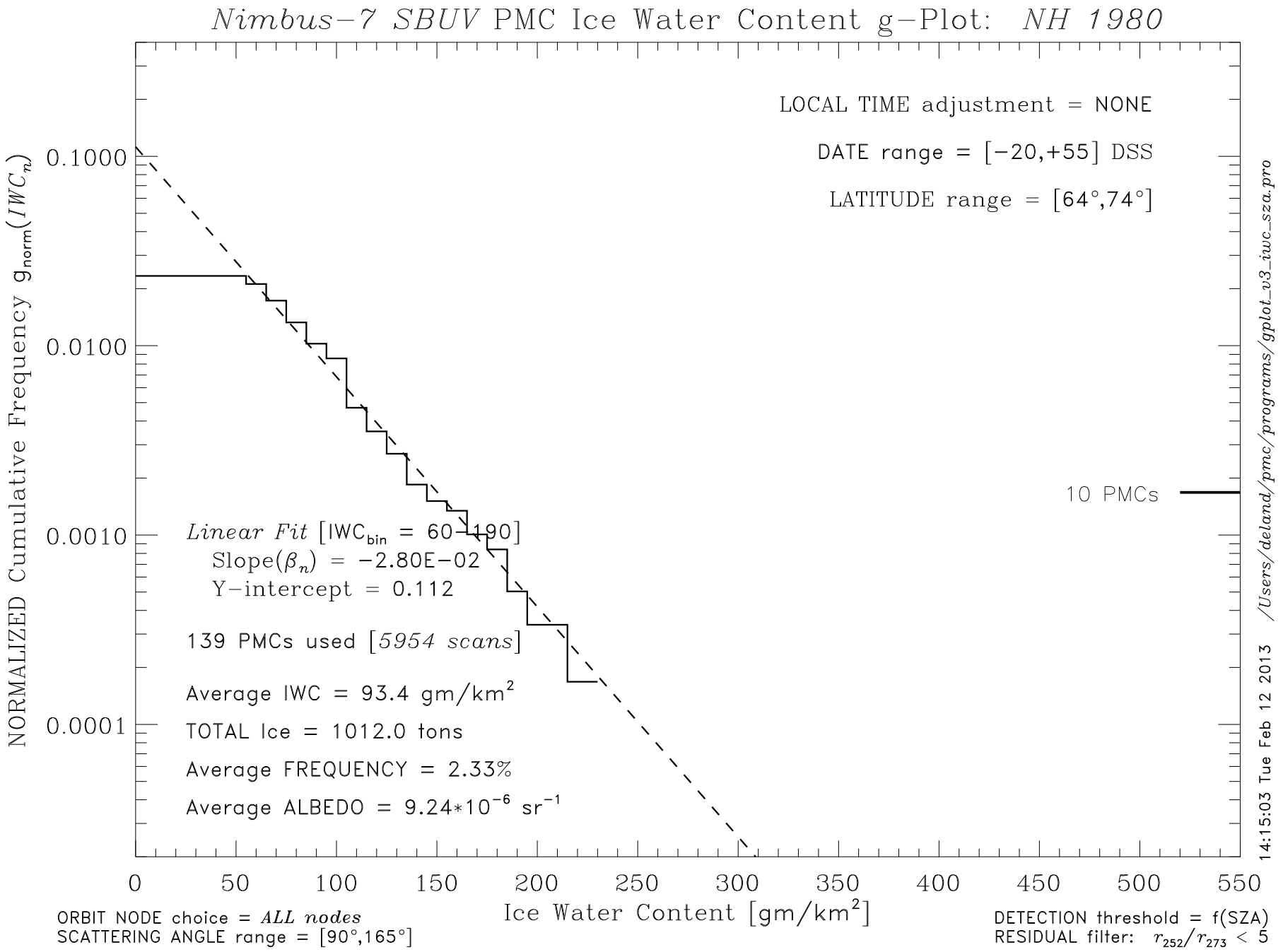
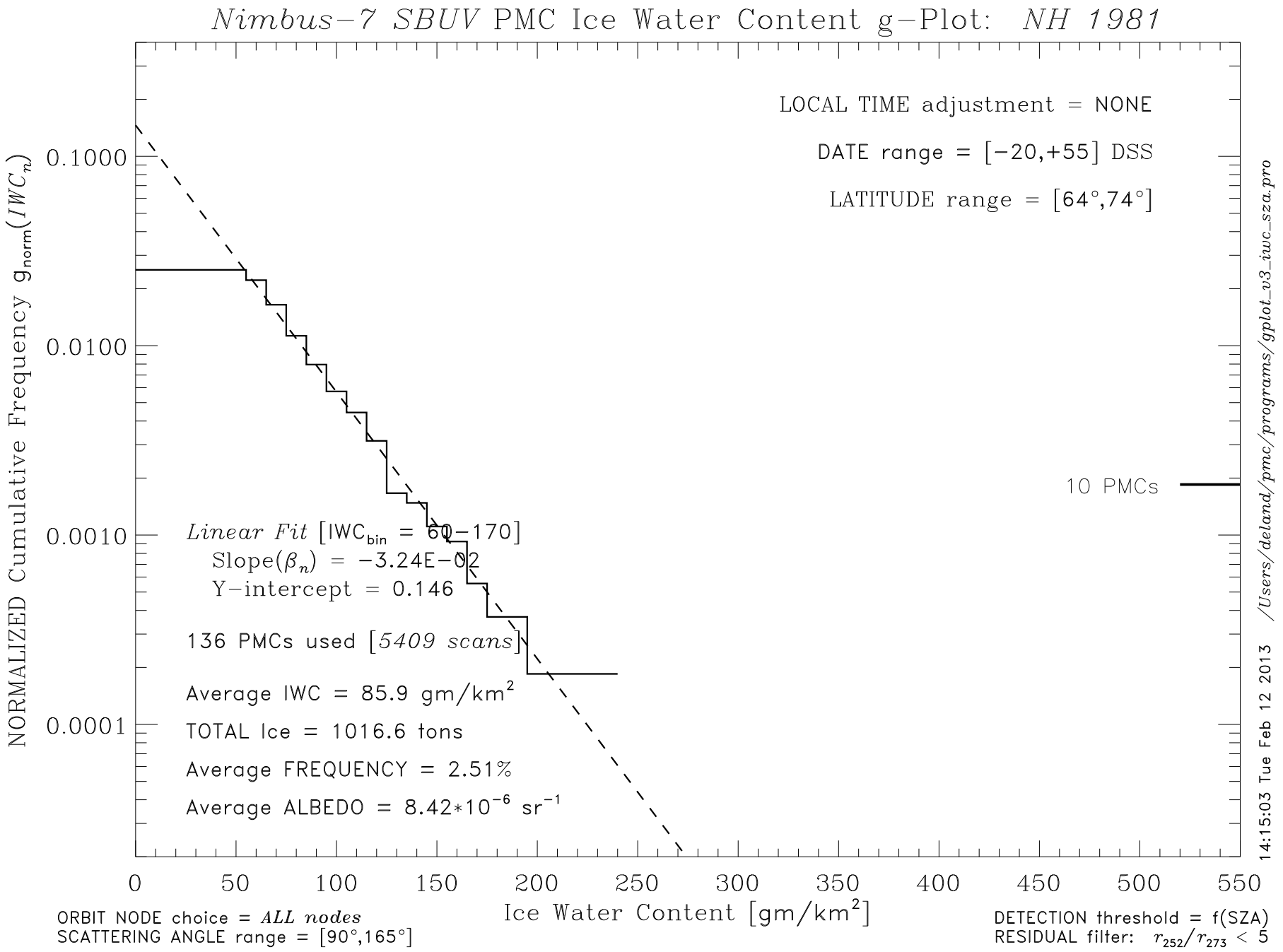
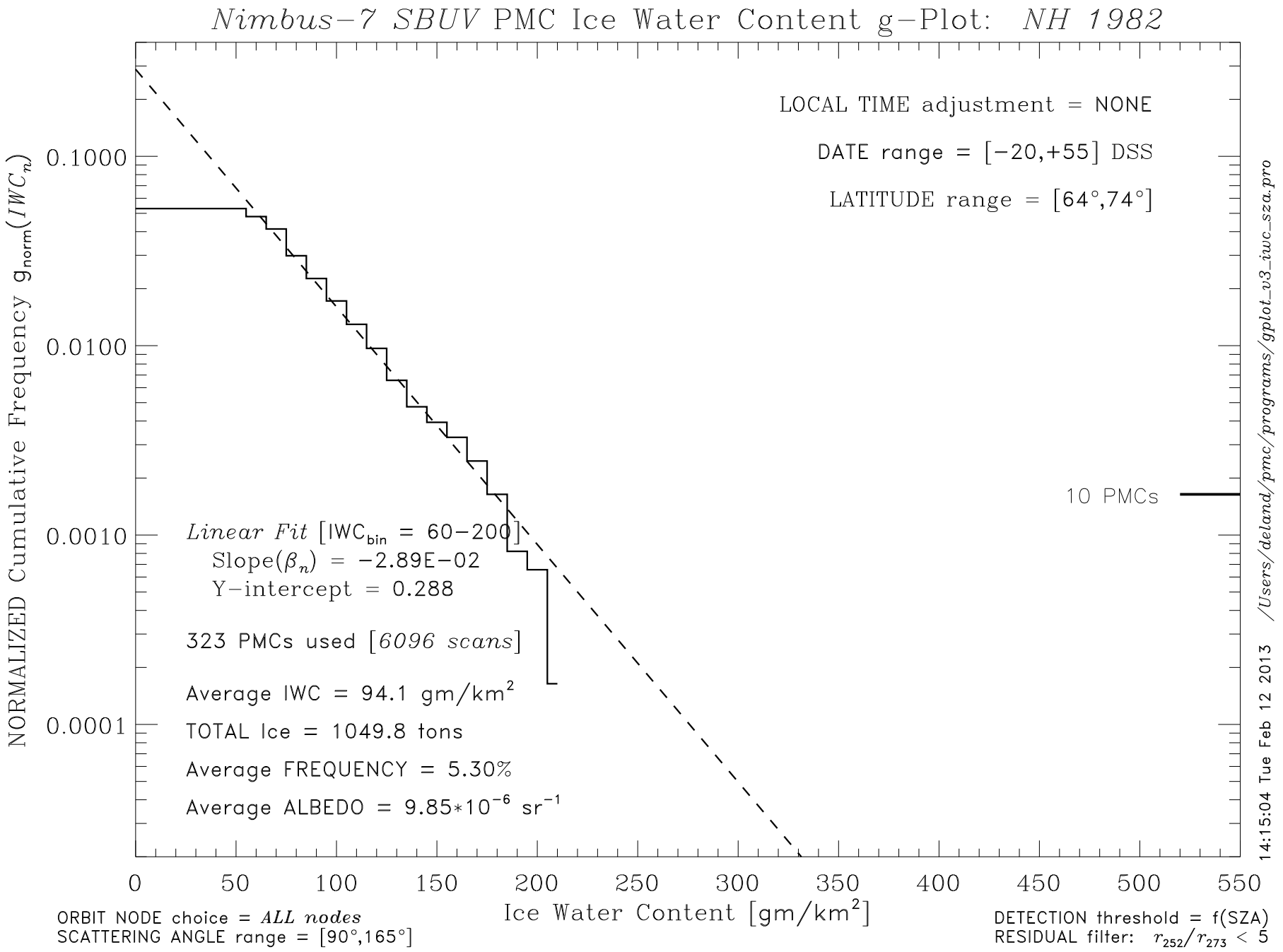
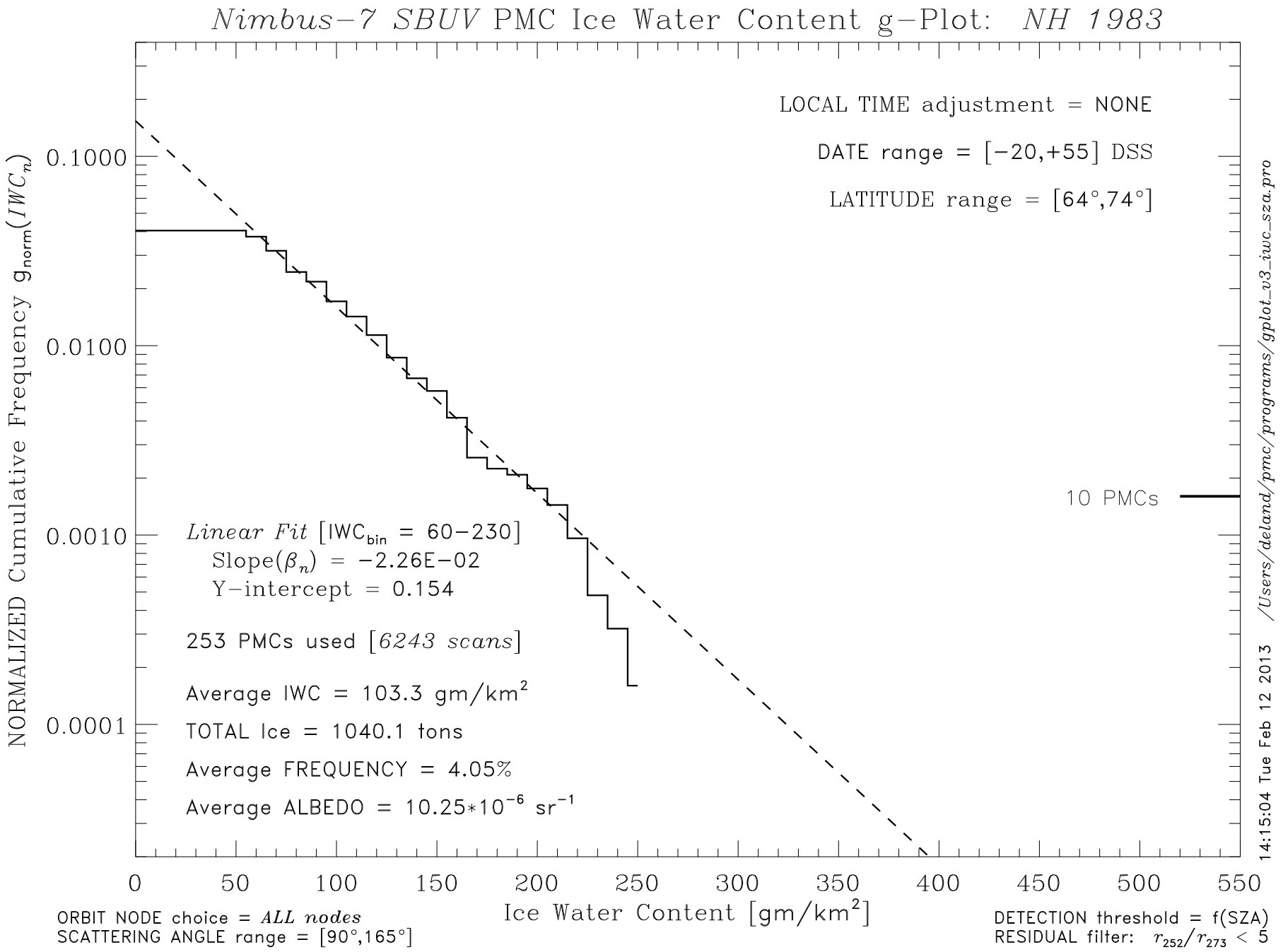
Nimbus−7 SBUV PMC Ice Water Content g−Plot: NH 1979
LOCAL TIME adjustment = NONE
DATE range = [−20,+55] DSS
LATITUDE range = [64°,74°]
10 PMCs
Linear Fit [IWC_bin = 60−160]
Slope(β_n) = −2.88E+02
Y−intercept = 0.092
93 PMCs used [5192 scans]
Average IWC = 91.7 gm/km²
TOTAL Ice = 988.2 tons
Average FREQUENCY = 1.79%
Average ALBEDO = 9.68*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
14:15:02 Tue Feb 12 2013 /Users/deland/pmc/programs/gplot_v3_iwc_sza.pro


Nimbus−7 SBUV PMC Ice Water Content g−Plot: NH 1980
LOCAL TIME adjustment = NONE
DATE range = [−20,+55] DSS
LATITUDE range = [64°,74°]
10 PMCs
Linear Fit [IWC_bin = 60−190]
Slope(β_n) = −2.80E−02
Y−intercept = 0.112
139 PMCs used [5954 scans]
Average IWC = 93.4 gm/km²
TOTAL Ice = 1012.0 tons
Average FREQUENCY = 2.33%
Average ALBEDO = 9.24∗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
14:15:03 Tue Feb 12 2013 /Users/deland/pmc/programs/gplot_v3_iwc_sza.pro

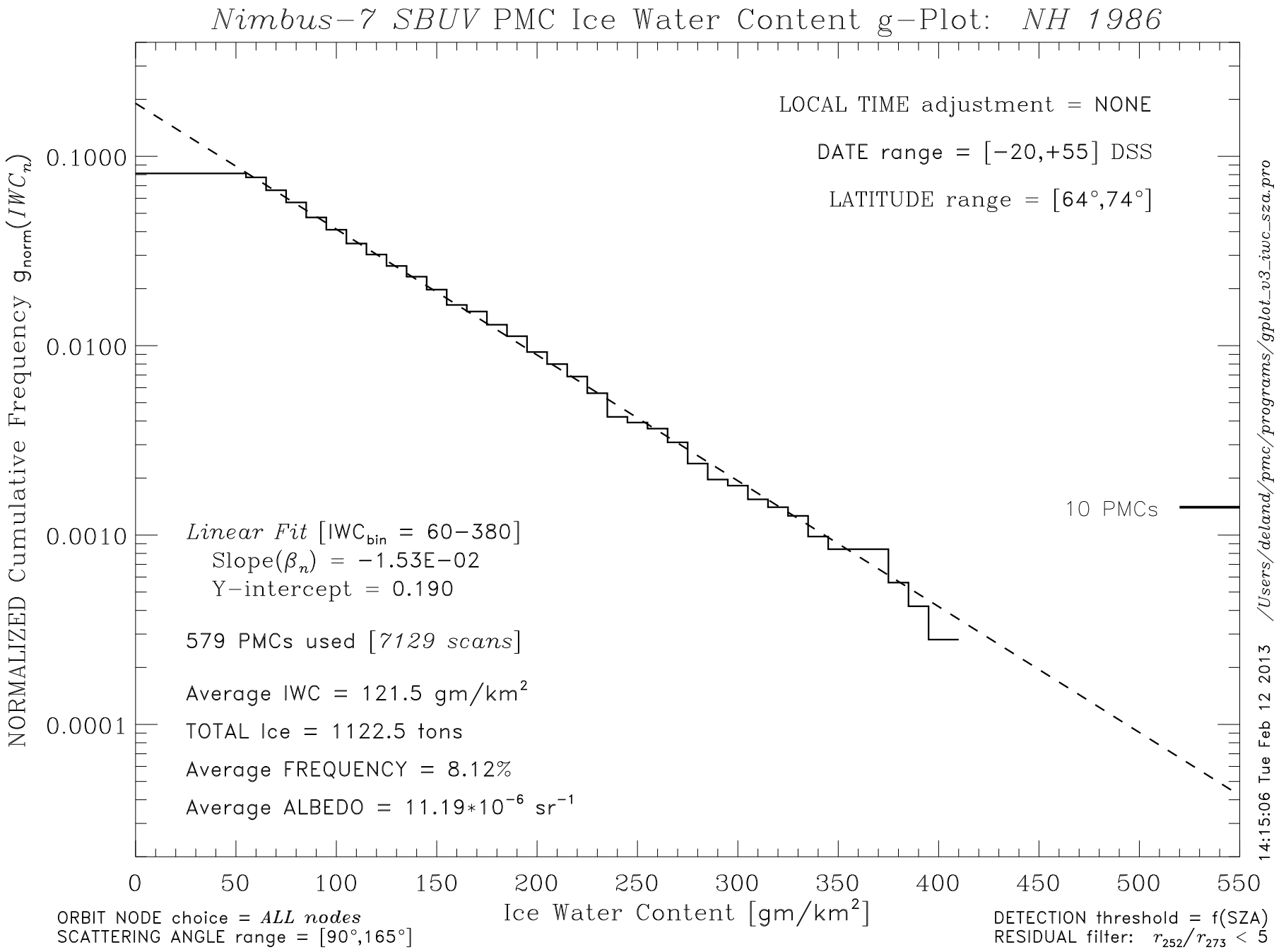

Nimbus−7 SBUV PMC Ice Water Content g−Plot: NH 1981
LOCAL TIME adjustment = NONE
DATE range = [−20,+55] DSS
LATITUDE range = [64°,74°]
10 PMCs
Linear Fit [IWC_bin = 60−170]
Slope(β_n) = −3.24E−02
Y−intercept = 0.146
136 PMCs used [5409 scans]
Average IWC = 85.9 gm/km²
TOTAL Ice = 1016.6 tons
Average FREQUENCY = 2.51%
Average ALBEDO = 8.42∗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
14:15:03 Tue Feb 12 2013 /Users/deland/pmc/programs/gplot_v3_iwc_sza.pro

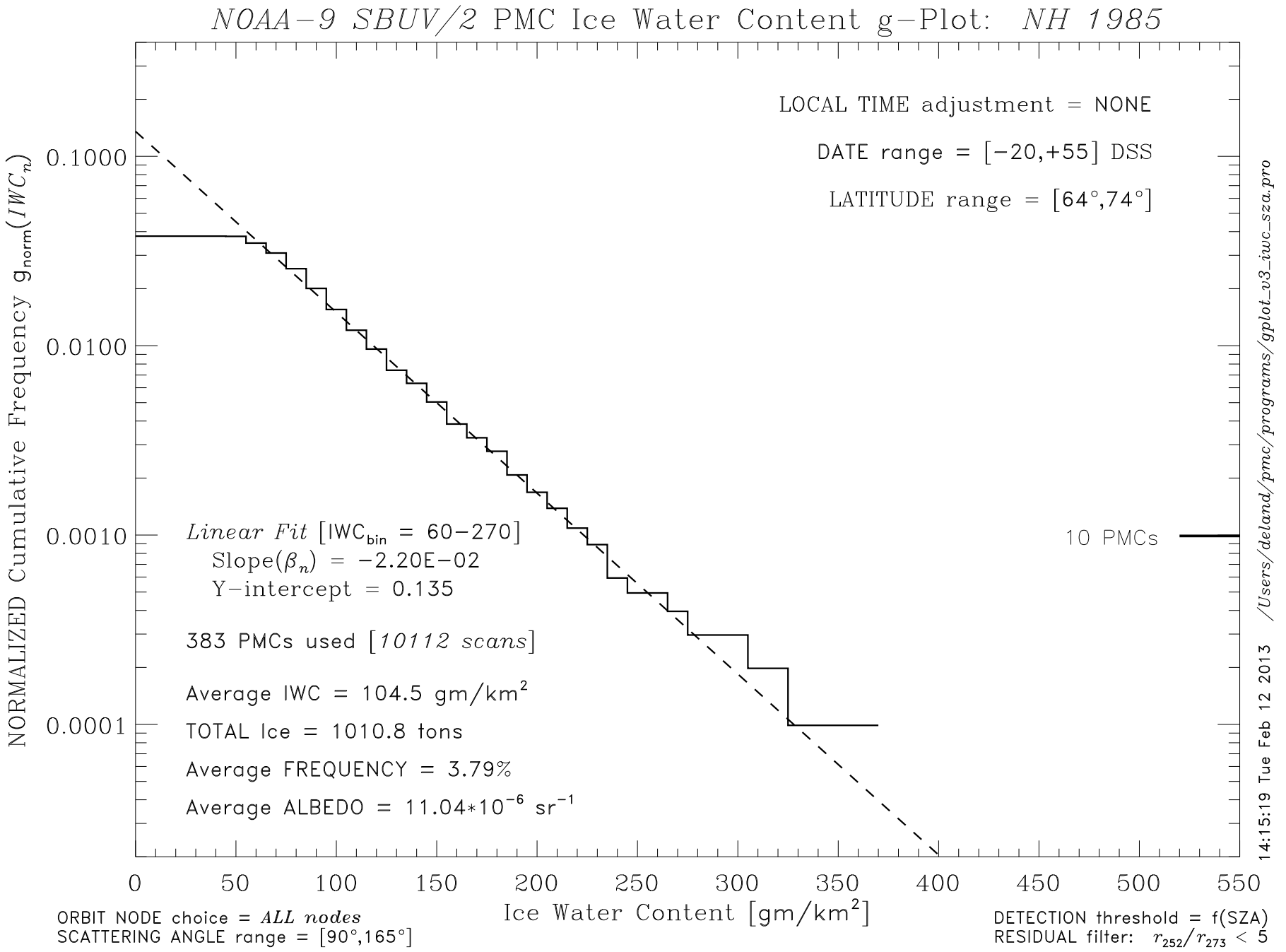

Nimbus−7 SBUV PMC Ice Water Content g−Plot: NH 1982
LOCAL TIME adjustment = NONE
DATE range = [−20,+55] DSS
LATITUDE range = [64°,74°]
10 PMCs
Linear Fit [IWC_bin = 60−200]
Slope(β_n) = −2.89E−02
Y−intercept = 0.288
323 PMCs used [6096 scans]
Average IWC = 94.1 gm/km²
TOTAL Ice = 1049.8 tons
Average FREQUENCY = 5.30%
Average ALBEDO = 9.85∗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]
14:15:04 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

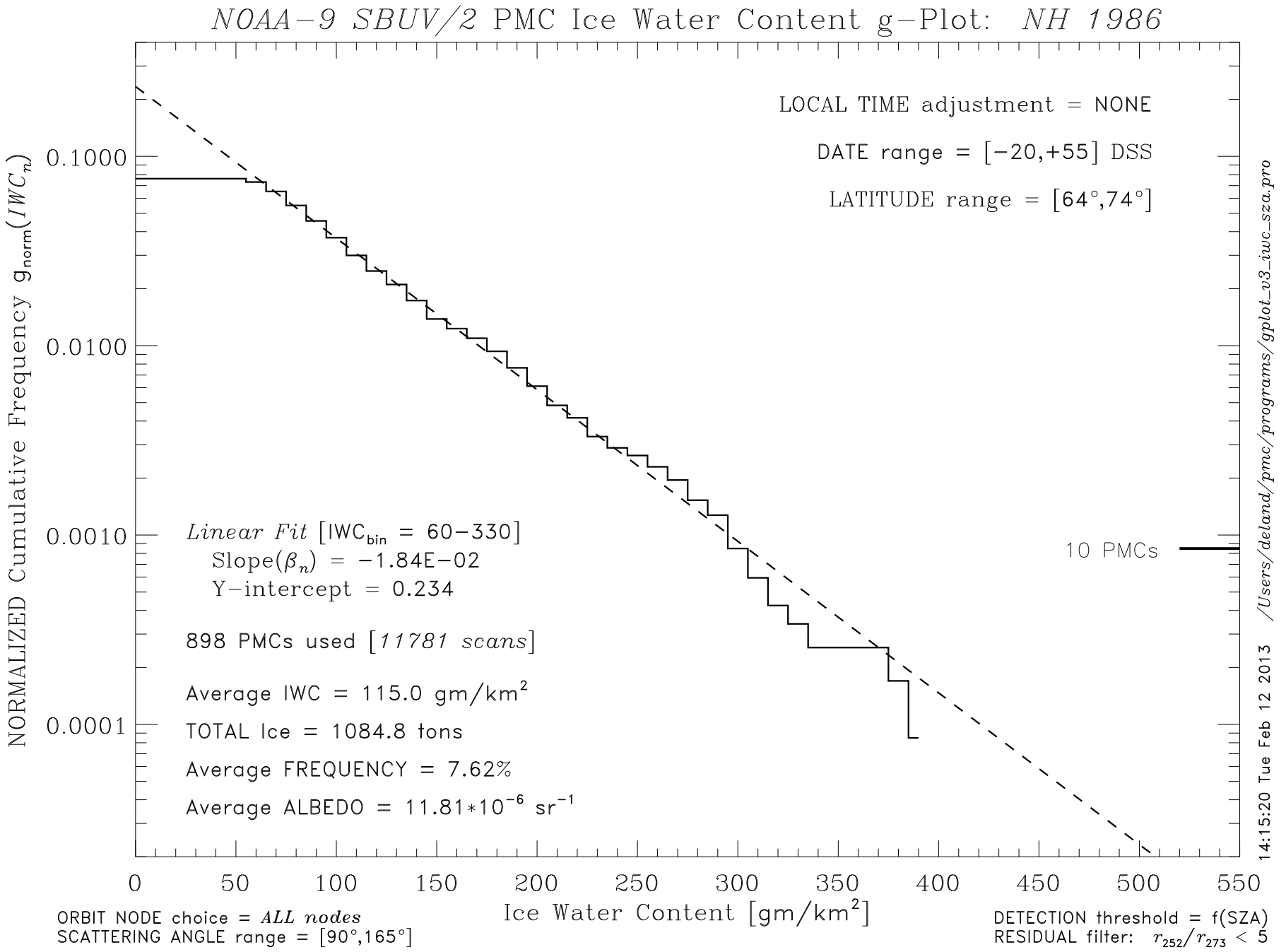

Nimbus−7 SBUV PMC Ice Water Content g−Plot: NH 1983
LOCAL TIME adjustment = NONE
DATE range = [−20,+55] DSS
LATITUDE range = [64°,74°]
10 PMCs
Linear Fit [IWC_bin = 60−230]
Slope(β_n) = −2.26E−02
Y−intercept = 0.154
253 PMCs used [6243 scans]
Average IWC = 103.3 gm/km²
TOTAL Ice = 1040.1 tons
Average FREQUENCY = 4.05%
Average ALBEDO = 10.25*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]
14:15:04 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

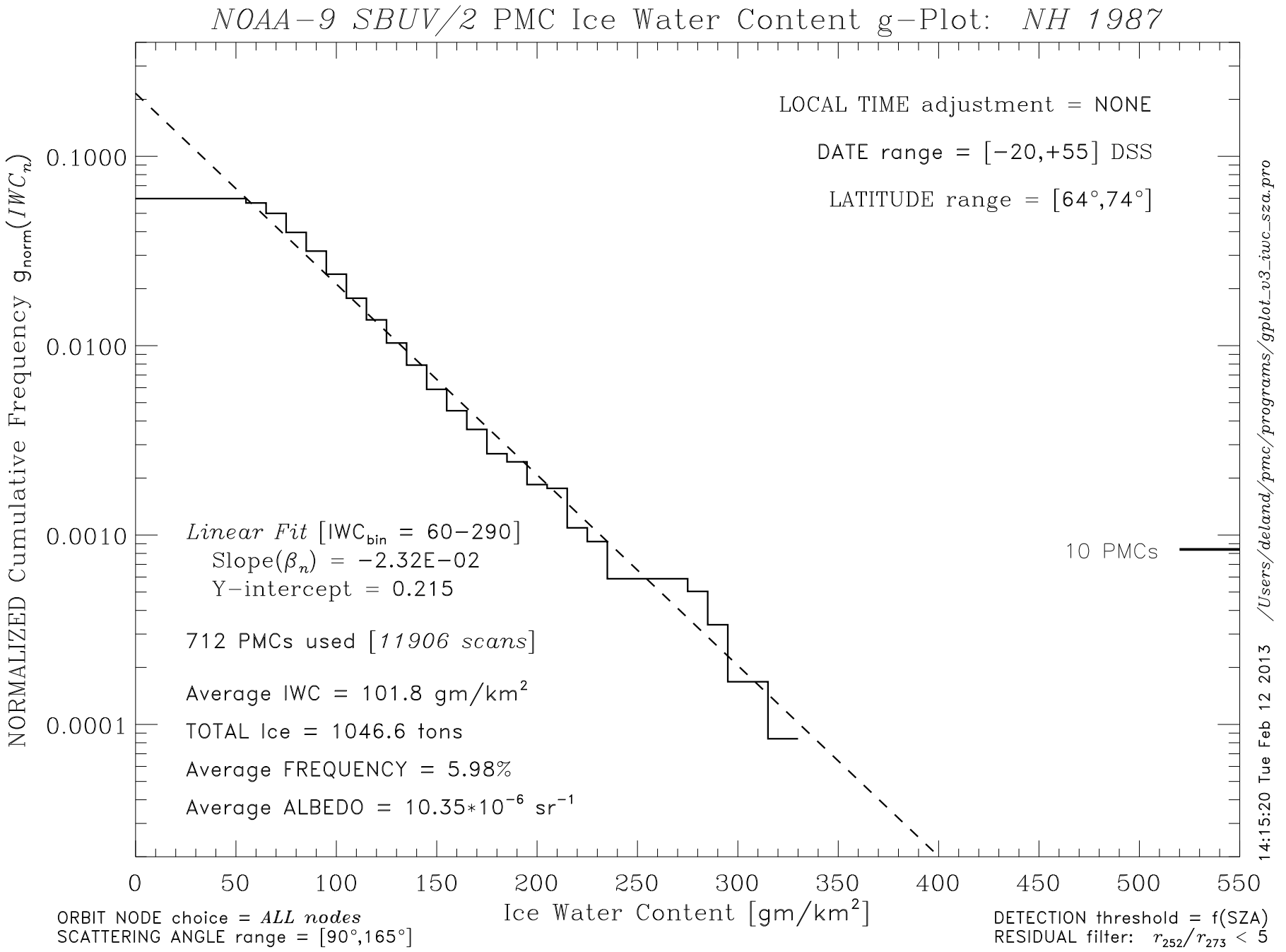
Nimbus−7 SBUV PMC Ice Water Content g−Plot: NH 1984
LOCAL TIME adjustment = NONE
DATE range = [−20,+55] DSS
LATITUDE range = [64°,74°]
10 PMCs
Linear Fit [IWC$_{bin}$ = 60−230]
Slope(β_n) = −2.48E−02
Y−intercept = 0.228
390 PMCs used [7442 scans]
Average IWC = 99.5 gm/km^2
TOTAL Ice = 1058.6 tons
Average FREQUENCY = 5.24%
Average ALBEDO = 9.65*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: $r_{252}/r_{273} < 5$
14:15:05 Tue Feb 12 2013 /Users/deland/pmc/programs/gplot_v3_iwc_sza.pro

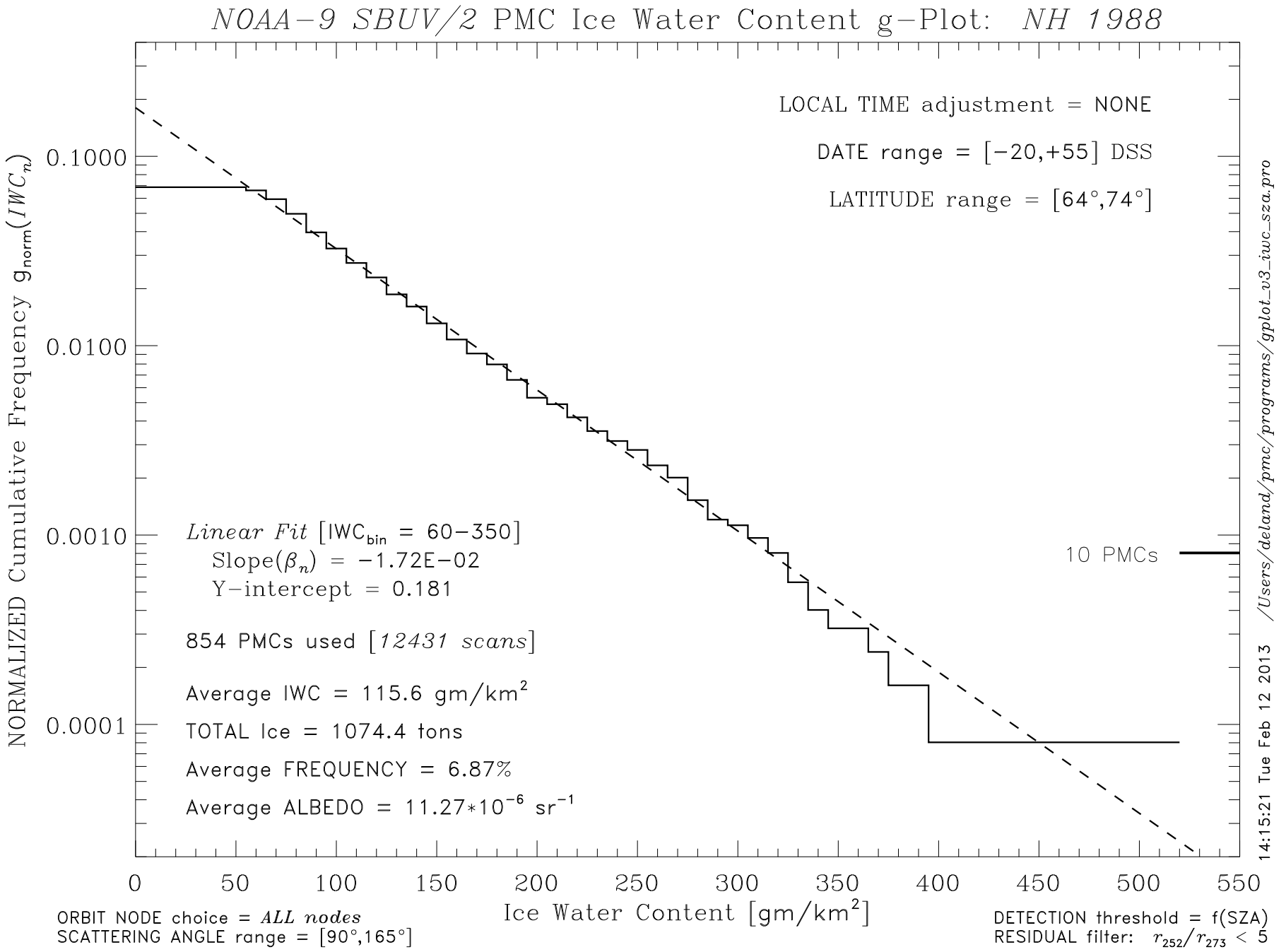
Nimbus−7 SBUV PMC Ice Water Content g−Plot: NH 1985
LOCAL TIME adjustment = NONE
DATE range = [−20,+55] DSS
LATITUDE range = [64°,74°]
10 PMCs
Linear Fit [IWC_bin = 60−330]
Slope(β_n) = −1.90E−02
Y−intercept = 0.147
531 PMCs used [8629 scans]
Average IWC = 104.5 gm/km²
TOTAL Ice = 1062.7 tons
Average FREQUENCY = 6.15%
Average ALBEDO = 10.89*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
14:15:05 Tue Feb 12 2013 /Users/deland/pmc/programs/gplot_v3_iwc_sza.pro

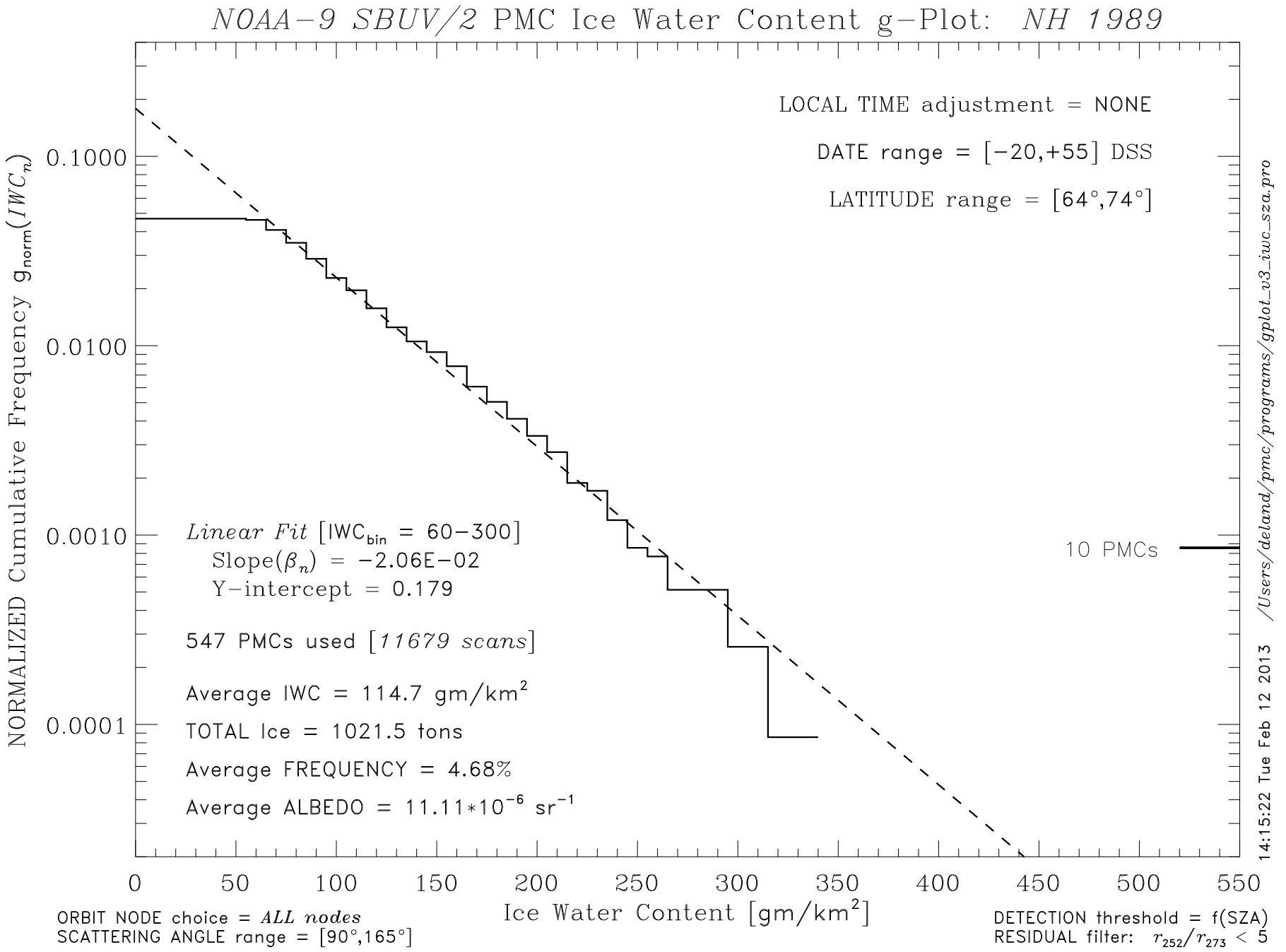

Nimbus−7 SBUV PMC Ice Water Content g−Plot: NH 1986
LOCAL TIME adjustment = NONE
DATE range = [−20,+55] DSS
LATITUDE range = [64°,74°]
10 PMCs
Linear Fit [IWC_bin = 60−380]
Slope(β_n) = −1.53E−02
Y−intercept = 0.190
579 PMCs used [7129 scans]
Average IWC = 121.5 gm/km²
TOTAL Ice = 1122.5 tons
Average FREQUENCY = 8.12%
Average ALBEDO = 11.19∗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]
14:15:06 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

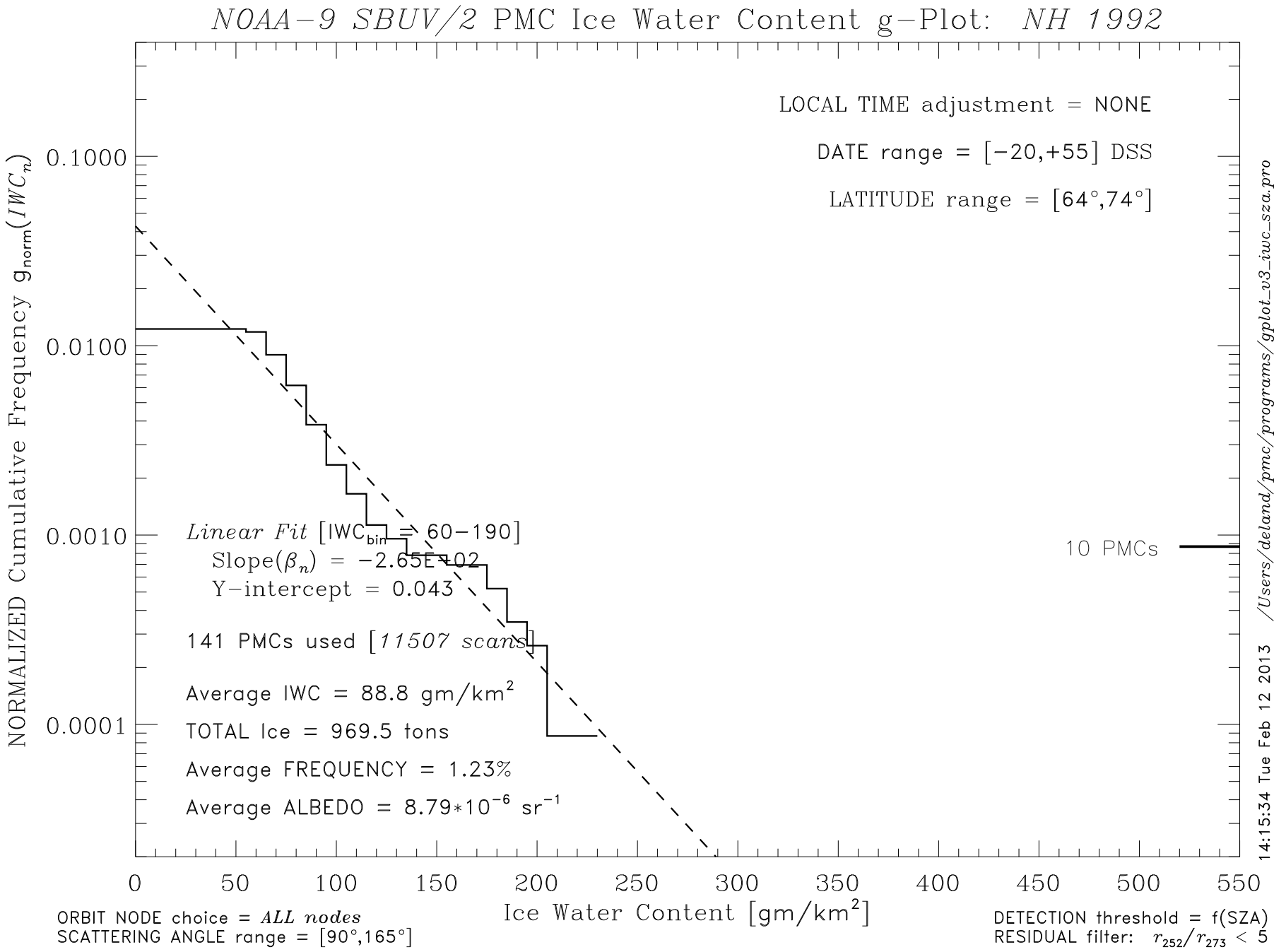

NOAA-9 SBUV/2 PMC Ice Water Content g-Plot: NH 1985
LOCAL TIME adjustment = NONE
DATE range = [-20,+55] DSS
LATITUDE range = [64°,74°]
NORMALIZED Cumulative Frequency $g_{norm}(IWC_n)$
0.1000
0.0100
0.0010
0.0001
Linear Fit [IWC_{bin} = 60-270]
Slope(β_n) = -2.20E-02
Y-intercept = 0.135
383 PMCs used [10112 scans]
Average IWC = 104.5 gm/km^2
TOTAL Ice = 1010.8 tons
Average FREQUENCY = 3.79%
Average ALBEDO = 11.04*10^{-6} sr^{-1}
10 PMCs
0
50
100
150
200
250
300
350
400
450
500
550
Ice Water Content [gm/km^2]
14:15:19 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: NH 1986
LOCAL TIME adjustment = NONE
DATE range = [−20,+55] DSS
LATITUDE range = [64°,74°]
NORMALIZED Cumulative Frequency $g_{norm}(IWC_n)$
0.1000
0.0100
0.0010
0.0001
Linear Fit [IWC$_{bin}$ = 60−330]
Slope(β_n) = −1.84E−02
Y−intercept = 0.234
898 PMCs used [11781 scans]
Average IWC = 115.0 gm/km^2
TOTAL Ice = 1084.8 tons
Average FREQUENCY = 7.62%
Average ALBEDO = 11.81∗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: $r_{252}/r_{273} < 5$
14:15:20 Tue Feb 12 2013 /Users/deland/pmc/programs/gplot_v3_iwc_sza.pro

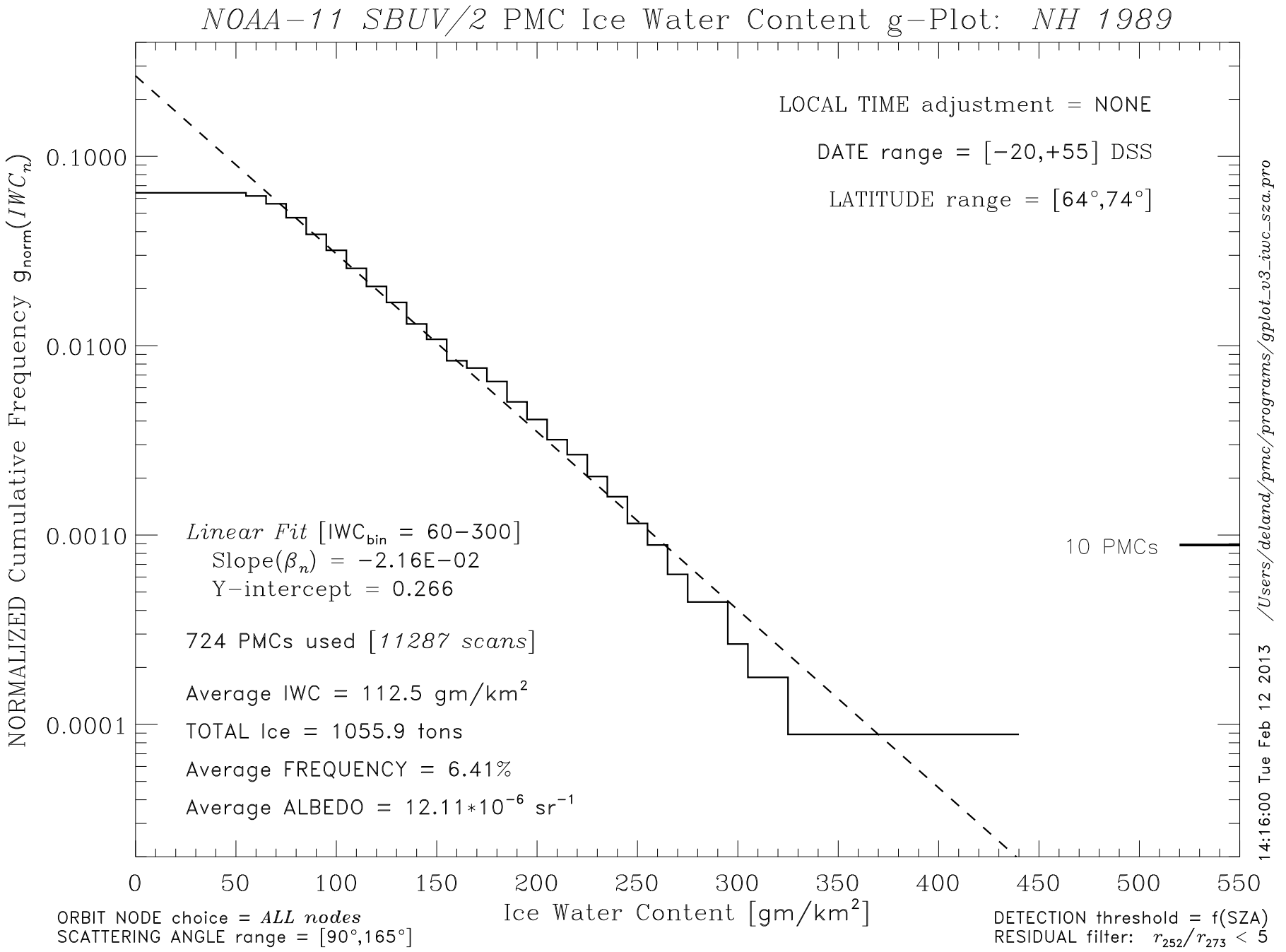

NOAA-9 SBUV/2 PMC Ice Water Content g-Plot: NH 1987
LOCAL TIME adjustment = NONE
DATE range = [-20,+55] DSS
LATITUDE range = [64°,74°]
NORMALIZED Cumulative Frequency $g_{norm}(IWC_n)$
0.1000
0.0100
0.0010
0.0001
Linear Fit [IWC_{bin} = 60-290]
Slope(β_n) = -2.32E-02
Y-intercept = 0.215
712 PMCs used [11906 scans]
Average IWC = 101.8 gm/km^2
TOTAL Ice = 1046.6 tons
Average FREQUENCY = 5.98%
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: $r_{252}/r_{273} < 5$
14:15:20 Tue Feb 12 2013 /Users/deland/pmc/programs/gplot_v3_iwc_sza.pro


NOAA-9 SBUV/2 PMC Ice Water Content g-Plot: NH 1988
LOCAL TIME adjustment = NONE
DATE range = [-20,+55] DSS
LATITUDE range = [64°,74°]
NORMALIZED Cumulative Frequency $g_{norm}(IWC_n)$
0.1000
0.0100
0.0010
0.0001
Linear Fit [IWC_{bin} = 60-350]
Slope(β_n) = -1.72E-02
Y-intercept = 0.181
854 PMCs used [12431 scans]
Average IWC = 115.6 gm/km^2
TOTAL Ice = 1074.4 tons
Average FREQUENCY = 6.87%
Average ALBEDO = 11.27*10^{-6} sr^{-1}
10 PMCs
0
50
100
150
200
250
300
350
400
450
500
550
Ice Water Content [gm/km^2]
14:15:21 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: $r_{252}/r_{273} < 5$

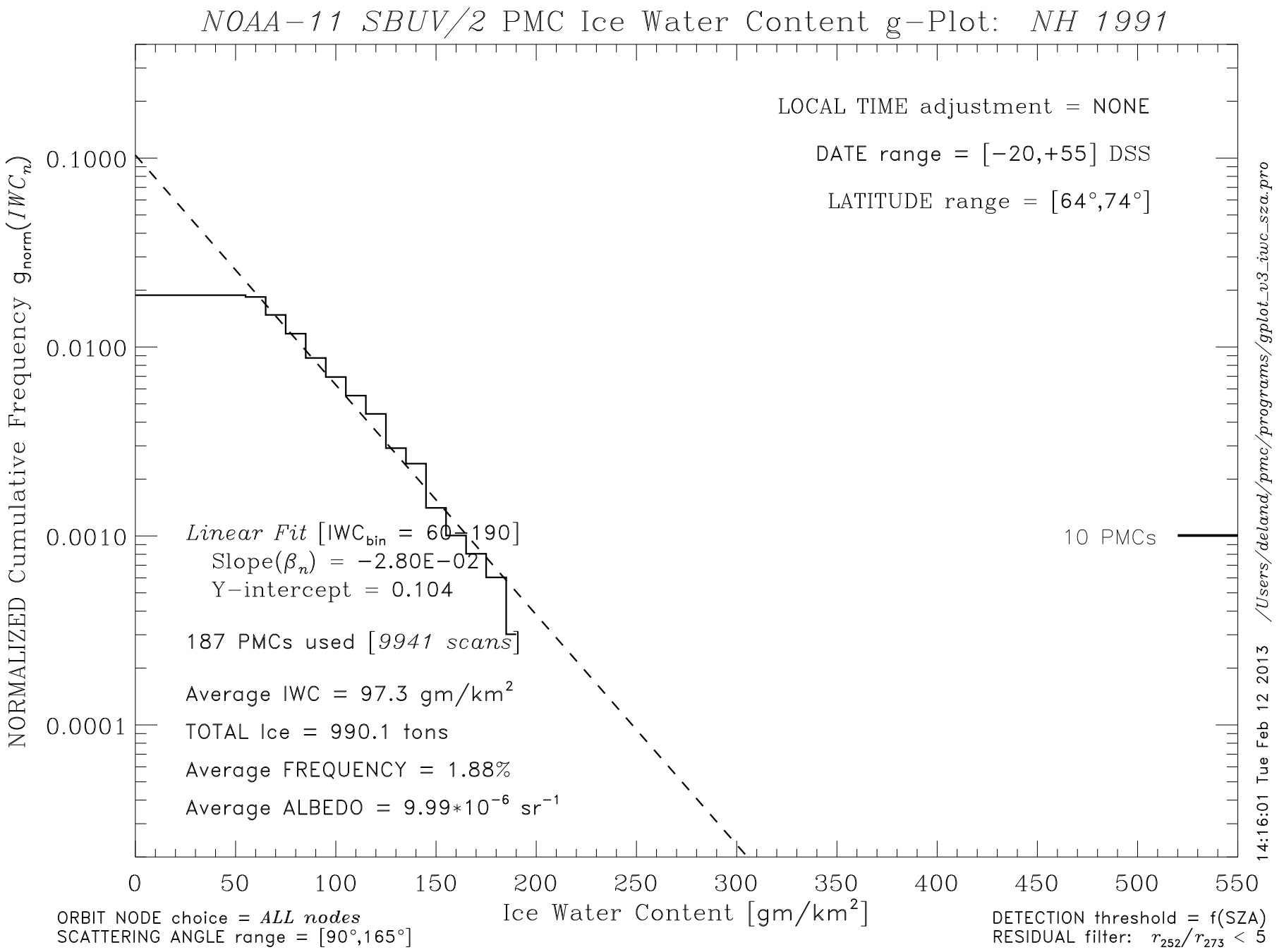

NOAA−9 SBUV/2 PMC Ice Water Content g−Plot: NH 1989
LOCAL TIME adjustment = NONE
DATE range = [−20,+55] DSS
LATITUDE range = [64°,74°]
NORMALIZED Cumulative Frequency $g_{norm}(IWC_n)$
0.1000
0.0100
0.0010
0.0001
Linear Fit [IWC_{bin} = 60−300]
Slope(β_n) = −2.06E−02
Y−intercept = 0.179
547 PMCs used [11679 scans]
Average IWC = 114.7 gm/km^2
TOTAL Ice = 1021.5 tons
Average FREQUENCY = 4.68%
Average ALBEDO = 11.11∗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: $r_{252}/r_{273} < 5$
14:15:22 Tue Feb 12 2013 /Users/deland/pmc/programs/gplot_v3_iwc_sza.pro

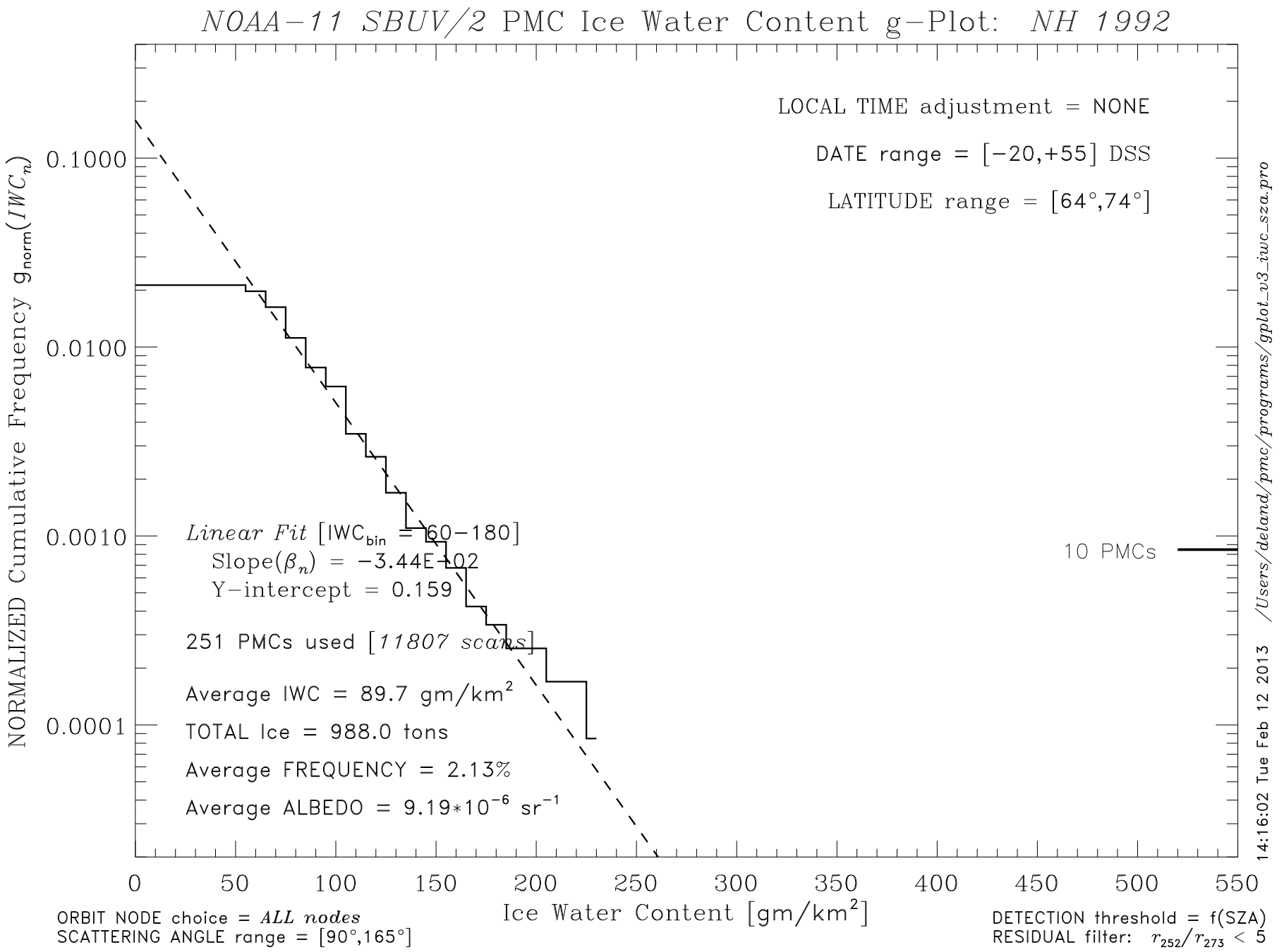

NOAA−9 SBUV/2 PMC Ice Water Content g−Plot: NH 1992
LOCAL TIME adjustment = NONE
DATE range = [−20,+55] DSS
LATITUDE range = [64°,74°]
NORMALIZED Cumulative Frequency $g_{norm}(IWC_n)$
0.1000
0.0100
0.0010
0.0001
Linear Fit [IWC_{bin} = 60−190]
Slope(β_n) = −2.65E−02
Y−intercept = 0.043
141 PMCs used [11507 scans]
Average IWC = 88.8 gm/km^2
TOTAL Ice = 969.5 tons
Average FREQUENCY = 1.23%
Average ALBEDO = 8.79∗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: $r_{252}/r_{273} < 5$
14:15:34 Tue Feb 12 2013 /Users/deland/pmc/programs/gplot_v3_iwc_sza.pro

NOAA−9 SBUV/2 PMC Ice Water Content g−Plot: NH 1994
LOCAL TIME adjustment = NONE
DATE range = [−20,+55] DSS
LATITUDE range = [64°,74°]
Linear Fit [IWC$_{bin}$ = 60−340]
Slope(β_n) = −1.74E−02
Y−intercept = 0.185
776 PMCs used [11802 scans]
Average IWC = 116.7 gm/km^2
TOTAL Ice = 1091.2 tons
Average FREQUENCY = 6.58%
Average ALBEDO = 10.90*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: $r_{252}/r_{273} < 5$
14:15:47 Tue Feb 12 2013 /Users/deland/pmc/programs/gplot_v3_iwc_sza.pro

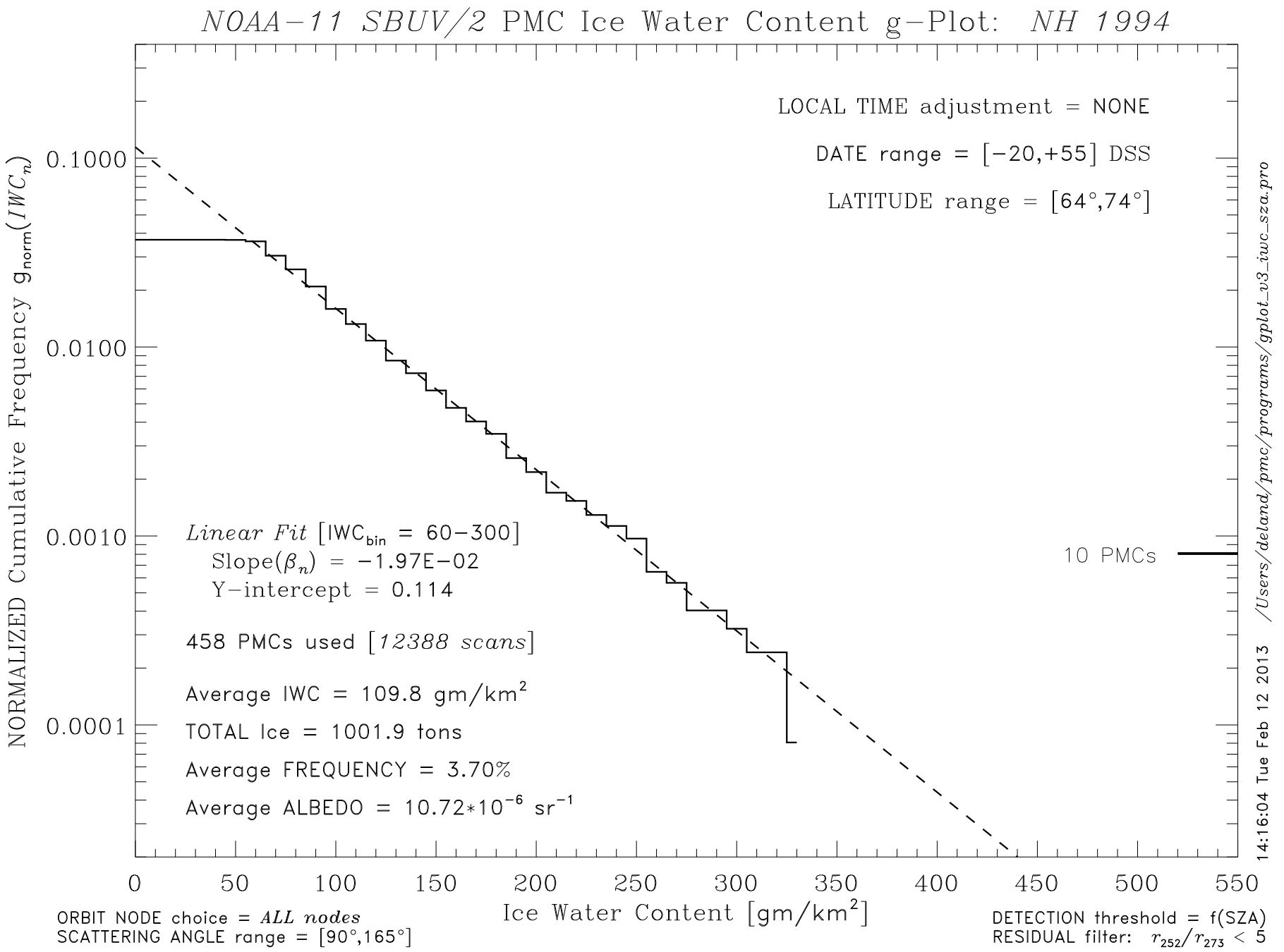

NOAA−11 SBUV/2 PMC Ice Water Content g−Plot: NH 1989
LOCAL TIME adjustment = NONE
DATE range = [−20,+55] DSS
LATITUDE range = [64°,74°]
NORMALIZED Cumulative Frequency $g_{norm}(IWC_n)$
0.1000
0.0100
0.0010
0.0001
Linear Fit [IWC_{bin} = 60−300]
Slope(β_n) = −2.16E−02
Y−intercept = 0.266
724 PMCs used [11287 scans]
Average IWC = 112.5 gm/km^2
TOTAL Ice = 1055.9 tons
Average FREQUENCY = 6.41%
Average ALBEDO = 12.11∗10^{-6} sr^{-1}
10 PMCs
0
50
100
150
200
250
300
350
400
450
500
550
Ice Water Content [gm/km^2]
14:16:00 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: NH 1990
LOCAL TIME adjustment = NONE
DATE range = [−20,+55] DSS
LATITUDE range = [64°,74°]
Linear Fit [IWC$_{bin}$ = 60−210]
Slope(β_n) = −2.84E−02
Y−intercept = 0.118
267 PMCs used [1132 scans]
Average IWC = 93.6 gm/km^2
TOTAL Ice = 973.4 tons
Average FREQUENCY = 2.36%
Average ALBEDO = 10.24*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
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: $r_{252}/r_{273} < 5$
14:16:00 Tue Feb 12 2013 /Users/deland/pmc/programs/gplot_v3_iwc_sza.pro

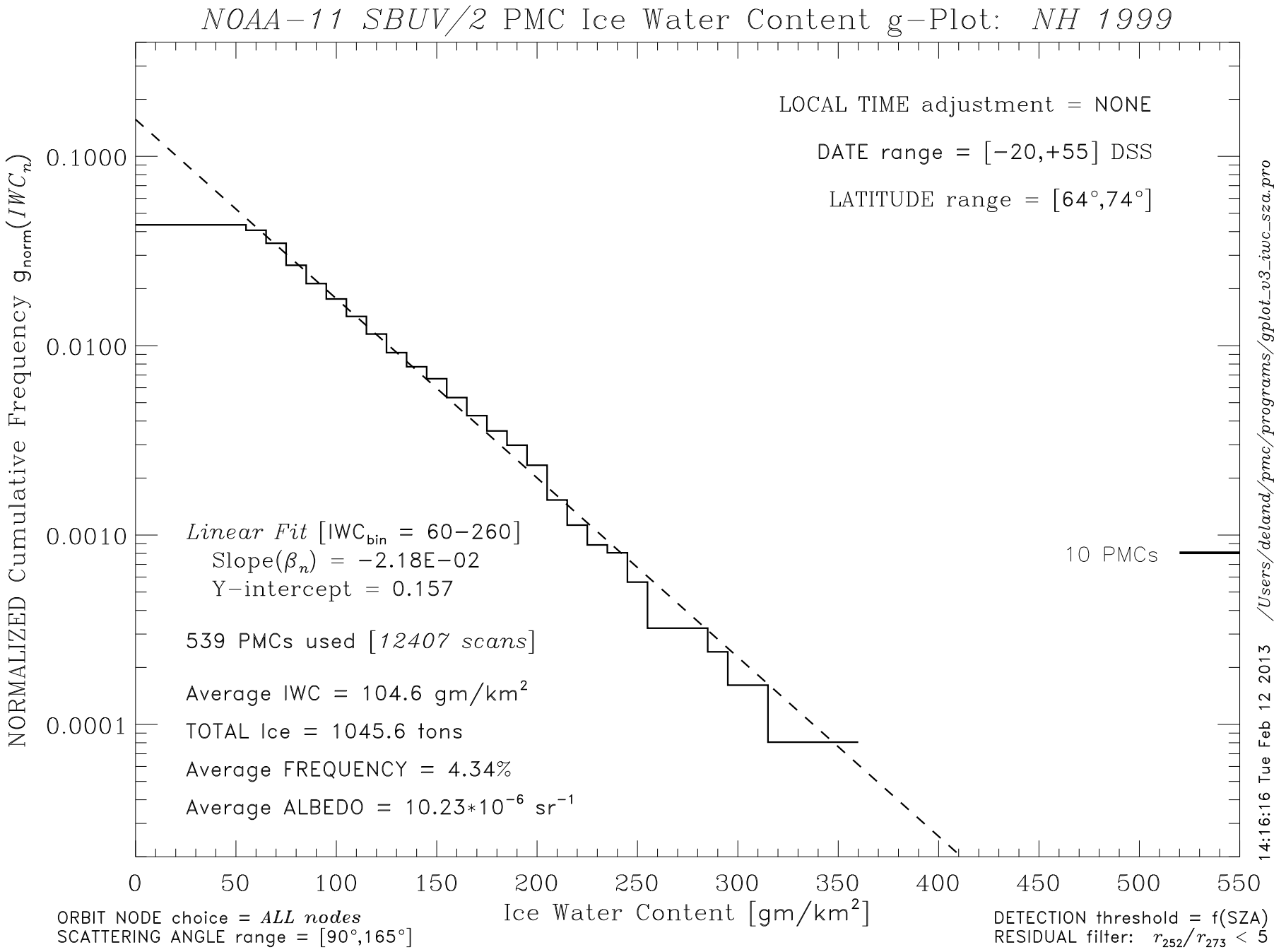

NOAA−11 SBUV/2 PMC Ice Water Content g−Plot: NH 1991
LOCAL TIME adjustment = NONE
DATE range = [−20,+55] DSS
LATITUDE range = [64°,74°]
NORMALIZED Cumulative Frequency $g_{norm}(IWC_n)$
0.1000
0.0100
0.0010
0.0001
Linear Fit [IWC_bin = 60−190]
Slope(β_n) = −2.80E−02
Y−intercept = 0.104
187 PMCs used [9941 scans]
Average IWC = 97.3 gm/km^2
TOTAL Ice = 990.1 tons
Average FREQUENCY = 1.88%
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]
14:16:01 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: NH 1992
LOCAL TIME adjustment = NONE
DATE range = [−20,+55] DSS
LATITUDE range = [64°,74°]
NORMALIZED Cumulative Frequency $g_{norm}(IWC_n)$
0.1000
0.0100
0.0010
0.0001
Linear Fit [IWC_{bin} = 60−180]
Slope(β_n) = −3.44E+02
Y−intercept = 0.159
251 PMCs used [11807 scans]
Average IWC = 89.7 gm/km^2
TOTAL Ice = 988.0 tons
Average FREQUENCY = 2.13%
Average ALBEDO = 9.19∗10^{-6} sr^{-1}
10 PMCs
0
50
100
150
200
250
300
350
400
450
500
550
Ice Water Content [gm/km^2]
ORBIT NODE choice = ALL nodes
SCATTERING ANGLE range = [90°,165°]
DETECTION threshold = f(SZA)
RESIDUAL filter: $r_{252}/r_{273} < 5$
14:16:02 Tue Feb 12 2013 /Users/deland/pmc/programs/gplot_v3_iwc_sza.pro

NOAA−11 SBUV/2 PMC Ice Water Content g−Plot: NH 1993
LOCAL TIME adjustment = NONE
DATE range = [−20,+55] DSS
LATITUDE range = [64°,74°]
10 PMCs
Linear Fit [IWC$_{bin}$ = 60−250]
Slope(β_n) = −2.82E−02
Y−intercept = 0.190
408 PMCs used [11796 scans]
Average IWC = 97.5 gm/km^2
TOTAL Ice = 1010.8 tons
Average FREQUENCY = 3.46%
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/km^2]
ORBIT NODE choice = ALL nodes
SCATTERING ANGLE range = [90°,165°]
DETECTION threshold = f(SZA)
RESIDUAL filter: $r_{252}/r_{273} < 5$
14:16:03 Tue Feb 12 2013 /Users/deland/pmc/programs/gplot_v3_iwc_sza.pro

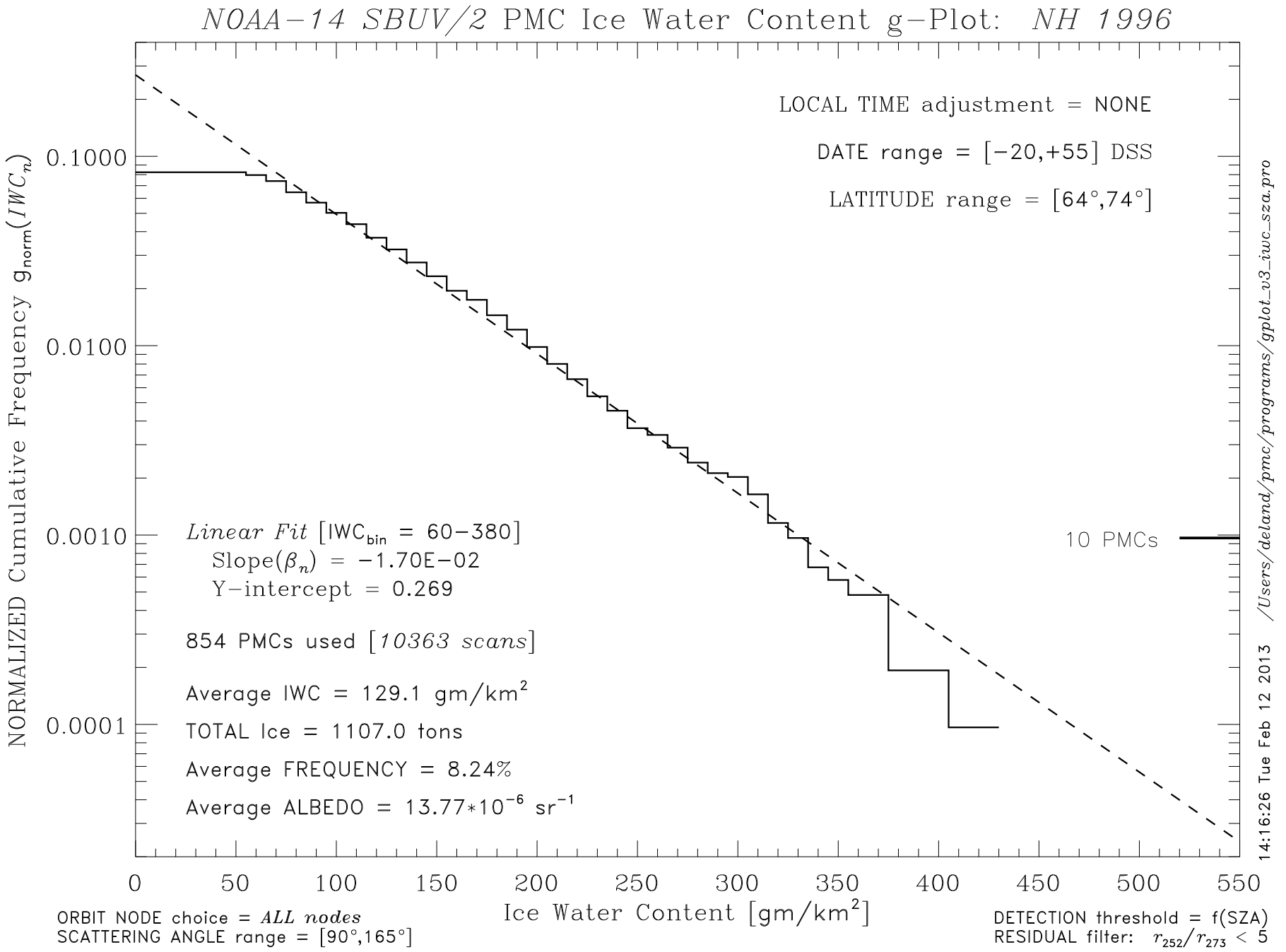

NOAA−11 SBUV/2 PMC Ice Water Content g−Plot: NH 1994
LOCAL TIME adjustment = NONE
DATE range = [−20,+55] DSS
LATITUDE range = [64°,74°]
NORMALIZED Cumulative Frequency $g_{norm}(IWC_n)$
0.1000
0.0100
0.0010
0.0001
Linear Fit [IWC$_{bin}$ = 60−300]
Slope(β_n) = −1.97E−02
Y−intercept = 0.114
458 PMCs used [12388 scans]
Average IWC = 109.8 gm/km^2
TOTAL Ice = 1001.9 tons
Average FREQUENCY = 3.70%
Average ALBEDO = 10.72∗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: $r_{252}/r_{273} < 5$
14:16:04 Tue Feb 12 2013 /Users/deland/pmc/programs/gplot_v3_iwc_sza.pro

NOAA−11 SBUV/2 PMC Ice Water Content g−Plot: NH 1998
LOCAL TIME adjustment = NONE
DATE range = [−20,+55] DSS
LATITUDE range = [64°,74°]
Linear Fit [IWC_bin = 60−250]
Slope(β_n) = −2.43E−02
Y−intercept = 0.153
465 PMCs used [11941 scans]
Average IWC = 98.4 gm/km²
TOTAL Ice = 1036.5 tons
Average FREQUENCY = 3.89%
Average ALBEDO = 9.39*10⁻⁶ sr⁻¹
10 PMCs
NORMALIZED Cumulative Frequency g_norm(IWC_n)
0.1000
0.0100
0.0010
0.0001
0
50
100
150
200
250
300
350
400
450
500
550
Ice Water Content [gm/km²]
ORBIT NODE choice = ALL nodes
SCATTERING ANGLE range = [90°,165°]
DETECTION threshold = f(SZA)
RESIDUAL filter: r252/r273 < 5
14:16:15 Tue Feb 12 2013 /Users/deland/pmc/programs/gplot_v3_iwc_sza.pro

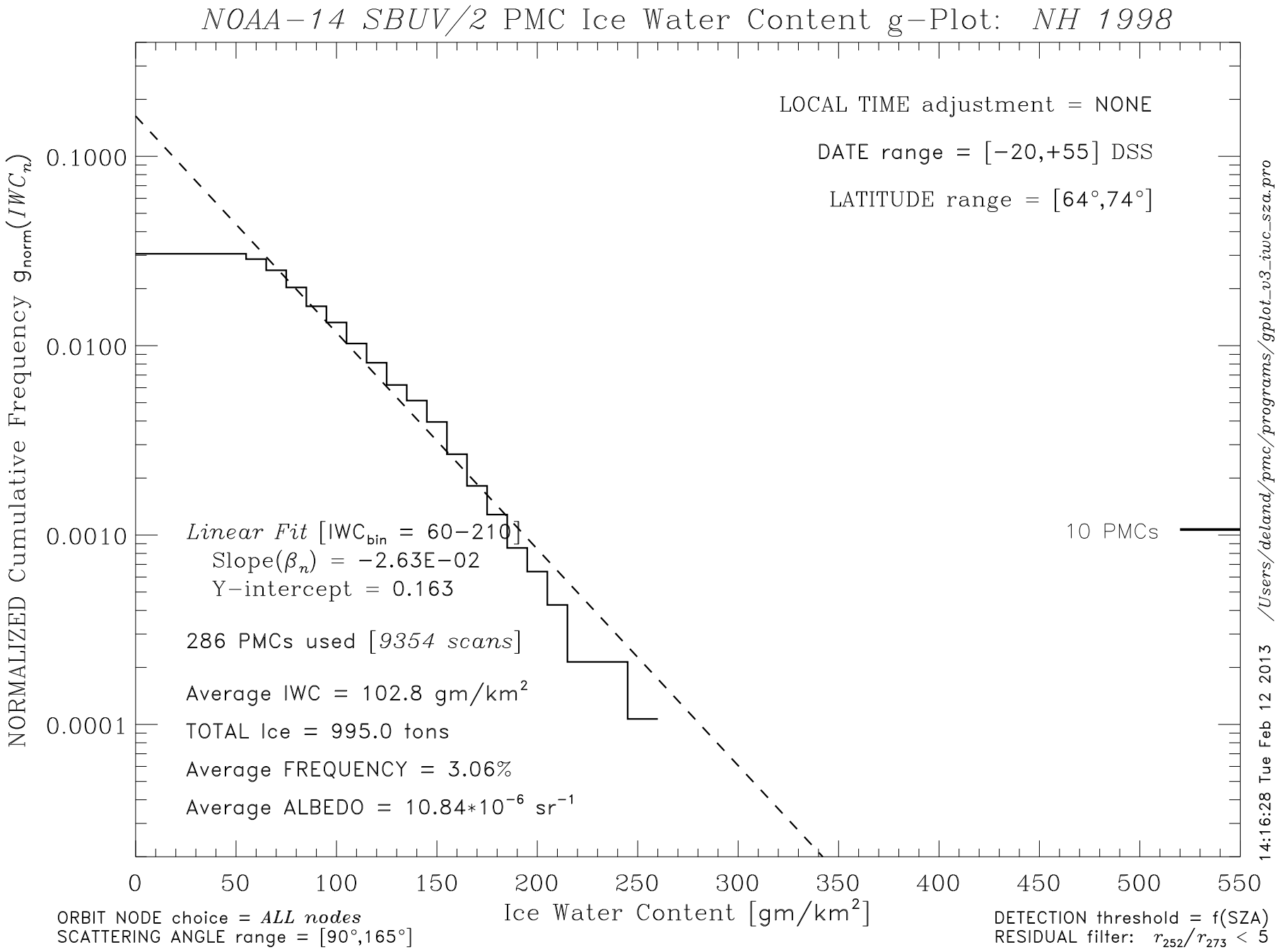

NOAA−11 SBUV/2 PMC Ice Water Content g−Plot: NH 1999
LOCAL TIME adjustment = NONE
DATE range = [−20,+55] DSS
LATITUDE range = [64°,74°]
NORMALIZED Cumulative Frequency $g_{norm}(IWC_n)$
0.1000
0.0100
0.0010
0.0001
Linear Fit [IWC_{bin} = 60−260]
Slope(β_n) = −2.18E−02
Y−intercept = 0.157
539 PMCs used [12407 scans]
Average IWC = 104.6 gm/km^2
TOTAL Ice = 1045.6 tons
Average FREQUENCY = 4.34%
Average ALBEDO = 10.23∗10^{-6} sr^{-1}
10 PMCs
0
50
100
150
200
250
300
350
400
450
500
550
Ice Water Content [gm/km^2]
14:16:16 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: NH 2000
LOCAL TIME adjustment = NONE
DATE range = [−20,+55] DSS
LATITUDE range = [64°,74°]
10 PMCs
Linear Fit [IWC$_{bin}$ = 60−280]
Slope(β_n) = −2.07E−02
Y−intercept = 0.115
452 PMCs used [11513 scans]
Average IWC = 102.8 gm/km^2
TOTAL Ice = 1038.3 tons
Average FREQUENCY = 3.93%
Average ALBEDO = 10.11*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: $r_{252}/r_{273} < 5$
14:16:16 Tue Feb 12 2013 /Users/deland/pmc/programs/gplot_v3_iwc_sza.pro

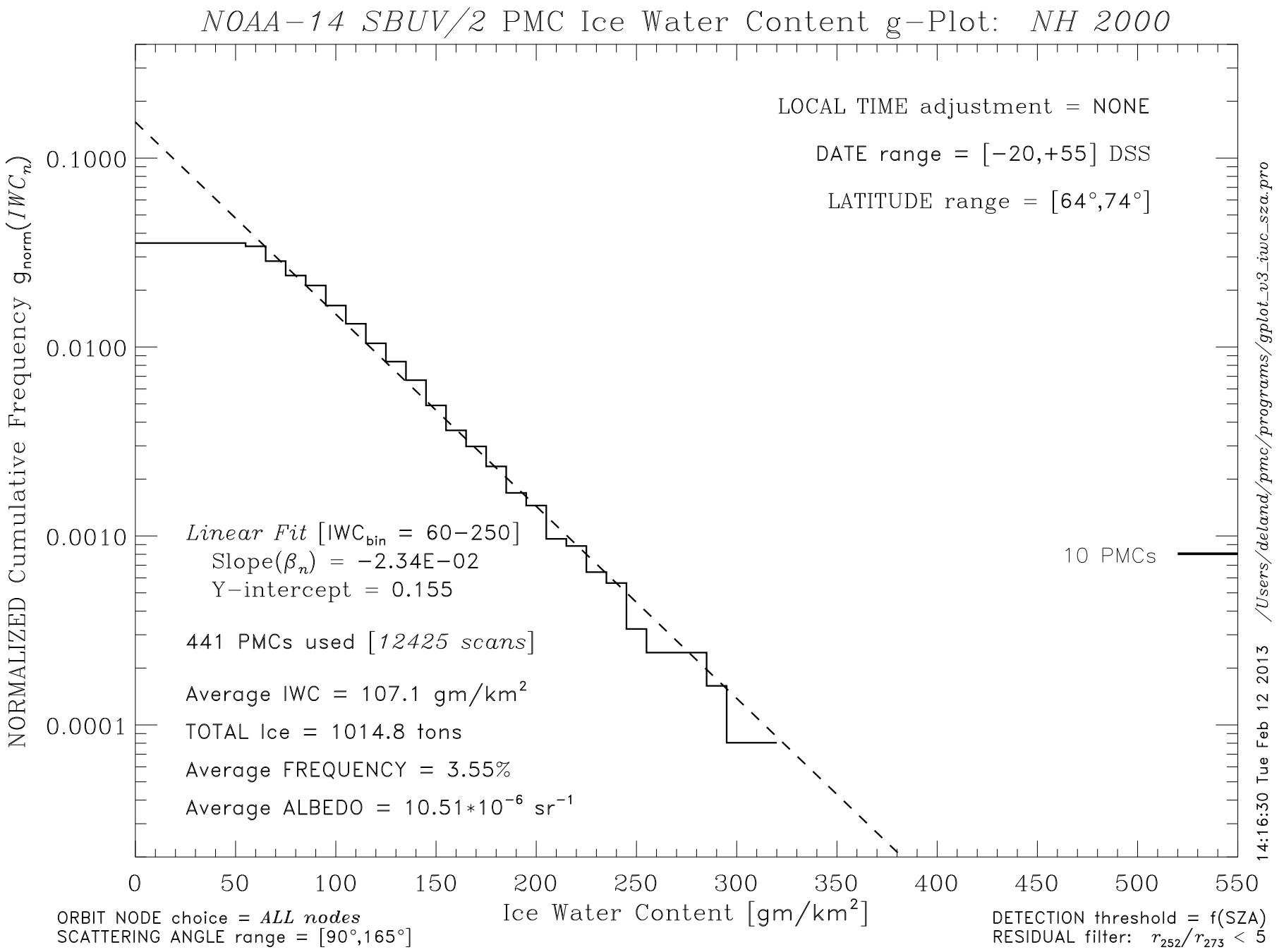
NOAA−14 SBUV/2 PMC Ice Water Content g−Plot: NH 1995
LOCAL TIME adjustment = NONE
DATE range = [−20,+55] DSS
LATITUDE range = [64°,74°]
10 PMCs
Linear Fit [IWC$_{bin}$ = 60−320]
Slope(β_n) = −1.90E−02
Y−intercept = 0.256
592 PMCs used [8515 scans]
Average IWC = 121.4 gm/km^2
TOTAL Ice = 1095.2 tons
Average FREQUENCY = 6.95%
Average ALBEDO = 12.66*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: $r_{252}/r_{273} < 5$
14:16:26 Tue Feb 12 2013 /Users/deland/pmc/programs/gplot_v3_iwc_sza.pro


NOAA−14 SBUV/2 PMC Ice Water Content g−Plot: NH 1996
LOCAL TIME adjustment = NONE
DATE range = [−20,+55] DSS
LATITUDE range = [64°,74°]
NORMALIZED Cumulative Frequency $g_{norm}(IWC_n)$
0.1000
0.0100
0.0010
0.0001
Linear Fit [IWC$_{bin}$ = 60−380]
Slope(β_n) = −1.70E−02
Y−intercept = 0.269
854 PMCs used [10363 scans]
Average IWC = 129.1 gm/km^2
TOTAL Ice = 1107.0 tons
Average FREQUENCY = 8.24%
Average ALBEDO = 13.77∗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: $r_{252}/r_{273} < 5$
14:16:26 Tue Feb 12 2013 /Users/deland/pmc/programs/gplot_v3_iwc_sza.pro

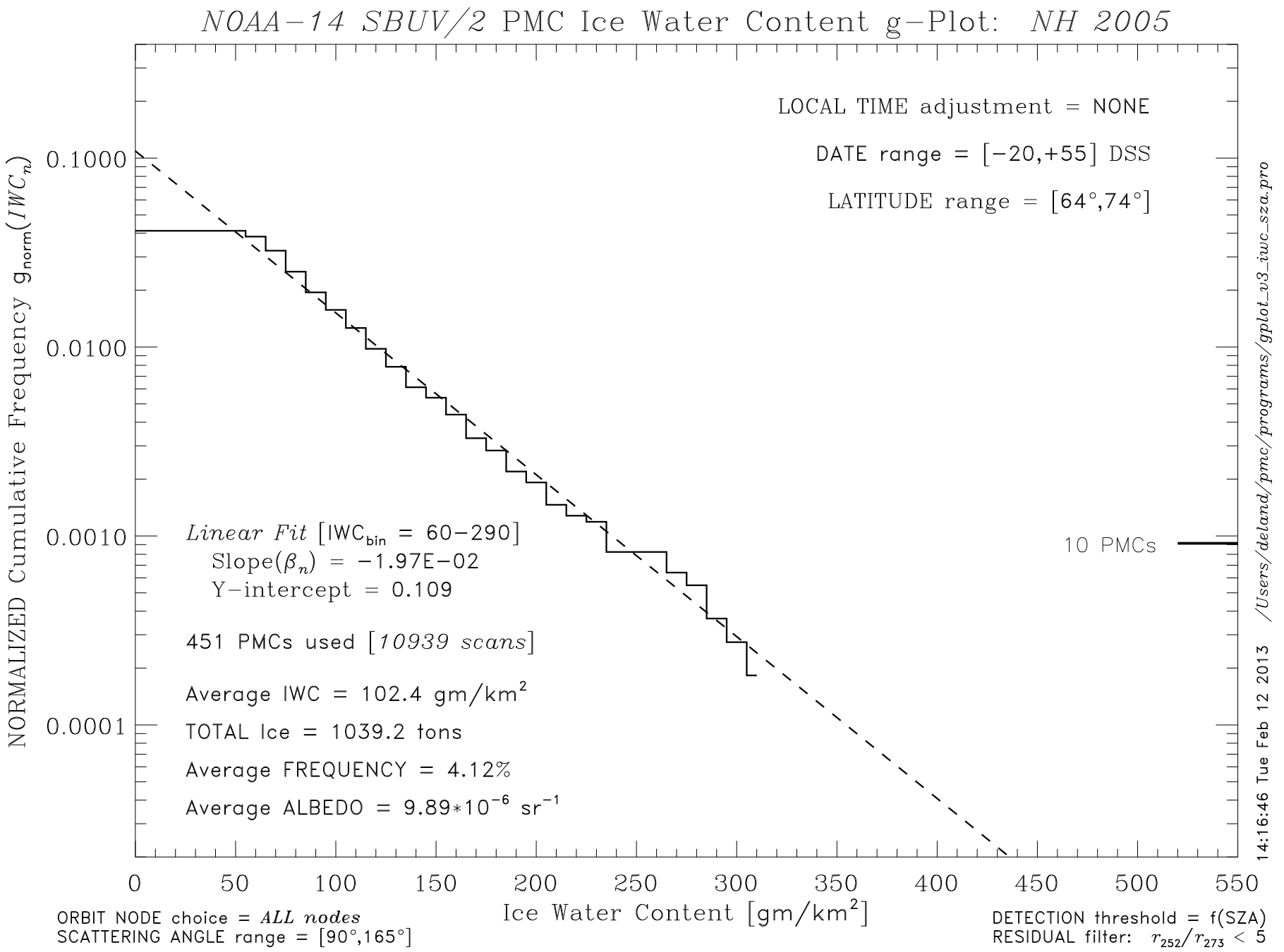
NOAA−14 SBUV/2 PMC Ice Water Content g−Plot: NH 1997
LOCAL TIME adjustment = NONE
DATE range = [−20,+55] DSS
LATITUDE range = [64°,74°]
Linear Fit [IWC$_{bin}$ = 60−410]
Slope(β_n) = −1.68E−02
Y−intercept = 0.315
1106 PMCs used [11936 scans]
Average IWC = 133.8 gm/km^2
TOTAL Ice = 1139.5 tons
Average FREQUENCY = 9.27%
Average ALBEDO = 13.94*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: $r_{252}/r_{273} < 5$
14:16:27 Tue Feb 12 2013 /Users/deland/pmc/programs/gplot_v3_iwc_sza.pro


NOAA−14 SBUV/2 PMC Ice Water Content g−Plot: NH 1998
LOCAL TIME adjustment = NONE
DATE range = [−20,+55] DSS
LATITUDE range = [64°,74°]
NORMALIZED Cumulative Frequency $g_{norm}(IWC_n)$
0.1000
0.0100
0.0010
0.0001
Linear Fit [IWC$_{bin}$ = 60−210]
Slope(β_n) = −2.63E−02
Y−intercept = 0.163
286 PMCs used [9354 scans]
Average IWC = 102.8 gm/km^2
TOTAL Ice = 995.0 tons
Average FREQUENCY = 3.06%
Average ALBEDO = 10.84∗10^{-6} sr^{-1}
10 PMCs
0
50
100
150
200
250
300
350
400
450
500
550
Ice Water Content [gm/km^2]
14:16:28 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: NH 1999
LOCAL TIME adjustment = NONE
DATE range = [−20,+55] DSS
LATITUDE range = [64°,74°]
Linear Fit [IWC_bin = 60−260]
Slope(β_n) = −2.34E−02
Y−intercept = 0.180
528 PMCs used [12446 scans]
Average IWC = 106.1 gm/km²
TOTAL Ice = 1010.8 tons
Average FREQUENCY = 4.24%
Average ALBEDO = 10.93*10⁻⁶ sr⁻¹
10 PMCs
NORMALIZED Cumulative Frequency g_norm(IWC_n)
0.1000
0.0100
0.0010
0.0001
0
50
100
150
200
250
300
350
400
450
500
550
Ice Water Content [gm/km²]
ORBIT NODE choice = ALL nodes
SCATTERING ANGLE range = [90°,165°]
DETECTION threshold = f(SZA)
RESIDUAL filter: r252/r273 < 5
14:16:29 Tue Feb 12 2013 /Users/deland/pmc/programs/gplot_v3_iwc_sza.pro


NOAA−14 SBUV/2 PMC Ice Water Content g−Plot: NH 2000
LOCAL TIME adjustment = NONE
DATE range = [−20,+55] DSS
LATITUDE range = [64°,74°]
NORMALIZED Cumulative Frequency $g_{norm}(IWC_n)$
0.1000
0.0100
0.0010
0.0001
Linear Fit [IWC_{bin} = 60−250]
Slope(β_n) = −2.34E−02
Y−intercept = 0.155
441 PMCs used [12425 scans]
Average IWC = 107.1 gm/km^2
TOTAL Ice = 1014.8 tons
Average FREQUENCY = 3.55%
Average ALBEDO = 10.51∗10^{-6} sr^{-1}
10 PMCs
0
50
100
150
200
250
300
350
400
450
500
550
Ice Water Content [gm/km^2]
14:16:30 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: $r_{252}/r_{273} < 5$

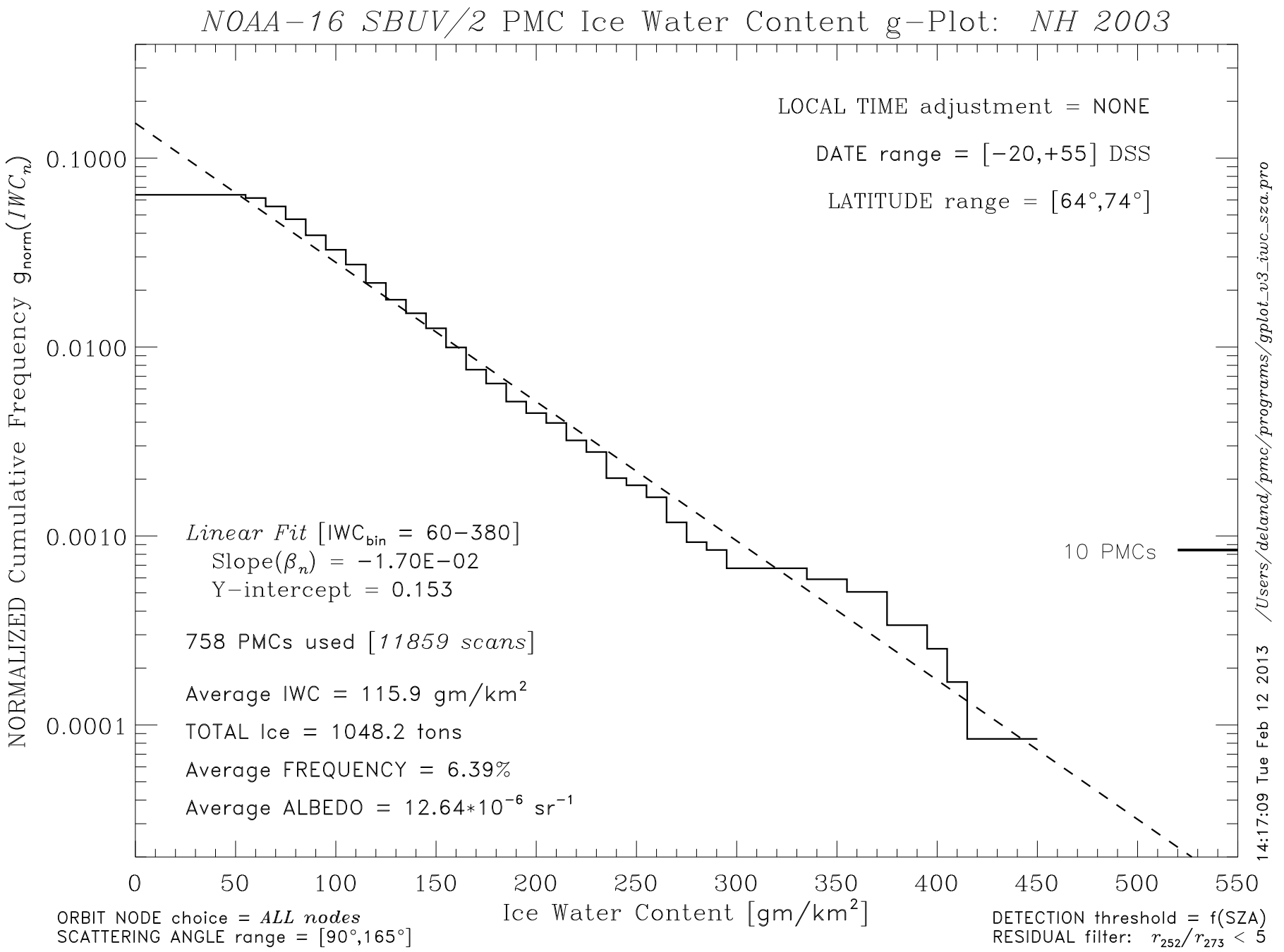
NOAA−14 SBUV/2 PMC Ice Water Content g−Plot: NH 2004
LOCAL TIME adjustment = NONE
DATE range = [−20,+55] DSS
LATITUDE range = [64°,74°]
10 PMCs
Linear Fit [IWC$_{bin}$ = 60−260]
Slope(β_n) = −2.03E−02
Y−intercept = 0.115
353 PMCs used [10853 scans]
Average IWC = 111.9 gm/km^2
TOTAL Ice = 1028.2 tons
Average FREQUENCY = 3.25%
Average ALBEDO = 10.52*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: $r_{252}/r_{273} < 5$
14:16:46 Tue Feb 12 2013 /Users/deland/pmc/programs/gplot_v3_iwc_sza.pro


NOAA−14 SBUV/2 PMC Ice Water Content g−Plot: NH 2005
LOCAL TIME adjustment = NONE
DATE range = [−20,+55] DSS
LATITUDE range = [64°,74°]
NORMALIZED Cumulative Frequency $g_{norm}(IWC_n)$
0.1000
0.0100
0.0010
0.0001
Linear Fit [IWC$_{bin}$ = 60−290]
Slope(β_n) = −1.97E−02
Y−intercept = 0.109
451 PMCs used [10939 scans]
Average IWC = 102.4 gm/km^2
TOTAL Ice = 1039.2 tons
Average FREQUENCY = 4.12%
Average ALBEDO = 9.89∗10^{-6} sr^{-1}
10 PMCs
0
50
100
150
200
250
300
350
400
450
500
550
Ice Water Content [gm/km^2]
14:16:46 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: NH 2006
LOCAL TIME adjustment = NONE
DATE range = [−20,+55] DSS
LATITUDE range = [64°,74°]
10 PMCs
Linear Fit [IWC_bin = 60−350]
Slope(β_n) = −1.49E−02
Y−intercept = 0.070
349 PMCs used [9630 scans]
Average IWC = 115.3 gm/km²
TOTAL Ice = 1031.8 tons
Average FREQUENCY = 3.62%
Average ALBEDO = 11.32*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
14:16:47 Tue Feb 12 2013 /Users/deland/pmc/programs/gplot_v3_iwc_sza.pro

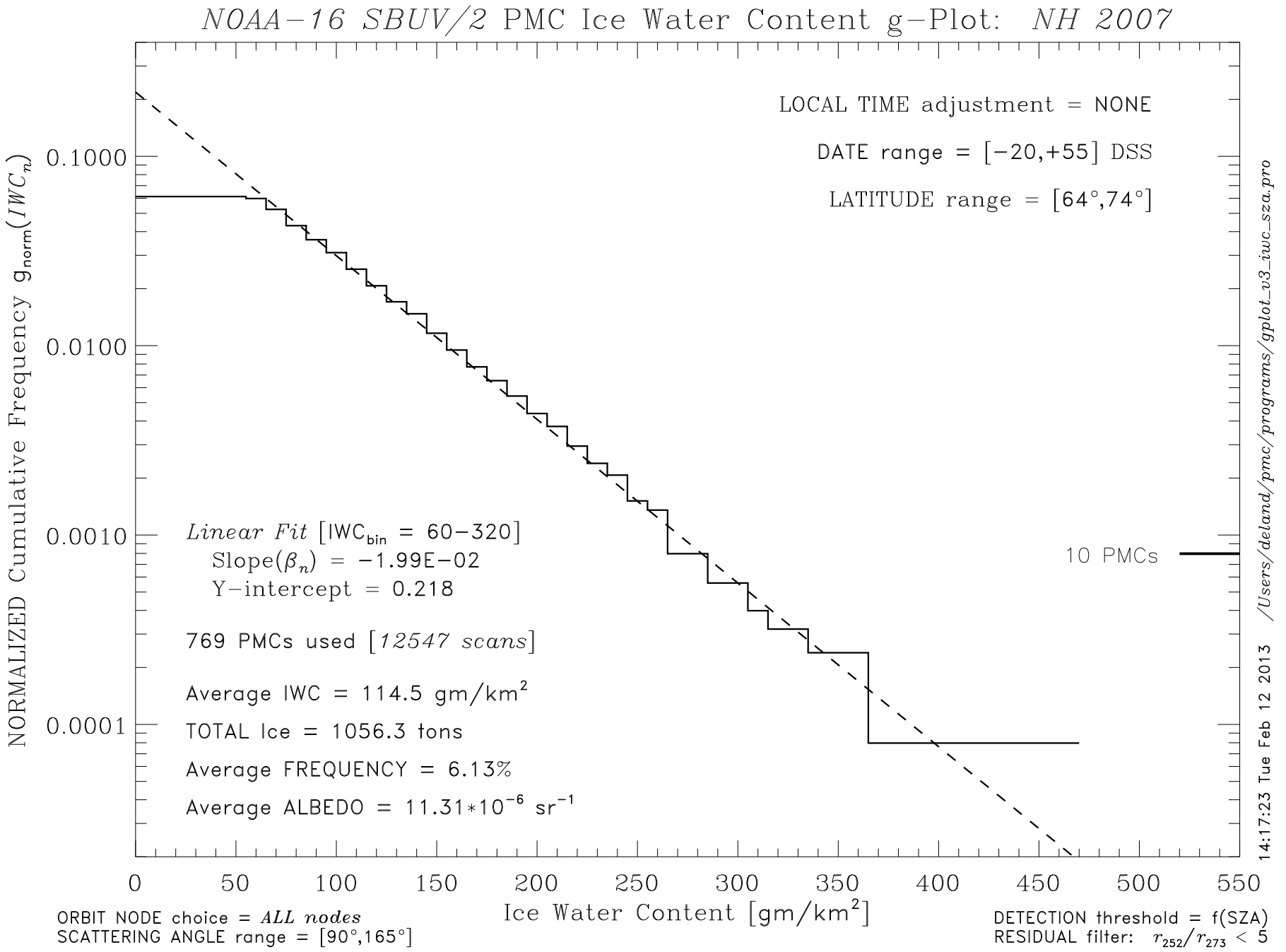
NOAA−16 SBUV/2 PMC Ice Water Content g−Plot: NH 2001
LOCAL TIME adjustment = NONE
DATE range = [−20,+55] DSS
LATITUDE range = [64°,74°]
10 PMCs
Linear Fit [IWC$_{bin}$ = 60−230]
Slope(β_n) = −2.78E−02
Y−intercept = 0.290
555 PMCs used [11484 scans]
Average IWC = 102.1 gm/km^2
TOTAL Ice = 1005.4 tons
Average FREQUENCY = 4.83%
Average ALBEDO = 11.60*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: $r_{252}/r_{273} < 5$
14:17:07 Tue Feb 12 2013 /Users/deland/pmc/programs/gplot_v3_iwc_sza.pro

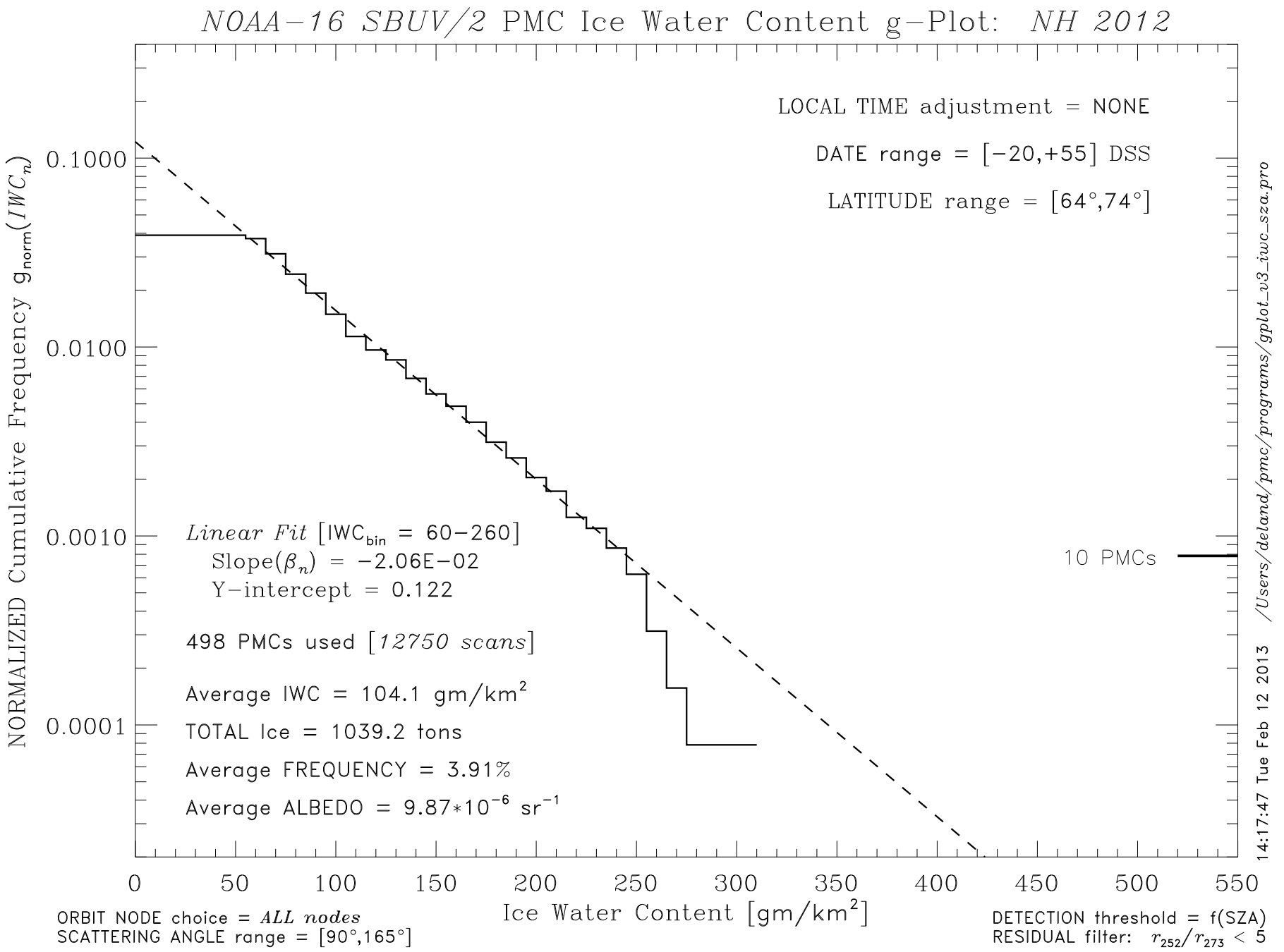
NOAA−16 SBUV/2 PMC Ice Water Content g−Plot: NH 2002
LOCAL TIME adjustment = NONE
DATE range = [−20,+55] DSS
LATITUDE range = [64°,74°]
10 PMCs
Linear Fit [IWC$_{bin}$ = 60−250]
Slope(β_n) = −2.20E−02
Y−intercept = 0.131
408 PMCs used [11404 scans]
Average IWC = 104.7 gm/km^2
TOTAL Ice = 988.5 tons
Average FREQUENCY = 3.58%
Average ALBEDO = 11.67*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: $r_{252}/r_{273} < 5$
14:17:08 Tue Feb 12 2013 /Users/deland/pmc/programs/gplot_v3_iwc_sza.pro


NOAA−16 SBUV/2 PMC Ice Water Content g−Plot: NH 2003
LOCAL TIME adjustment = NONE
DATE range = [−20,+55] DSS
LATITUDE range = [64°,74°]
NORMALIZED Cumulative Frequency $g_{norm}(IWC_n)$
0.1000
0.0100
0.0010
0.0001
Linear Fit [IWC_{bin} = 60−380]
Slope(β_n) = −1.70E−02
Y−intercept = 0.153
758 PMCs used [11859 scans]
Average IWC = 115.9 gm/km^2
TOTAL Ice = 1048.2 tons
Average FREQUENCY = 6.39%
Average ALBEDO = 12.64∗10^{-6} sr^{-1}
10 PMCs
0
50
100
150
200
250
300
350
400
450
500
550
Ice Water Content [gm/km^2]
14:17:09 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: $r_{252}/r_{273} < 5$

NOAA−16 SBUV/2 PMC Ice Water Content g−Plot: NH 2005
LOCAL TIME adjustment = NONE
DATE range = [−20,+55] DSS
LATITUDE range = [64°,74°]
10 PMCs
Linear Fit [IWC$_{bin}$ = 60−240]
Slope(β_n) = −2.79E−02
Y−intercept = 0.333
649 PMCs used [12654 scans]
Average IWC = 104.6 gm/km^2
TOTAL Ice = 1027.0 tons
Average FREQUENCY = 5.13%
Average ALBEDO = 11.09*10^{-6} sr^{-1}
NORMALIZED Cumulative Frequency g$_{norm}$(IWC$_n$)
0.1000
0.0100
0.0010
0.0001
0
50
100
150
200
250
300
350
400
450
500
550
Ice Water Content [gm/km^2]
ORBIT NODE choice = ALL nodes
SCATTERING ANGLE range = [90°,165°]
DETECTION threshold = f(SZA)
RESIDUAL filter: $r_{252}/r_{273} < 5$
14:17:21 Tue Feb 12 2013 /Users/deland/pmc/programs/gplot_v3_iwc_sza.pro

NOAA−16 SBUV/2 PMC Ice Water Content g−Plot: NH 2006
LOCAL TIME adjustment = NONE
DATE range = [−20,+55] DSS
LATITUDE range = [64°,74°]
Linear Fit [IWC_bin = 60−290]
Slope(β_n) = −2.23E−02
Y−intercept = 0.255
774 PMCs used [12719 scans]
Average IWC = 108.6 gm/km²
TOTAL Ice = 1054.0 tons
Average FREQUENCY = 6.09%
Average ALBEDO = 10.97*10⁻⁶ sr⁻¹
10 PMCs
NORMALIZED Cumulative Frequency g_norm(IWC_n)
0.1000
0.0100
0.0010
0.0001
0
50
100
150
200
250
300
350
400
450
500
550
Ice Water Content [gm/km²]
ORBIT NODE choice = ALL nodes
SCATTERING ANGLE range = [90°,165°]
DETECTION threshold = f(SZA)
RESIDUAL filter: r252/r273 < 5
14:17:22 Tue Feb 12 2013 /Users/deland/pmc/programs/gplot_v3_iwc_sza.pro


NOAA−16 SBUV/2 PMC Ice Water Content g−Plot: NH 2007
LOCAL TIME adjustment = NONE
DATE range = [−20,+55] DSS
LATITUDE range = [64°,74°]
NORMALIZED Cumulative Frequency $g_{norm}(IWC_n)$
0.1000
0.0100
0.0010
0.0001
Linear Fit [IWC_{bin} = 60−320]
Slope(β_n) = −1.99E−02
Y−intercept = 0.218
769 PMCs used [12547 scans]
Average IWC = 114.5 gm/km^2
TOTAL Ice = 1056.3 tons
Average FREQUENCY = 6.13%
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: $r_{252}/r_{273} < 5$
14:17:23 Tue Feb 12 2013 /Users/deland/pmc/programs/gplot_v3_iwc_sza.pro

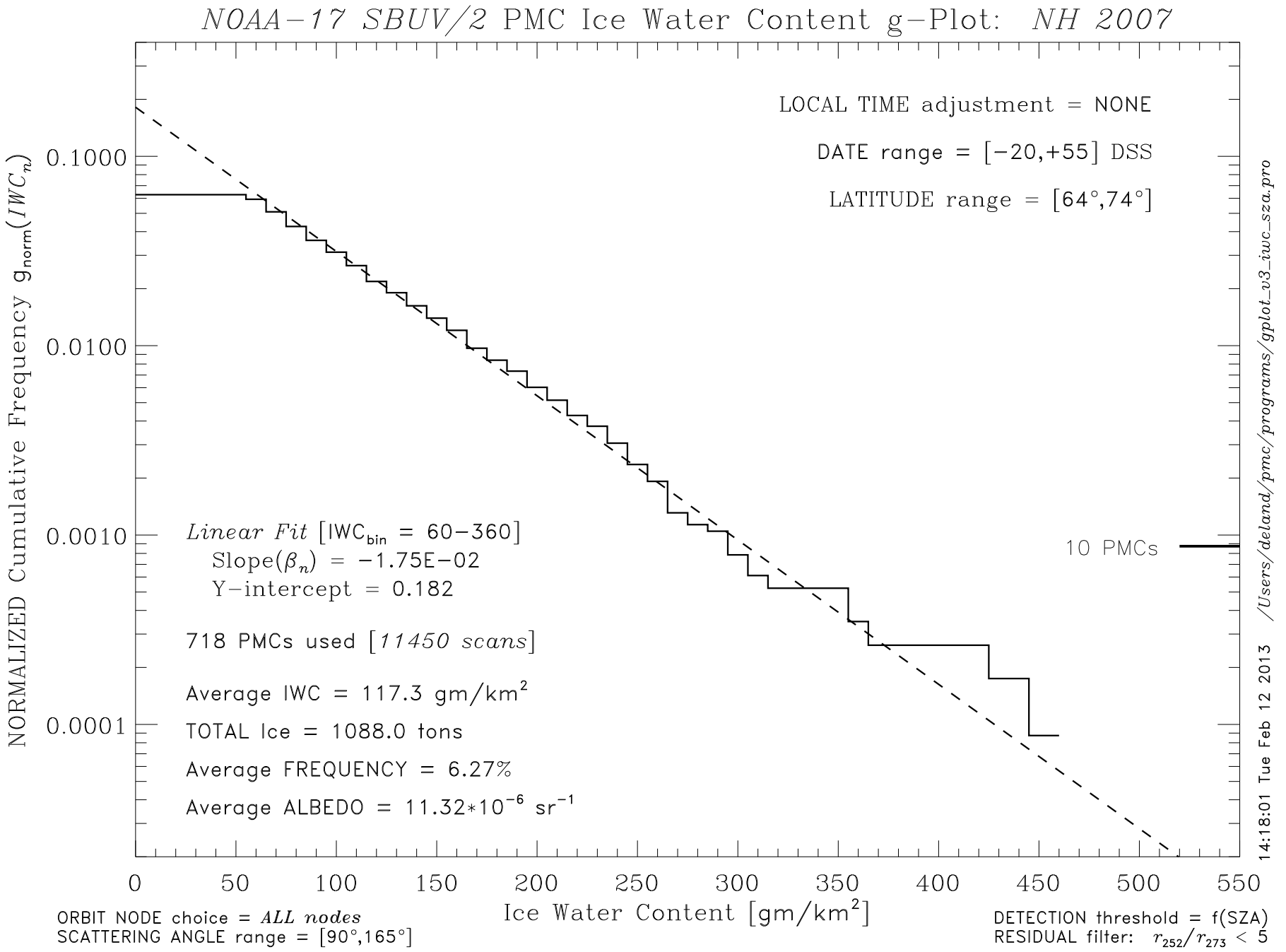

NOAA−16 SBUV/2 PMC Ice Water Content g−Plot: NH 2012
LOCAL TIME adjustment = NONE
DATE range = [−20,+55] DSS
LATITUDE range = [64°,74°]
NORMALIZED Cumulative Frequency $g_{norm}(IWC_n)$
0.1000
0.0100
0.0010
0.0001
Linear Fit [IWC_{bin} = 60−260]
Slope(β_n) = −2.06E−02
Y−intercept = 0.122
498 PMCs used [12750 scans]
Average IWC = 104.1 gm/km^2
TOTAL Ice = 1039.2 tons
Average FREQUENCY = 3.91%
Average ALBEDO = 9.87∗10^{-6} sr^{-1}
10 PMCs
0
50
100
150
200
250
300
350
400
450
500
550
Ice Water Content [gm/km^2]
14:17:47 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: $r_{252}/r_{273} < 5$

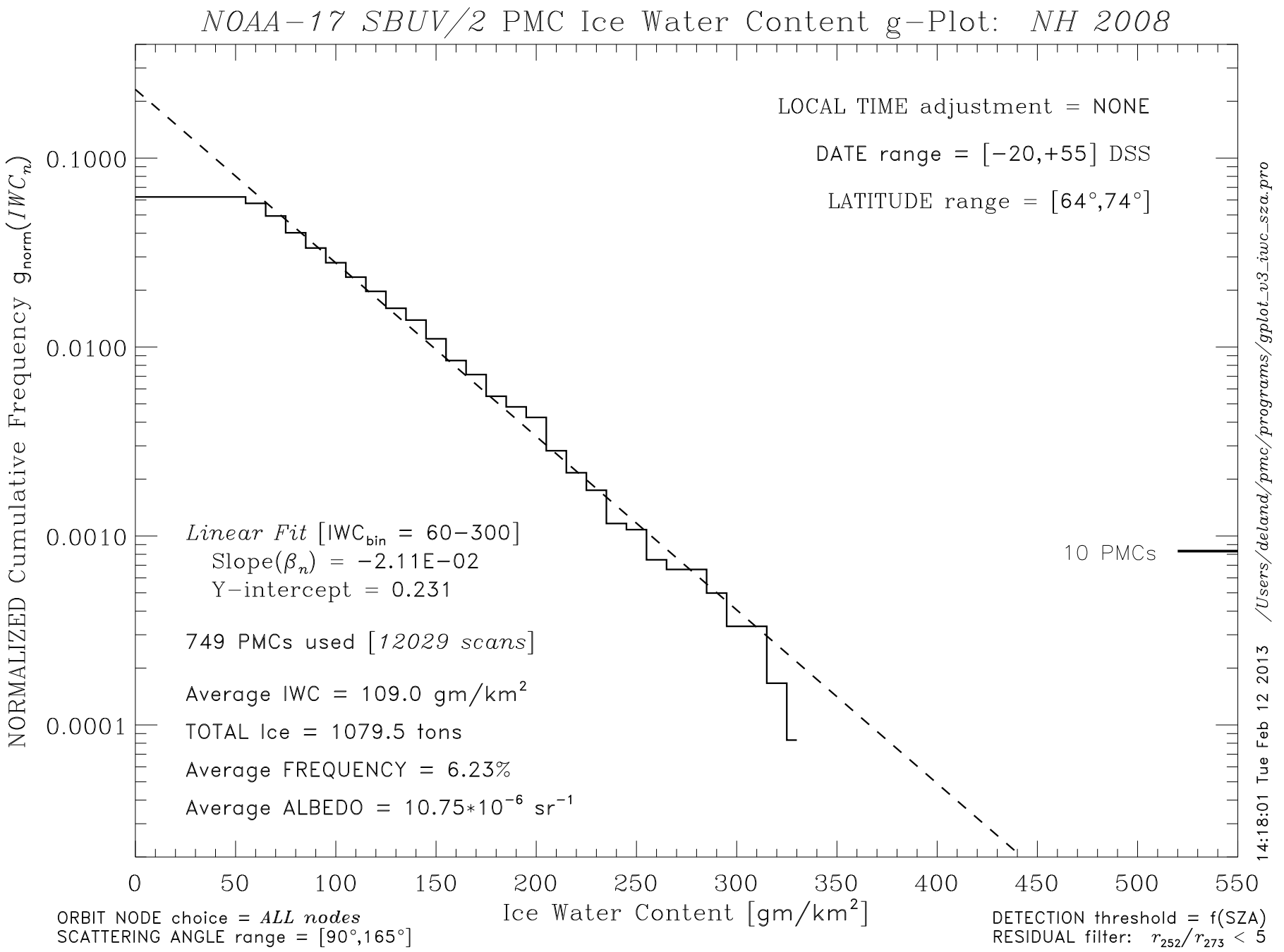
NOAA−17 SBUV/2 PMC Ice Water Content g−Plot: NH 2003
LOCAL TIME adjustment = NONE
DATE range = [−20,+55] DSS
LATITUDE range = [64°,74°]
10 PMCs
Linear Fit [IWC$_{bin}$ = 60−300]
Slope(β_n) = −1.99E−02
Y−intercept = 0.145
504 PMCs used [10229 scans]
Average IWC = 105.5 gm/km^2
TOTAL Ice = 1059.7 tons
Average FREQUENCY = 4.93%
Average ALBEDO = 10.12*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/km^2]
ORBIT NODE choice = ALL nodes
SCATTERING ANGLE range = [90°,165°]
DETECTION threshold = f(SZA)
RESIDUAL filter: $r_{252}/r_{273} < 5$
14:17:58 Tue Feb 12 2013 /Users/deland/pmc/programs/gplot_v3_iwc_sza.pro

NOAA−17 SBUV/2 PMC Ice Water Content g−Plot: NH 2004
LOCAL TIME adjustment = NONE
DATE range = [−20,+55] DSS
LATITUDE range = [64°,74°]
10 PMCs
Linear Fit [IWC_bin = 60−350]
Slope(β_n) = −1.81E−02
Y−intercept = 0.155
618 PMCs used [10088 scans]
Average IWC = 109.9 gm/km²
TOTAL Ice = 1079.0 tons
Average FREQUENCY = 6.13%
Average ALBEDO = 11.02*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
14:17:58 Tue Feb 12 2013 /Users/deland/pmc/programs/gplot_v3_iwc_sza.pro

NOAA−17 SBUV/2 PMC Ice Water Content g−Plot: NH 2005
LOCAL TIME adjustment = NONE
DATE range = [−20,+55] DSS
LATITUDE range = [64°,74°]
Linear Fit [IWC_bin = 60−280]
Slope(β_n) = −2.25E−02
Y−intercept = 0.222
664 PMCs used [10858 scans]
Average IWC = 102.9 gm/km²
TOTAL Ice = 1073.3 tons
Average FREQUENCY = 6.12%
Average ALBEDO = 10.41*10⁻⁶ sr⁻¹
10 PMCs
NORMALIZED Cumulative Frequency g_norm(IWC_n)
0.1000
0.0100
0.0010
0.0001
0
50
100
150
200
250
300
350
400
450
500
550
Ice Water Content [gm/km²]
ORBIT NODE choice = ALL nodes
SCATTERING ANGLE range = [90°,165°]
DETECTION threshold = f(SZA)
RESIDUAL filter: r252/r273 < 5
14:17:59 Tue Feb 12 2013 /Users/deland/pmc/programs/gplot_v3_iwc_sza.pro

NOAA−17 SBUV/2 PMC Ice Water Content g−Plot: NH 2006
LOCAL TIME adjustment = NONE
DATE range = [−20,+55] DSS
LATITUDE range = [64°,74°]
10 PMCs
Linear Fit [IWC$_{bin}$ = 60−310]
Slope(β_n) = −1.93E−02
Y−intercept = 0.204
733 PMCs used [11354 scans]
Average IWC = 111.1 gm/km^2
TOTAL Ice = 1086.6 tons
Average FREQUENCY = 6.46%
Average ALBEDO = 11.17*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: $r_{252}/r_{273} < 5$
14:18:00 Tue Feb 12 2013 /Users/deland/pmc/programs/gplot_v3_iwc_sza.pro


NOAA−17 SBUV/2 PMC Ice Water Content g−Plot: NH 2007
LOCAL TIME adjustment = NONE
DATE range = [−20,+55] DSS
LATITUDE range = [64°,74°]
NORMALIZED Cumulative Frequency $g_{norm}(IWC_n)$
0.1000
0.0100
0.0010
0.0001
Linear Fit [IWC$_{bin}$ = 60−360]
Slope(β_n) = −1.75E−02
Y−intercept = 0.182
718 PMCs used [11450 scans]
Average IWC = 117.3 gm/km^2
TOTAL Ice = 1088.0 tons
Average FREQUENCY = 6.27%
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: $r_{252}/r_{273} < 5$
14:18:01 Tue Feb 12 2013 /Users/deland/pmc/programs/gplot_v3_iwc_sza.pro


NOAA−17 SBUV/2 PMC Ice Water Content g−Plot: NH 2008
LOCAL TIME adjustment = NONE
DATE range = [−20,+55] DSS
LATITUDE range = [64°,74°]
NORMALIZED Cumulative Frequency $g_{norm}(IWC_n)$
0.1000
0.0100
0.0010
0.0001
Linear Fit [IWC_{bin} = 60−300]
Slope(β_n) = −2.11E−02
Y−intercept = 0.231
749 PMCs used [12029 scans]
Average IWC = 109.0 gm/km^2
TOTAL Ice = 1079.5 tons
Average FREQUENCY = 6.23%
Average ALBEDO = 10.75∗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: $r_{252}/r_{273} < 5$
14:18:01 Tue Feb 12 2013 /Users/deland/pmc/programs/gplot_v3_iwc_sza.pro

NOAA−17 SBUV/2 PMC Ice Water Content g−Plot: NH 2009
LOCAL TIME adjustment = NONE
DATE range = [−20,+55] DSS
LATITUDE range = [64°,74°]
10 PMCs
Linear Fit [IWC$_{bin}$ = 60−360]
Slope(β_n) = −1.67E−02
Y−intercept = 0.127
701 PMCs used [11888 scans]
Average IWC = 111.0 gm/km^2
TOTAL Ice = 1073.2 tons
Average FREQUENCY = 5.90%
Average ALBEDO = 10.81*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: $r_{252}/r_{273} < 5$
14:18:02 Tue Feb 12 2013 /Users/deland/pmc/programs/gplot_v3_iwc_sza.pro

NOAA−17 SBUV/2 PMC Ice Water Content g−Plot: NH 2010
LOCAL TIME adjustment = NONE
DATE range = [−20,+55] DSS
LATITUDE range = [64°,74°]
Linear Fit [IWC$_{bin}$ = 60−330]
Slope(β_n) = −1.90E−02
Y−intercept = 0.131
649 PMCs used [11856 scans]
Average IWC = 103.6 gm/km^2
TOTAL Ice = 1064.1 tons
Average FREQUENCY = 5.47%
Average ALBEDO = 9.81*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: $r_{252}/r_{273} < 5$
14:18:03 Tue Feb 12 2013 /Users/deland/pmc/programs/gplot_v3_iwc_sza.pro

NOAA−17 SBUV/2 PMC Ice Water Content g−Plot: NH 2011
LOCAL TIME adjustment = NONE
DATE range = [−20,+55] DSS
LATITUDE range = [64°,74°]
10 PMCs
Linear Fit [IWC$_{bin}$ = 60−340]
Slope(β_n) = −1.79E−02
Y−intercept = 0.165
731 PMCs used [11786 scans]
Average IWC = 112.6 gm/km^2
TOTAL Ice = 1077.1 tons
Average FREQUENCY = 6.20%
Average ALBEDO = 10.55*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: $r_{252}/r_{273} < 5$
14:18:04 Tue Feb 12 2013 /Users/deland/pmc/programs/gplot_v3_iwc_sza.pro

NOAA−18 SBUV/2 PMC Ice Water Content g−Plot: NH 2005
LOCAL TIME adjustment = NONE
DATE range = [−20,+55] DSS
LATITUDE range = [64°,74°]
10 PMCs
Linear Fit [IWC$_{bin}$ = 60−270]
Slope(β_n) = −2.51E−02
Y−intercept = 0.345
751 PMCs used [10685 scans]
Average IWC = 104.9 gm/km^2
TOTAL Ice = 1058.2 tons
Average FREQUENCY = 7.03%
Average ALBEDO = 11.49*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: $r_{252}/r_{273} < 5$
14:18:18 Tue Feb 12 2013 /Users/deland/pmc/programs/gplot_v3_iwc_sza.pro

NOAA−18 SBUV/2 PMC Ice Water Content g−Plot: NH 2006
LOCAL TIME adjustment = NONE
DATE range = [−20,+55] DSS
LATITUDE range = [64°,74°]
Linear Fit [IWC$_{bin}$ = 60−330]
Slope(β_n) = −2.06E−02
Y−intercept = 0.286
951 PMCs used [11657 scans]
Average IWC = 111.2 gm/km^2
TOTAL Ice = 1083.0 tons
Average FREQUENCY = 8.16%
Average ALBEDO = 12.21*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: $r_{252}/r_{273} < 5$
14:18:18 Tue Feb 12 2013 /Users/deland/pmc/programs/gplot_v3_iwc_sza.pro

NOAA−18 SBUV/2 PMC Ice Water Content g−Plot: NH 2007
LOCAL TIME adjustment = NONE
DATE range = [−20,+55] DSS
LATITUDE range = [64°,74°]
10 PMCs
Linear Fit [IWC$_{bin}$ = 60−340]
Slope(β_n) = −1.95E−02
Y−intercept = 0.301
981 PMCs used [11577 scans]
Average IWC = 117.2 gm/km^2
TOTAL Ice = 1095.5 tons
Average FREQUENCY = 8.47%
Average ALBEDO = 12.86*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: $r_{252}/r_{273} < 5$
14:18:19 Tue Feb 12 2013 /Users/deland/pmc/programs/gplot_v3_iwc_sza.pro

NOAA−18 SBUV/2 PMC Ice Water Content g−Plot: NH 2009
LOCAL TIME adjustment = NONE
DATE range = [−20,+55] DSS
LATITUDE range = [64°,74°]
10 PMCs
Linear Fit [IWC$_{bin}$ = 60−330]
Slope(β_n) = −2.00E−02
Y−intercept = 0.302
980 PMCs used [11778 scans]
Average IWC = 115.0 gm/km^2
TOTAL Ice = 1089.6 tons
Average FREQUENCY = 8.32%
Average ALBEDO = 12.47*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: $r_{252}/r_{273} < 5$
14:18:30 Tue Feb 12 2013 /Users/deland/pmc/programs/gplot_v3_iwc_sza.pro

NOAA−18 SBUV/2 PMC Ice Water Content g−Plot: NH 2010
LOCAL TIME adjustment = NONE
DATE range = [−20,+55] DSS
LATITUDE range = [64°,74°]
Linear Fit [IWC_bin = 60−270]
Slope(β_n) = −2.58E−02
Y−intercept = 0.353
754 PMCs used [11758 scans]
Average IWC = 106.3 gm/km²
TOTAL Ice = 1047.4 tons
Average FREQUENCY = 6.41%
Average ALBEDO = 11.57*10⁻⁶ sr⁻¹
10 PMCs
NORMALIZED Cumulative Frequency g_norm(IWC_n)
0.1000
0.0100
0.0010
0.0001
0
50
100
150
200
250
300
350
400
450
500
550
Ice Water Content [gm/km²]
ORBIT NODE choice = ALL nodes
SCATTERING ANGLE range = [90°,165°]
DETECTION threshold = f(SZA)
RESIDUAL filter: r252/r273 < 5
14:18:30 Tue Feb 12 2013 /Users/deland/pmc/programs/gplot_v3_iwc_sza.pro

NOAA−18 SBUV/2 PMC Ice Water Content g−Plot: NH 2011
LOCAL TIME adjustment = NONE
DATE range = [−20,+55] DSS
LATITUDE range = [64°,74°]
Linear Fit [IWC$_{bin}$ = 60−280]
Slope(β_n) = −2.38E−02
Y−intercept = 0.363
978 PMCs used [12296 scans]
Average IWC = 107.0 gm/km^2
TOTAL Ice = 1072.7 tons
Average FREQUENCY = 7.95%
Average ALBEDO = 11.56*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
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: $r_{252}/r_{273} < 5$
14:18:31 Tue Feb 12 2013 /Users/deland/pmc/programs/gplot_v3_iwc_sza.pro

NOAA−18 SBUV/2 PMC Ice Water Content g−Plot: NH 2012
LOCAL TIME adjustment = NONE
DATE range = [−20,+55] DSS
LATITUDE range = [64°,74°]
Linear Fit [IWC$_{bin}$ = 60−310]
Slope(β_n) = −2.19E−02
Y−intercept = 0.212
734 PMCs used [12588 scans]
Average IWC = 106.7 gm/km^2
TOTAL Ice = 1034.7 tons
Average FREQUENCY = 5.83%
Average ALBEDO = 11.41*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: $r_{252}/r_{273} < 5$
14:18:32 Tue Feb 12 2013 /Users/deland/pmc/programs/gplot_v3_iwc_sza.pro

NOAA−19 SBUV/2 PMC Ice Water Content g−Plot: NH 2009
LOCAL TIME adjustment = NONE
DATE range = [−20,+55] DSS
LATITUDE range = [64°,74°]
10 PMCs
Linear Fit [IWC$_{bin}$ = 60−360]
Slope(β_n) = −1.83E−02
Y−intercept = 0.245
919 PMCs used [11764 scans]
Average IWC = 117.6 gm/km^2
TOTAL Ice = 1091.6 tons
Average FREQUENCY = 7.81%
Average ALBEDO = 12.66*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: $r_{252}/r_{273} < 5$
14:18:55 Tue Feb 12 2013 /Users/deland/pmc/programs/gplot_v3_iwc_sza.pro

NOAA−19 SBUV/2 PMC Ice Water Content g−Plot: NH 2010
LOCAL TIME adjustment = NONE
DATE range = [−20,+55] DSS
LATITUDE range = [64°,74°]
Linear Fit [IWC_bin = 60−260]
Slope(β_n) = −2.24E−02
Y−intercept = 0.240
670 PMCs used [11654 scans]
Average IWC = 109.2 gm/km²
TOTAL Ice = 1043.1 tons
Average FREQUENCY = 5.75%
Average ALBEDO = 11.88*10⁻⁶ sr⁻¹
10 PMCs
NORMALIZED Cumulative Frequency g_norm(IWC_n)
0.1000
0.0100
0.0010
0.0001
0
50
100
150
200
250
300
350
400
450
500
550
Ice Water Content [gm/km²]
ORBIT NODE choice = ALL nodes
SCATTERING ANGLE range = [90°,165°]
DETECTION threshold = f(SZA)
RESIDUAL filter: r252/r273 < 5
14:18:56 Tue Feb 12 2013 /Users/deland/pmc/programs/gplot_v3_iwc_sza.pro

NOAA−19 SBUV/2 PMC Ice Water Content g−Plot: NH 2011
LOCAL TIME adjustment = NONE
DATE range = [−20,+55] DSS
LATITUDE range = [64°,74°]
Linear Fit [IWC$_{bin}$ = 60−320]
Slope(β_n) = −1.97E−02
Y−intercept = 0.257
904 PMCs used [11582 scans]
Average IWC = 112.0 gm/km^2
TOTAL Ice = 1086.8 tons
Average FREQUENCY = 7.81%
Average ALBEDO = 12.06*10^{-6} sr^{-1}
10 PMCs
NORMALIZED Cumulative Frequency g$_{norm}$(IWC$_n$)
0.1000
0.0100
0.0010
0.0001
0
50
100
150
200
250
300
350
400
450
500
550
Ice Water Content [gm/km^2]
ORBIT NODE choice = ALL nodes
SCATTERING ANGLE range = [90°,165°]
DETECTION threshold = f(SZA)
RESIDUAL filter: $r_{252}/r_{273} < 5$
14:18:57 Tue Feb 12 2013 /Users/deland/pmc/programs/gplot_v3_iwc_sza.pro

NOAA−19 SBUV/2 PMC Ice Water Content g−Plot: NH 2012
LOCAL TIME adjustment = NONE
DATE range = [−20,+55] DSS
LATITUDE range = [64°,74°]
Linear Fit [IWC$_{bin}$ = 60−310]
Slope(β_n) = −2.01E−02
Y−intercept = 0.212
738 PMCs used [11380 scans]
Average IWC = 109.9 gm/km^2
TOTAL Ice = 1052.3 tons
Average FREQUENCY = 6.49%
Average ALBEDO = 12.08*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: $r_{252}/r_{273} < 5$
14:18:57 Tue Feb 12 2013 /Users/deland/pmc/programs/gplot_v3_iwc_sza.pro