm): NH 2003
LOCAL TIME adjustment = NONE
DATE range = [-20,+55] DSS
LATITUDE range = [64°,74°]
Average LOCAL TIME = 7.16 hr
NORMALIZED Cumulative Frequency $g_{norm}(IWC_n)$
0.1000
0.0100
0.0010
0.0001
Linear Fit [IWC_{bin} = 30-230]
Slope = -2.62E-02, Y-int = 0.204
758 PMCs used [11859 scans]
721 PMCs with A(273) ≧ 3
Avg. FREQUENCY = 6.39%
Avg. IWC (273,all) = 88.4 gm/km^2
Avg. IWC (273,min) = 91.3 gm/km^2
TOTAL Ice (FOV) = 1507.2 tons
TOTAL Ice (seas. avg.) = 92.3 tons
Avg. ALBEDO (252) = 12.64*10^{-6} sr^{-1}
Avg. ALBEDO (273,all) = 9.24*10^{-6} sr^{-1}
Avg. ALBEDO (273,min) = 9.61*10^{-6} sr^{-1}
10 PMCs
0
50
100
150
200
250
300
350
Ice Water Content [gm/km^2]
15:52:33 Tue Apr 30 2013 /Users/deland/pmc/programs/gplot_v3_iwc_sza_273.pro
ORBIT NODE choice = ALL nodes
AREA = 1.63E+07 km^2
DETECTION threshold = f(SZA)
RESIDUAL filter: $r_{252}/r_{273} < 5$

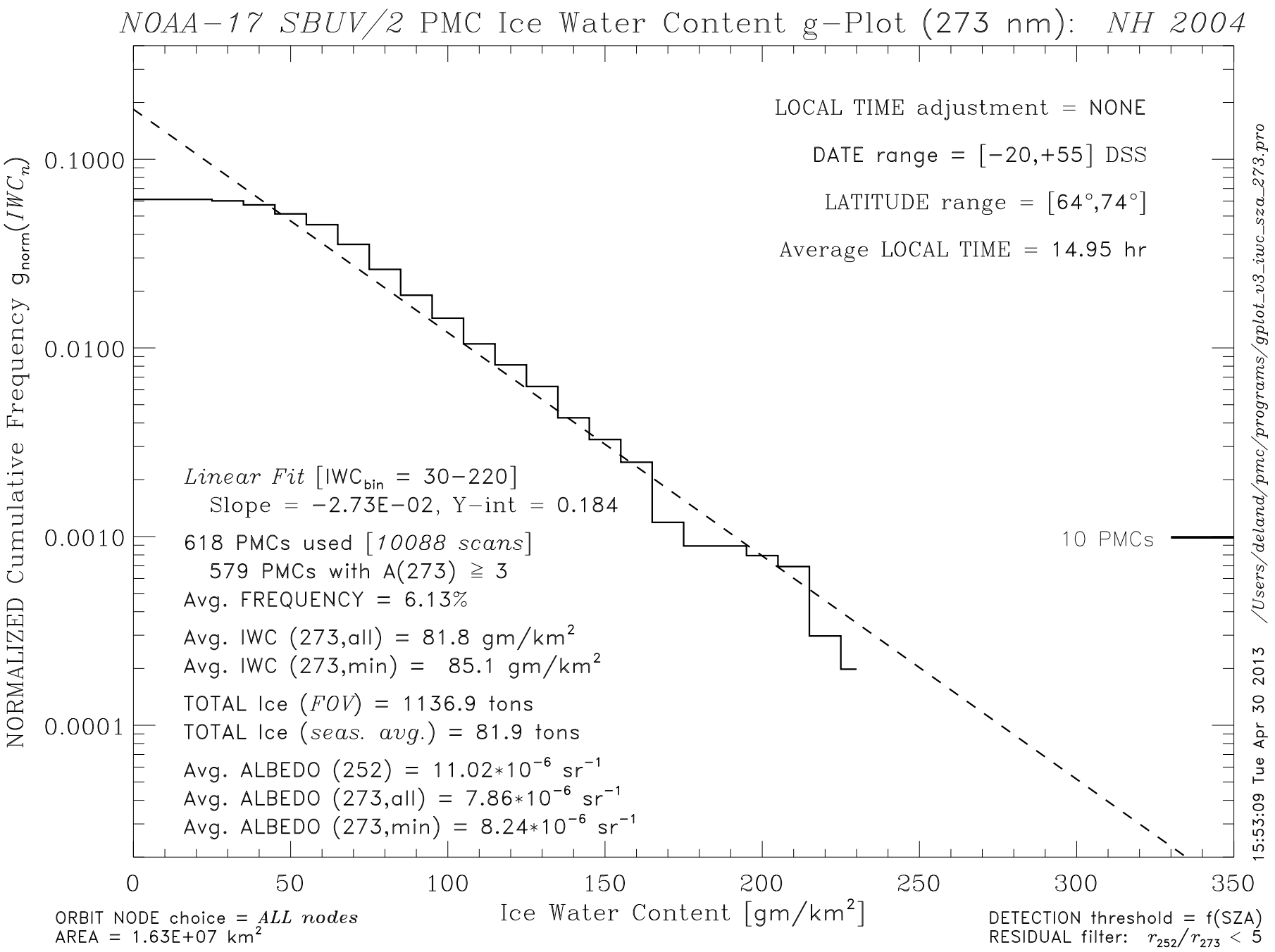

NOAA-16 SBUV/2 PMC Ice Water Content g-Plot (273 nm): NH 2005
LOCAL TIME adjustment = NONE
DATE range = [-20,+55] DSS
LATITUDE range = [64°,74°]
Average LOCAL TIME = 7.95 hr
NORMALIZED Cumulative Frequency $g_{norm}(IWC_n)$
0.1000
0.0100
0.0010
0.0001
Linear Fit [IWC_{bin} = 30-180]
Slope = -2.98E-02, Y-int = 0.185
649 PMCs used [12654 scans]
619 PMCs with A(273) ≧ 3
Avg. FREQUENCY = 5.13%
Avg. IWC (273,all) = 83.1 gm/km^2
Avg. IWC (273,min) = 85.4 gm/km^2
TOTAL Ice (FOV) = 1213.3 tons
TOTAL Ice (seas. avg.) = 69.6 tons
Avg. ALBEDO (252) = 11.09*10^{-6} sr^{-1}
Avg. ALBEDO (273,all) = 8.20*10^{-6} sr^{-1}
Avg. ALBEDO (273,min) = 8.48*10^{-6} sr^{-1}
10 PMCs
0
50
100
150
200
250
300
350
Ice Water Content [gm/km^2]
ORBIT NODE choice = ALL nodes
AREA = 1.63E+07 km^2
DETECTION threshold = f(SZA)
RESIDUAL filter: $r_{252}/r_{273} < 5$
15:52:45 Tue Apr 30 2013 /Users/deland/pmc/programs/gplot_v3_iwc_sza_273.pro

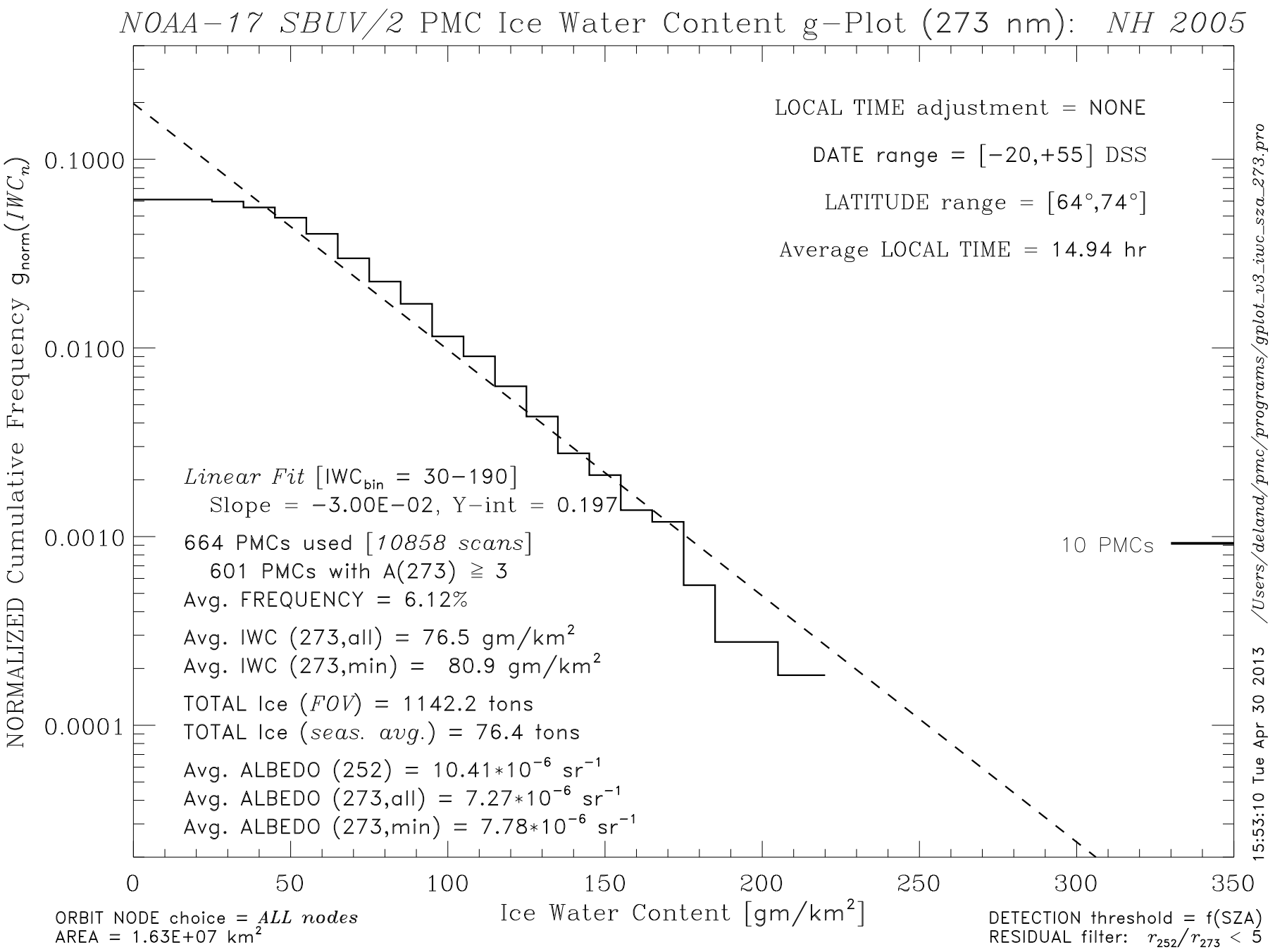

NOAA-16 SBUV/2 PMC Ice Water Content g-Plot (273 nm): NH 2006
LOCAL TIME adjustment = NONE
DATE range = [-20,+55] DSS
LATITUDE range = [64°,74°]
Average LOCAL TIME = 8.68 hr
Linear Fit [IWC_bin = 30-210]
Slope = -2.83E-02, Y-int = 0.202
774 PMCs used [12719 scans]
726 PMCs with A(273) ≧ 3
Avg. FREQUENCY = 6.09%
Avg. IWC (273,all) = 82.6 gm/km²
Avg. IWC (273,min) = 85.9 gm/km²
TOTAL Ice (FOV) = 1438.6 tons
TOTAL Ice (seas. avg.) = 82.2 tons
Avg. ALBEDO (252) = 10.97*10⁻⁶ sr⁻¹
Avg. ALBEDO (273,all) = 7.87*10⁻⁶ sr⁻¹
Avg. ALBEDO (273,min) = 8.23*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
Ice Water Content [gm/km²]
ORBIT NODE choice = ALL nodes
AREA = 1.63E+07 km²
DETECTION threshold = f(SZA)
RESIDUAL filter: r252/r273 < 5
15:52:46 Tue Apr 30 2013 /Users/deland/pmc/programs/gplot_v3_iwc_sza_273.pro

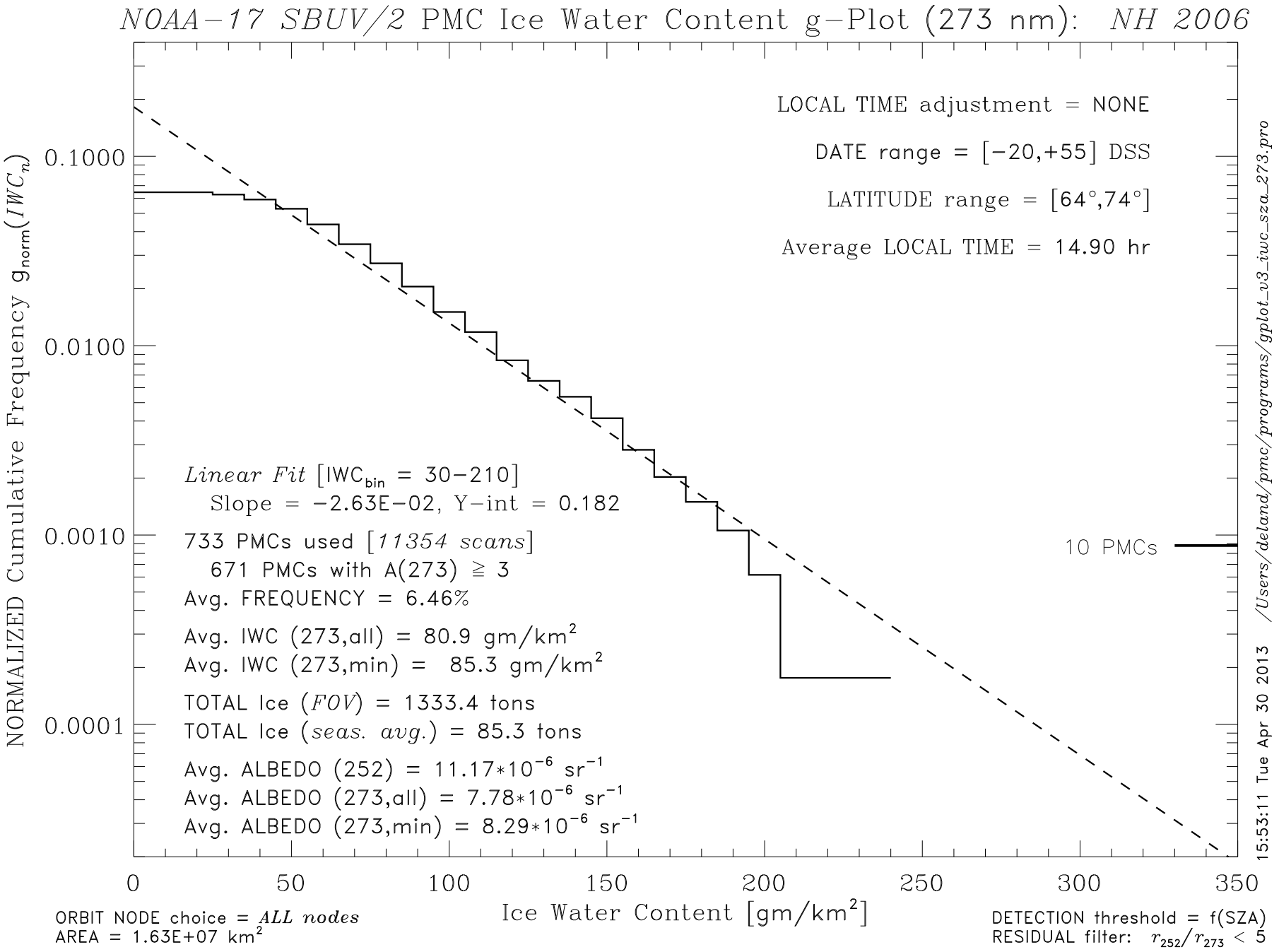

NOAA-16 SBUV/2 PMC Ice Water Content g-Plot (273 nm): NH 2007
LOCAL TIME adjustment = NONE
DATE range = [-20,+55] DSS
LATITUDE range = [64°,74°]
Average LOCAL TIME = 9.22 hr
Linear Fit [IWC_bin = 30-220]
Slope = -2.60E-02, Y-int = 0.195
769 PMCs used [12547 scans]
725 PMCs with A(273) ≧ 3
Avg. FREQUENCY = 6.13%
Avg. IWC (273,all) = 87.4 gm/km²
Avg. IWC (273,min) = 90.6 gm/km²
TOTAL Ice (FOV) = 1511.6 tons
TOTAL Ice (seas. avg.) = 87.5 tons
Avg. ALBEDO (252) = 11.31*10⁻⁶ sr⁻¹
Avg. ALBEDO (273,all) = 8.25*10⁻⁶ sr⁻¹
Avg. ALBEDO (273,min) = 8.60*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
Ice Water Content [gm/km²]
ORBIT NODE choice = ALL nodes
AREA = 1.63E+07 km²
DETECTION threshold = f(SZA)
RESIDUAL filter: r252/r273 < 5
15:52:47 Tue Apr 30 2013 /Users/deland/pmc/programs/gplot_v3_iwc_sza_273.pro

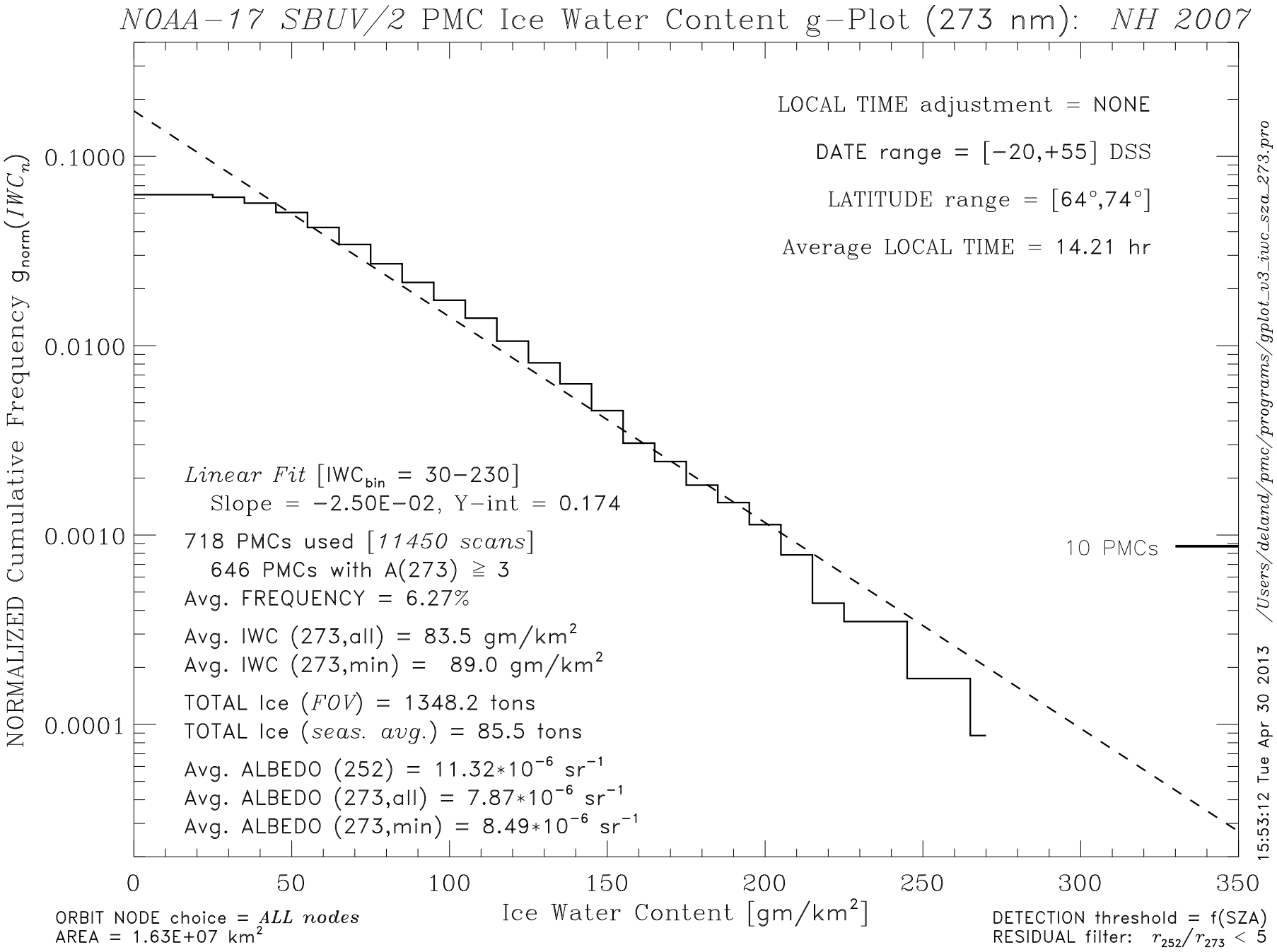

NOAA-16 SBUV/2 PMC Ice Water Content g-Plot (273 nm): NH 2012
LOCAL TIME adjustment = NONE
DATE range = [-20,+55] DSS
LATITUDE range = [64°,74°]
Average LOCAL TIME = 12.60 hr
NORMALIZED Cumulative Frequency $g_{norm}(IWC_n)$
0.1000
0.0100
0.0010
0.0001
Linear Fit [IWC_{bin} = 30-190]
Slope = -3.02E-02, Y-int = 0.131
498 PMCs used [12750 scans]
462 PMCs with A(273) ≧ 3
Avg. FREQUENCY = 3.91%
Avg. IWC (273,all) = 77.2 gm/km^2
Avg. IWC (273,min) = 80.6 gm/km^2
TOTAL Ice (FOV) = 865.5 tons
TOTAL Ice (seas. avg.) = 49.3 tons
Avg. ALBEDO (252) = 9.87*10^{-6} sr^{-1}
Avg. ALBEDO (273,all) = 6.93*10^{-6} sr^{-1}
Avg. ALBEDO (273,min) = 7.28*10^{-6} sr^{-1}
10 PMCs
0
50
100
150
200
250
300
350
Ice Water Content [gm/km^2]
15:52:57 Tue Apr 30 2013 /Users/deland/pmc/programs/gplot_v3_iwc_sza_273.pro
ORBIT NODE choice = ALL nodes
AREA = 1.63E+07 km^2
DETECTION threshold = f(SZA)
RESIDUAL filter: $r_{252}/r_{273} < 5$

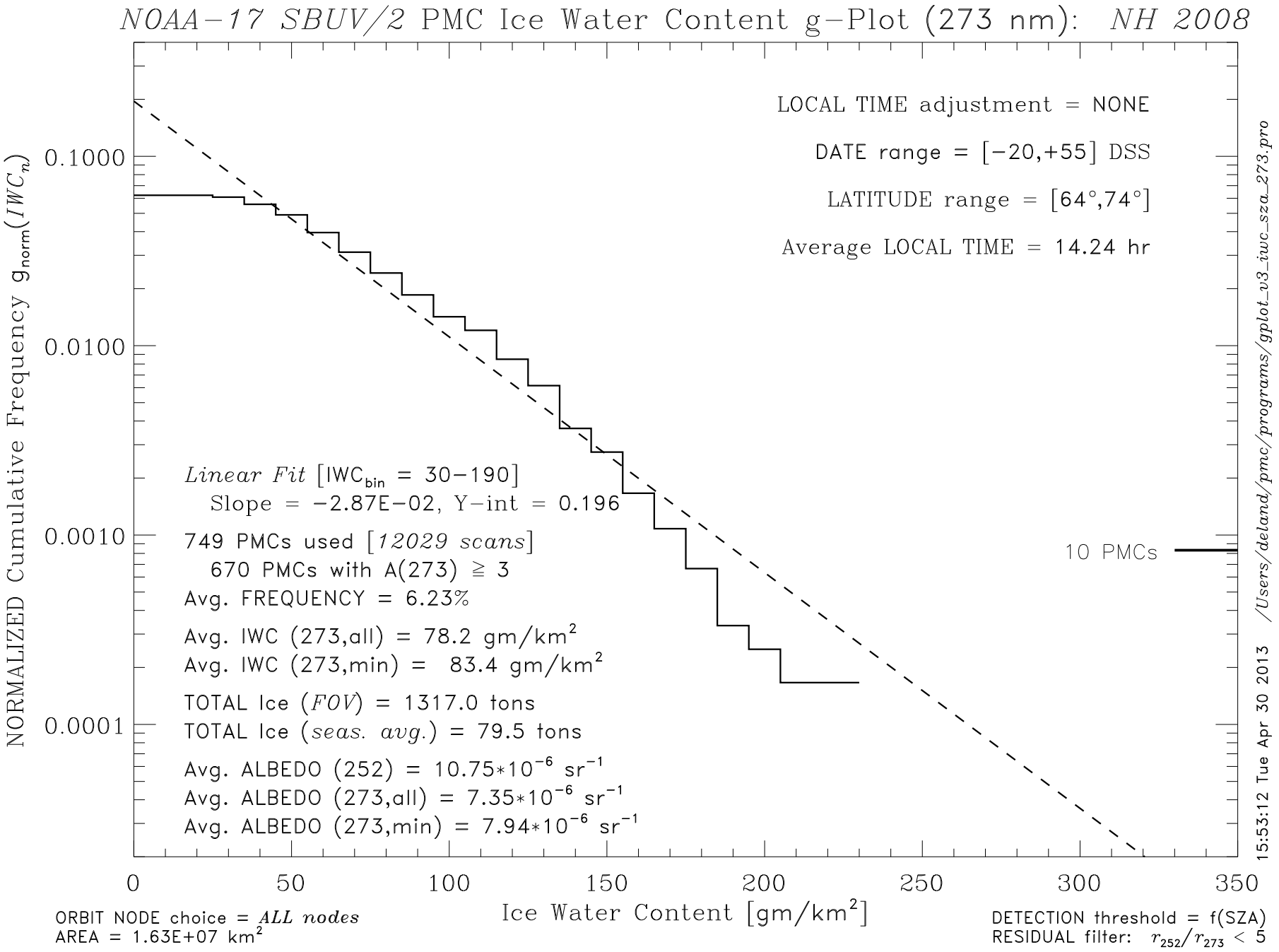

NOAA-17 SBUV/2 PMC Ice Water Content g-Plot (273 nm): NH 2003
LOCAL TIME adjustment = NONE
DATE range = [-20,+55] DSS
LATITUDE range = [64°,74°]
Average LOCAL TIME = 13.74 hr
Linear Fit [IWC_bin = 30-200]
Slope = -2.82E-02, Y-int = 0.142
504 PMCs used [10229 scans]
450 PMCs with A(273) ≧ 3
Avg. FREQUENCY = 4.93%
Avg. IWC (273,all) = 76.6 gm/km²
Avg. IWC (273,min) = 81.8 gm/km²
TOTAL Ice (FOV) = 868.2 tons
TOTAL Ice (seas. avg.) = 61.7 tons
Avg. ALBEDO (252) = 10.12*10⁻⁶ sr⁻¹
Avg. ALBEDO (273,all) = 6.99*10⁻⁶ sr⁻¹
Avg. ALBEDO (273,min) = 7.56*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
Ice Water Content [gm/km²]
ORBIT NODE choice = ALL nodes
AREA = 1.63E+07 km²
DETECTION threshold = f(SZA)
RESIDUAL filter: r252/r273 < 5
15:53:09 Tue Apr 30 2013 /Users/deland/pmc/programs/gplot_v3_iwc_sza_273.pro

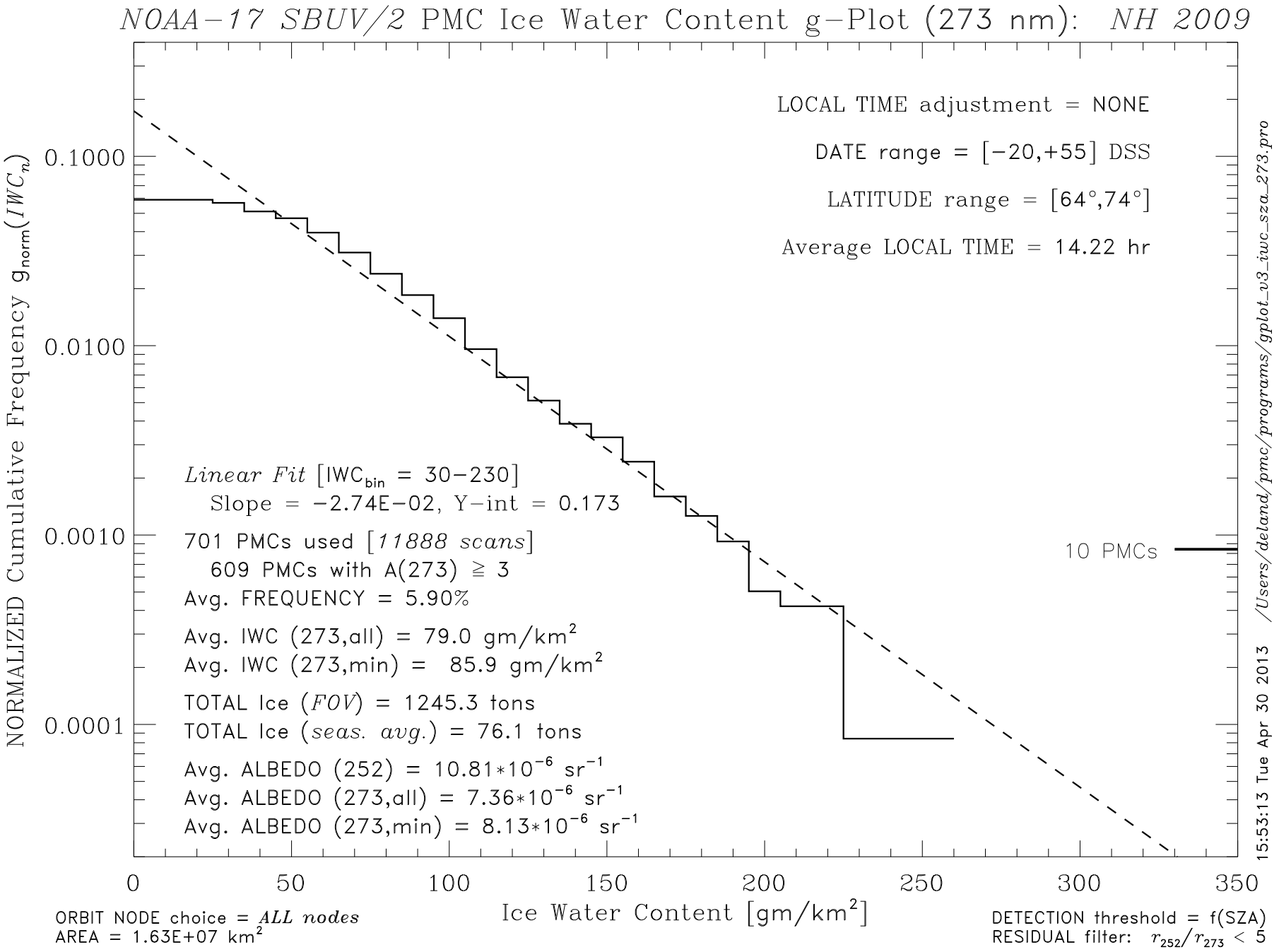

NOAA-17 SBUV/2 PMC Ice Water Content g-Plot (273 nm): NH 2004
LOCAL TIME adjustment = NONE
DATE range = [-20,+55] DSS
LATITUDE range = [64°,74°]
Average LOCAL TIME = 14.95 hr
NORMALIZED Cumulative Frequency $g_{norm}(IWC_n)$
0.1000
0.0100
0.0010
0.0001
Linear Fit [IWC_{bin} = 30-220]
Slope = -2.73E-02, Y-int = 0.184
618 PMCs used [10088 scans]
579 PMCs with A(273) ≧ 3
Avg. FREQUENCY = 6.13%
Avg. IWC (273,all) = 81.8 gm/km^2
Avg. IWC (273,min) = 85.1 gm/km^2
TOTAL Ice (FOV) = 1136.9 tons
TOTAL Ice (seas. avg.) = 81.9 tons
Avg. ALBEDO (252) = 11.02*10^{-6} sr^{-1}
Avg. ALBEDO (273,all) = 7.86*10^{-6} sr^{-1}
Avg. ALBEDO (273,min) = 8.24*10^{-6} sr^{-1}
10 PMCs
0
50
100
150
200
250
300
350
Ice Water Content [gm/km^2]
15:53:09 Tue Apr 30 2013 /Users/deland/pmc/programs/gplot_v3_iwc_sza_273.pro
ORBIT NODE choice = ALL nodes
AREA = 1.63E+07 km^2
DETECTION threshold = f(SZA)
RESIDUAL filter: $r_{252}/r_{273} < 5$

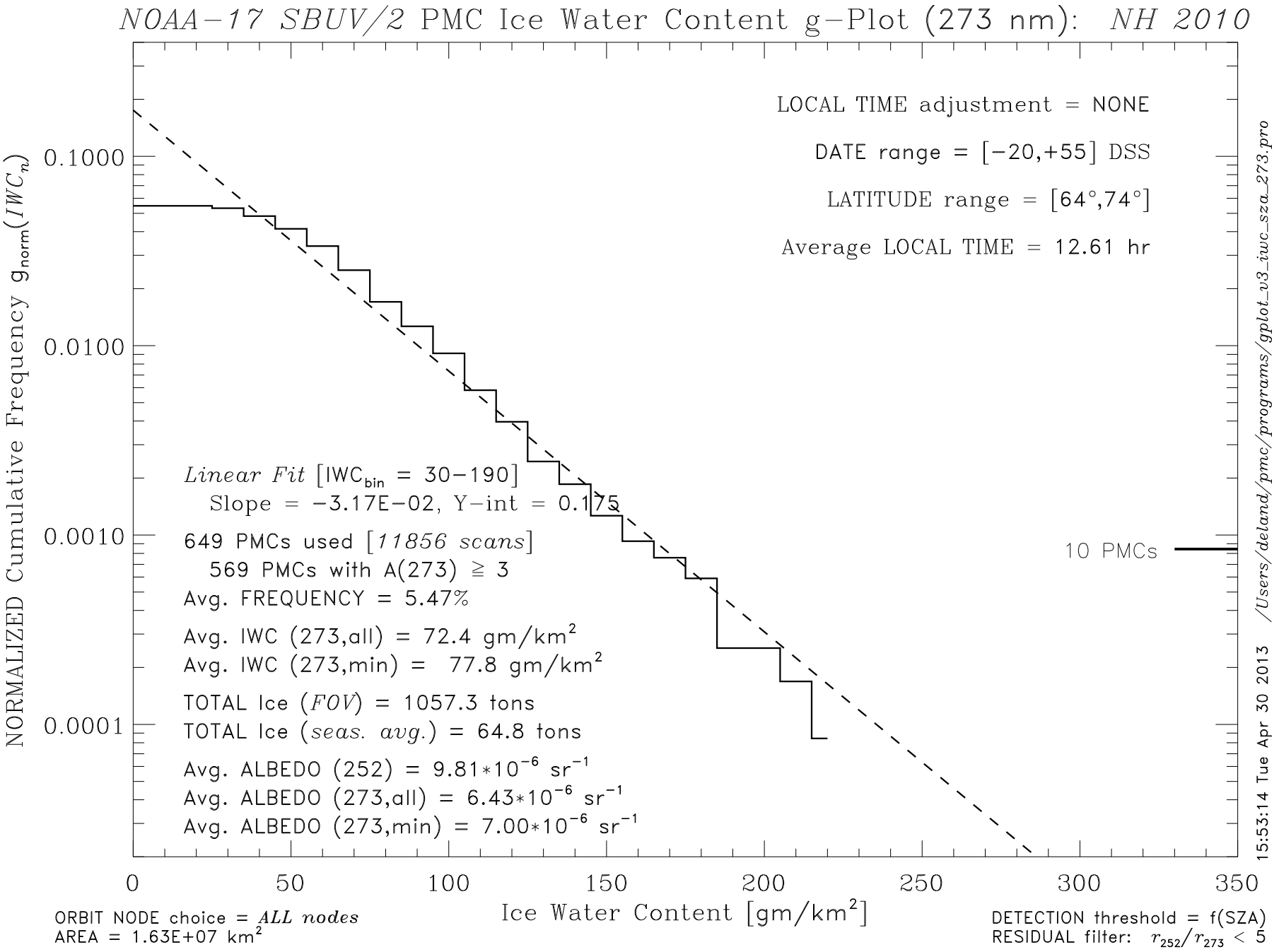

NOAA-17 SBUV/2 PMC Ice Water Content g-Plot (273 nm): NH 2005
LOCAL TIME adjustment = NONE
DATE range = [-20,+55] DSS
LATITUDE range = [64°,74°]
Average LOCAL TIME = 14.94 hr
NORMALIZED Cumulative Frequency $g_{norm}(IWC_n)$
0.1000
0.0100
0.0010
0.0001
Linear Fit [IWC_{bin} = 30-190]
Slope = -3.00E-02, Y-int = 0.197
664 PMCs used [10858 scans]
601 PMCs with A(273) ≧ 3
Avg. FREQUENCY = 6.12%
Avg. IWC (273,all) = 76.5 gm/km^2
Avg. IWC (273,min) = 80.9 gm/km^2
TOTAL Ice (FOV) = 1142.2 tons
TOTAL Ice (seas. avg.) = 76.4 tons
Avg. ALBEDO (252) = 10.41*10^{-6} sr^{-1}
Avg. ALBEDO (273,all) = 7.27*10^{-6} sr^{-1}
Avg. ALBEDO (273,min) = 7.78*10^{-6} sr^{-1}
10 PMCs
0
50
100
150
200
250
300
350
Ice Water Content [gm/km^2]
15:53:10 Tue Apr 30 2013 /Users/deland/pmc/programs/gplot_v3_iwc_sza_273.pro
ORBIT NODE choice = ALL nodes
AREA = 1.63E+07 km^2
DETECTION threshold = f(SZA)
RESIDUAL filter: $r_{252}/r_{273} < 5$

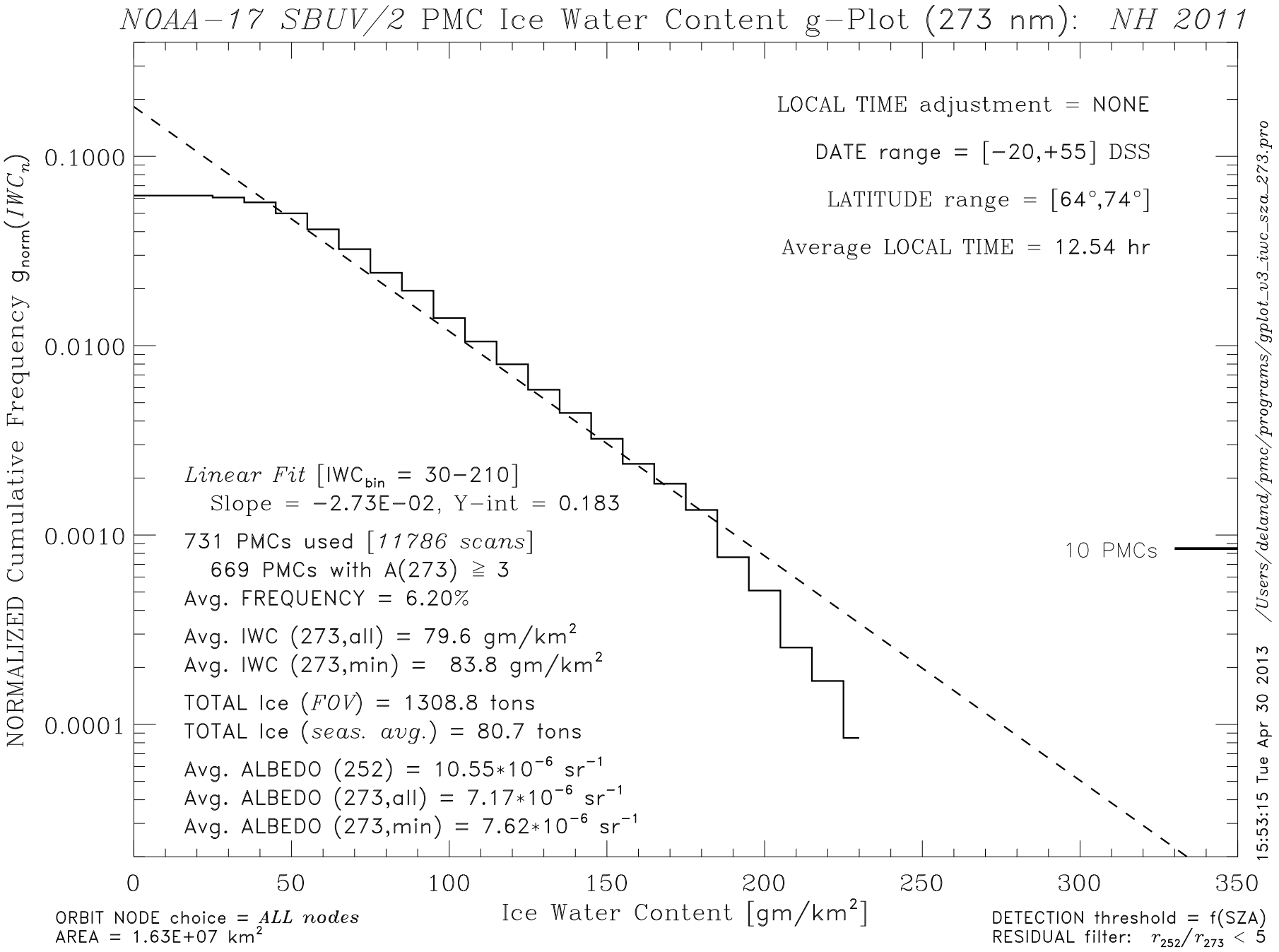

NOAA-17 SBUV/2 PMC Ice Water Content g-Plot (273 nm): NH 2006
LOCAL TIME adjustment = NONE
DATE range = [-20,+55] DSS
LATITUDE range = [64°,74°]
Average LOCAL TIME = 14.90 hr
Linear Fit [IWC_bin = 30-210]
Slope = -2.63E-02, Y-int = 0.182
733 PMCs used [11354 scans]
671 PMCs with A(273) ≧ 3
Avg. FREQUENCY = 6.46%
Avg. IWC (273,all) = 80.9 gm/km²
Avg. IWC (273,min) = 85.3 gm/km²
TOTAL Ice (FOV) = 1333.4 tons
TOTAL Ice (seas. avg.) = 85.3 tons
Avg. ALBEDO (252) = 11.17*10⁻⁶ sr⁻¹
Avg. ALBEDO (273,all) = 7.78*10⁻⁶ sr⁻¹
Avg. ALBEDO (273,min) = 8.29*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
Ice Water Content [gm/km²]
ORBIT NODE choice = ALL nodes
AREA = 1.63E+07 km²
DETECTION threshold = f(SZA)
RESIDUAL filter: r252/r273 < 5
15:53:11 Tue Apr 30 2013 /Users/deland/pmc/programs/gplot_v3_iwc_sza_273.pro

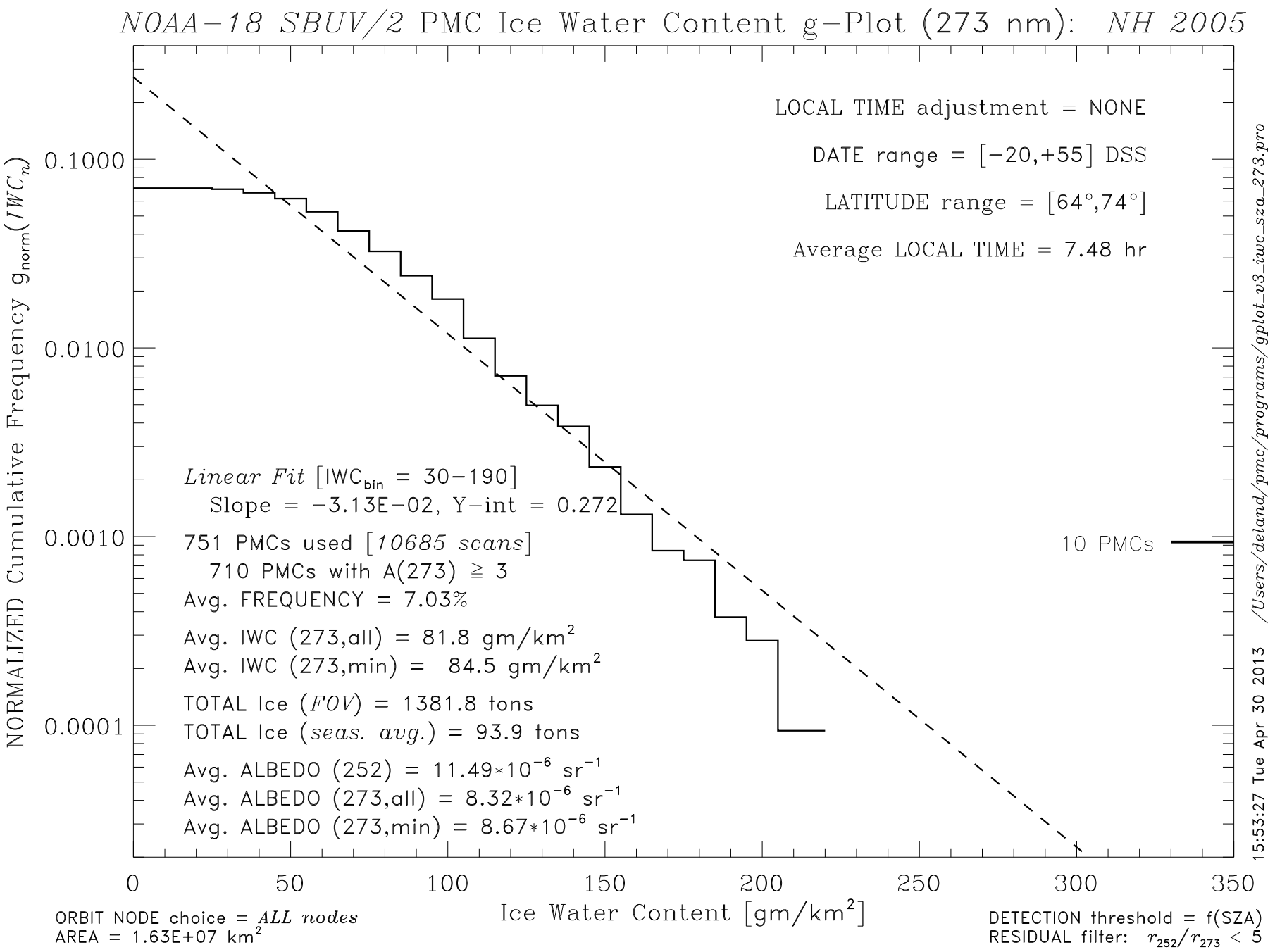

NOAA-17 SBUV/2 PMC Ice Water Content g-Plot (273 nm): NH 2007
LOCAL TIME adjustment = NONE
DATE range = [-20,+55] DSS
LATITUDE range = [64°,74°]
Average LOCAL TIME = 14.21 hr
Linear Fit [IWC_bin = 30-230]
Slope = -2.50E-02, Y-int = 0.174
718 PMCs used [11450 scans]
646 PMCs with A(273) ≧ 3
Avg. FREQUENCY = 6.27%
Avg. IWC (273,all) = 83.5 gm/km²
Avg. IWC (273,min) = 89.0 gm/km²
TOTAL Ice (FOV) = 1348.2 tons
TOTAL Ice (seas. avg.) = 85.5 tons
Avg. ALBEDO (252) = 11.32*10⁻⁶ sr⁻¹
Avg. ALBEDO (273,all) = 7.87*10⁻⁶ sr⁻¹
Avg. ALBEDO (273,min) = 8.49*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
Ice Water Content [gm/km²]
ORBIT NODE choice = ALL nodes
AREA = 1.63E+07 km²
DETECTION threshold = f(SZA)
RESIDUAL filter: r252/r273 < 5
15:53:12 Tue Apr 30 2013 /Users/deland/pmc/programs/gplot_v3_iwc_sza_273.pro

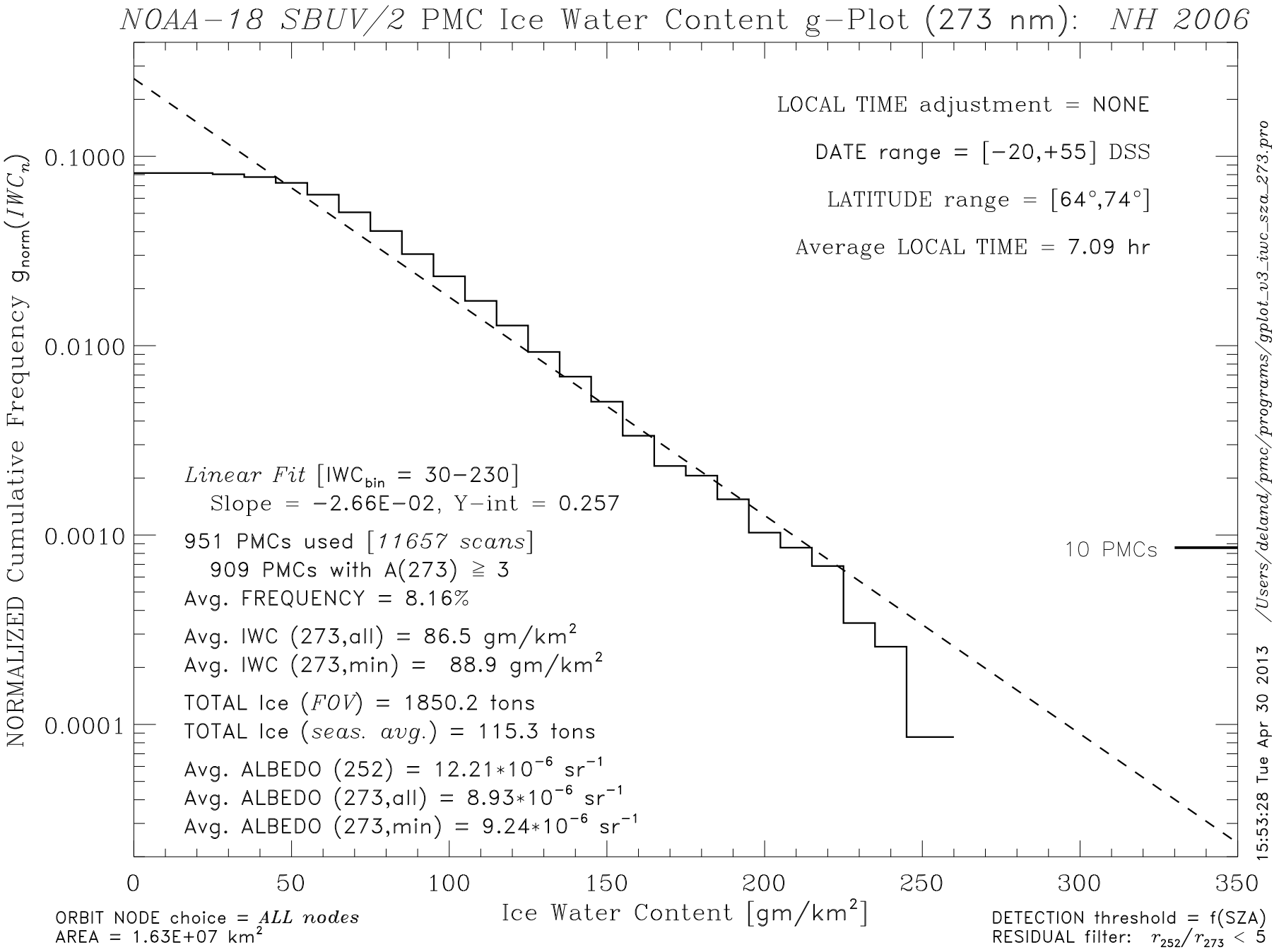

NOAA-17 SBUV/2 PMC Ice Water Content g-Plot (273 nm): NH 2008
LOCAL TIME adjustment = NONE
DATE range = [-20,+55] DSS
LATITUDE range = [64°,74°]
Average LOCAL TIME = 14.24 hr
NORMALIZED Cumulative Frequency $g_{norm}(IWC_n)$
0.1000
0.0100
0.0010
0.0001
Linear Fit [IWC_{bin} = 30-190]
Slope = -2.87E-02, Y-int = 0.196
749 PMCs used [12029 scans]
670 PMCs with A(273) ≧ 3
Avg. FREQUENCY = 6.23%
Avg. IWC (273,all) = 78.2 gm/km^2
Avg. IWC (273,min) = 83.4 gm/km^2
TOTAL Ice (FOV) = 1317.0 tons
TOTAL Ice (seas. avg.) = 79.5 tons
Avg. ALBEDO (252) = 10.75*10^{-6} sr^{-1}
Avg. ALBEDO (273,all) = 7.35*10^{-6} sr^{-1}
Avg. ALBEDO (273,min) = 7.94*10^{-6} sr^{-1}
10 PMCs
0
50
100
150
200
250
300
350
Ice Water Content [gm/km^2]
ORBIT NODE choice = ALL nodes
AREA = 1.63E+07 km^2
DETECTION threshold = f(SZA)
RESIDUAL filter: $r_{252}/r_{273} < 5$
15:53:12 Tue Apr 30 2013 /Users/deland/pmc/programs/gplot_v3_iwc_sza_273.pro

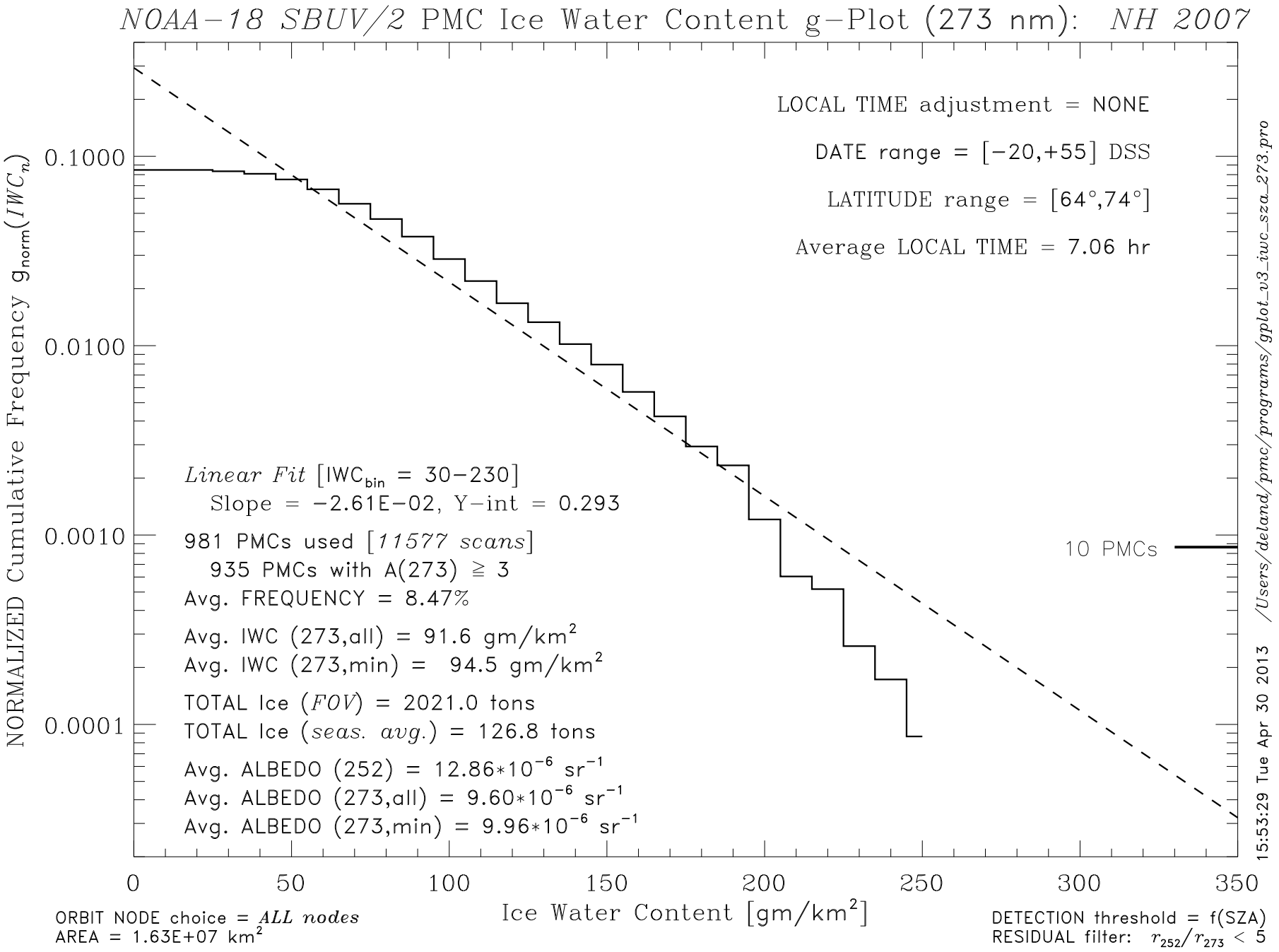

NOAA-17 SBUV/2 PMC Ice Water Content g-Plot (273 nm): NH 2009
LOCAL TIME adjustment = NONE
DATE range = [-20,+55] DSS
LATITUDE range = [64°,74°]
Average LOCAL TIME = 14.22 hr
Linear Fit [IWC_bin = 30-230]
Slope = -2.74E-02, Y-int = 0.173
701 PMCs used [11888 scans]
609 PMCs with A(273) ≧ 3
Avg. FREQUENCY = 5.90%
Avg. IWC (273,all) = 79.0 gm/km²
Avg. IWC (273,min) = 85.9 gm/km²
TOTAL Ice (FOV) = 1245.3 tons
TOTAL Ice (seas. avg.) = 76.1 tons
Avg. ALBEDO (252) = 10.81*10⁻⁶ sr⁻¹
Avg. ALBEDO (273,all) = 7.36*10⁻⁶ sr⁻¹
Avg. ALBEDO (273,min) = 8.13*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
Ice Water Content [gm/km²]
ORBIT NODE choice = ALL nodes
AREA = 1.63E+07 km²
DETECTION threshold = f(SZA)
RESIDUAL filter: r252/r273 < 5
15:53:13 Tue Apr 30 2013 /Users/deland/pmc/programs/gplot_v3_iwc_sza_273.pro

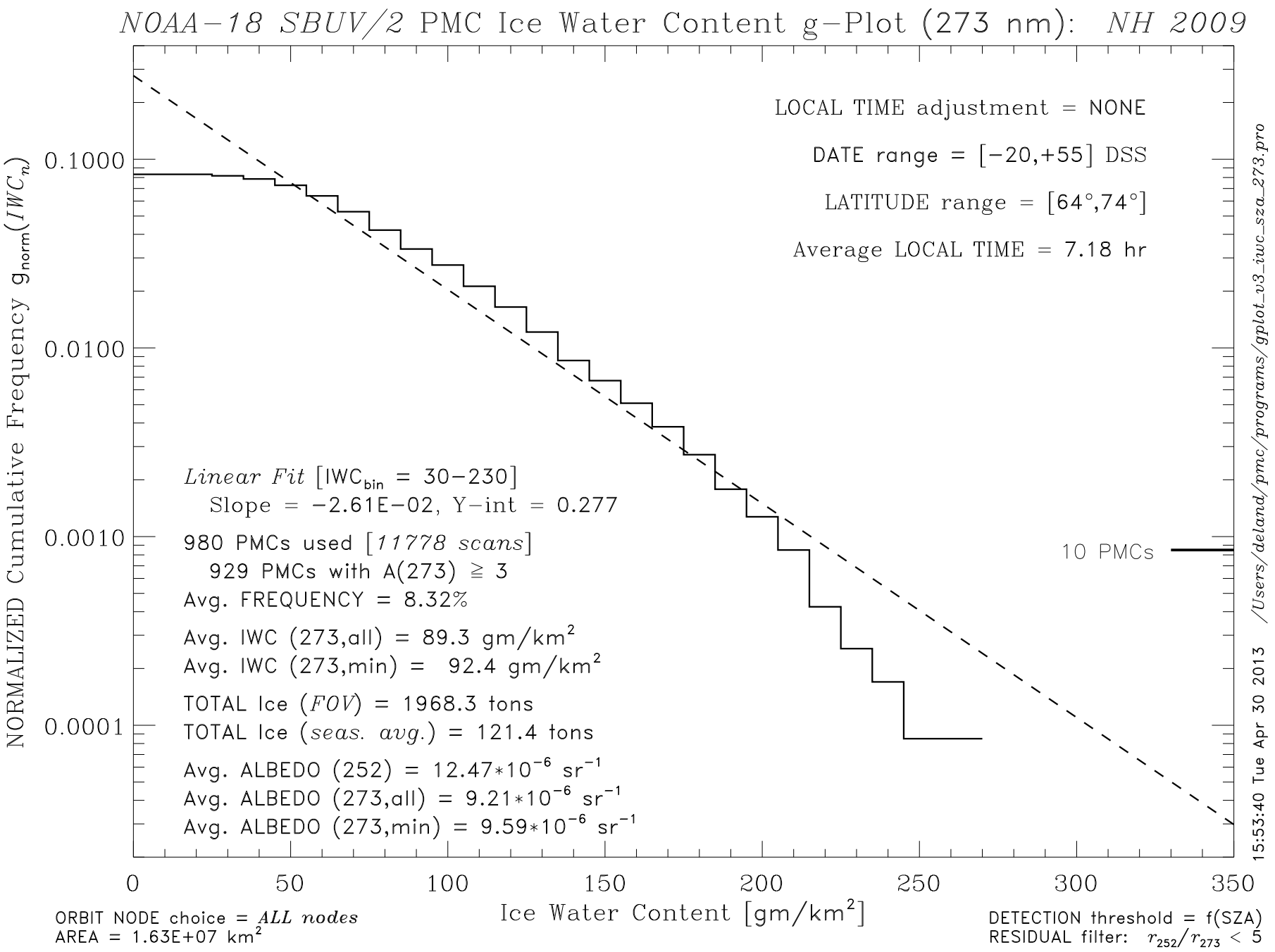

NOAA−17 SBUV/2 PMC Ice Water Content g−Plot (273 nm): NH 2010
LOCAL TIME adjustment = NONE
DATE range = [−20,+55] DSS
LATITUDE range = [64°,74°]
Average LOCAL TIME = 12.61 hr
NORMALIZED Cumulative Frequency $g_{norm}(IWC_n)$
0.1000
0.0100
0.0010
0.0001
Linear Fit [IWC_{bin} = 30−190]
Slope = −3.17E−02, Y−int = 0.175
649 PMCs used [11856 scans]
569 PMCs with A(273) ≧ 3
Avg. FREQUENCY = 5.47%
Avg. IWC (273,all) = 72.4 gm/km^2
Avg. IWC (273,min) = 77.8 gm/km^2
TOTAL Ice (FOV) = 1057.3 tons
TOTAL Ice (seas. avg.) = 64.8 tons
Avg. ALBEDO (252) = 9.81∗10^{-6} sr^{-1}
Avg. ALBEDO (273,all) = 6.43∗10^{-6} sr^{-1}
Avg. ALBEDO (273,min) = 7.00∗10^{-6} sr^{-1}
10 PMCs
0
50
100
150
200
250
300
350
Ice Water Content [gm/km^2]
15:53:14 Tue Apr 30 2013 /Users/deland/pmc/programs/gplot_v3_iwc_sza_273.pro
ORBIT NODE choice = ALL nodes
AREA = 1.63E+07 km^2
DETECTION threshold = f(SZA)
RESIDUAL filter: $r_{252}/r_{273} < 5$

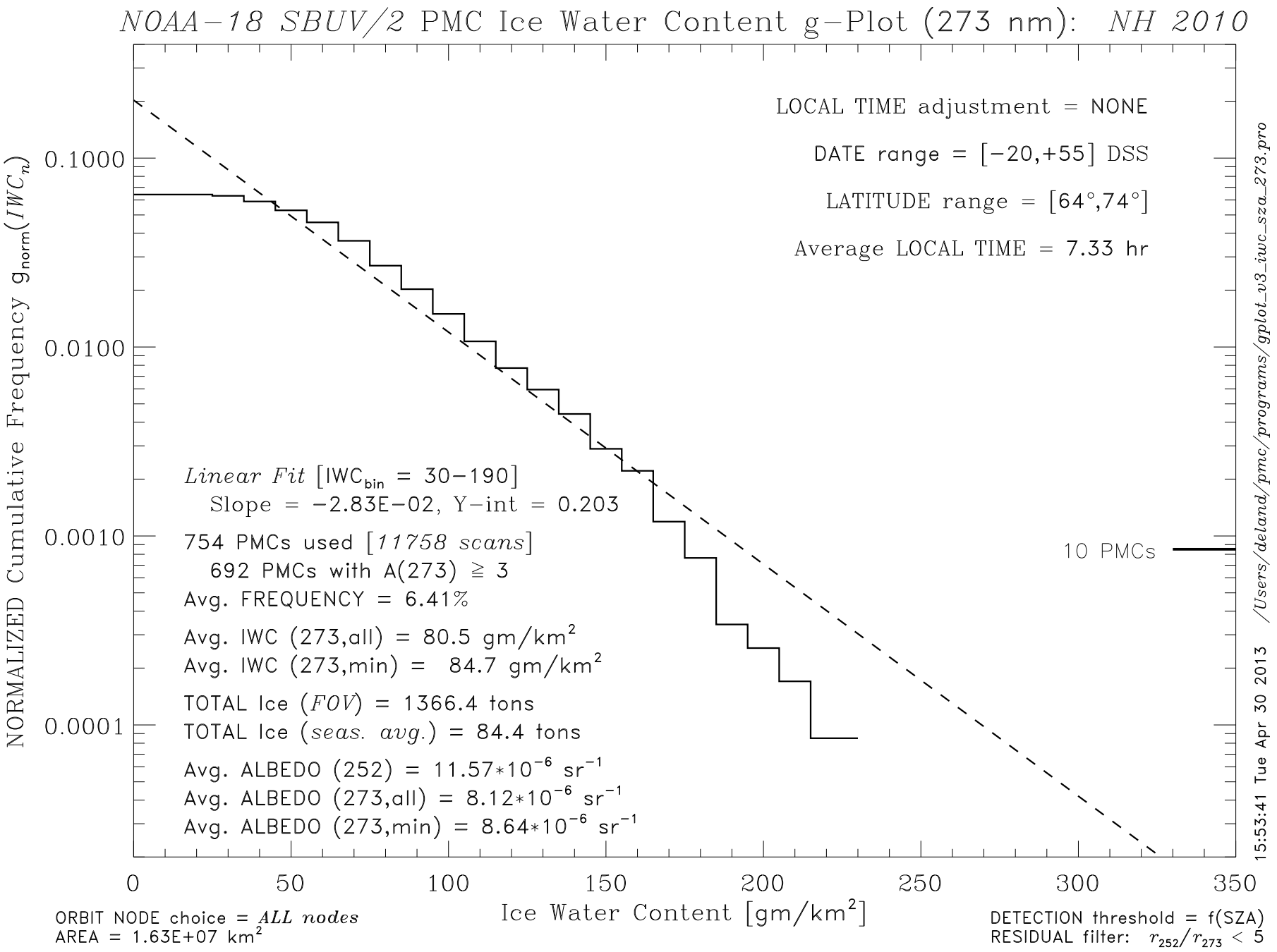

NOAA-17 SBUV/2 PMC Ice Water Content g-Plot (273 nm): NH 2011
LOCAL TIME adjustment = NONE
DATE range = [-20,+55] DSS
LATITUDE range = [64°,74°]
Average LOCAL TIME = 12.54 hr
Linear Fit [IWC_bin = 30-210]
Slope = -2.73E-02, Y-int = 0.183
731 PMCs used [11786 scans]
669 PMCs with A(273) ≧ 3
Avg. FREQUENCY = 6.20%
Avg. IWC (273,all) = 79.6 gm/km²
Avg. IWC (273,min) = 83.8 gm/km²
TOTAL Ice (FOV) = 1308.8 tons
TOTAL Ice (seas. avg.) = 80.7 tons
Avg. ALBEDO (252) = 10.55*10⁻⁶ sr⁻¹
Avg. ALBEDO (273,all) = 7.17*10⁻⁶ sr⁻¹
Avg. ALBEDO (273,min) = 7.62*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
Ice Water Content [gm/km²]
ORBIT NODE choice = ALL nodes
AREA = 1.63E+07 km²
DETECTION threshold = f(SZA)
RESIDUAL filter: r252/r273 < 5
15:53:15 Tue Apr 30 2013 /Users/deland/pmc/programs/gplot_v3_iwc_sza_273.pro

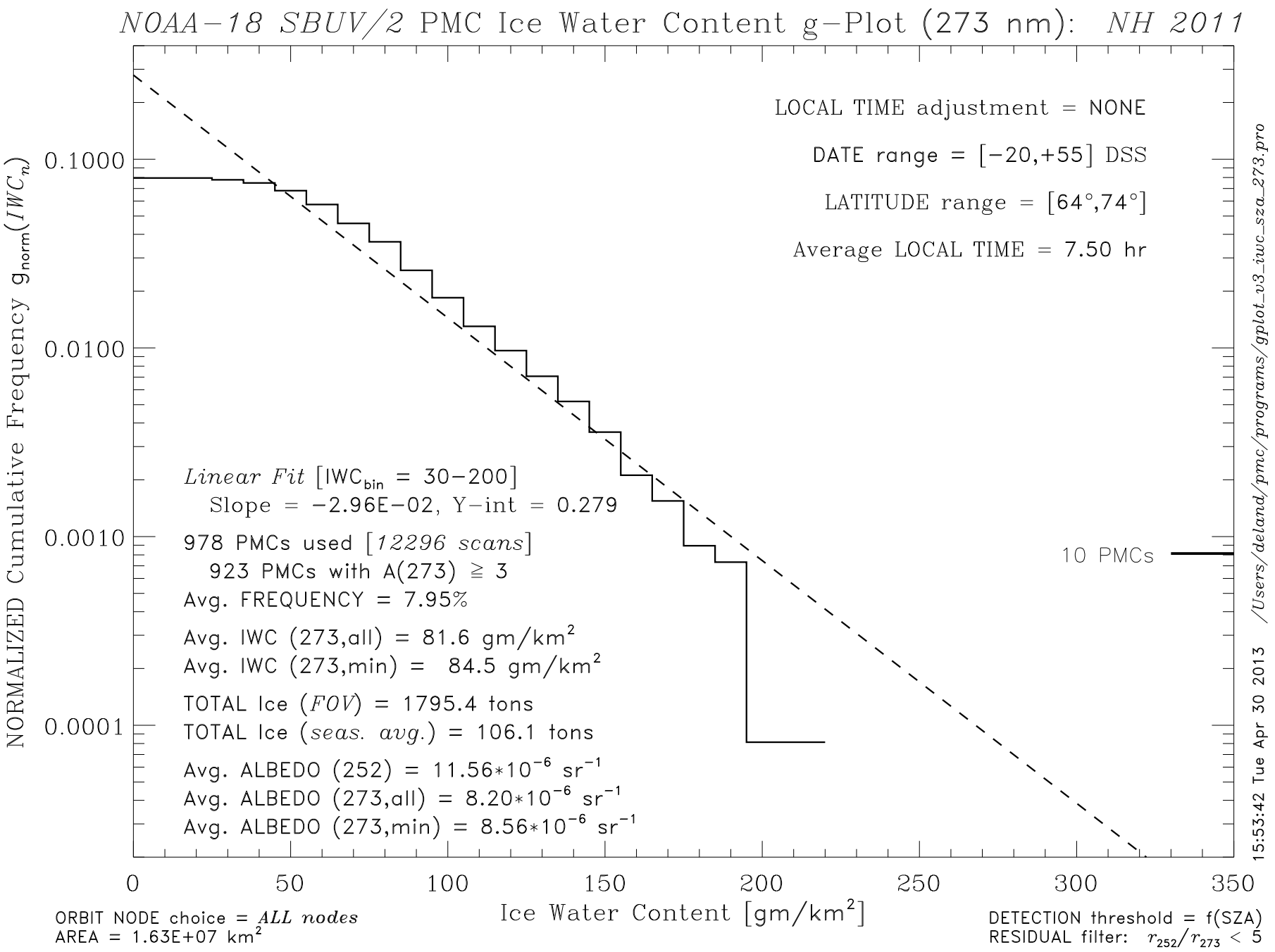

NOAA-18 SBUV/2 PMC Ice Water Content g-Plot (273 nm): NH 2005
LOCAL TIME adjustment = NONE
DATE range = [-20,+55] DSS
LATITUDE range = [64°,74°]
Average LOCAL TIME = 7.48 hr
Linear Fit [IWC_bin = 30-190]
Slope = -3.13E-02, Y-int = 0.272
751 PMCs used [10685 scans]
710 PMCs with A(273) ≧ 3
Avg. FREQUENCY = 7.03%
Avg. IWC (273,all) = 81.8 gm/km²
Avg. IWC (273,min) = 84.5 gm/km²
TOTAL Ice (FOV) = 1381.8 tons
TOTAL Ice (seas. avg.) = 93.9 tons
Avg. ALBEDO (252) = 11.49*10⁻⁶ sr⁻¹
Avg. ALBEDO (273,all) = 8.32*10⁻⁶ sr⁻¹
Avg. ALBEDO (273,min) = 8.67*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
Ice Water Content [gm/km²]
ORBIT NODE choice = ALL nodes
AREA = 1.63E+07 km²
DETECTION threshold = f(SZA)
RESIDUAL filter: r252/r273 < 5
15:53:27 Tue Apr 30 2013 /Users/deland/pmc/programs/gplot_v3_iwc_sza_273.pro

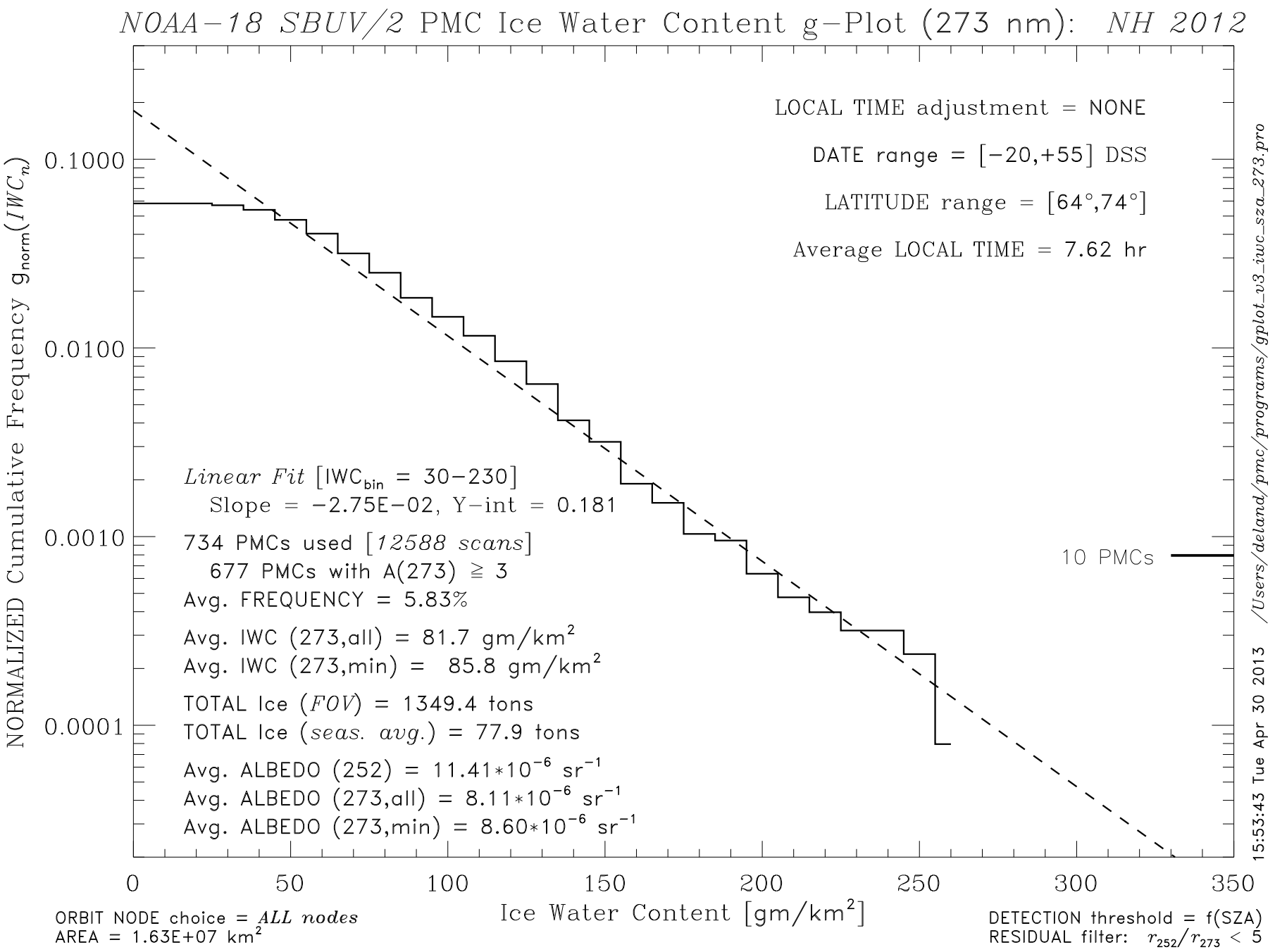

NOAA-18 SBUV/2 PMC Ice Water Content g-Plot (273 nm): NH 2006
LOCAL TIME adjustment = NONE
DATE range = [-20,+55] DSS
LATITUDE range = [64°,74°]
Average LOCAL TIME = 7.09 hr
Linear Fit [IWC_bin = 30-230]
Slope = -2.66E-02, Y-int = 0.257
951 PMCs used [11657 scans]
909 PMCs with A(273) ≧ 3
Avg. FREQUENCY = 8.16%
Avg. IWC (273,all) = 86.5 gm/km²
Avg. IWC (273,min) = 88.9 gm/km²
TOTAL Ice (FOV) = 1850.2 tons
TOTAL Ice (seas. avg.) = 115.3 tons
Avg. ALBEDO (252) = 12.21*10⁻⁶ sr⁻¹
Avg. ALBEDO (273,all) = 8.93*10⁻⁶ sr⁻¹
Avg. ALBEDO (273,min) = 9.24*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
Ice Water Content [gm/km²]
ORBIT NODE choice = ALL nodes
AREA = 1.63E+07 km²
DETECTION threshold = f(SZA)
RESIDUAL filter: r252/r273 < 5
15:53:28 Tue Apr 30 2013 /Users/deland/pmc/programs/gplot_v3_iwc_sza_273.pro

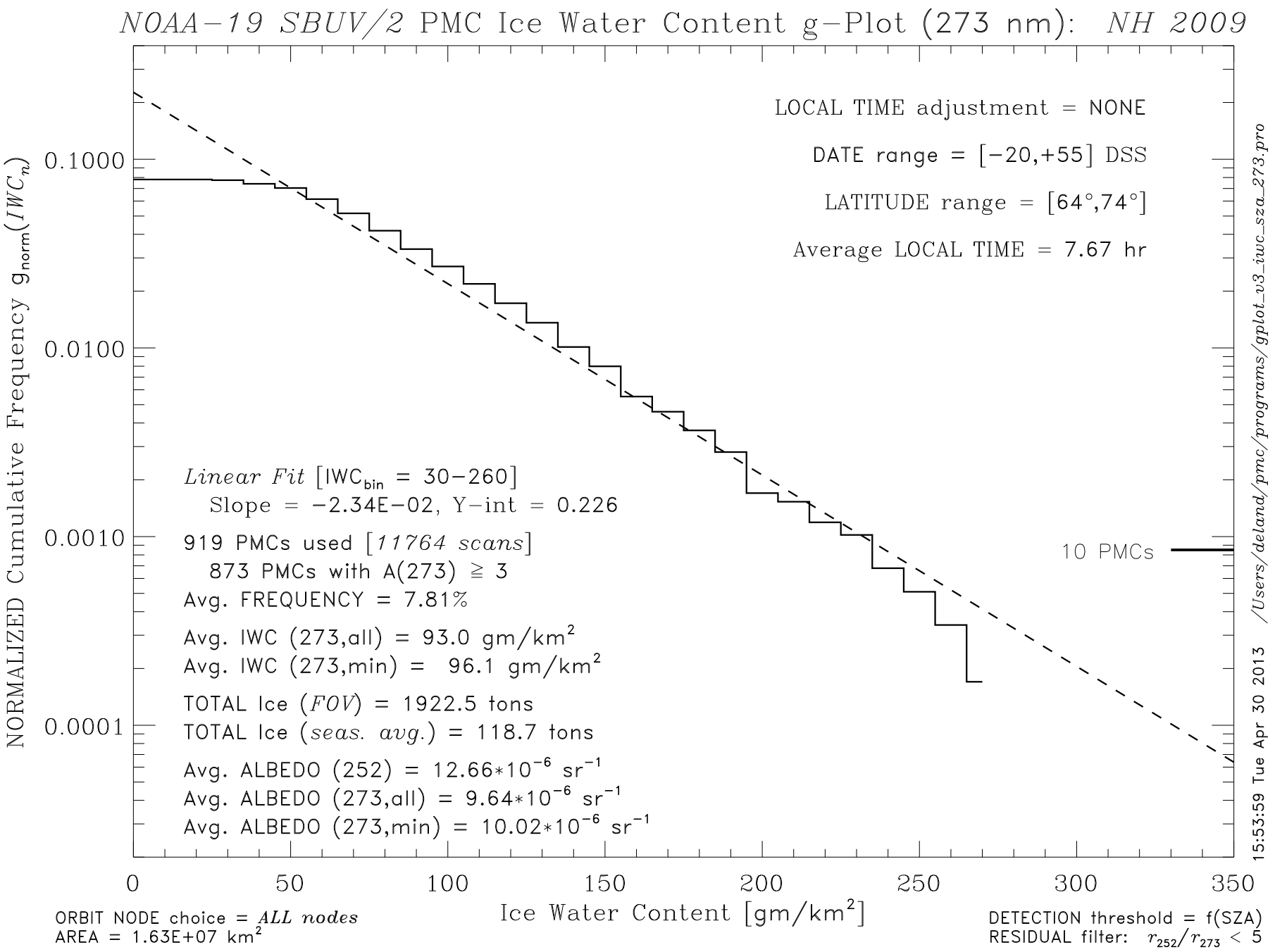

NOAA−18 SBUV/2 PMC Ice Water Content g−Plot (273 nm): NH 2007
LOCAL TIME adjustment = NONE
DATE range = [−20,+55] DSS
LATITUDE range = [64°,74°]
Average LOCAL TIME = 7.06 hr
Linear Fit [IWC_bin = 30−230]
Slope = −2.61E−02, Y−int = 0.293
981 PMCs used [11577 scans]
935 PMCs with A(273) ≧ 3
Avg. FREQUENCY = 8.47%
Avg. IWC (273,all) = 91.6 gm/km²
Avg. IWC (273,min) = 94.5 gm/km²
TOTAL Ice (FOV) = 2021.0 tons
TOTAL Ice (seas. avg.) = 126.8 tons
Avg. ALBEDO (252) = 12.86*10⁻⁶ sr⁻¹
Avg. ALBEDO (273,all) = 9.60*10⁻⁶ sr⁻¹
Avg. ALBEDO (273,min) = 9.96*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
Ice Water Content [gm/km²]
ORBIT NODE choice = ALL nodes
AREA = 1.63E+07 km²
DETECTION threshold = f(SZA)
RESIDUAL filter: r252/r273 < 5
15:53:29 Tue Apr 30 2013 /Users/deland/pmc/programs/gplot_v3_iwc_sza_273.pro

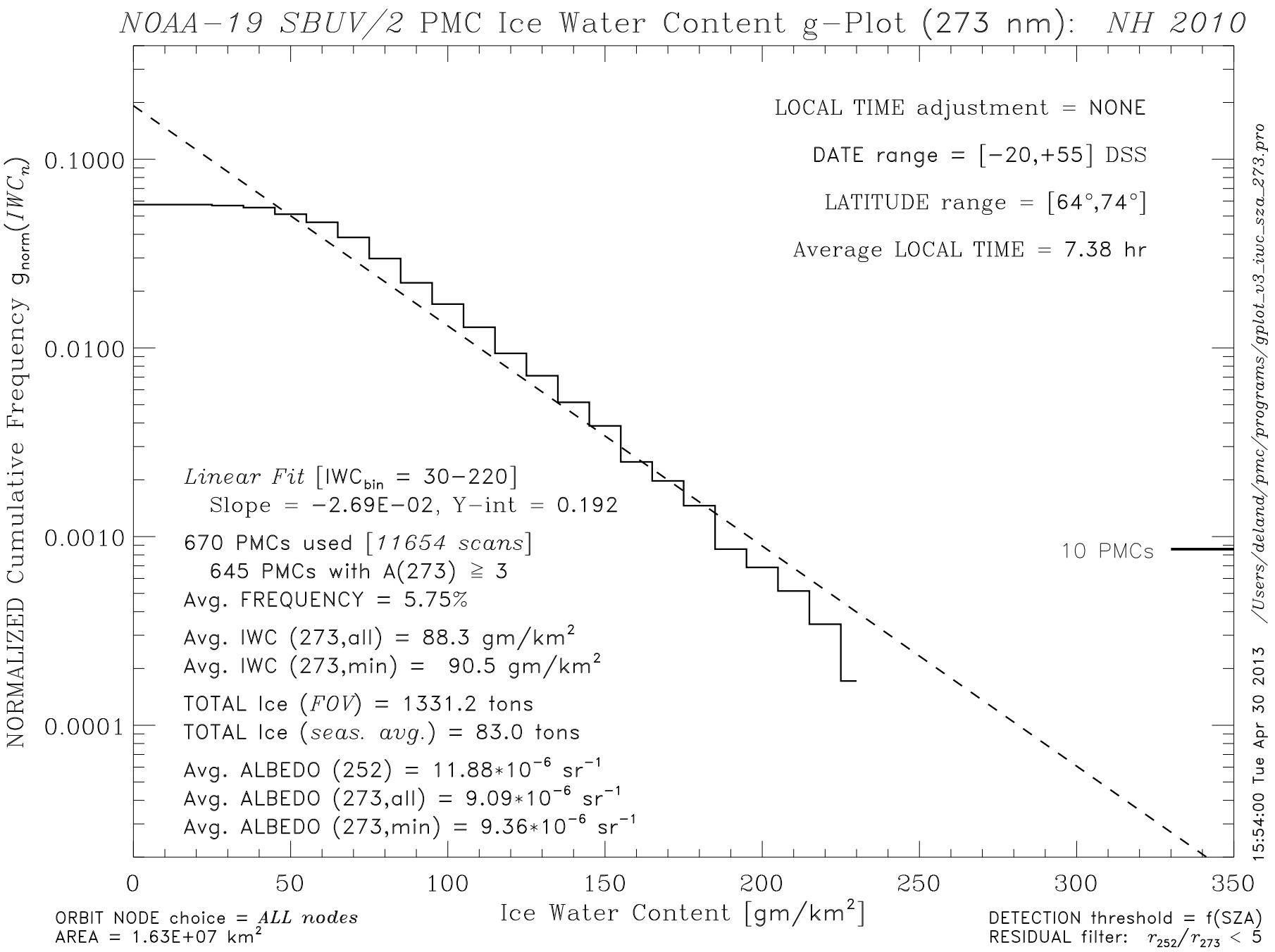

NOAA-18 SBUV/2 PMC Ice Water Content g-Plot (273 nm): NH 2009
LOCAL TIME adjustment = NONE
DATE range = [-20,+55] DSS
LATITUDE range = [64°,74°]
Average LOCAL TIME = 7.18 hr
NORMALIZED Cumulative Frequency $g_{norm}(IWC_n)$
0.1000
0.0100
0.0010
0.0001
Linear Fit [IWC_{bin} = 30-230]
Slope = -2.61E-02, Y-int = 0.277
980 PMCs used [11778 scans]
929 PMCs with A(273) ≧ 3
Avg. FREQUENCY = 8.32%
Avg. IWC (273,all) = 89.3 gm/km^2
Avg. IWC (273,min) = 92.4 gm/km^2
TOTAL Ice (FOV) = 1968.3 tons
TOTAL Ice (seas. avg.) = 121.4 tons
Avg. ALBEDO (252) = 12.47*10^{-6} sr^{-1}
Avg. ALBEDO (273,all) = 9.21*10^{-6} sr^{-1}
Avg. ALBEDO (273,min) = 9.59*10^{-6} sr^{-1}
10 PMCs
0
50
100
150
200
250
300
350
Ice Water Content [gm/km^2]
15:53:40 Tue Apr 30 2013 /Users/deland/pmc/programs/gplot_v3_iwc_sza_273.pro
ORBIT NODE choice = ALL nodes
AREA = 1.63E+07 km^2
DETECTION threshold = f(SZA)
RESIDUAL filter: $r_{252}/r_{273} < 5$

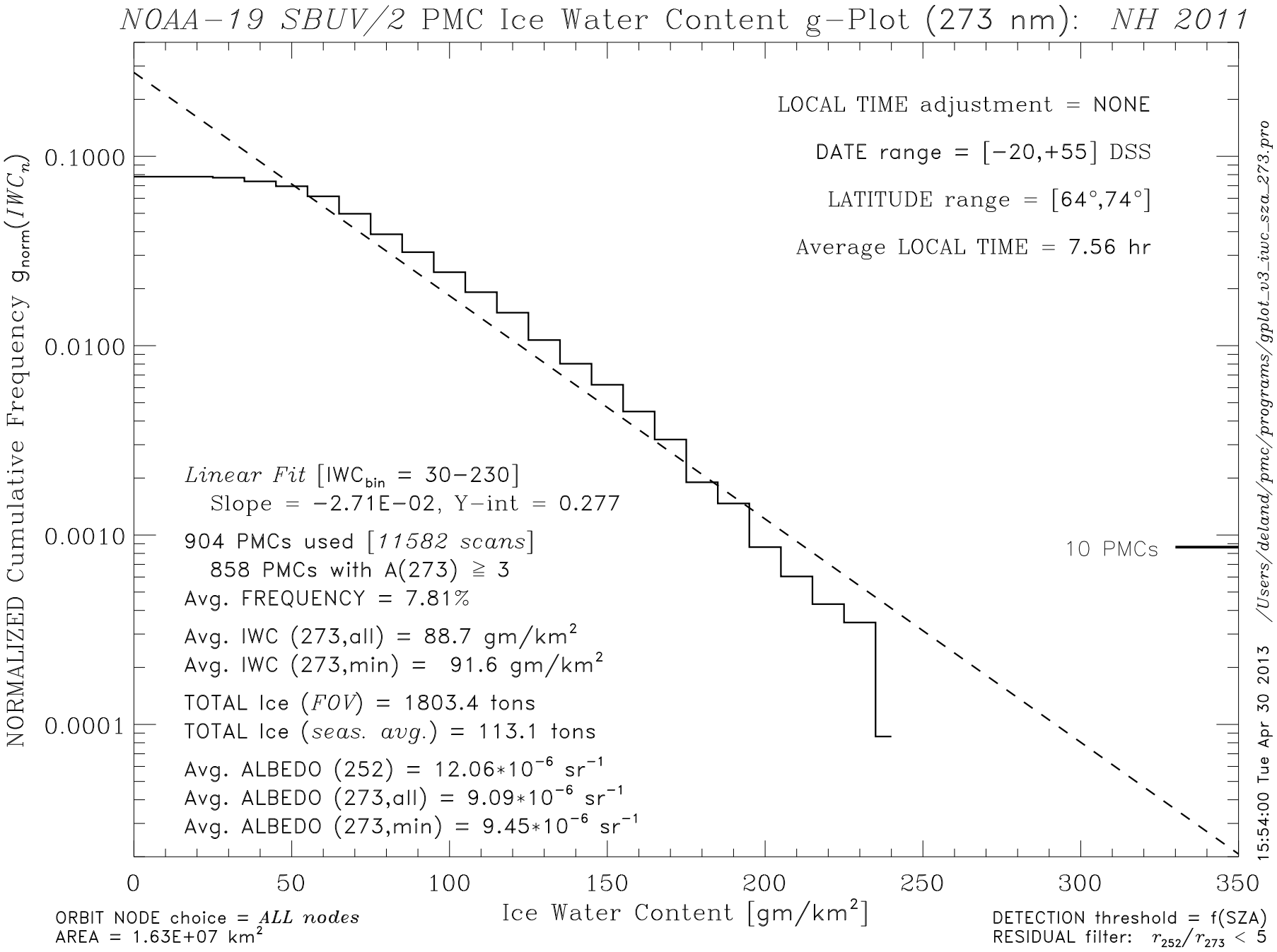

NOAA−18 SBUV/2 PMC Ice Water Content g−Plot (273 nm): NH 2010
LOCAL TIME adjustment = NONE
DATE range = [−20,+55] DSS
LATITUDE range = [64°,74°]
Average LOCAL TIME = 7.33 hr
Linear Fit [IWC_bin = 30−190]
Slope = −2.83E−02, Y−int = 0.203
754 PMCs used [11758 scans]
692 PMCs with A(273) ≧ 3
Avg. FREQUENCY = 6.41%
Avg. IWC (273,all) = 80.5 gm/km²
Avg. IWC (273,min) = 84.7 gm/km²
TOTAL Ice (FOV) = 1366.4 tons
TOTAL Ice (seas. avg.) = 84.4 tons
Avg. ALBEDO (252) = 11.57*10⁻⁶ sr⁻¹
Avg. ALBEDO (273,all) = 8.12*10⁻⁶ sr⁻¹
Avg. ALBEDO (273,min) = 8.64*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
Ice Water Content [gm/km²]
ORBIT NODE choice = ALL nodes
AREA = 1.63E+07 km²
DETECTION threshold = f(SZA)
RESIDUAL filter: r252/r273 < 5
15:53:41 Tue Apr 30 2013 /Users/deland/pmc/programs/gplot_v3_iwc_sza_273.pro

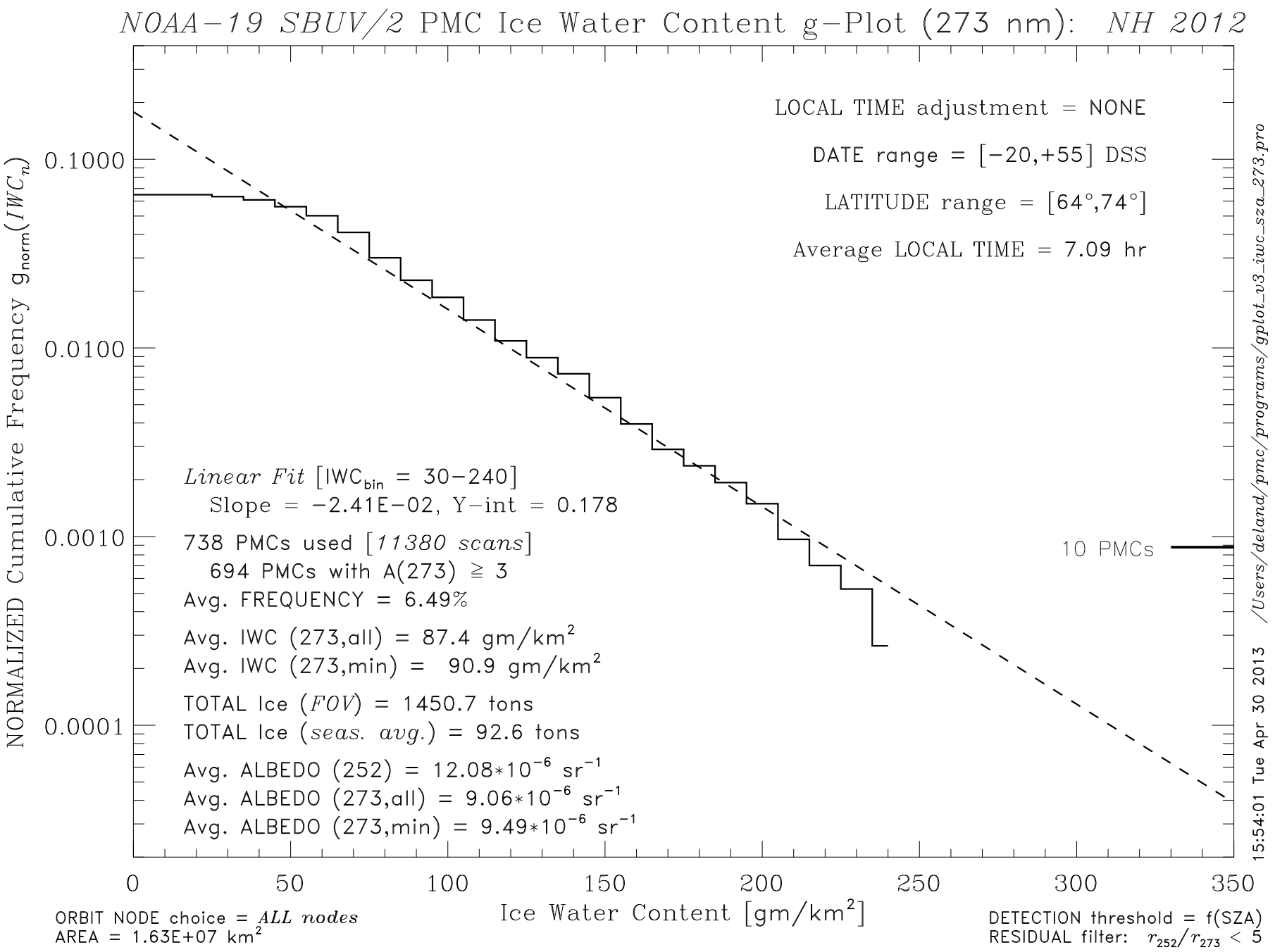

NOAA-18 SBUV/2 PMC Ice Water Content g-Plot (273 nm): NH 2011
LOCAL TIME adjustment = NONE
DATE range = [-20,+55] DSS
LATITUDE range = [64°,74°]
Average LOCAL TIME = 7.50 hr
Linear Fit [IWC_bin = 30-200]
Slope = -2.96E-02, Y-int = 0.279
978 PMCs used [12296 scans]
923 PMCs with A(273) ≧ 3
Avg. FREQUENCY = 7.95%
Avg. IWC (273,all) = 81.6 gm/km²
Avg. IWC (273,min) = 84.5 gm/km²
TOTAL Ice (FOV) = 1795.4 tons
TOTAL Ice (seas. avg.) = 106.1 tons
Avg. ALBEDO (252) = 11.56*10⁻⁶ sr⁻¹
Avg. ALBEDO (273,all) = 8.20*10⁻⁶ sr⁻¹
Avg. ALBEDO (273,min) = 8.56*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
Ice Water Content [gm/km²]
ORBIT NODE choice = ALL nodes
AREA = 1.63E+07 km²
DETECTION threshold = f(SZA)
RESIDUAL filter: r252/r273 < 5
15:53:42 Tue Apr 30 2013 /Users/deland/pmc/programs/gplot_v3_iwc_sza_273.pro


NOAA-18 SBUV/2 PMC Ice Water Content g-Plot (273 nm): NH 2012
LOCAL TIME adjustment = NONE
DATE range = [-20,+55] DSS
LATITUDE range = [64°,74°]
Average LOCAL TIME = 7.62 hr
NORMALIZED Cumulative Frequency $g_{norm}(IWC_n)$
0.1000
0.0100
0.0010
0.0001
Linear Fit [IWC_{bin} = 30-230]
Slope = -2.75E-02, Y-int = 0.181
734 PMCs used [12588 scans]
677 PMCs with A(273) ≧ 3
Avg. FREQUENCY = 5.83%
Avg. IWC (273,all) = 81.7 gm/km^2
Avg. IWC (273,min) = 85.8 gm/km^2
TOTAL Ice (FOV) = 1349.4 tons
TOTAL Ice (seas. avg.) = 77.9 tons
Avg. ALBEDO (252) = 11.41*10^{-6} sr^{-1}
Avg. ALBEDO (273,all) = 8.11*10^{-6} sr^{-1}
Avg. ALBEDO (273,min) = 8.60*10^{-6} sr^{-1}
10 PMCs
0
50
100
150
200
250
300
350
Ice Water Content [gm/km^2]
ORBIT NODE choice = ALL nodes
AREA = 1.63E+07 km^2
DETECTION threshold = f(SZA)
RESIDUAL filter: $r_{252}/r_{273} < 5$
15:53:43 Tue Apr 30 2013 /Users/deland/pmc/programs/gplot_v3_iwc_sza_273.pro


NOAA-19 SBUV/2 PMC Ice Water Content g-Plot (273 nm): NH 2009
LOCAL TIME adjustment = NONE
DATE range = [-20,+55] DSS
LATITUDE range = [64°,74°]
Average LOCAL TIME = 7.67 hr
Linear Fit [IWC_bin = 30-260]
Slope = -2.34E-02, Y-int = 0.226
919 PMCs used [11764 scans]
873 PMCs with A(273) ≧ 3
Avg. FREQUENCY = 7.81%
Avg. IWC (273,all) = 93.0 gm/km²
Avg. IWC (273,min) = 96.1 gm/km²
TOTAL Ice (FOV) = 1922.5 tons
TOTAL Ice (seas. avg.) = 118.7 tons
Avg. ALBEDO (252) = 12.66*10⁻⁶ sr⁻¹
Avg. ALBEDO (273,all) = 9.64*10⁻⁶ sr⁻¹
Avg. ALBEDO (273,min) = 10.02*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
Ice Water Content [gm/km²]
ORBIT NODE choice = ALL nodes
AREA = 1.63E+07 km²
DETECTION threshold = f(SZA)
RESIDUAL filter: r252/r273 < 5
15:53:59 Tue Apr 30 2013 /Users/deland/pmc/programs/gplot_v3_iwc_sza_273.pro


NOAA-19 SBUV/2 PMC Ice Water Content g-Plot (273 nm): NH 2010
LOCAL TIME adjustment = NONE
DATE range = [-20,+55] DSS
LATITUDE range = [64°,74°]
Average LOCAL TIME = 7.38 hr
Linear Fit [IWC_bin = 30-220]
Slope = -2.69E-02, Y-int = 0.192
670 PMCs used [11654 scans]
645 PMCs with A(273) ≧ 3
Avg. FREQUENCY = 5.75%
Avg. IWC (273,all) = 88.3 gm/km²
Avg. IWC (273,min) = 90.5 gm/km²
TOTAL Ice (FOV) = 1331.2 tons
TOTAL Ice (seas. avg.) = 83.0 tons
Avg. ALBEDO (252) = 11.88*10⁻⁶ sr⁻¹
Avg. ALBEDO (273,all) = 9.09*10⁻⁶ sr⁻¹
Avg. ALBEDO (273,min) = 9.36*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
Ice Water Content [gm/km²]
ORBIT NODE choice = ALL nodes
AREA = 1.63E+07 km²
DETECTION threshold = f(SZA)
RESIDUAL filter: r252/r273 < 5
15:54:00 Tue Apr 30 2013 /Users/deland/pmc/programs/gplot_v3_iwc_sza_273.pro


NOAA-19 SBUV/2 PMC Ice Water Content g-Plot (273 nm): NH 2011
LOCAL TIME adjustment = NONE
DATE range = [-20,+55] DSS
LATITUDE range = [64°,74°]
Average LOCAL TIME = 7.56 hr
Linear Fit [IWC_bin = 30-230]
Slope = -2.71E-02, Y-int = 0.277
904 PMCs used [11582 scans]
858 PMCs with A(273) ≧ 3
Avg. FREQUENCY = 7.81%
Avg. IWC (273,all) = 88.7 gm/km²
Avg. IWC (273,min) = 91.6 gm/km²
TOTAL Ice (FOV) = 1803.4 tons
TOTAL Ice (seas. avg.) = 113.1 tons
Avg. ALBEDO (252) = 12.06*10⁻⁶ sr⁻¹
Avg. ALBEDO (273,all) = 9.09*10⁻⁶ sr⁻¹
Avg. ALBEDO (273,min) = 9.45*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
Ice Water Content [gm/km²]
ORBIT NODE choice = ALL nodes
AREA = 1.63E+07 km²
DETECTION threshold = f(SZA)
RESIDUAL filter: r252/r273 < 5
15:54:00 Tue Apr 30 2013 /Users/deland/pmc/programs/gplot_v3_iwc_sza_273.pro


NOAA-19 SBUV/2 PMC Ice Water Content g-Plot (273 nm): NH 2012
LOCAL TIME adjustment = NONE
DATE range = [-20,+55] DSS
LATITUDE range = [64°,74°]
Average LOCAL TIME = 7.09 hr
NORMALIZED Cumulative Frequency $g_{norm}(IWC_n)$
0.1000
0.0100
0.0010
0.0001
Linear Fit [IWC_{bin} = 30-240]
Slope = -2.41E-02, Y-int = 0.178
738 PMCs used [11380 scans]
694 PMCs with A(273) ≧ 3
Avg. FREQUENCY = 6.49%
Avg. IWC (273,all) = 87.4 gm/km^2
Avg. IWC (273,min) = 90.9 gm/km^2
TOTAL Ice (FOV) = 1450.7 tons
TOTAL Ice (seas. avg.) = 92.6 tons
Avg. ALBEDO (252) = 12.08*10^{-6} sr^{-1}
Avg. ALBEDO (273,all) = 9.06*10^{-6} sr^{-1}
Avg. ALBEDO (273,min) = 9.49*10^{-6} sr^{-1}
10 PMCs
0
50
100
150
200
250
300
350
Ice Water Content [gm/km^2]
ORBIT NODE choice = ALL nodes
AREA = 1.63E+07 km^2
DETECTION threshold = f(SZA)
RESIDUAL filter: $r_{252}/r_{273} < 5$
15:54:01 Tue Apr 30 2013 /Users/deland/pmc/programs/gplot_v3_iwc_sza_273.pro