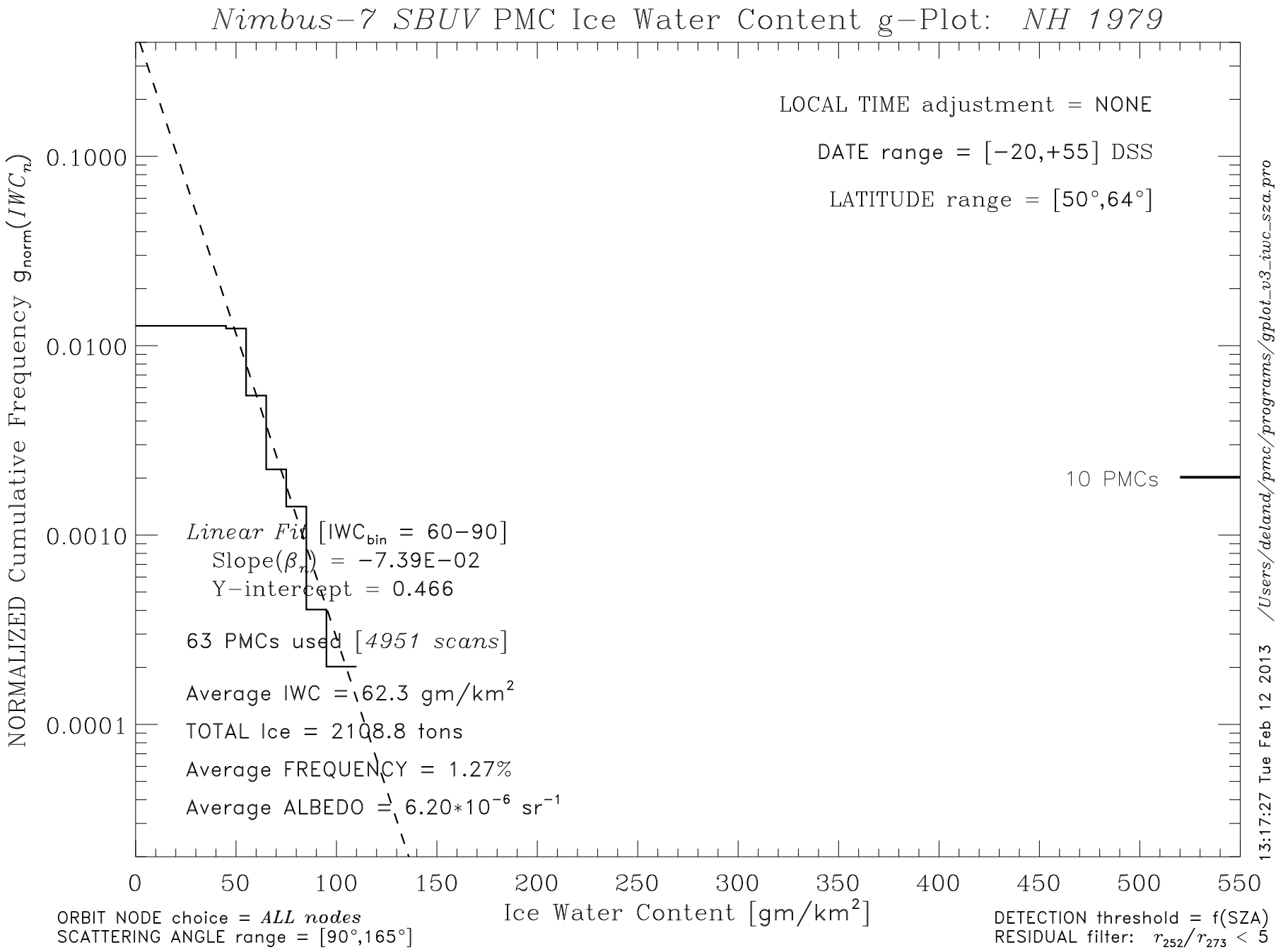
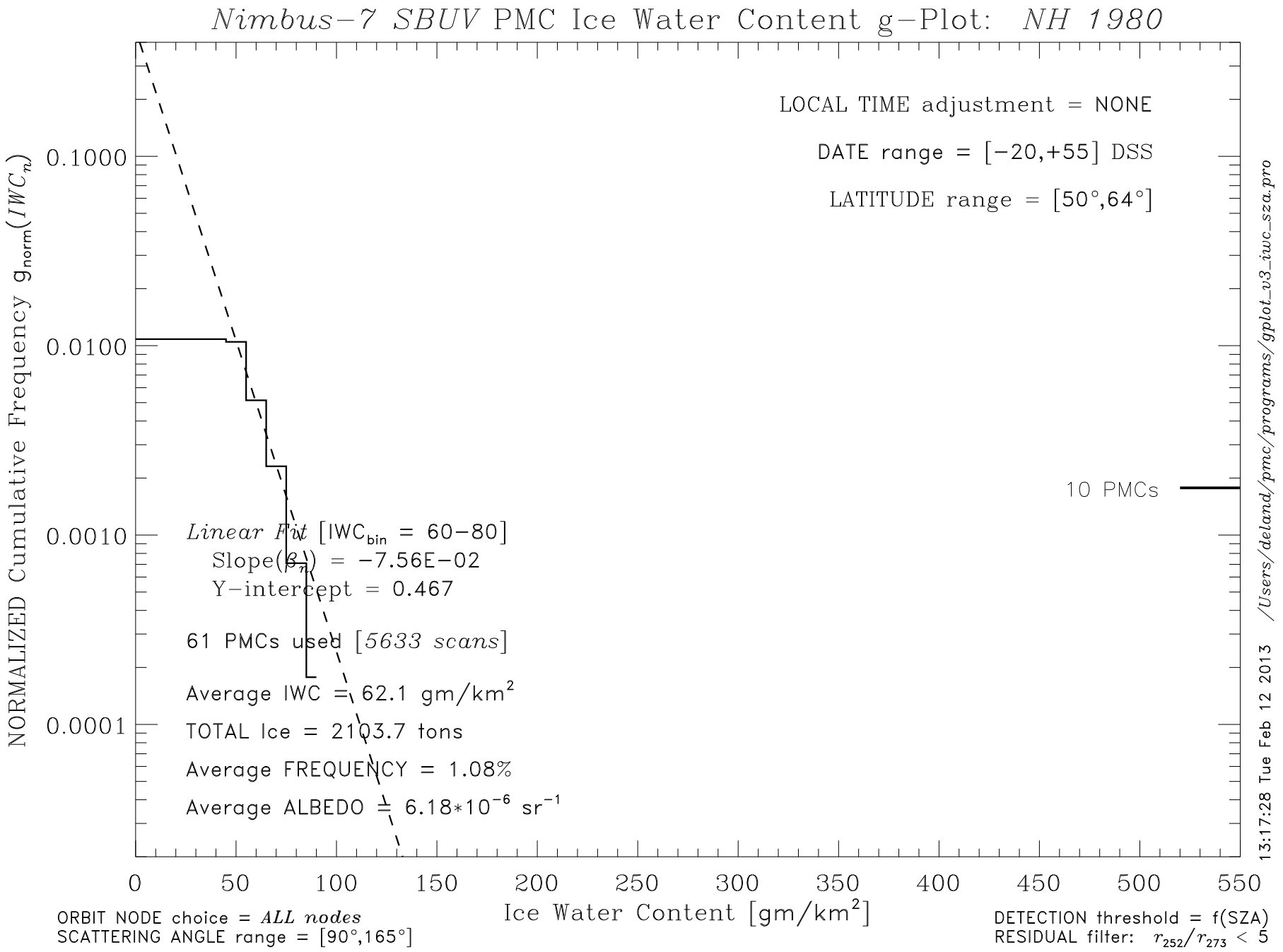
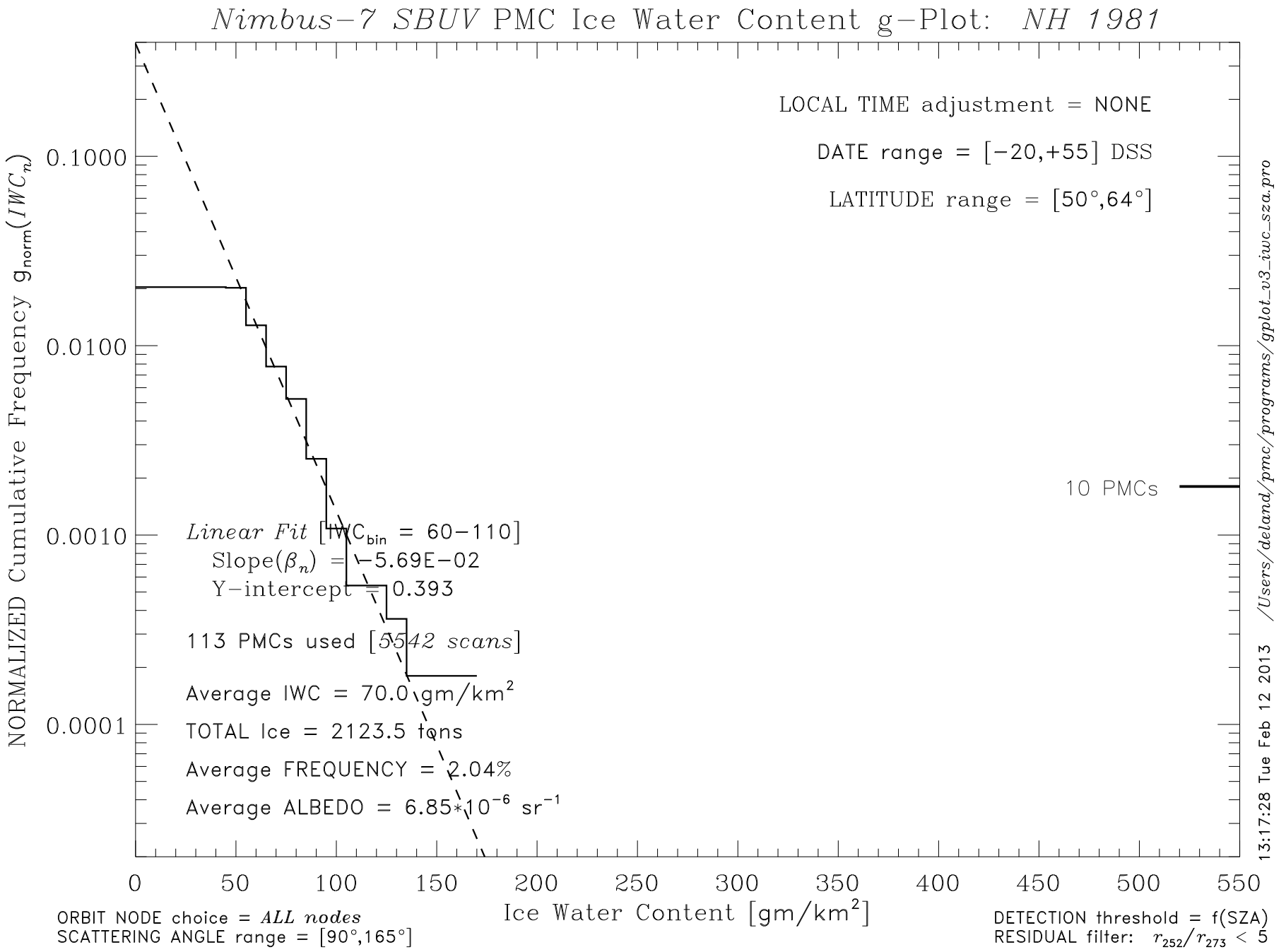
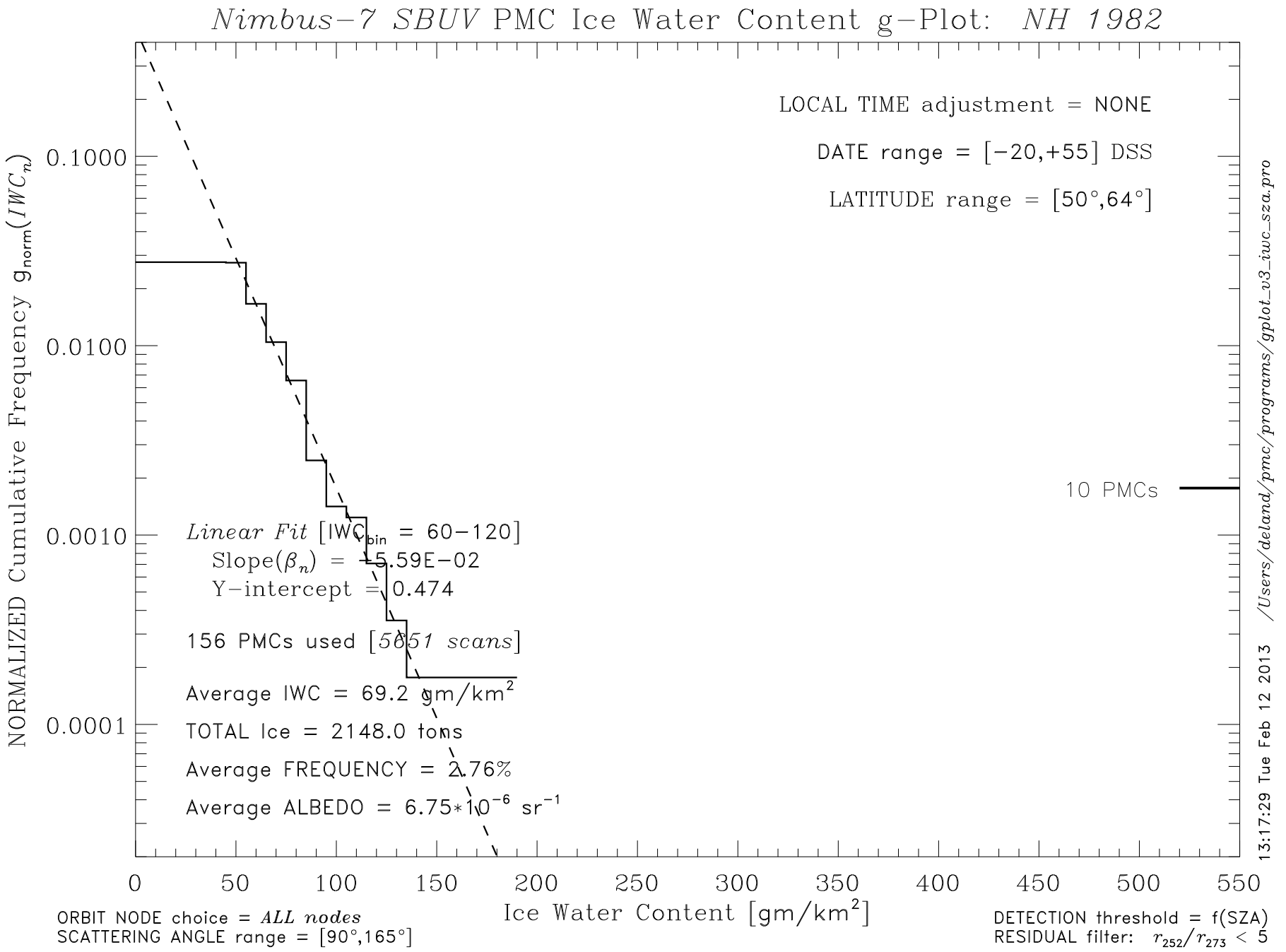
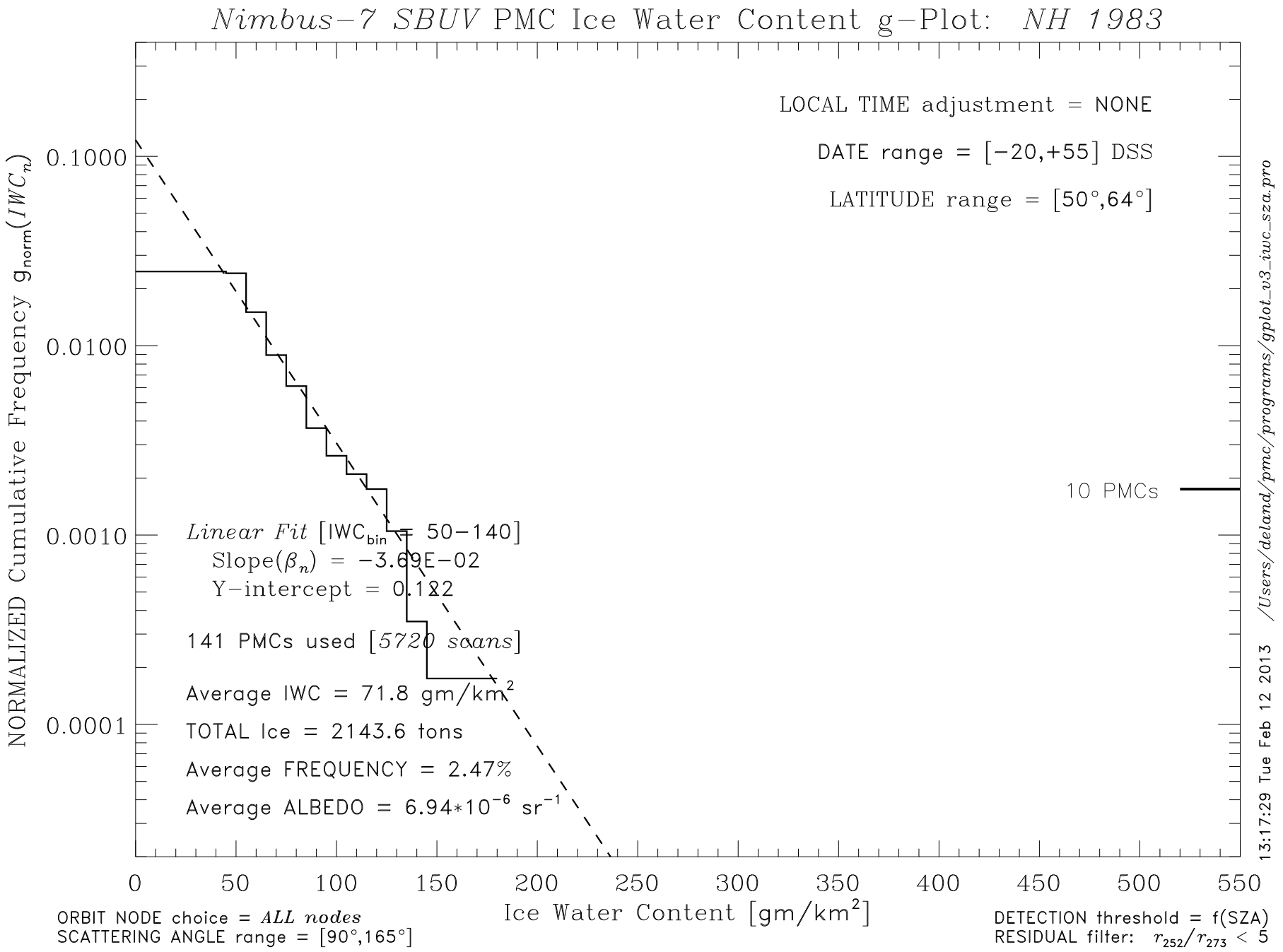
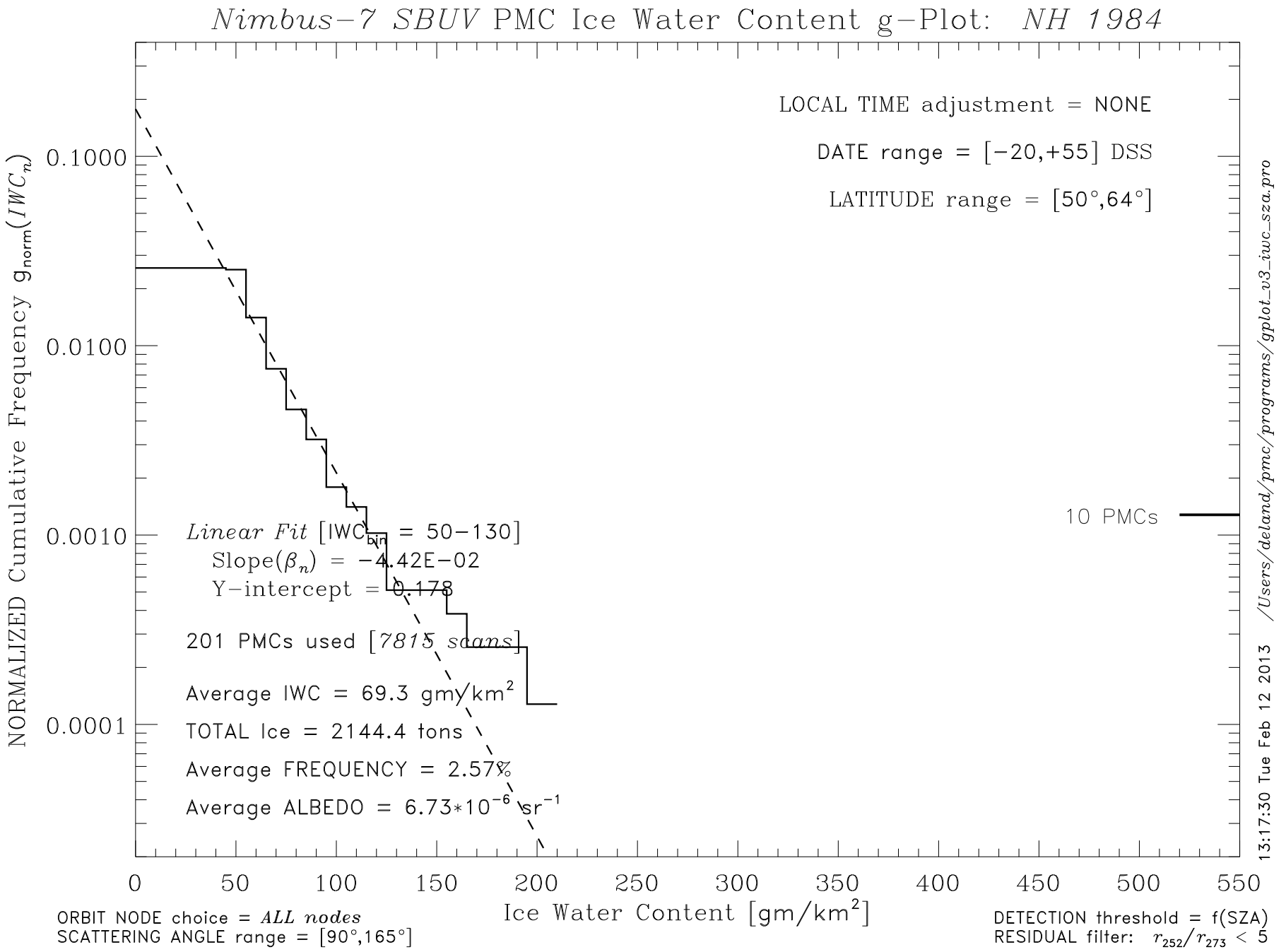

Nimbus−7 SBUV PMC Ice Water Content g−Plot: NH 1979
LOCAL TIME adjustment = NONE
DATE range = [−20,+55] DSS
LATITUDE range = [50°,64°]
10 PMCs
Linear Fit [IWC_bin = 60−90]
Slope(β_n) = −7.39E−02
Y−intercept = 0.466
63 PMCs used [4951 scans]
Average IWC = 62.3 gm/km²
TOTAL Ice = 2108.8 tons
Average FREQUENCY = 1.27%
Average ALBEDO = 6.20∗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
13:17:27 Tue Feb 12 2013 /Users/deland/pmc/programs/gplot_v3_iwc_sza.pro

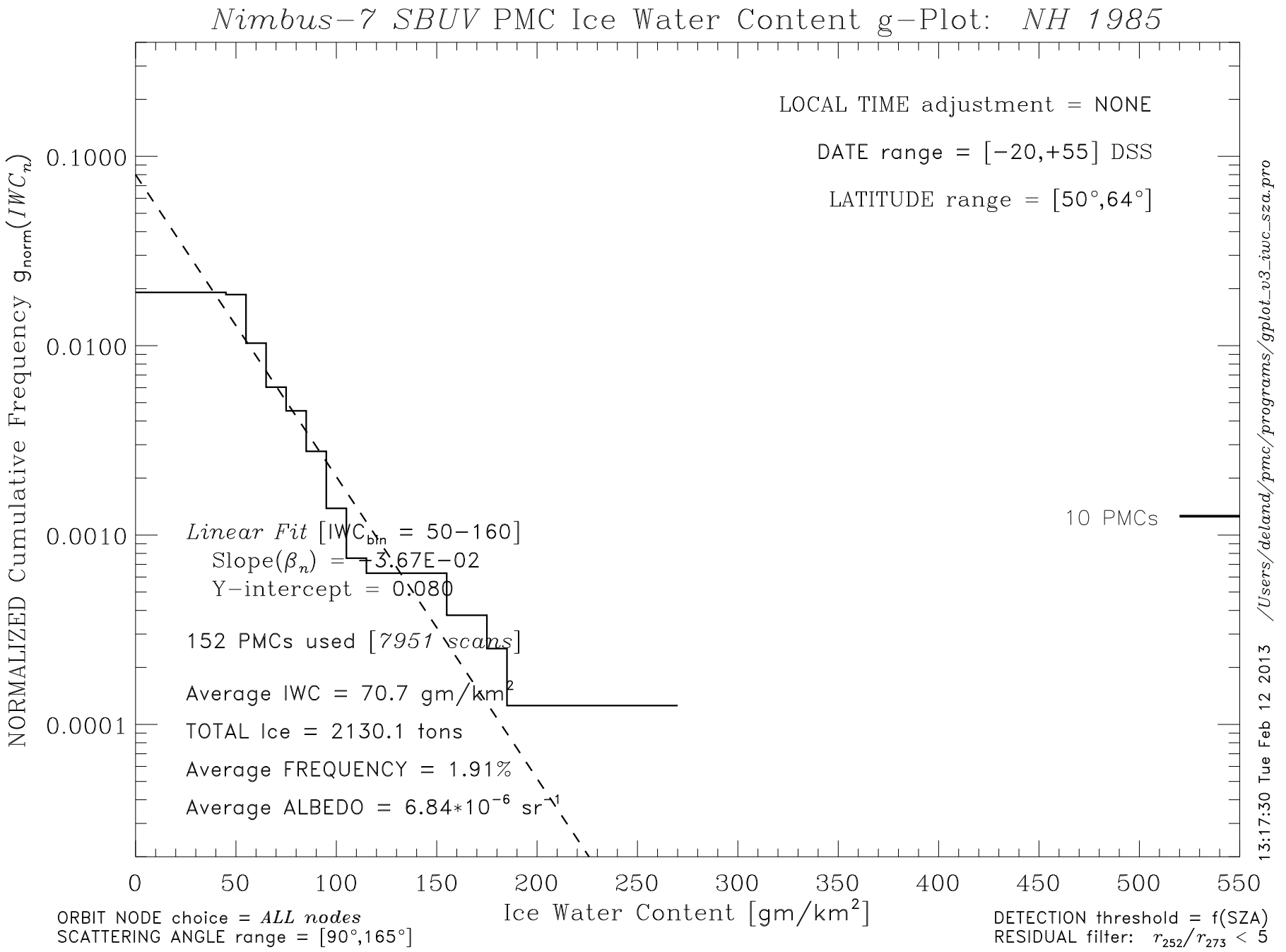

Nimbus−7 SBUV PMC Ice Water Content g−Plot: NH 1980
LOCAL TIME adjustment = NONE
DATE range = [−20,+55] DSS
LATITUDE range = [50°,64°]
10 PMCs
Linear Fit [IWC_bin = 60−80]
Slope(β1) = −7.56E−02
Y−intercept = 0.467
61 PMCs used [5633 scans]
Average IWC = 62.1 gm/km²
TOTAL Ice = 2103.7 tons
Average FREQUENCY = 1.08%
Average ALBEDO = 6.18*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
13:17:28 Tue Feb 12 2013 /Users/deland/pmc/programs/gplot_v3_iwc_sza.pro

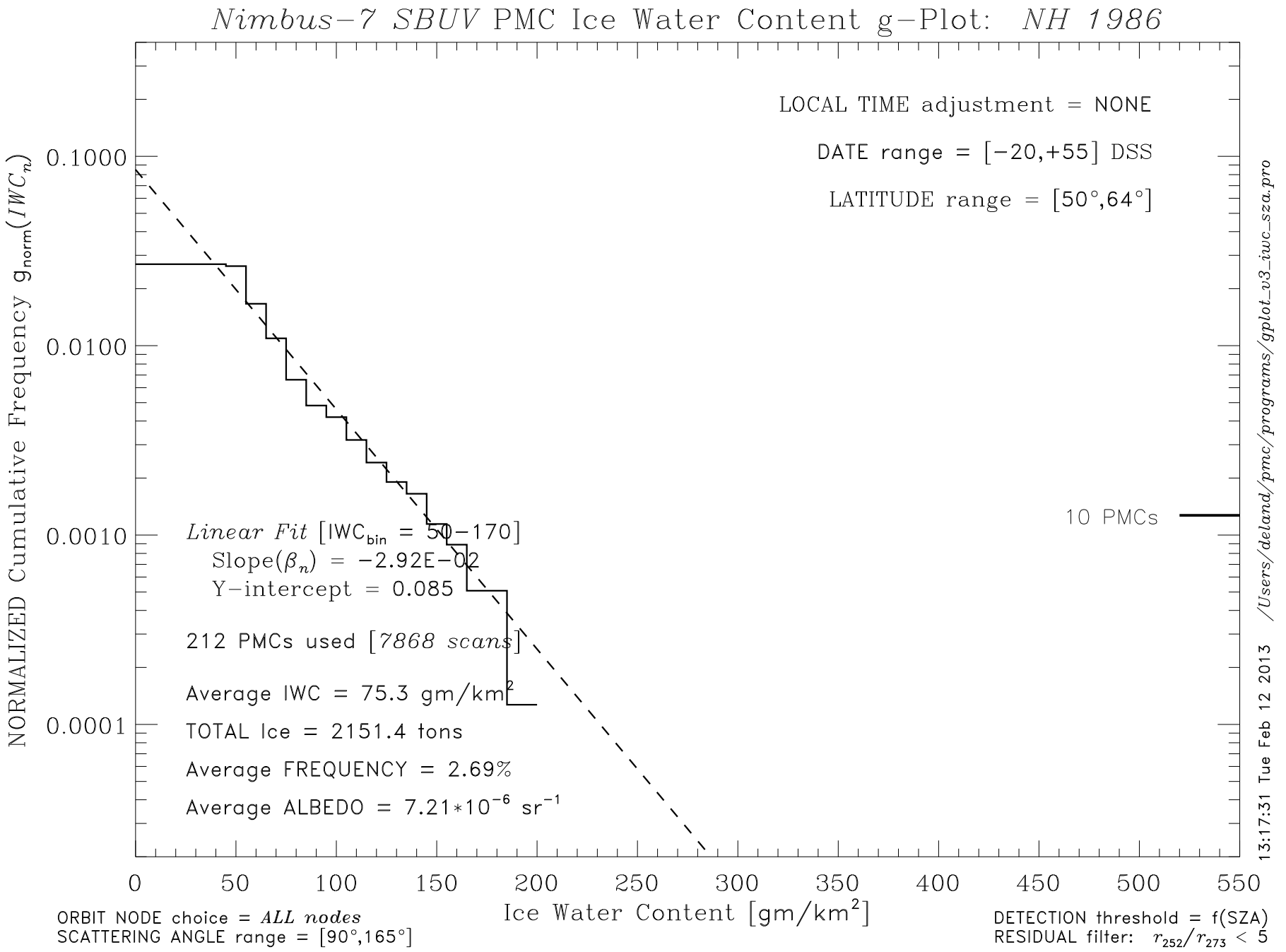

Nimbus-7 SBUV PMC Ice Water Content g-Plot: NH 1981
LOCAL TIME adjustment = NONE
DATE range = [-20,+55] DSS
LATITUDE range = [50°,64°]
10 PMCs
Linear Fit [IWC_bin = 60-110]
Slope(β_n) = -5.69E-02
Y-intercept = 0.393
113 PMCs used [5542 scans]
Average IWC = 70.0 gm/km²
TOTAL Ice = 2123.5 tons
Average FREQUENCY = 2.04%
Average ALBEDO = 6.85*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]
ORBIT NODE choice = ALL nodes
SCATTERING ANGLE range = [90°,165°]
DETECTION threshold = f(SZA)
RESIDUAL filter: r_252/r_273 < 5
13:17:28 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 = [50°,64°]
10 PMCs
Linear Fit [IWC_bin = 60−120]
Slope(β_n) = −5.59E−02
Y−intercept = 0.474
156 PMCs used [5851 scans]
Average IWC = 69.2 gm/km²
TOTAL Ice = 2148.0 tons
Average FREQUENCY = 2.76%
Average ALBEDO = 6.75*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
13:17:29 Tue Feb 12 2013 /Users/deland/pmc/programs/gplot_v3_iwc_sza.pro


Nimbus−7 SBUV PMC Ice Water Content g−Plot: NH 1983
LOCAL TIME adjustment = NONE
DATE range = [−20,+55] DSS
LATITUDE range = [50°,64°]
10 PMCs
Linear Fit [IWC_bin = 50−140]
Slope(β_n) = −3.69E−02
Y−intercept = 0.182
141 PMCs used [5720 scans]
Average IWC = 71.8 gm/km^2
TOTAL Ice = 2143.6 tons
Average FREQUENCY = 2.47%
Average ALBEDO = 6.94*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
13:17:29 Tue Feb 12 2013 /Users/deland/pmc/programs/gplot_v3_iwc_sza.pro

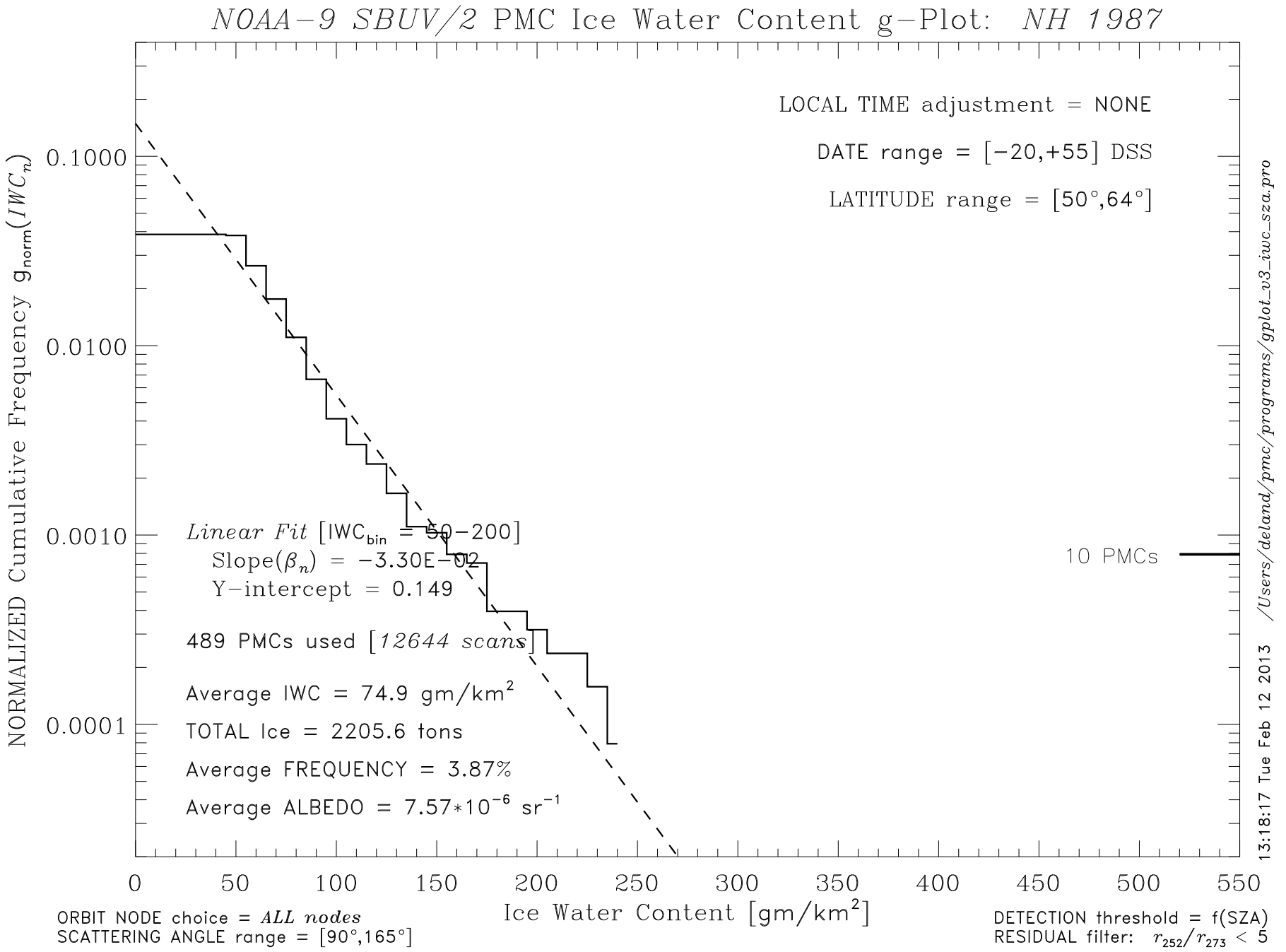

Nimbus−7 SBUV PMC Ice Water Content g−Plot: NH 1984
LOCAL TIME adjustment = NONE
DATE range = [−20,+55] DSS
LATITUDE range = [50°,64°]
NORMALIZED Cumulative Frequency $g_{norm}(IWC_n)$
0.1000
0.0100
0.0010
0.0001
Linear Fit [IWC_{bin} = 50−130]
Slope(β_n) = −4.42E−02
Y−intercept = 0.178
201 PMCs used [7815 scans]
Average IWC = 69.3 gm/km^2
TOTAL Ice = 2144.4 tons
Average FREQUENCY = 2.57%
Average ALBEDO = 6.73∗10^{-6} sr^{-1}
10 PMCs
0
50
100
150
200
250
300
350
400
450
500
550
Ice Water Content [gm/km^2]
13:17:30 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: $r_{252}/r_{273} < 5$


Nimbus−7 SBUV PMC Ice Water Content g−Plot: NH 1985
LOCAL TIME adjustment = NONE
DATE range = [−20,+55] DSS
LATITUDE range = [50°,64°]
NORMALIZED Cumulative Frequency $g_{norm}(IWC_n)$
0.1000
0.0100
0.0010
0.0001
Linear Fit [IWC_{bin} = 50−160]
Slope(β_n) = −3.67E−02
Y−intercept = 0.080
152 PMCs used [7951 scans]
Average IWC = 70.7 gm/km^2
TOTAL Ice = 2130.1 tons
Average FREQUENCY = 1.91%
Average ALBEDO = 6.84∗10^{-6} sr^{-1}
10 PMCs
0
50
100
150
200
250
300
350
400
450
500
550
Ice Water Content [gm/km^2]
13:17:30 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: $r_{252}/r_{273} < 5$

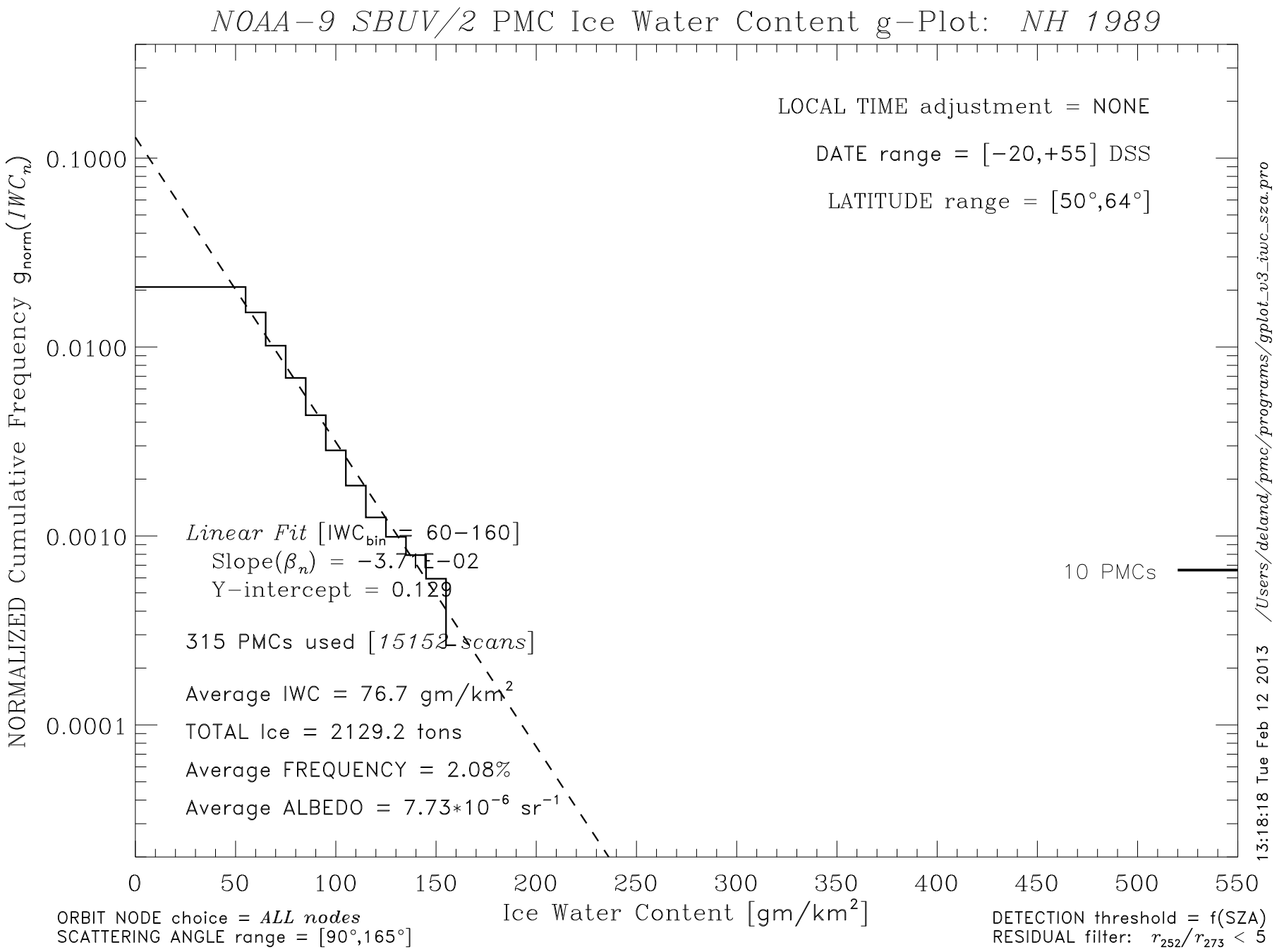

Nimbus−7 SBUV PMC Ice Water Content g−Plot: NH 1986
LOCAL TIME adjustment = NONE
DATE range = [−20,+55] DSS
LATITUDE range = [50°,64°]
10 PMCs
Linear Fit [IWC_bin = 50−170]
Slope(β_n) = −2.92E−02
Y−intercept = 0.085
212 PMCs used [7868 scans]
Average IWC = 75.3 gm/km²
TOTAL Ice = 2151.4 tons
Average FREQUENCY = 2.69%
Average ALBEDO = 7.21∗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
13:17:31 Tue Feb 12 2013 /Users/deland/pmc/programs/gplot_v3_iwc_sza.pro

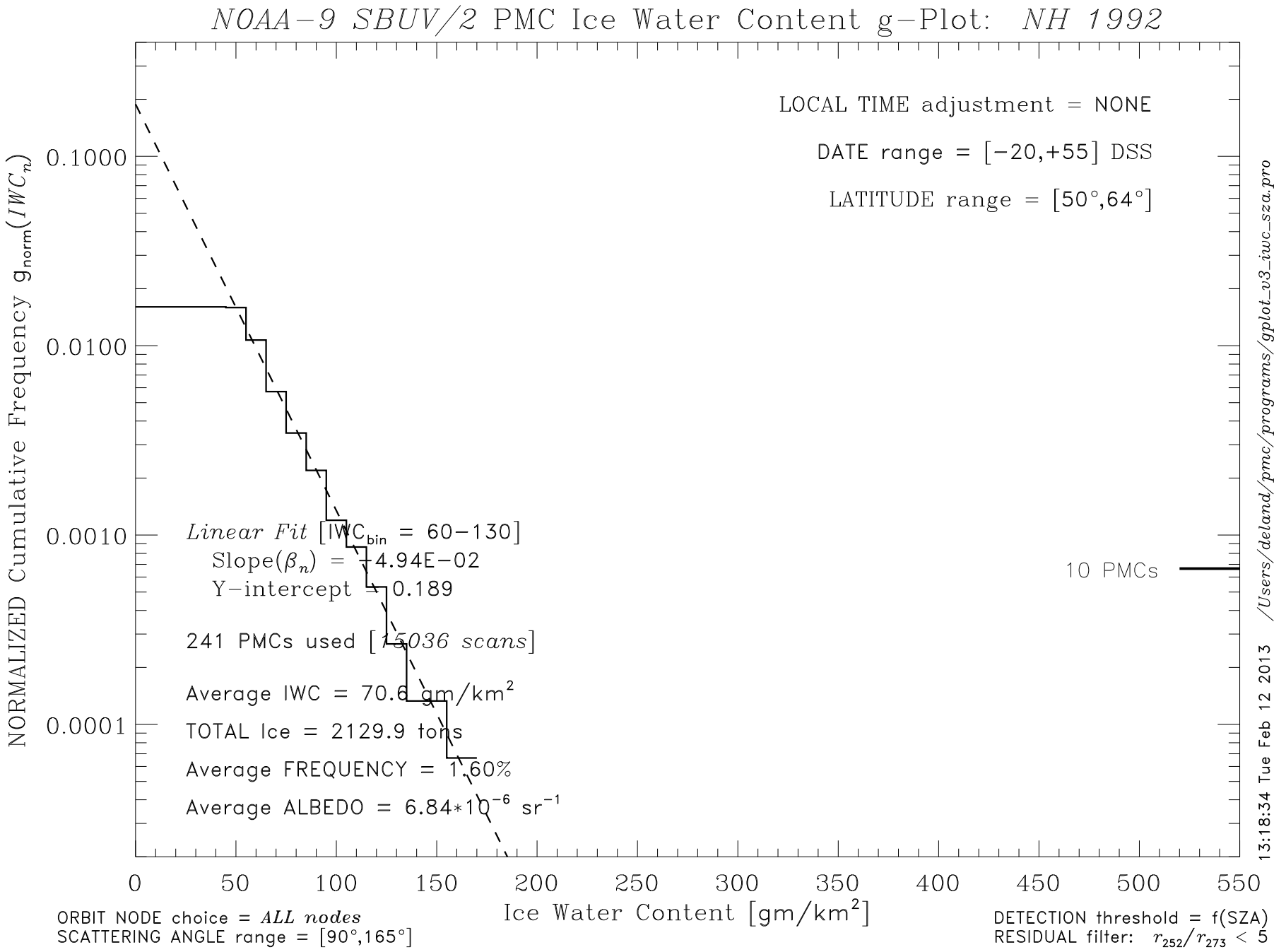
NOAA−9 SBUV/2 PMC Ice Water Content g−Plot: NH 1985
LOCAL TIME adjustment = NONE
DATE range = [−20,+55] DSS
LATITUDE range = [50°,64°]
10 PMCs
Linear Fit [IWC$_{bin}$ = 50−150]
Slope(β_n) = −4.07E−02
Y−intercept = 0.1184
244 PMCs used [8432 scans]
Average IWC = 72.4 gm/km^2
TOTAL Ice = 2167.9 tons
Average FREQUENCY = 2.89%
Average ALBEDO = 7.55*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: $r_{252}/r_{273} < 5$
13:18:15 Tue Feb 12 2013 /Users/deland/pmc/programs/gplot_v3_iwc_sza.pro

NOAA−9 SBUV/2 PMC Ice Water Content g−Plot: NH 1986
LOCAL TIME adjustment = NONE
DATE range = [−20,+55] DSS
LATITUDE range = [50°,64°]
10 PMCs
Linear Fit [IWC$_{bin}$ = 50−190]
Slope(β_n) = −3.17E+02
Y−intercept = 0.132
294 PMCs used [9534 scans]
Average IWC = 78.6 gm/km^2
TOTAL Ice = 2186.8 tons
Average FREQUENCY = 3.08%
Average ALBEDO = 8.11*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: $r_{252}/r_{273} < 5$
13:18:16 Tue Feb 12 2013 /Users/deland/pmc/programs/gplot_v3_iwc_sza.pro

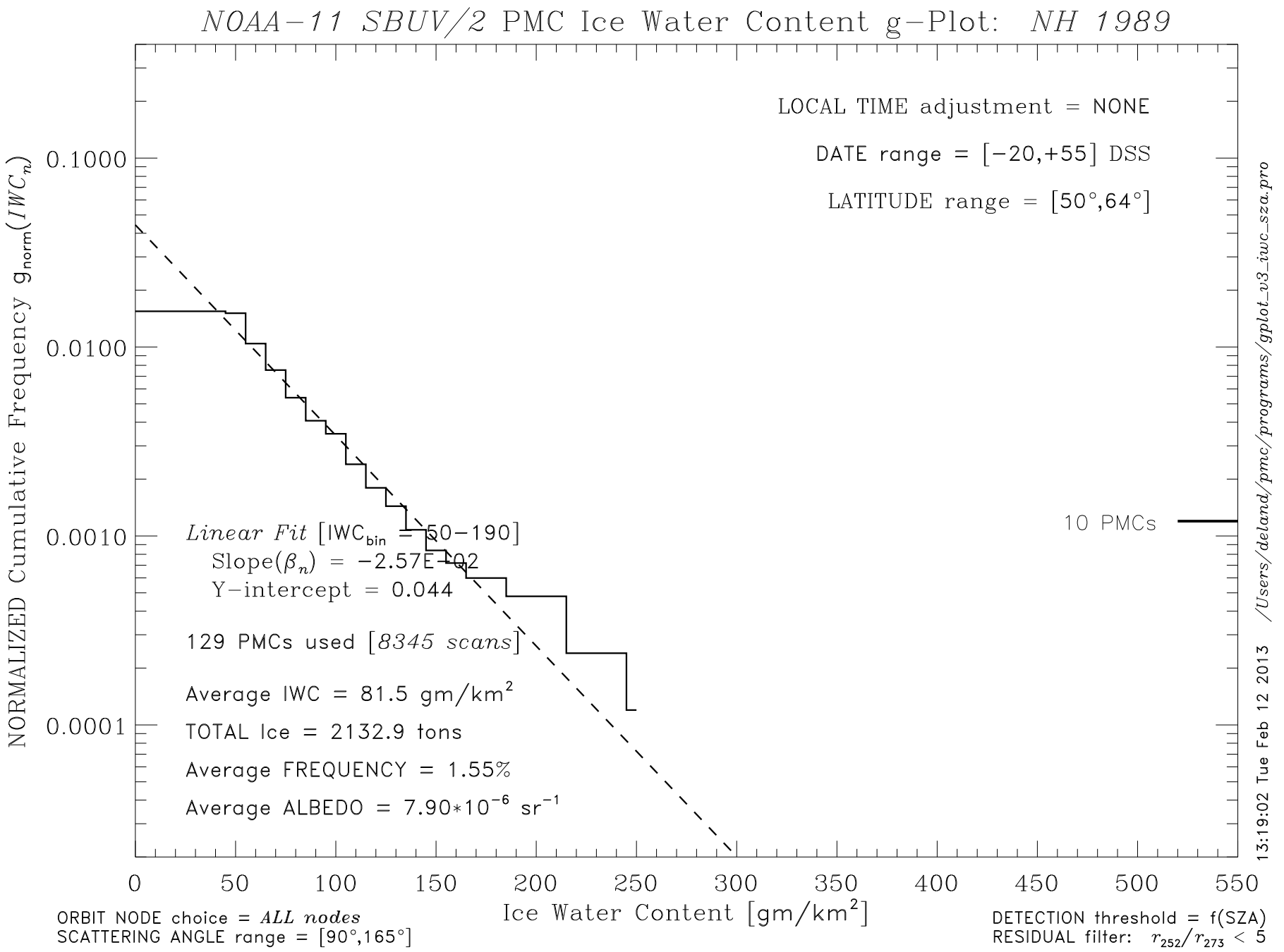

NOAA-9 SBUV/2 PMC Ice Water Content g-Plot: NH 1987
LOCAL TIME adjustment = NONE
DATE range = [-20,+55] DSS
LATITUDE range = [50°,64°]
NORMALIZED Cumulative Frequency $g_{norm}(IWC_n)$
0.1000
0.0100
0.0010
0.0001
Linear Fit [IWC$_{bin}$ = 50-200]
Slope(β_n) = -3.30E-02
Y-intercept = 0.149
489 PMCs used [12644 scans]
Average IWC = 74.9 gm/km^2
TOTAL Ice = 2205.6 tons
Average FREQUENCY = 3.87%
Average ALBEDO = 7.57*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: $r_{252}/r_{273} < 5$
13:18:17 Tue Feb 12 2013 /Users/deland/pmc/programs/gplot_v3_iwc_sza.pro

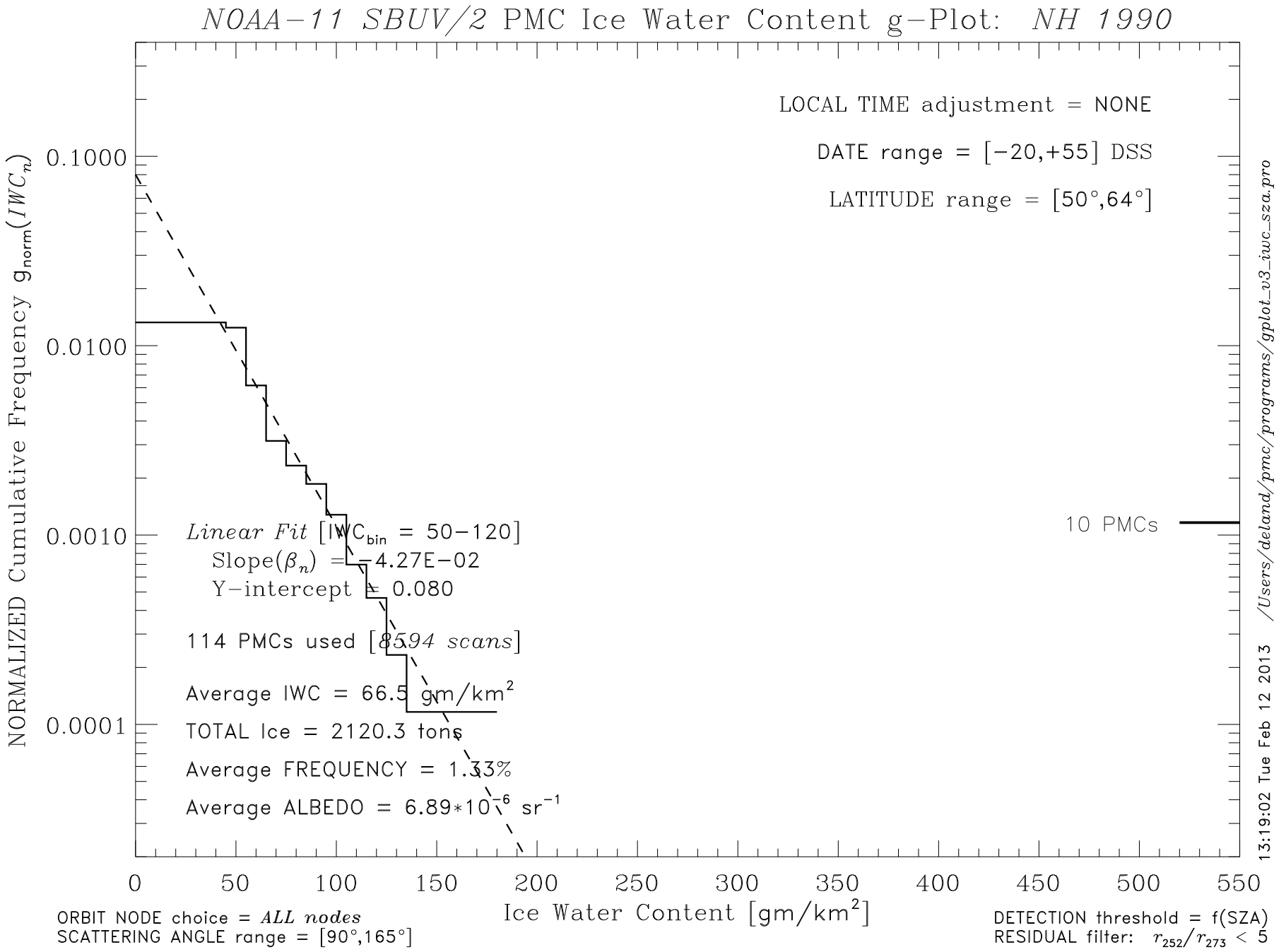
NOAA−9 SBUV/2 PMC Ice Water Content g−Plot: NH 1988
LOCAL TIME adjustment = NONE
DATE range = [−20,+55] DSS
LATITUDE range = [50°,64°]
10 PMCs
Linear Fit [IWCbin = 60−2500]
Slope(βn) = −2.32E−02
Y−intercept = 0.071
517 PMCs used [15669 scans]
Average IWC = 82.9 gm/km2
TOTAL Ice = 2195.0 tons
Average FREQUENCY = 3.30%
Average ALBEDO = 8.13*10−6 sr−1
NORMALIZED Cumulative Frequency gnorm(IWCn)
0.1000
0.0100
0.0010
0.0001
0
50
100
150
200
250
300
350
400
450
500
550
Ice Water Content [gm/km2]
ORBIT NODE choice = ALL nodes
SCATTERING ANGLE range = [90°,165°]
DETECTION threshold = f(SZA)
RESIDUAL filter: r252/r273 < 5
13:18:17 Tue Feb 12 2013 /Users/deland/pmc/programs/gplot_v3_iwc_sza.pro

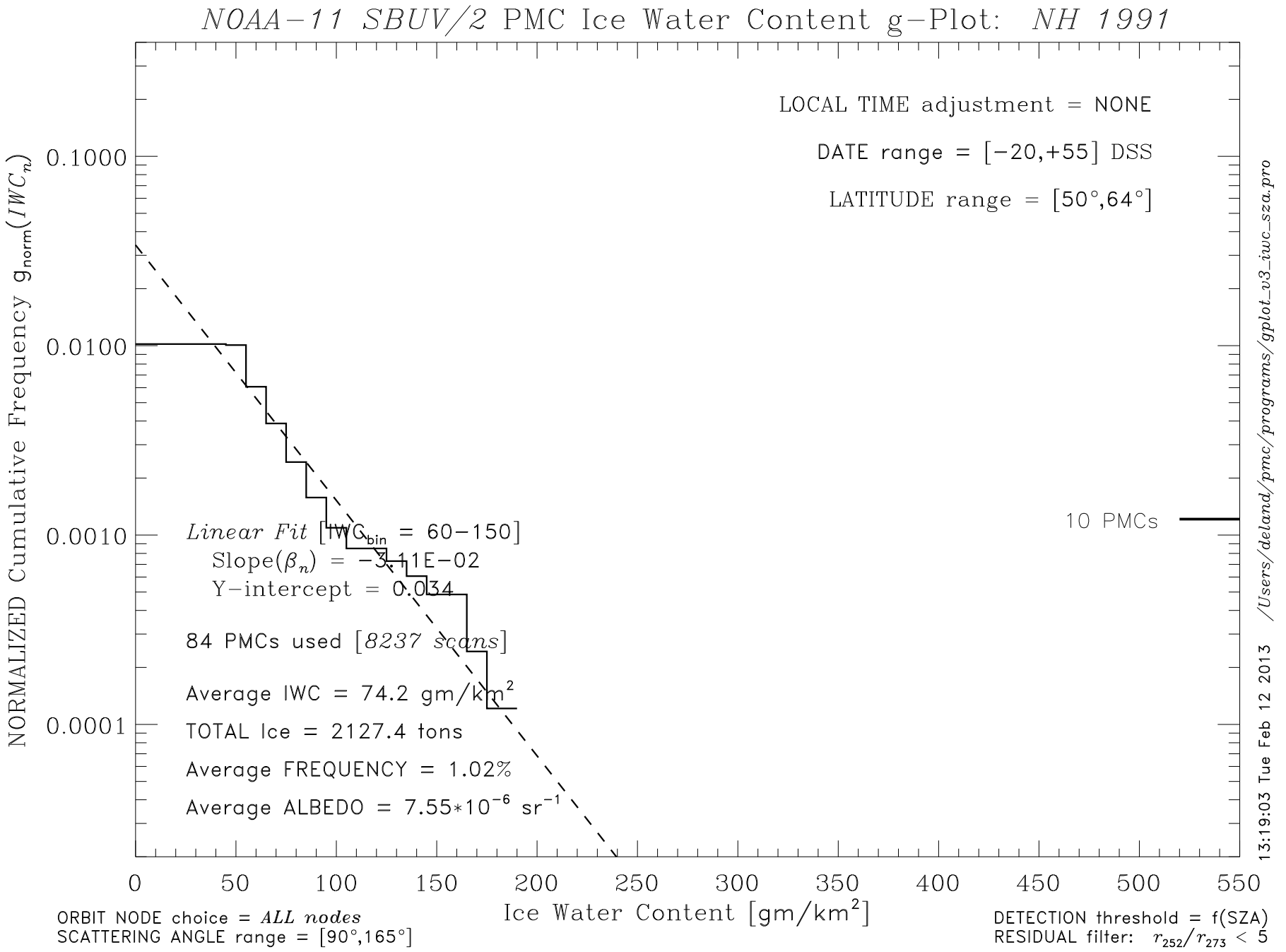

NOAA-9 SBUV/2 PMC Ice Water Content g-Plot: NH 1989
LOCAL TIME adjustment = NONE
DATE range = [-20,+55] DSS
LATITUDE range = [50°,64°]
NORMALIZED Cumulative Frequency $g_{norm}(IWC_n)$
0.1000
0.0100
0.0010
0.0001
Linear Fit [IWC$_{bin}$ = 60-160]
Slope(β_n) = -3.71E-02
Y-intercept = 0.129
315 PMCs used [15152 scans]
Average IWC = 76.7 gm/km^2
TOTAL Ice = 2129.2 tons
Average FREQUENCY = 2.08%
Average ALBEDO = 7.73*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: $r_{252}/r_{273} < 5$
13:18:18 Tue Feb 12 2013 /Users/deland/pmc/programs/gplot_v3_iwc_sza.pro

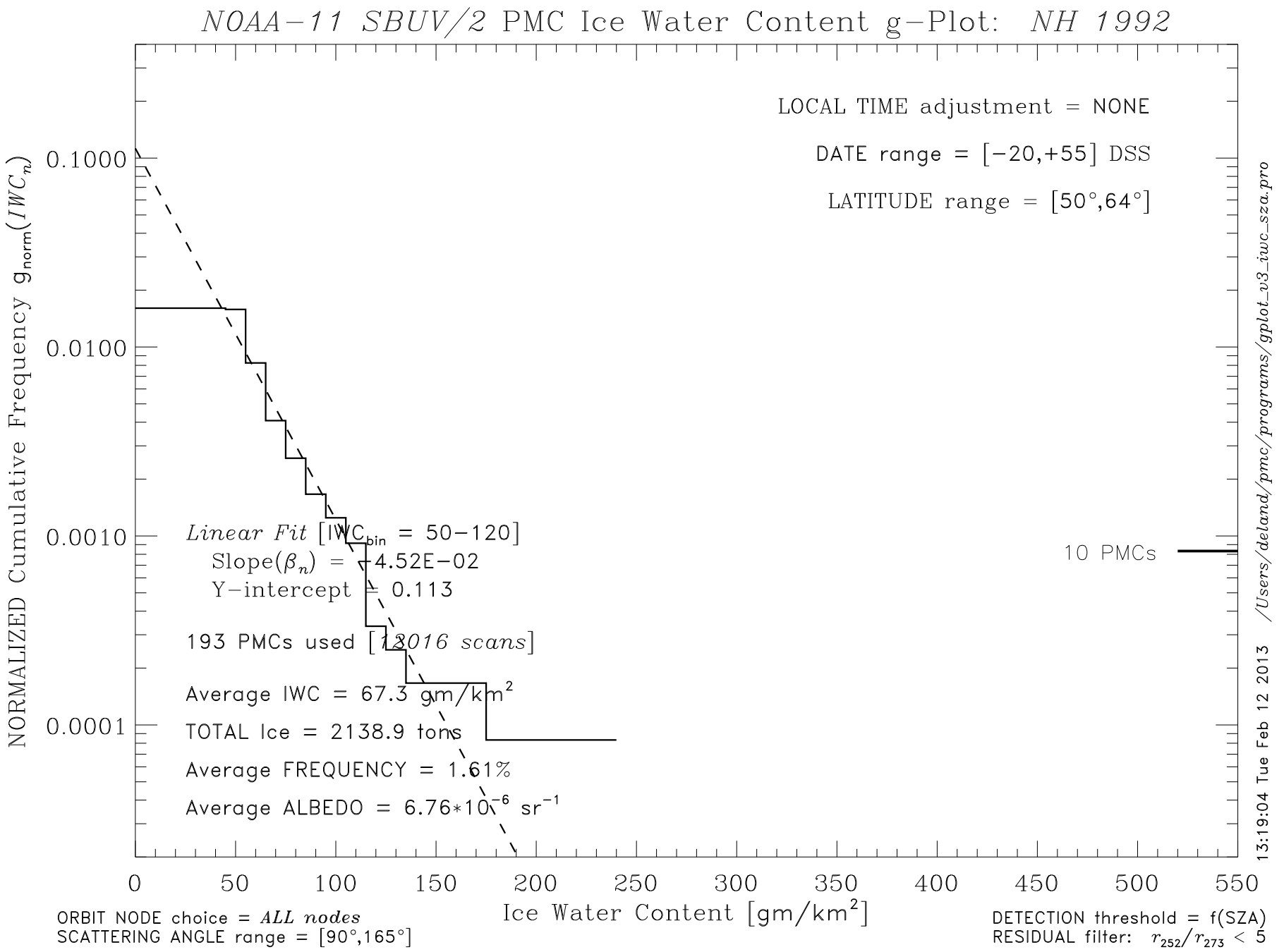

NOAA−9 SBUV/2 PMC Ice Water Content g−Plot: NH 1992
LOCAL TIME adjustment = NONE
DATE range = [−20,+55] DSS
LATITUDE range = [50°,64°]
NORMALIZED Cumulative Frequency $g_{norm}(IWC_n)$
0.1000
0.0100
0.0010
0.0001
Linear Fit [IWC_{bin} = 60−130]
Slope(β_n) = −4.94E−02
Y−intercept = 0.189
241 PMCs used [15036 scans]
Average IWC = 70.6 gm/km^2
TOTAL Ice = 2129.9 tons
Average FREQUENCY = 1.60%
Average ALBEDO = 6.84∗10^{-6} sr^{-1}
10 PMCs
0
50
100
150
200
250
300
350
400
450
500
550
Ice Water Content [gm/km^2]
ORBIT NODE choice = ALL nodes
SCATTERING ANGLE range = [90°,165°]
DETECTION threshold = f(SZA)
RESIDUAL filter: $r_{252}/r_{273} < 5$
13:18:34 Tue Feb 12 2013 /Users/deland/pmc/programs/gplot_v3_iwc_sza.pro

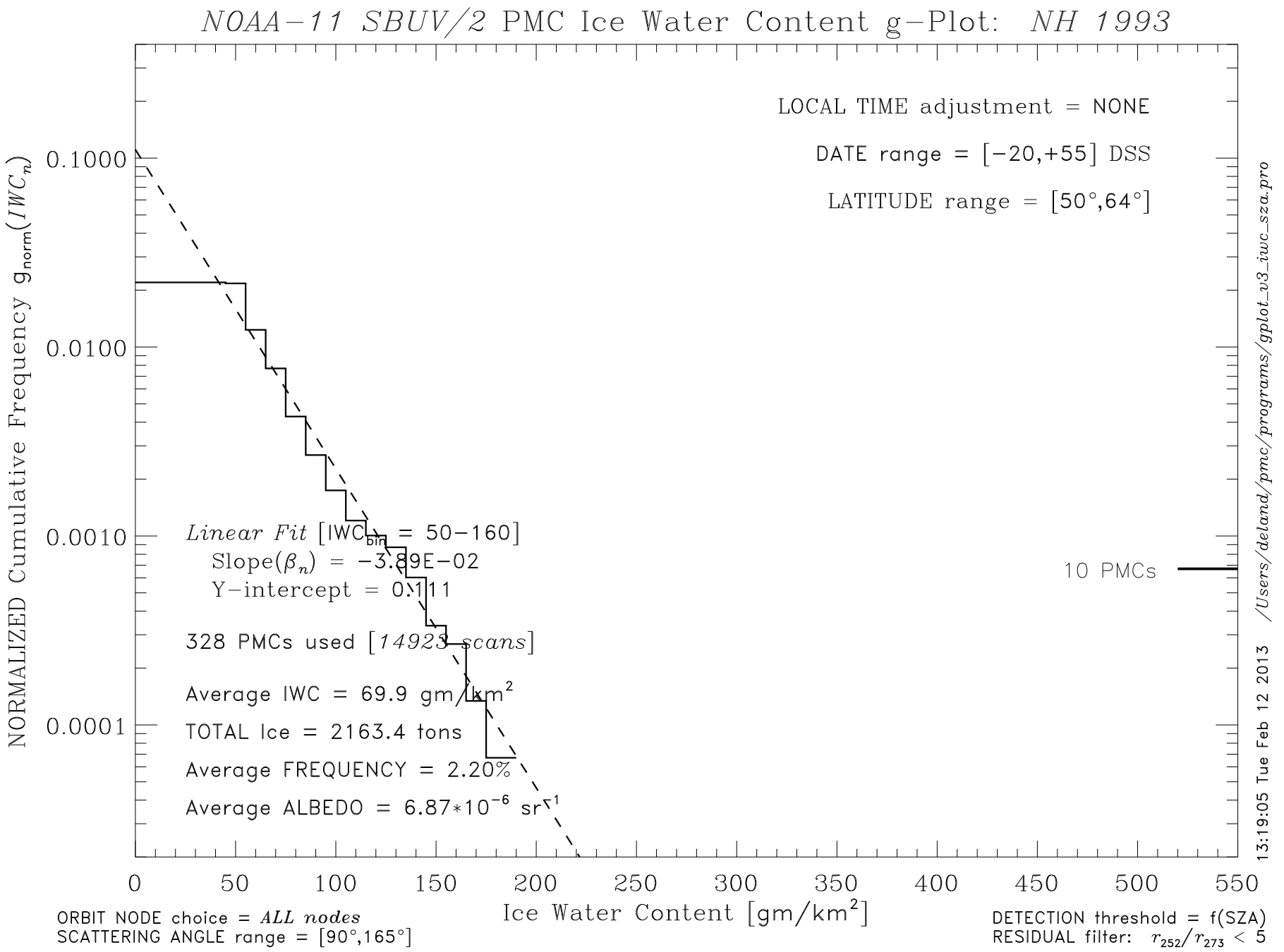
NOAA−9 SBUV/2 PMC Ice Water Content g−Plot: NH 1994
LOCAL TIME adjustment = NONE
DATE range = [−20,+55] DSS
LATITUDE range = [50°,64°]
10 PMCs
Linear Fit [IWC$_{bin}$ = 50−920]
Slope(β_n) = −2.40E−02
Y−intercept = 0.060
324 PMCs used [12422 scans]
Average IWC = 80.0 gm/km^2
TOTAL Ice = 2167.5 tons
Average FREQUENCY = 2.61%
Average ALBEDO = 7.66*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: $r_{252}/r_{273} < 5$
13:18:45 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 = [50°,64°]
NORMALIZED Cumulative Frequency $g_{norm}(IWC_n)$
0.1000
0.0100
0.0010
0.0001
Linear Fit [IWC_{bin} = 50−190]
Slope(β_n) = −2.57E−02
Y−intercept = 0.044
129 PMCs used [8345 scans]
Average IWC = 81.5 gm/km^2
TOTAL Ice = 2132.9 tons
Average FREQUENCY = 1.55%
Average ALBEDO = 7.90∗10^{-6} sr^{-1}
10 PMCs
0
50
100
150
200
250
300
350
400
450
500
550
Ice Water Content [gm/km^2]
13:19:02 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: $r_{252}/r_{273} < 5$

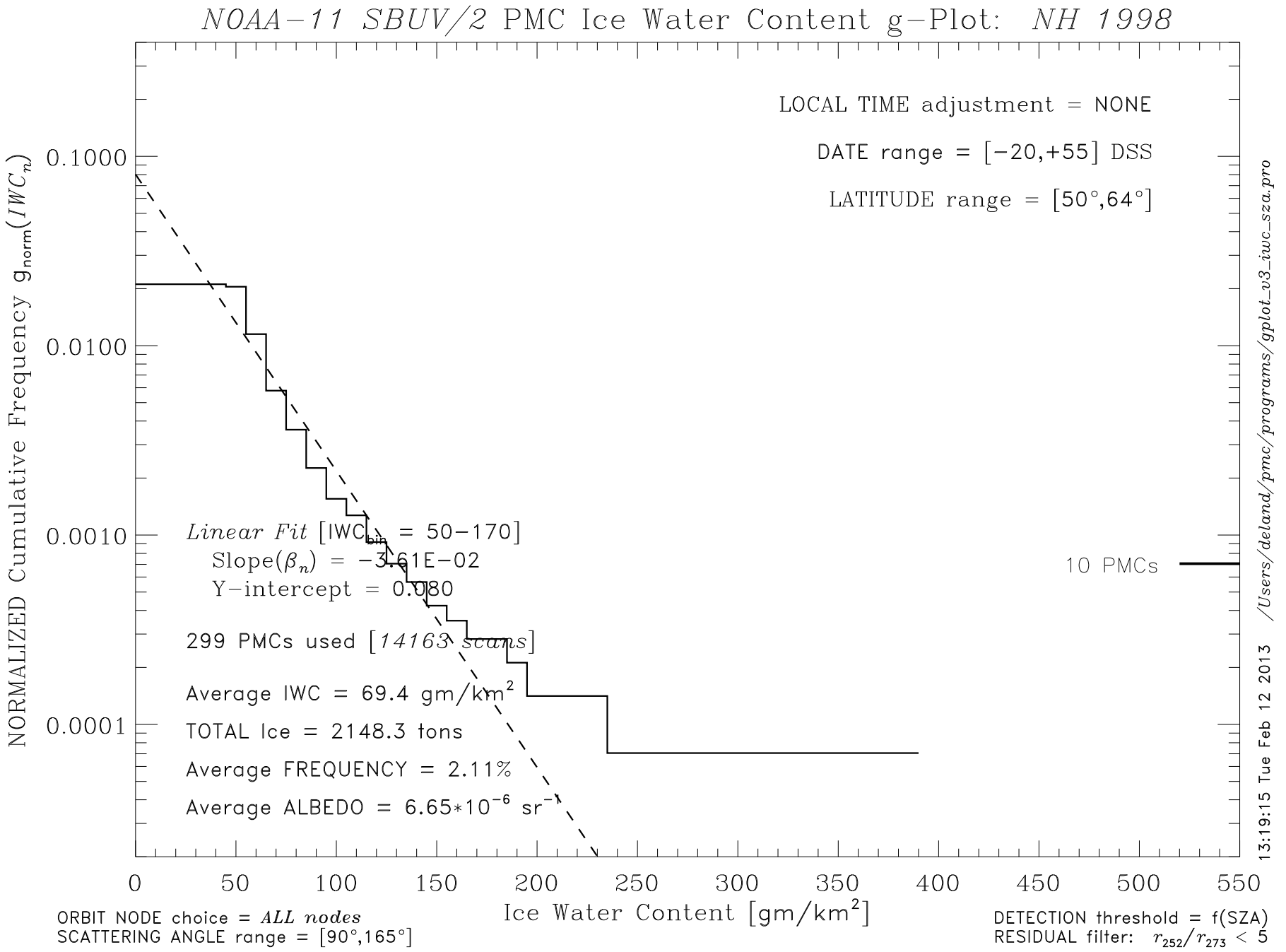

NOAA−11 SBUV/2 PMC Ice Water Content g−Plot: NH 1990
LOCAL TIME adjustment = NONE
DATE range = [−20,+55] DSS
LATITUDE range = [50°,64°]
NORMALIZED Cumulative Frequency $g_{norm}(IWC_n)$
0.1000
0.0100
0.0010
0.0001
Linear Fit [IWC_{bin} = 50−120]
Slope(β_n) = −4.27E−02
Y−intercept = 0.080
114 PMCs used [8594 scans]
Average IWC = 66.5 gm/km^2
TOTAL Ice = 2120.3 tons
Average FREQUENCY = 1.33%
Average ALBEDO = 6.89∗10^{-6} sr^{-1}
10 PMCs
0
50
100
150
200
250
300
350
400
450
500
550
Ice Water Content [gm/km^2]
ORBIT NODE choice = ALL nodes
SCATTERING ANGLE range = [90°,165°]
DETECTION threshold = f(SZA)
RESIDUAL filter: $r_{252}/r_{273} < 5$
13:19:02 Tue Feb 12 2013 /Users/deland/pmc/programs/gplot_v3_iwc_sza.pro

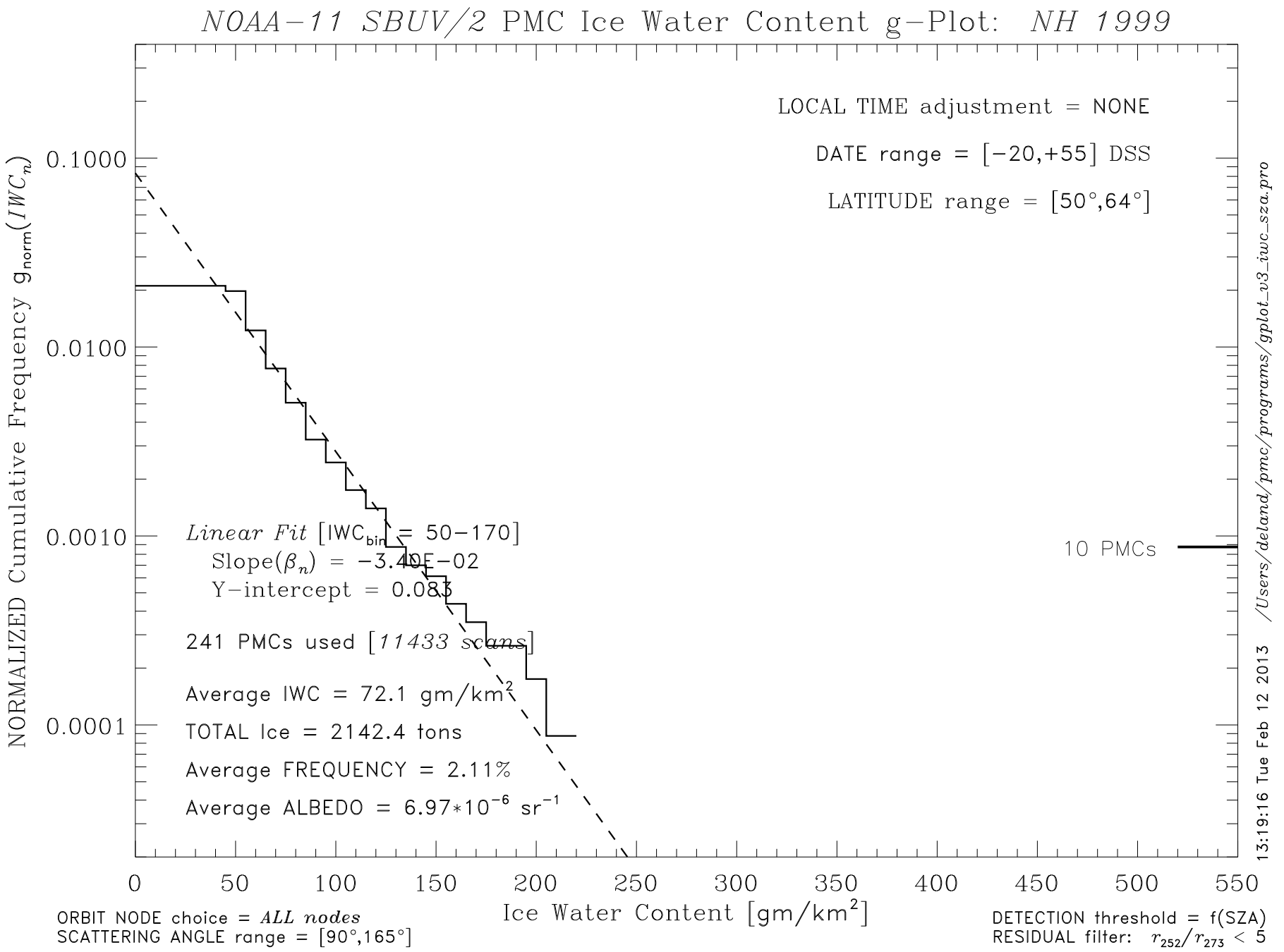

NOAA−11 SBUV/2 PMC Ice Water Content g−Plot: NH 1991
LOCAL TIME adjustment = NONE
DATE range = [−20,+55] DSS
LATITUDE range = [50°,64°]
NORMALIZED Cumulative Frequency $g_{norm}(IWC_n)$
0.1000
0.0100
0.0010
0.0001
Linear Fit [IWC_{bin} = 60−150]
Slope(β_n) = −3.11E−02
Y−intercept = 0.034
84 PMCs used [8237 scans]
Average IWC = 74.2 gm/km^2
TOTAL Ice = 2127.4 tons
Average FREQUENCY = 1.02%
Average ALBEDO = 7.55∗10^{-6} sr^{-1}
10 PMCs
0
50
100
150
200
250
300
350
400
450
500
550
Ice Water Content [gm/km^2]
13:19:03 Tue Feb 12 2013 /Users/deland/pmc/programs/gplot_v3_iwc_sza.pro
ORBIT NODE choice = ALL nodes
SCATTERING ANGLE range = [90°,165°]
DETECTION threshold = f(SZA)
RESIDUAL filter: $r_{252}/r_{273} < 5$


NOAA−11 SBUV/2 PMC Ice Water Content g−Plot: NH 1992
LOCAL TIME adjustment = NONE
DATE range = [−20,+55] DSS
LATITUDE range = [50°,64°]
NORMALIZED Cumulative Frequency $g_{norm}(IWC_n)$
0.1000
0.0100
0.0010
0.0001
Linear Fit [IWC_{bin} = 50−120]
Slope(β_n) = −4.52E−02
Y−intercept = 0.113
193 PMCs used [13016 scans]
Average IWC = 67.3 gm/km^2
TOTAL Ice = 2138.9 tons
Average FREQUENCY = 1.61%
Average ALBEDO = 6.76∗10^{-6} sr^{-1}
10 PMCs
0
50
100
150
200
250
300
350
400
450
500
550
Ice Water Content [gm/km^2]
13:19:04 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: $r_{252}/r_{273} < 5$

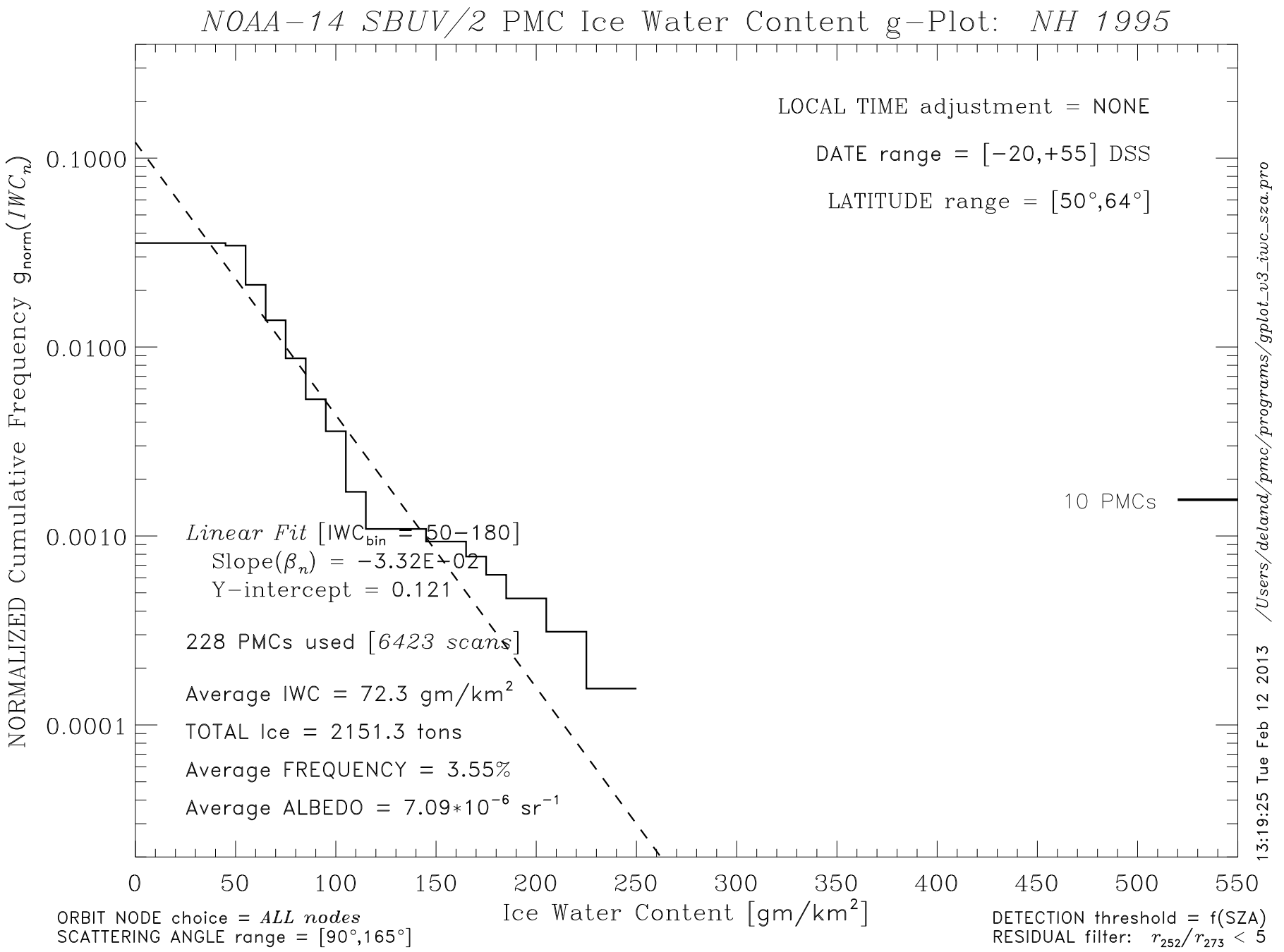

NOAA−11 SBUV/2 PMC Ice Water Content g−Plot: NH 1993
LOCAL TIME adjustment = NONE
DATE range = [−20,+55] DSS
LATITUDE range = [50°,64°]
NORMALIZED Cumulative Frequency $g_{norm}(IWC_n)$
0.1000
0.0100
0.0010
0.0001
Linear Fit [IWC_{bin} = 50−160]
Slope(β_n) = −3.89E−02
Y−intercept = 0.111
328 PMCs used [14923 scans]
Average IWC = 69.9 gm/km^2
TOTAL Ice = 2163.4 tons
Average FREQUENCY = 2.20%
Average ALBEDO = 6.87∗10^{-6} sr^{-1}
10 PMCs
0
50
100
150
200
250
300
350
400
450
500
550
Ice Water Content [gm/km^2]
13:19:05 Tue Feb 12 2013 /Users/deland/pmc/programs/gplot_v3_iwc_sza.pro
ORBIT NODE choice = ALL nodes
SCATTERING ANGLE range = [90°,165°]
DETECTION threshold = f(SZA)
RESIDUAL filter: $r_{252}/r_{273} < 5$

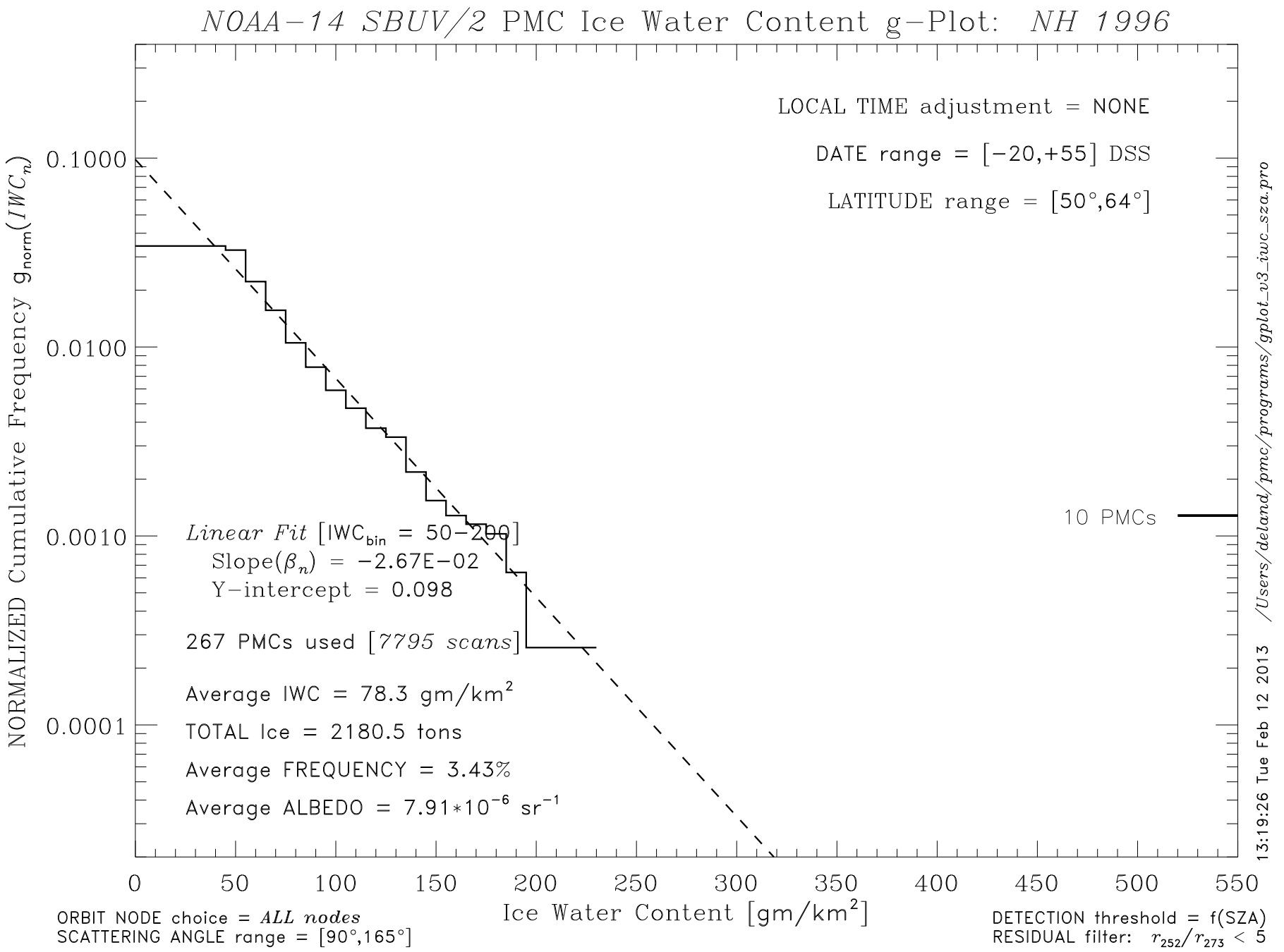
NOAA−11 SBUV/2 PMC Ice Water Content g−Plot: NH 1994
LOCAL TIME adjustment = NONE
DATE range = [−20,+55] DSS
LATITUDE range = [50°,64°]
10 PMCs
Linear Fit [IWC_bin = 50−150]
Slope(β_n) = −4.04E−02
Y−intercept = 0.114
267 PMCs used [16108 scans]
Average IWC = 74.7 gm/km²
TOTAL Ice = 2113.7 tons
Average FREQUENCY = 1.66%
Average ALBEDO = 7.46*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
13:19:06 Tue Feb 12 2013 /Users/deland/pmc/programs/gplot_v3_iwc_sza.pro

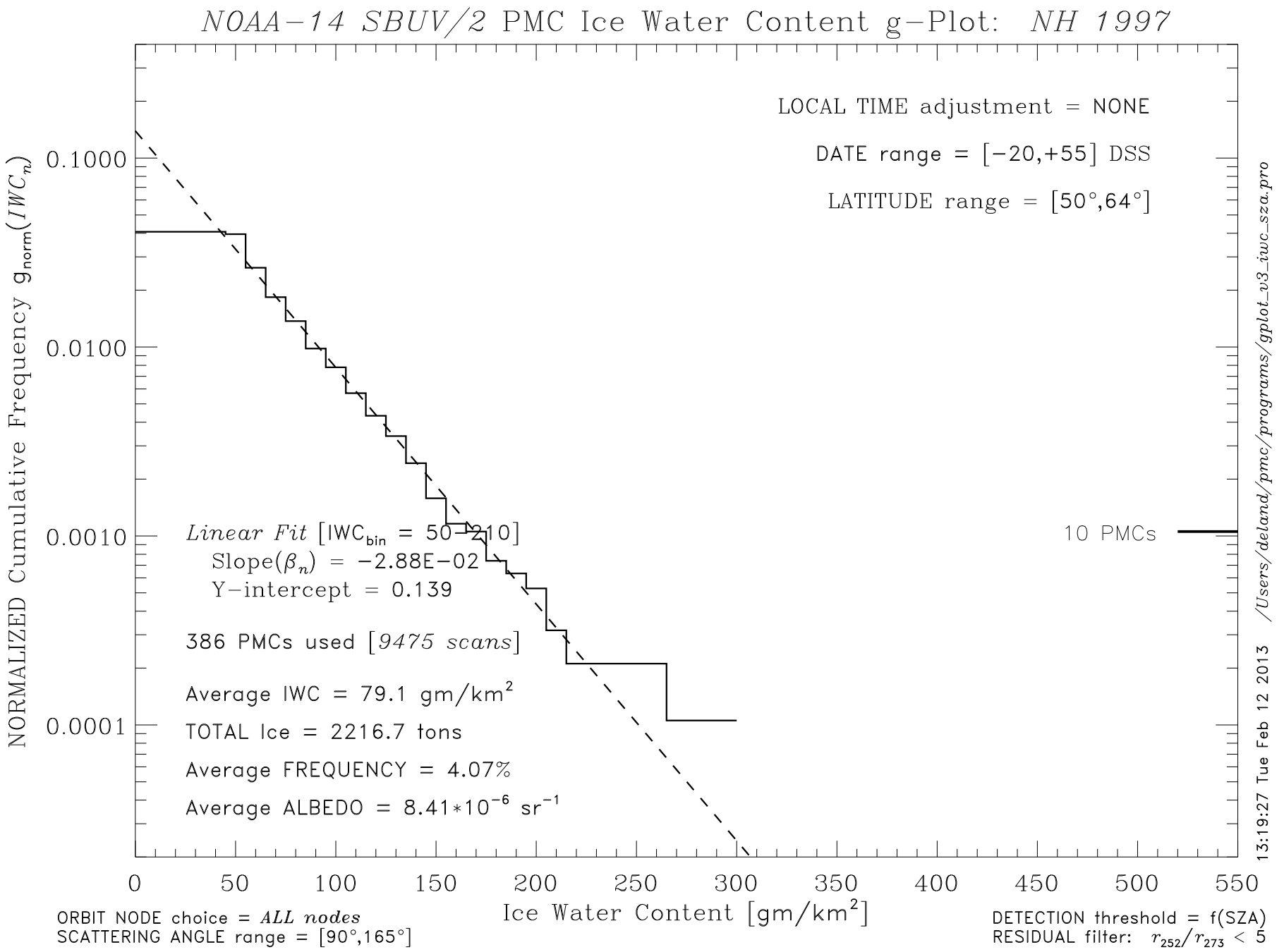

NOAA−11 SBUV/2 PMC Ice Water Content g−Plot: NH 1998
LOCAL TIME adjustment = NONE
DATE range = [−20,+55] DSS
LATITUDE range = [50°,64°]
NORMALIZED Cumulative Frequency $g_{norm}(IWC_n)$
0.1000
0.0100
0.0010
0.0001
Linear Fit [IWC$_{bin}$ = 50−170]
Slope(β_n) = −3.61E−02
Y−intercept = 0.080
299 PMCs used [14163 scans]
Average IWC = 69.4 gm/km^2
TOTAL Ice = 2148.3 tons
Average FREQUENCY = 2.11%
Average ALBEDO = 6.65∗10^{-6} sr^{-1}
10 PMCs
0
50
100
150
200
250
300
350
400
450
500
550
Ice Water Content [gm/km^2]
13:19:15 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: $r_{252}/r_{273} < 5$

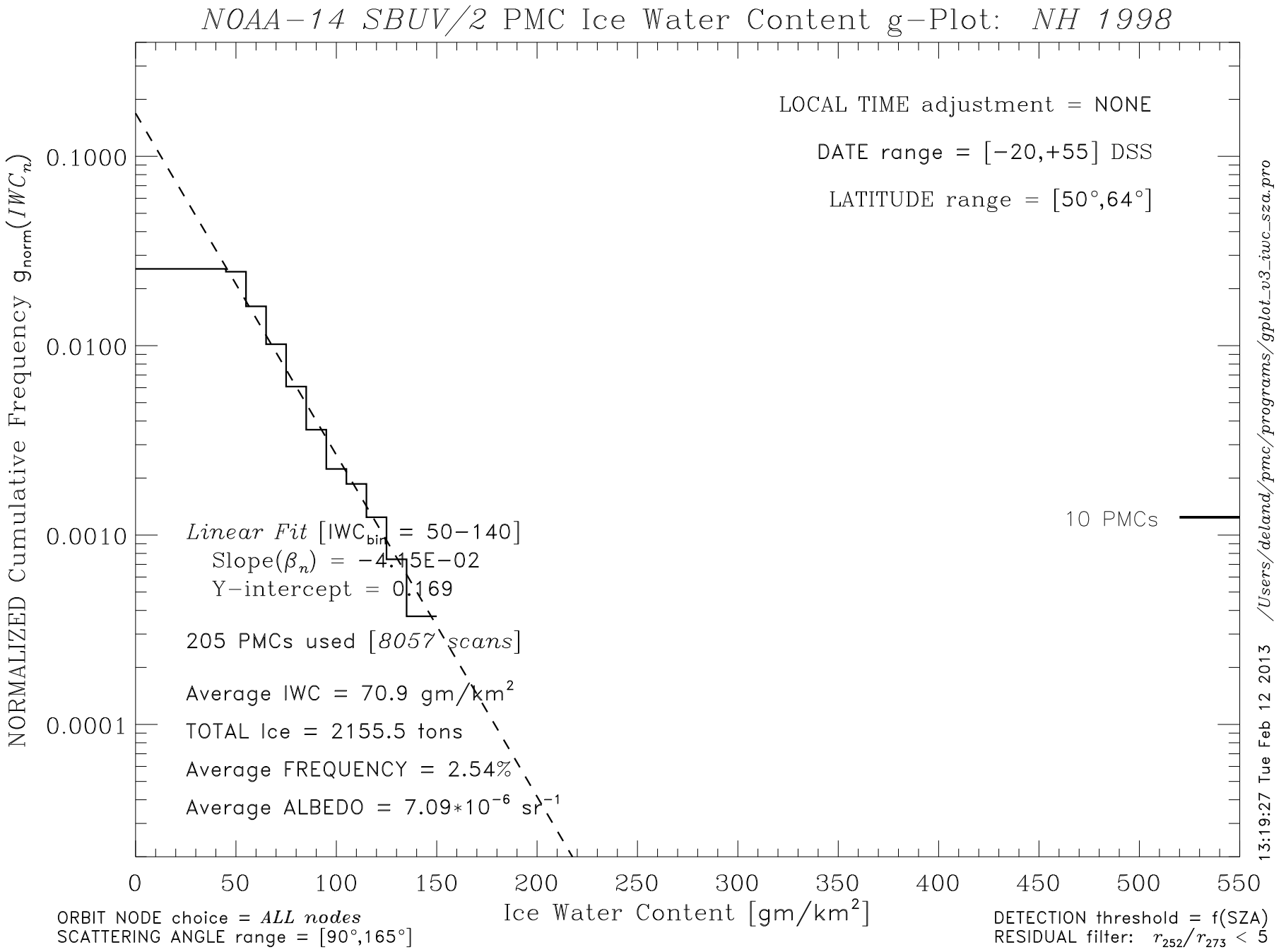

NOAA−11 SBUV/2 PMC Ice Water Content g−Plot: NH 1999
LOCAL TIME adjustment = NONE
DATE range = [−20,+55] DSS
LATITUDE range = [50°,64°]
NORMALIZED Cumulative Frequency $g_{norm}(IWC_n)$
0.1000
0.0100
0.0010
0.0001
Linear Fit [IWC_{bin} = 50−170]
Slope(β_n) = −3.40E−02
Y−intercept = 0.083
241 PMCs used [11433 scans]
Average IWC = 72.1 gm/km^2
TOTAL Ice = 2142.4 tons
Average FREQUENCY = 2.11%
Average ALBEDO = 6.97∗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: $r_{252}/r_{273} < 5$
13:19:16 Tue Feb 12 2013 /Users/deland/pmc/programs/gplot_v3_iwc_sza.pro

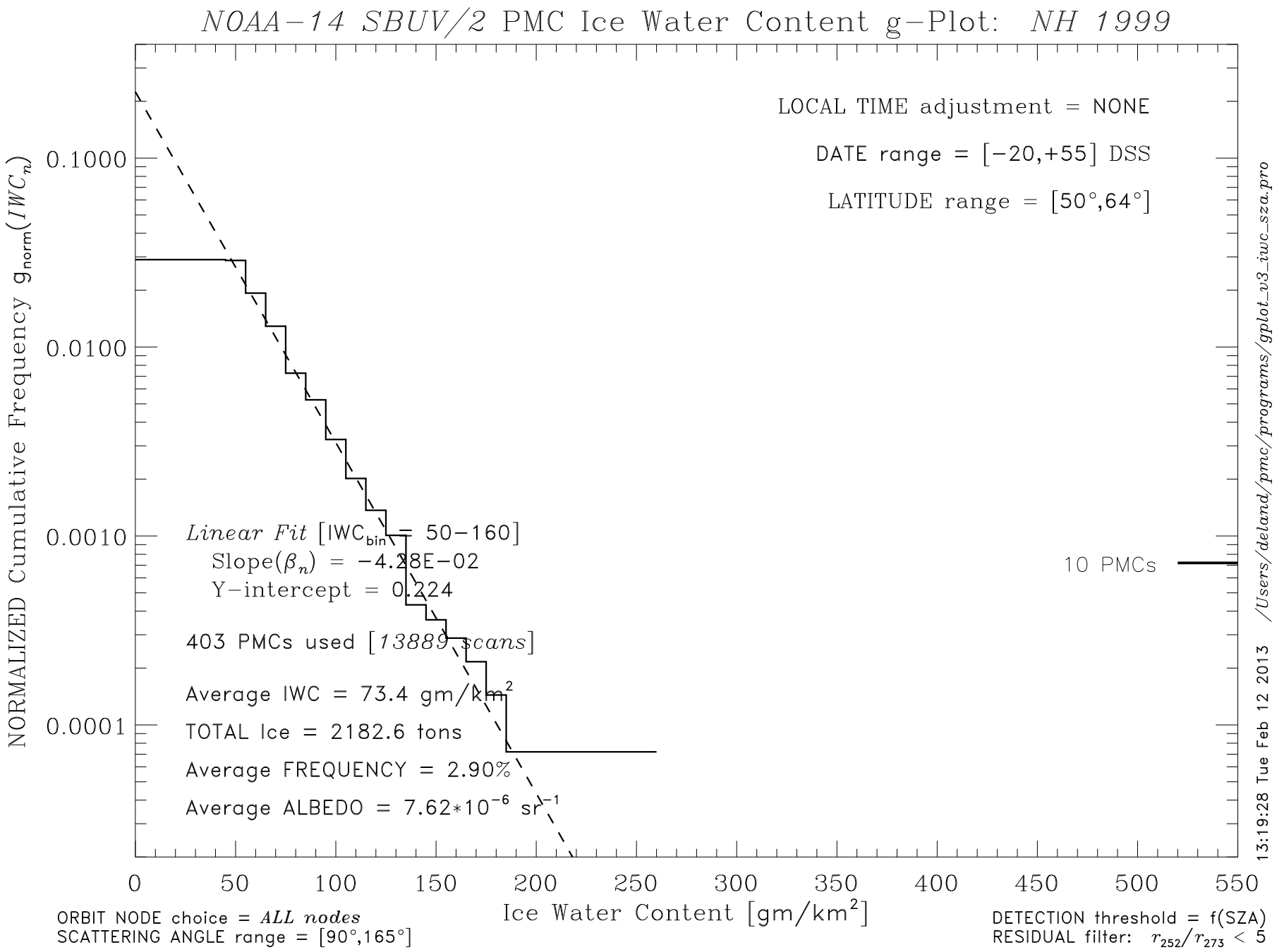
NOAA−11 SBUV/2 PMC Ice Water Content g−Plot: NH 2000
LOCAL TIME adjustment = NONE
DATE range = [−20,+55] DSS
LATITUDE range = [50°,64°]
10 PMCs
Linear Fit [IWC bin = 50−170]
Slope(β_n) = −3.023E−02
Y−intercept = 0.049
142 PMCs used [9189 scans]
Average IWC = 74.2 gm/km²
TOTAL Ice = 2123.9 tons
Average FREQUENCY = 1.55%
Average ALBEDO = 7.15*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
13:19:16 Tue Feb 12 2013 /Users/deland/pmc/programs/gplot_v3_iwc_sza.pro

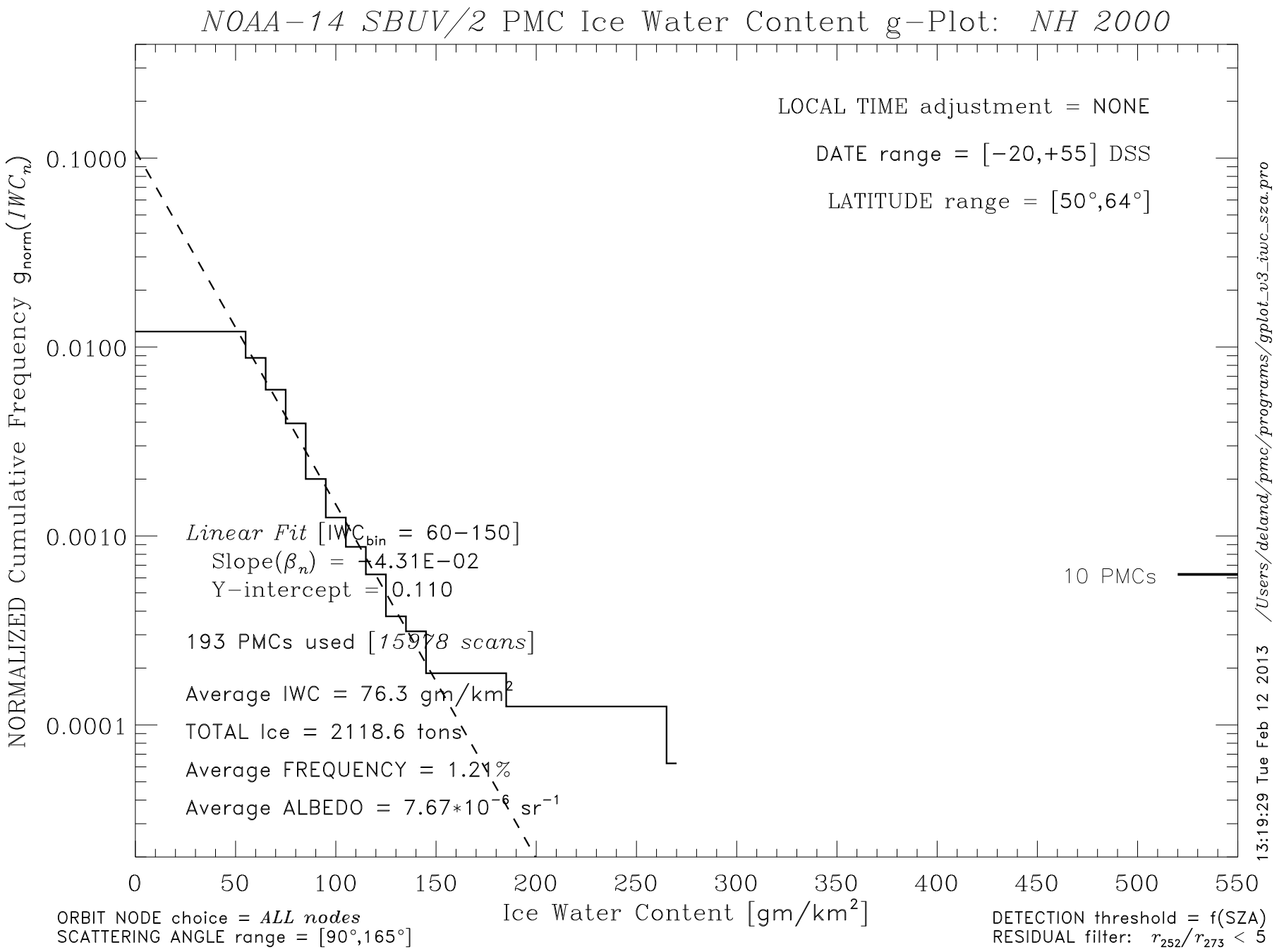

NOAA−14 SBUV/2 PMC Ice Water Content g−Plot: NH 1995
LOCAL TIME adjustment = NONE
DATE range = [−20,+55] DSS
LATITUDE range = [50°,64°]
10 PMCs
Linear Fit [IWC_bin = 50−180]
Slope(β_n) = −3.32E−02
Y−intercept = 0.121
228 PMCs used [6423 scans]
Average IWC = 72.3 gm/km²
TOTAL Ice = 2151.3 tons
Average FREQUENCY = 3.55%
Average ALBEDO = 7.09∗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/km²]
ORBIT NODE choice = ALL nodes
SCATTERING ANGLE range = [90°,165°]
DETECTION threshold = f(SZA)
RESIDUAL filter: r_252/r_273 < 5
13:19:25 Tue Feb 12 2013 /Users/deland/pmc/programs/gplot_v3_iwc_sza.pro

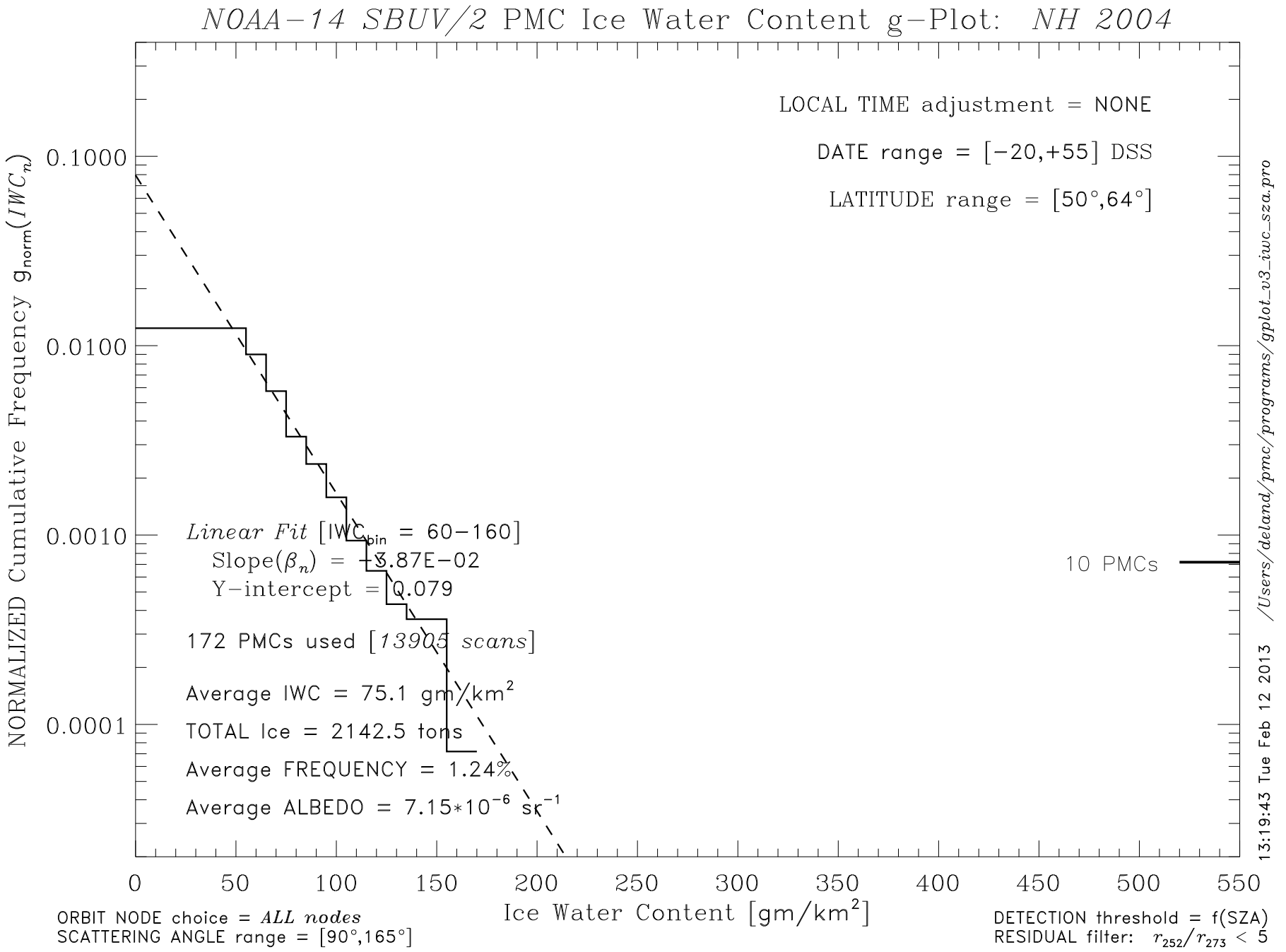

NOAA−14 SBUV/2 PMC Ice Water Content g−Plot: NH 1996
LOCAL TIME adjustment = NONE
DATE range = [−20,+55] DSS
LATITUDE range = [50°,64°]
NORMALIZED Cumulative Frequency $g_{norm}(IWC_n)$
0.1000
0.0100
0.0010
0.0001
Linear Fit [IWC_bin = 50−200]
Slope(β_n) = −2.67E−02
Y−intercept = 0.098
267 PMCs used [7795 scans]
Average IWC = 78.3 gm/km^2
TOTAL Ice = 2180.5 tons
Average FREQUENCY = 3.43%
Average ALBEDO = 7.91∗10^{-6} sr^{-1}
10 PMCs
0
50
100
150
200
250
300
350
400
450
500
550
Ice Water Content [gm/km^2]
13:19:26 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: $r_{252}/r_{273} < 5$

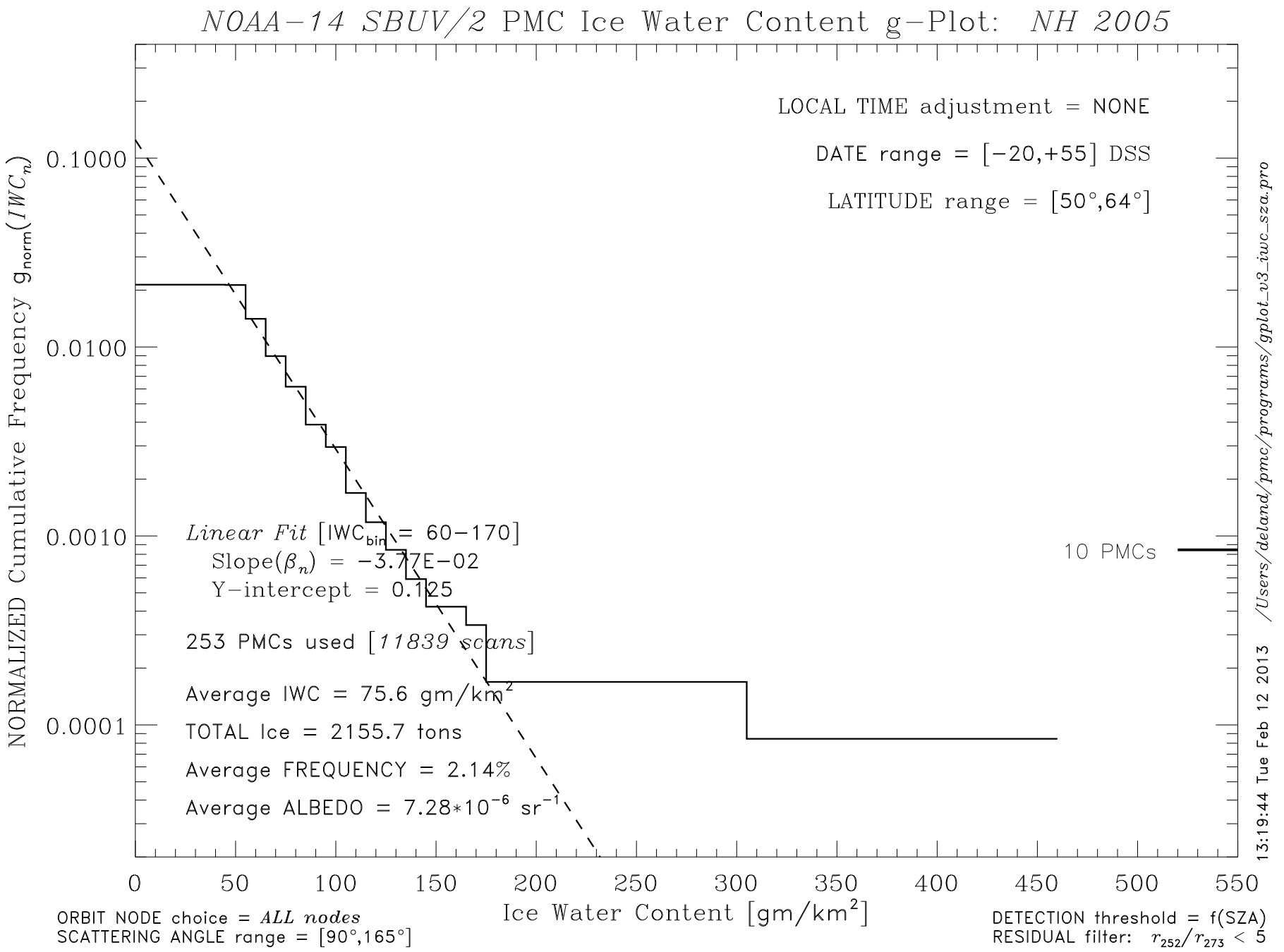

NOAA−14 SBUV/2 PMC Ice Water Content g−Plot: NH 1997
LOCAL TIME adjustment = NONE
DATE range = [−20,+55] DSS
LATITUDE range = [50°,64°]
NORMALIZED Cumulative Frequency $g_{norm}(IWC_n)$
0.1000
0.0100
0.0010
0.0001
Linear Fit [IWC_bin = 50−210]
Slope(β_n) = −2.88E−02
Y−intercept = 0.139
386 PMCs used [9475 scans]
Average IWC = 79.1 gm/km^2
TOTAL Ice = 2216.7 tons
Average FREQUENCY = 4.07%
Average ALBEDO = 8.41∗10^{-6} sr^{-1}
10 PMCs
0
50
100
150
200
250
300
350
400
450
500
550
Ice Water Content [gm/km^2]
13:19:27 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: $r_{252}/r_{273} < 5$

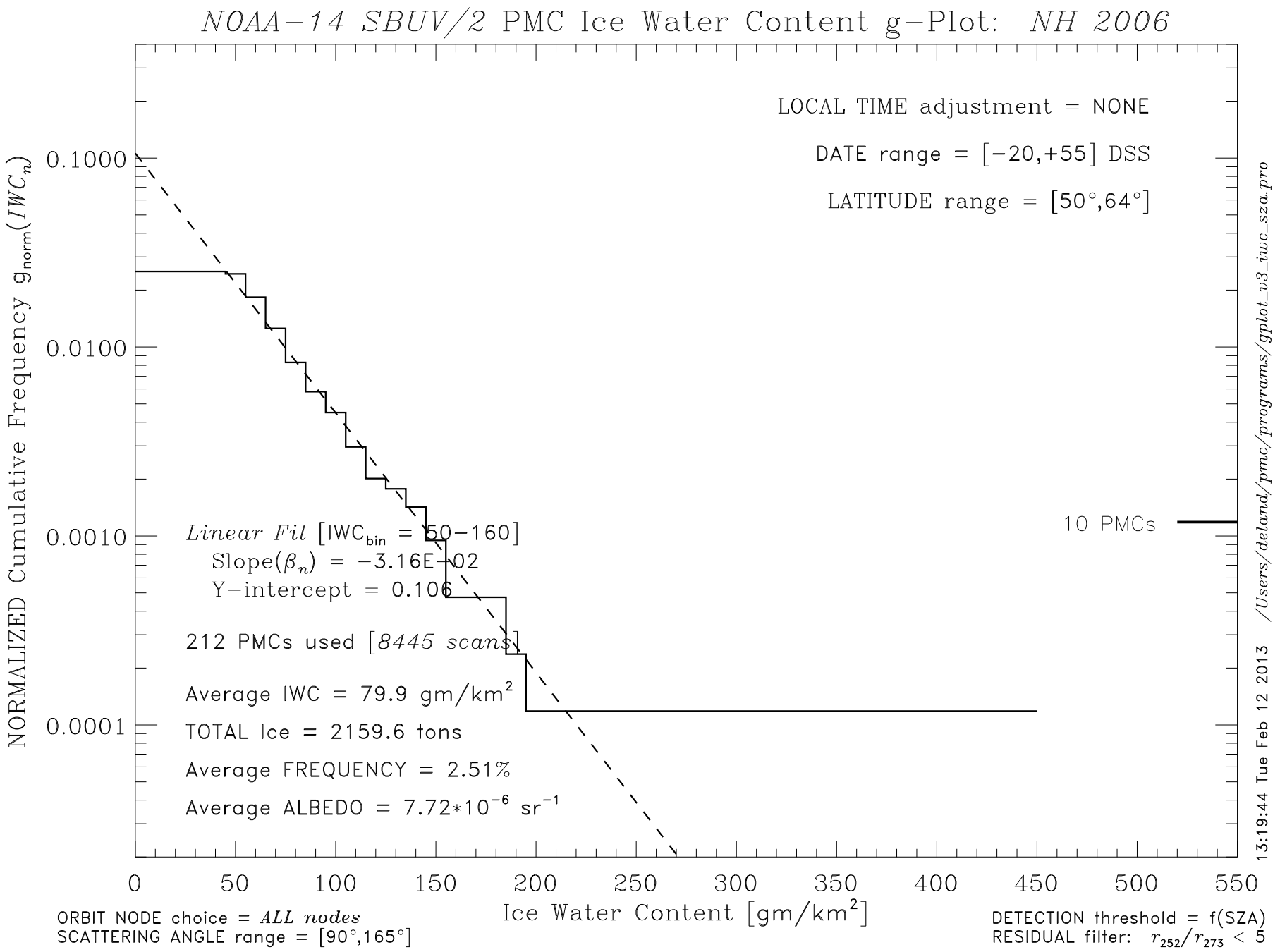

NOAA−14 SBUV/2 PMC Ice Water Content g−Plot: NH 1998
LOCAL TIME adjustment = NONE
DATE range = [−20,+55] DSS
LATITUDE range = [50°,64°]
10 PMCs
Linear Fit [IWC_bin = 50−140]
Slope(β_n) = −4.15E−02
Y−intercept = 0.169
205 PMCs used [8057 scans]
Average IWC = 70.9 gm/km²
TOTAL Ice = 2155.5 tons
Average FREQUENCY = 2.54%
Average ALBEDO = 7.09∗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/km²]
ORBIT NODE choice = ALL nodes
SCATTERING ANGLE range = [90°,165°]
DETECTION threshold = f(SZA)
RESIDUAL filter: r_252/r_273 < 5
13:19:27 Tue Feb 12 2013 /Users/deland/pmc/programs/gplot_v3_iwc_sza.pro

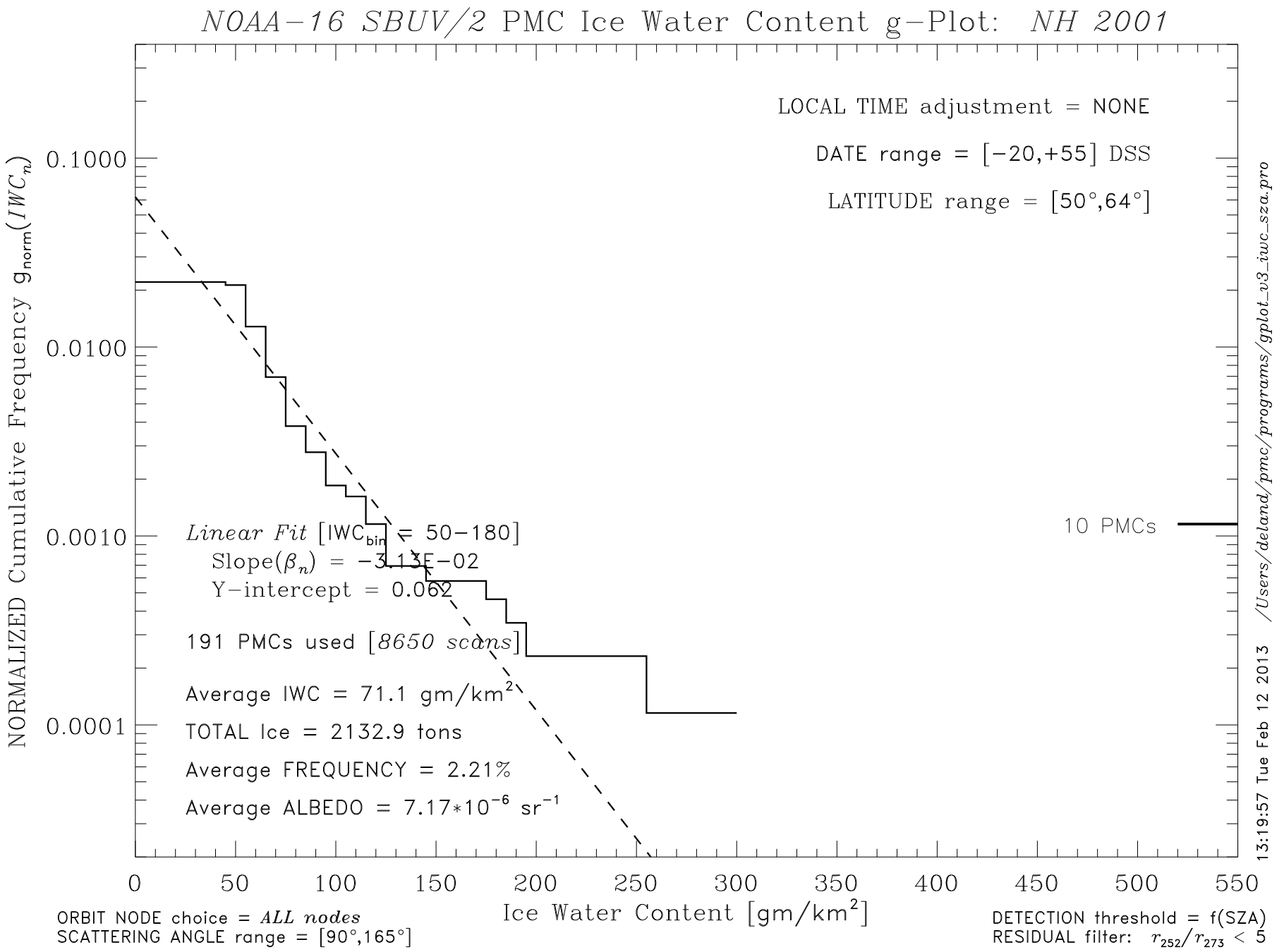

NOAA−14 SBUV/2 PMC Ice Water Content g−Plot: NH 1999
LOCAL TIME adjustment = NONE
DATE range = [−20,+55] DSS
LATITUDE range = [50°,64°]
NORMALIZED Cumulative Frequency $g_{norm}(IWC_n)$
0.1000
0.0100
0.0010
0.0001
Linear Fit [IWC_{bin} = 50−160]
Slope(β_n) = −4.28E−02
Y−intercept = 0.224
403 PMCs used [13889 scans]
Average IWC = 73.4 gm/km^2
TOTAL Ice = 2182.6 tons
Average FREQUENCY = 2.90%
Average ALBEDO = 7.62∗10^{-6} sr^{-1}
10 PMCs
0
50
100
150
200
250
300
350
400
450
500
550
Ice Water Content [gm/km^2]
13:19:28 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: $r_{252}/r_{273} < 5$

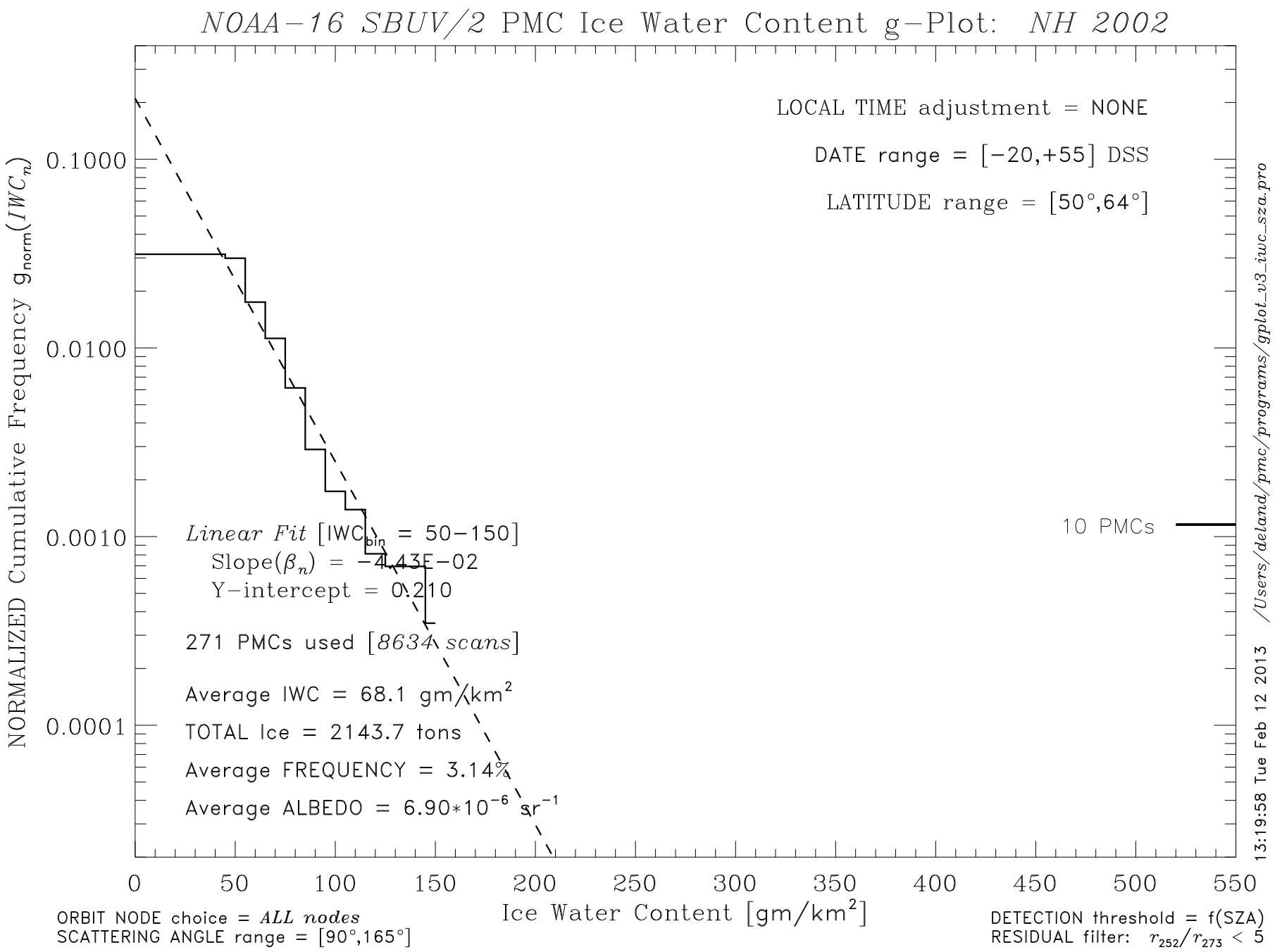

NOAA−14 SBUV/2 PMC Ice Water Content g−Plot: NH 2000
LOCAL TIME adjustment = NONE
DATE range = [−20,+55] DSS
LATITUDE range = [50°,64°]
NORMALIZED Cumulative Frequency $g_{norm}(IWC_n)$
0.1000
0.0100
0.0010
0.0001
Linear Fit [IWC_{bin} = 60−150]
Slope(β_n) = −4.31E−02
Y−intercept = 0.110
193 PMCs used [15978 scans]
Average IWC = 76.3 gm/km^2
TOTAL Ice = 2118.6 tons
Average FREQUENCY = 1.21%
Average ALBEDO = 7.67∗10^{-6} sr^{-1}
10 PMCs
0
50
100
150
200
250
300
350
400
450
500
550
Ice Water Content [gm/km^2]
13:19:29 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 = [50°,64°]
NORMALIZED Cumulative Frequency $g_{norm}(IWC_n)$
0.1000
0.0100
0.0010
0.0001
Linear Fit [IWC_{bin} = 60−160]
Slope(β_n) = −3.87E−02
Y−intercept = 0.079
172 PMCs used [13905 scans]
Average IWC = 75.1 gm/km^2
TOTAL Ice = 2142.5 tons
Average FREQUENCY = 1.24%
Average ALBEDO = 7.15∗10^{-6} sr^{-1}
10 PMCs
0
50
100
150
200
250
300
350
400
450
500
550
Ice Water Content [gm/km^2]
13:19:43 Tue Feb 12 2013 /Users/deland/pmc/programs/gplot_v3_iwc_sza.pro
ORBIT NODE choice = ALL nodes
SCATTERING ANGLE range = [90°,165°]
DETECTION threshold = f(SZA)
RESIDUAL filter: $r_{252}/r_{273} < 5$

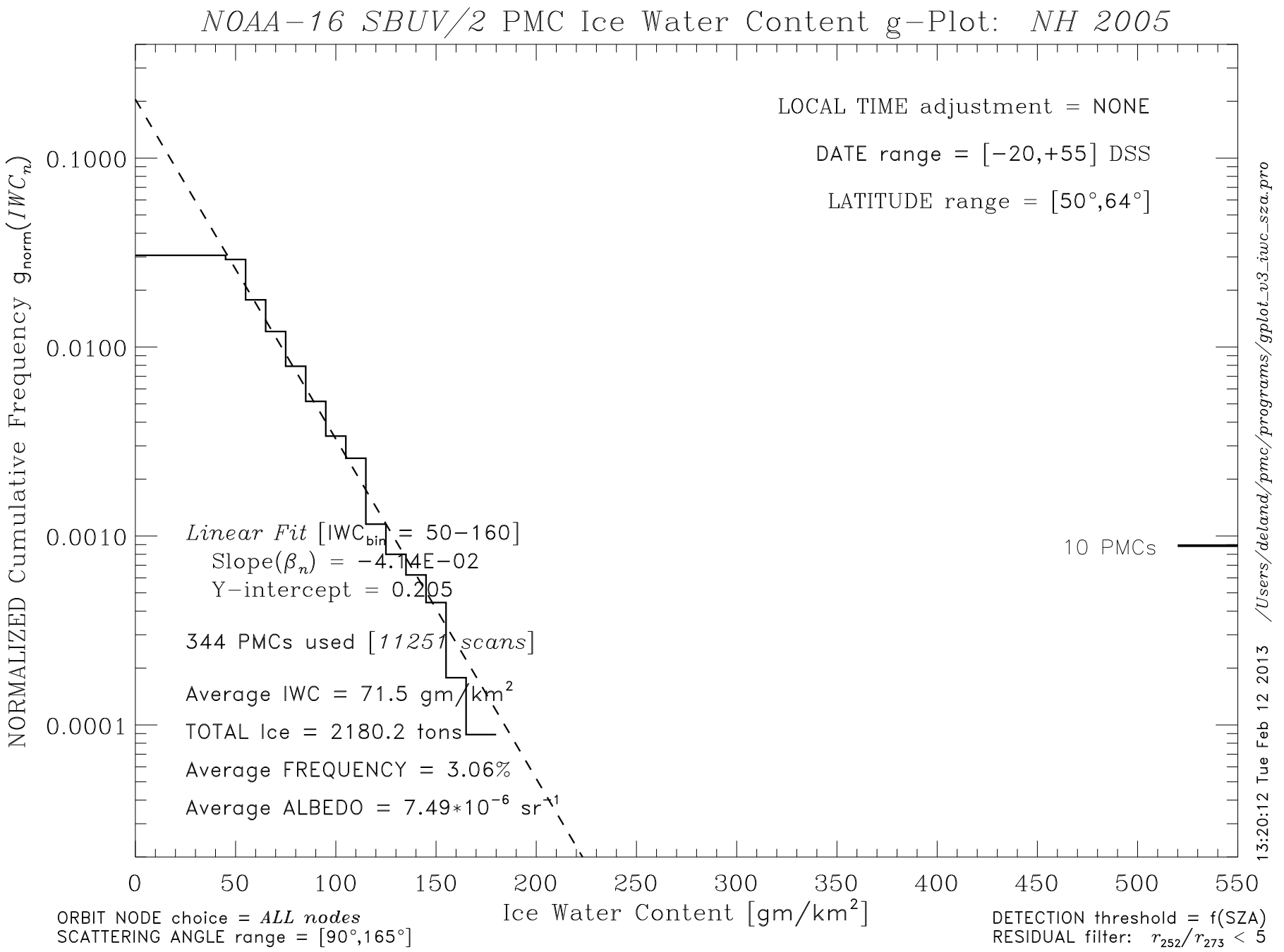

NOAA−14 SBUV/2 PMC Ice Water Content g−Plot: NH 2005
LOCAL TIME adjustment = NONE
DATE range = [−20,+55] DSS
LATITUDE range = [50°,64°]
NORMALIZED Cumulative Frequency $g_{norm}(IWC_n)$
0.1000
0.0100
0.0010
0.0001
Linear Fit [IWC_{bin} = 60−170]
Slope(β_n) = −3.77E−02
Y−intercept = 0.125
253 PMCs used [11839 scans]
Average IWC = 75.6 gm/km^2
TOTAL Ice = 2155.7 tons
Average FREQUENCY = 2.14%
Average ALBEDO = 7.28∗10^{-6} sr^{-1}
10 PMCs
0
50
100
150
200
250
300
350
400
450
500
550
Ice Water Content [gm/km^2]
ORBIT NODE choice = ALL nodes
SCATTERING ANGLE range = [90°,165°]
DETECTION threshold = f(SZA)
RESIDUAL filter: $r_{252}/r_{273} < 5$
13:19:44 Tue Feb 12 2013 /Users/deland/pmc/programs/gplot_v3_iwc_sza.pro

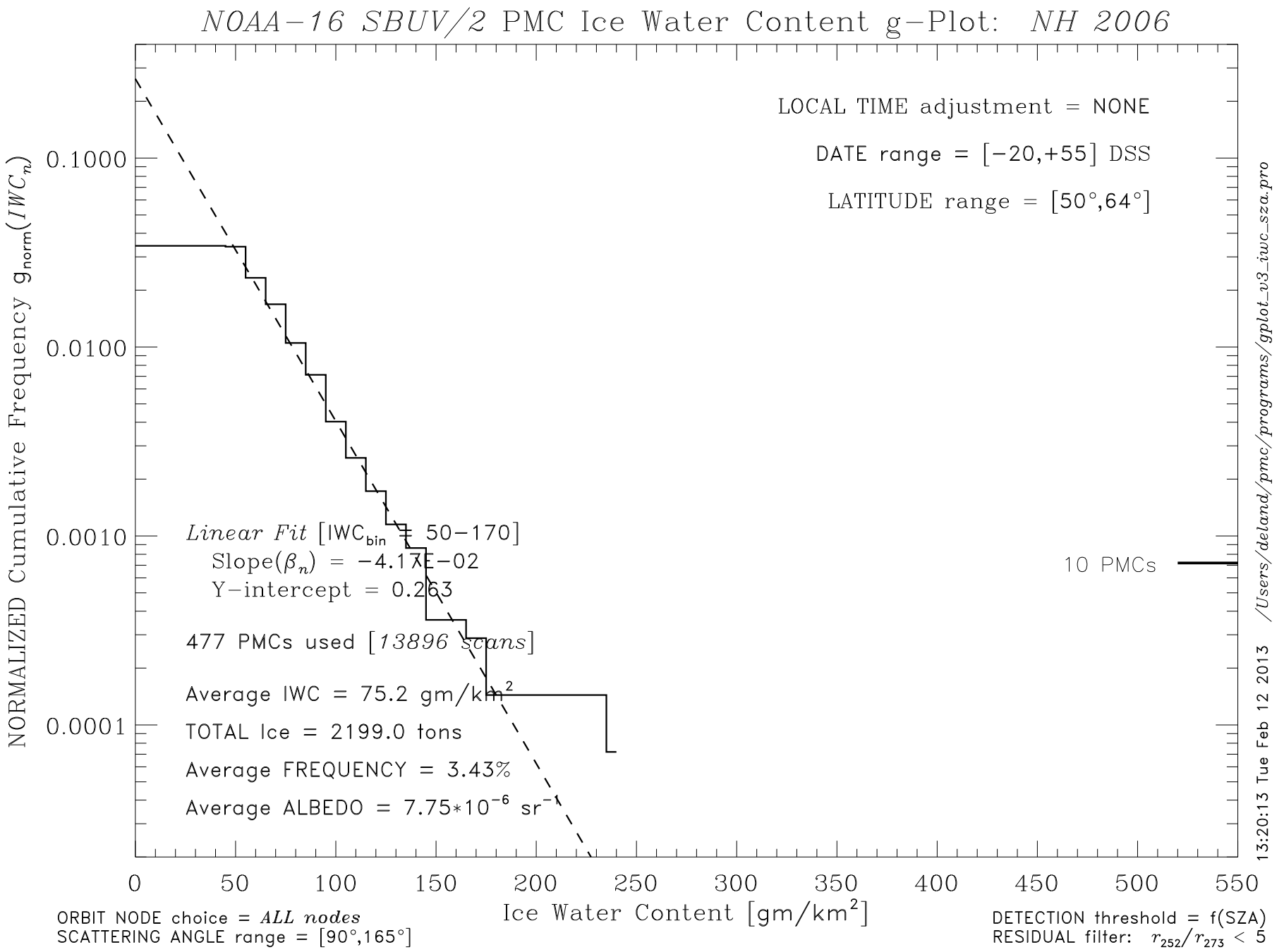

NOAA−14 SBUV/2 PMC Ice Water Content g−Plot: NH 2006
LOCAL TIME adjustment = NONE
DATE range = [−20,+55] DSS
LATITUDE range = [50°,64°]
NORMALIZED Cumulative Frequency $g_{norm}(IWC_n)$
0.1000
0.0100
0.0010
0.0001
Linear Fit [IWC$_{bin}$ = 50−160]
Slope(β_n) = −3.16E−02
Y−intercept = 0.106
212 PMCs used [8445 scans]
Average IWC = 79.9 gm/km^2
TOTAL Ice = 2159.6 tons
Average FREQUENCY = 2.51%
Average ALBEDO = 7.72∗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: $r_{252}/r_{273} < 5$
13:19:44 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 = [50°,64°]
NORMALIZED Cumulative Frequency $g_{norm}(IWC_n)$
0.1000
0.0100
0.0010
0.0001
Linear Fit [IWC_{bin} = 50−180]
Slope(β_n) = −3.13E−02
Y−intercept = 0.062
191 PMCs used [8650 scans]
Average IWC = 71.1 gm/km^2
TOTAL Ice = 2132.9 tons
Average FREQUENCY = 2.21%
Average ALBEDO = 7.17∗10^{-6} sr^{-1}
10 PMCs
0
50
100
150
200
250
300
350
400
450
500
550
Ice Water Content [gm/km^2]
13:19:57 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: $r_{252}/r_{273} < 5$

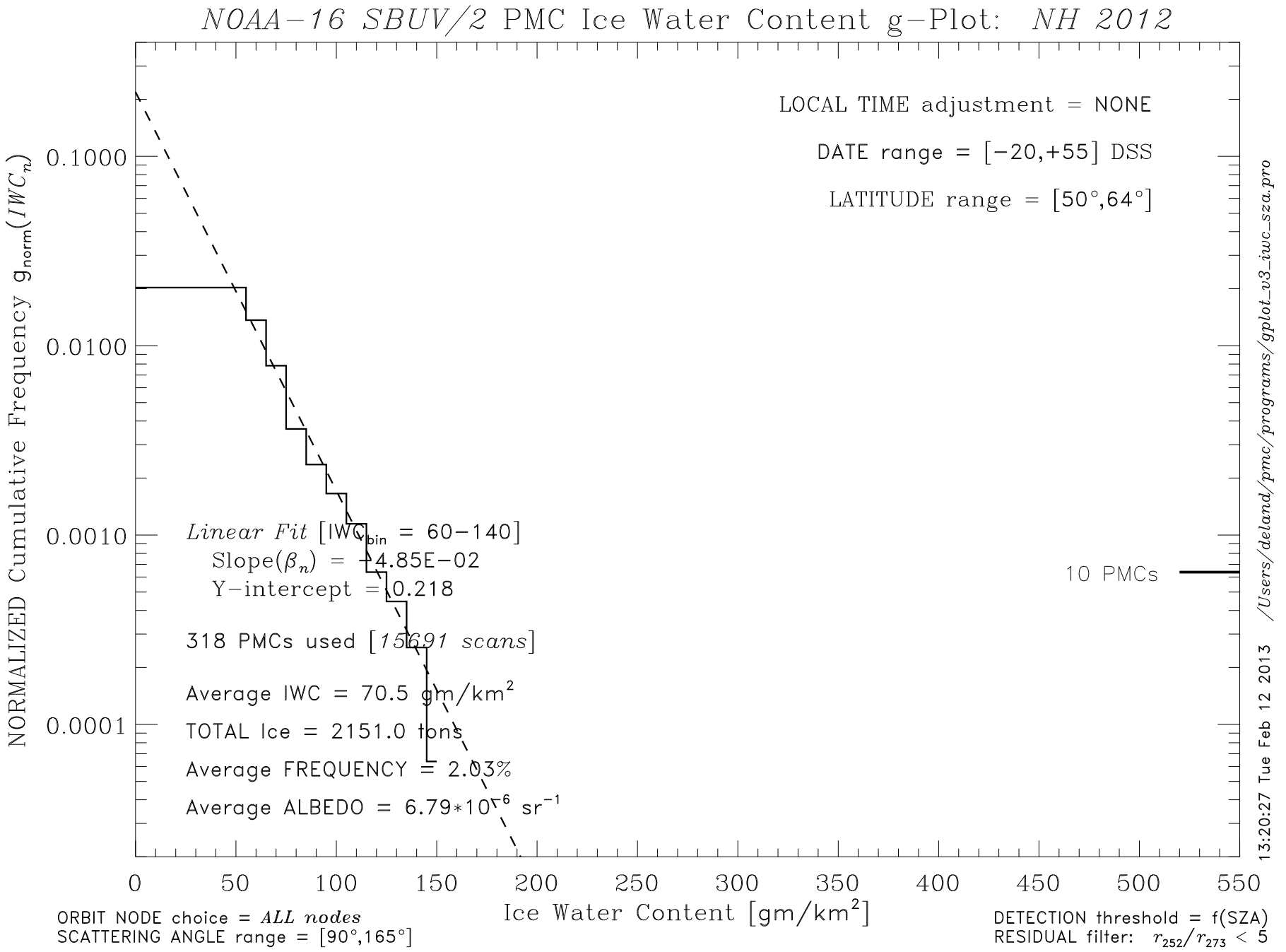

NOAA−16 SBUV/2 PMC Ice Water Content g−Plot: NH 2002
LOCAL TIME adjustment = NONE
DATE range = [−20,+55] DSS
LATITUDE range = [50°,64°]
NORMALIZED Cumulative Frequency $g_{norm}(IWC_n)$
0.1000
0.0100
0.0010
0.0001
Linear Fit [IWC_{bin} = 50−150]
Slope(β_n) = −4.43E−02
Y−intercept = 0.210
271 PMCs used [8634 scans]
Average IWC = 68.1 gm/km^2
TOTAL Ice = 2143.7 tons
Average FREQUENCY = 3.14%
Average ALBEDO = 6.90∗10^{-6} sr^{-1}
10 PMCs
0
50
100
150
200
250
300
350
400
450
500
550
Ice Water Content [gm/km^2]
13:19:58 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: $r_{252}/r_{273} < 5$

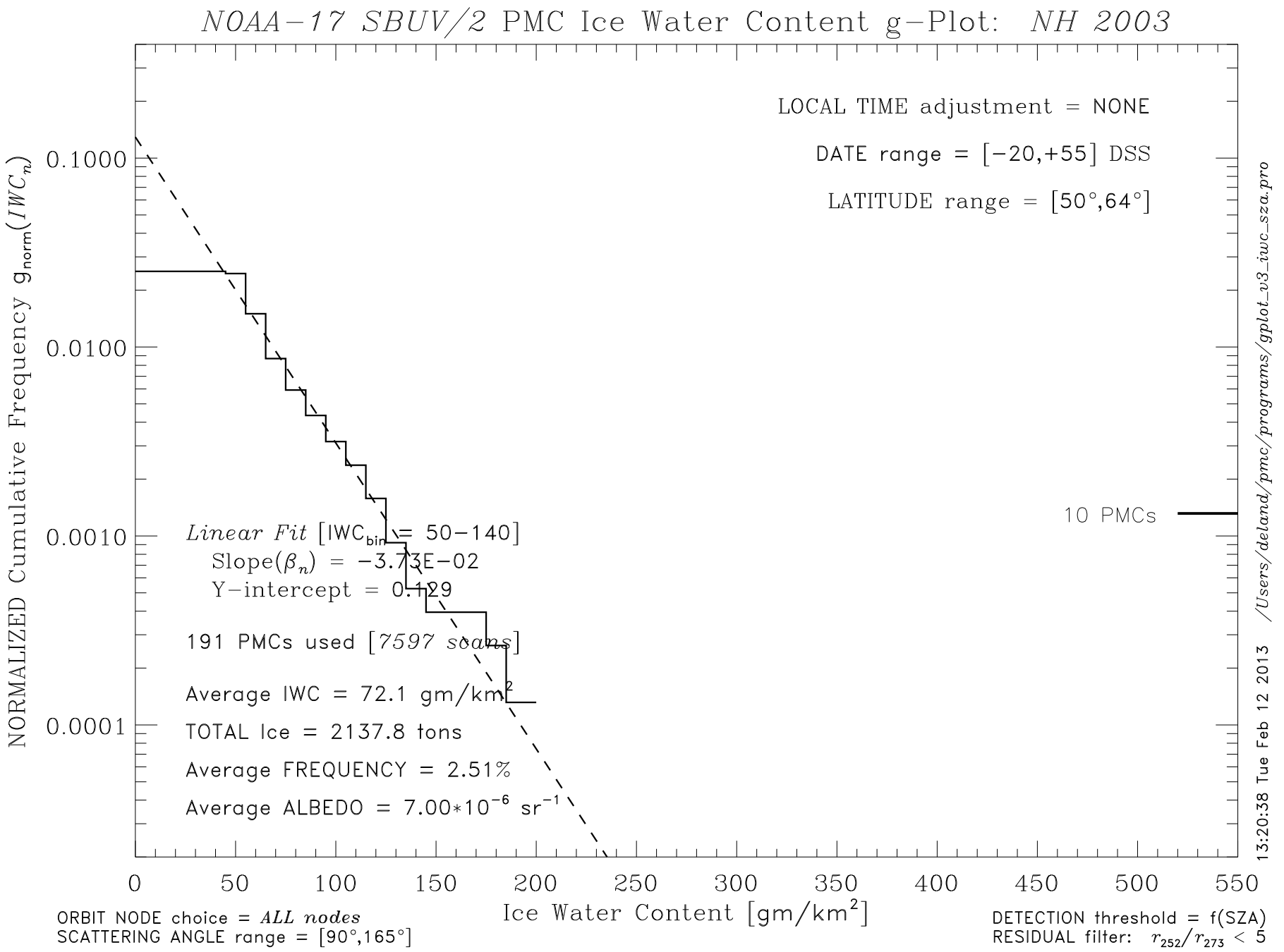
NOAA−16 SBUV/2 PMC Ice Water Content g−Plot: NH 2003
LOCAL TIME adjustment = NONE
DATE range = [−20,+55] DSS
LATITUDE range = [50°,64°]
10 PMCs
Linear Fit [IWC$_{bin}$ = 50−360]
Slope(β_n) = −1.31E−02
Y−intercept = 0.032
353 PMCs used [9062 scans]
Average IWC = 86.5 gm/km^2
TOTAL Ice = 2188.2 tons
Average FREQUENCY = 3.90%
Average ALBEDO = 8.23*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: $r_{252}/r_{273} < 5$
13:19:58 Tue Feb 12 2013 /Users/deland/pmc/programs/gplot_v3_iwc_sza.pro


NOAA−16 SBUV/2 PMC Ice Water Content g−Plot: NH 2005
LOCAL TIME adjustment = NONE
DATE range = [−20,+55] DSS
LATITUDE range = [50°,64°]
NORMALIZED Cumulative Frequency $g_{norm}(IWC_n)$
0.1000
0.0100
0.0010
0.0001
Linear Fit [IWC_{bin} = 50−160]
Slope(β_n) = −4.14E−02
Y−intercept = 0.205
344 PMCs used [11251 scans]
Average IWC = 71.5 gm/km^2
TOTAL Ice = 2180.2 tons
Average FREQUENCY = 3.06%
Average ALBEDO = 7.49∗10^{-6} sr^{-1}
10 PMCs
0
50
100
150
200
250
300
350
400
450
500
550
Ice Water Content [gm/km^2]
13:20:12 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 2006
LOCAL TIME adjustment = NONE
DATE range = [−20,+55] DSS
LATITUDE range = [50°,64°]
NORMALIZED Cumulative Frequency $g_{norm}(IWC_n)$
0.1000
0.0100
0.0010
0.0001
Linear Fit [IWC_{bin} = 50−170]
Slope(β_n) = −4.17E−02
Y−intercept = 0.263
477 PMCs used [13896 scans]
Average IWC = 75.2 gm/km^2
TOTAL Ice = 2199.0 tons
Average FREQUENCY = 3.43%
Average ALBEDO = 7.75∗10^{-6} sr^{-1}
10 PMCs
0
50
100
150
200
250
300
350
400
450
500
550
Ice Water Content [gm/km^2]
13:20:13 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 2007
LOCAL TIME adjustment = NONE
DATE range = [−20,+55] DSS
LATITUDE range = [50°,64°]
10 PMCs
Linear Fit [IWC$_{bin}$ = 60−210]
Slope(β_n) = −2.93E−02
Y−intercept = 0.085
465 PMCs used [16103 scans]
Average IWC = 78.8 gm/km^2
TOTAL Ice = 2176.3 tons
Average FREQUENCY = 2.89%
Average ALBEDO = 7.69*10^{-6} sr^{-1}
NORMALIZED Cumulative Frequency g$_{norm}$(IWC_n)
0.1000
0.0100
0.0010
0.0001
0
50
100
150
200
250
300
350
400
450
500
550
Ice Water Content [gm/km^2]
ORBIT NODE choice = ALL nodes
SCATTERING ANGLE range = [90°,165°]
DETECTION threshold = f(SZA)
RESIDUAL filter: $r_{252}/r_{273} < 5$
13:20:14 Tue Feb 12 2013 /Users/deland/pmc/programs/gplot_v3_iwc_sza.pro

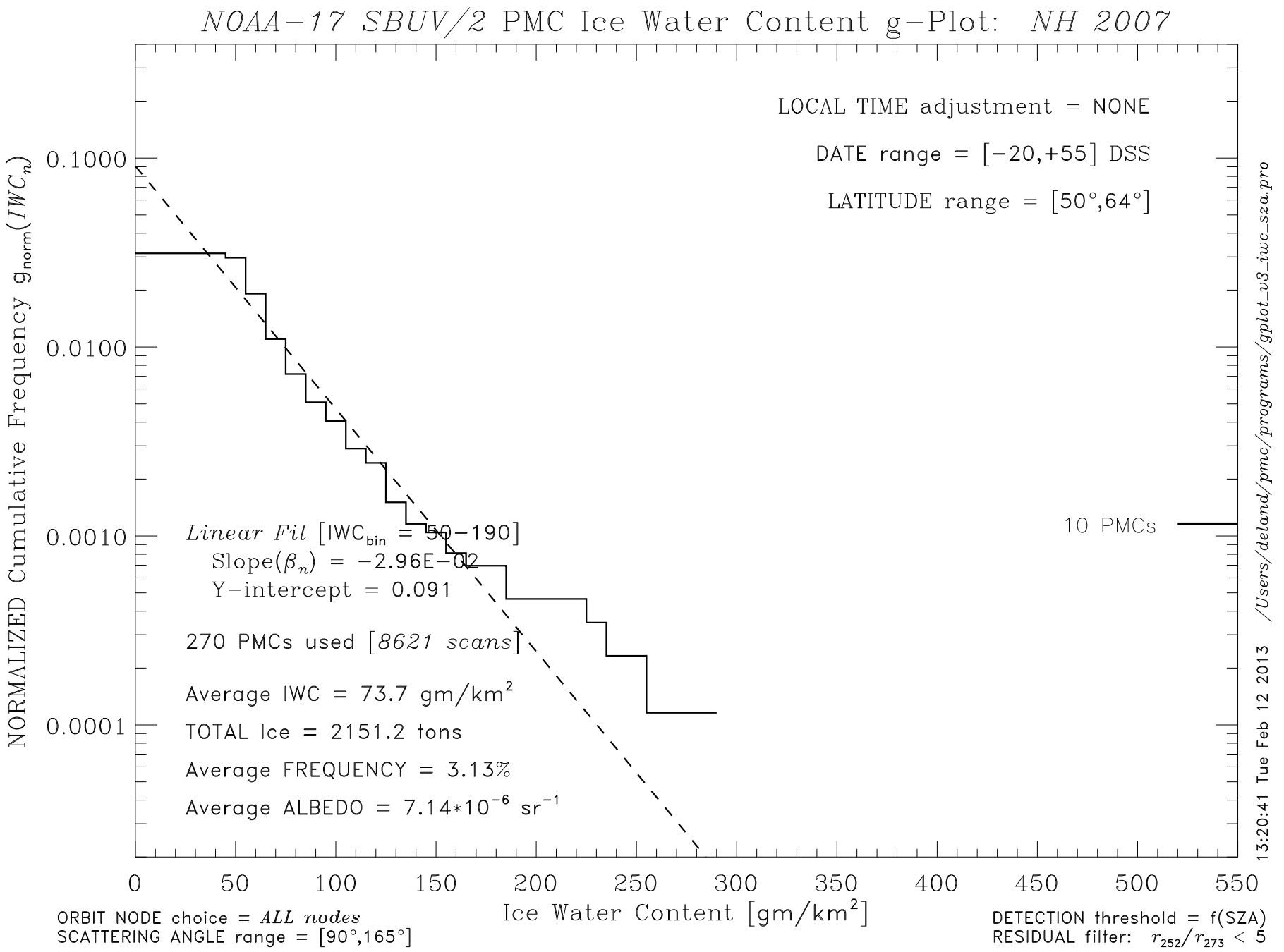

NOAA−16 SBUV/2 PMC Ice Water Content g−Plot: NH 2012
LOCAL TIME adjustment = NONE
DATE range = [−20,+55] DSS
LATITUDE range = [50°,64°]
NORMALIZED Cumulative Frequency $g_{norm}(IWC_n)$
0.1000
0.0100
0.0010
0.0001
Linear Fit [IWC_{bin} = 60−140]
Slope(β_n) = −4.85E−02
Y−intercept = 0.218
318 PMCs used [15691 scans]
Average IWC = 70.5 gm/km^2
TOTAL Ice = 2151.0 tons
Average FREQUENCY = 2.03%
Average ALBEDO = 6.79∗10^{-6} sr^{-1}
10 PMCs
0
50
100
150
200
250
300
350
400
450
500
550
Ice Water Content [gm/km^2]
13:20:27 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: $r_{252}/r_{273} < 5$

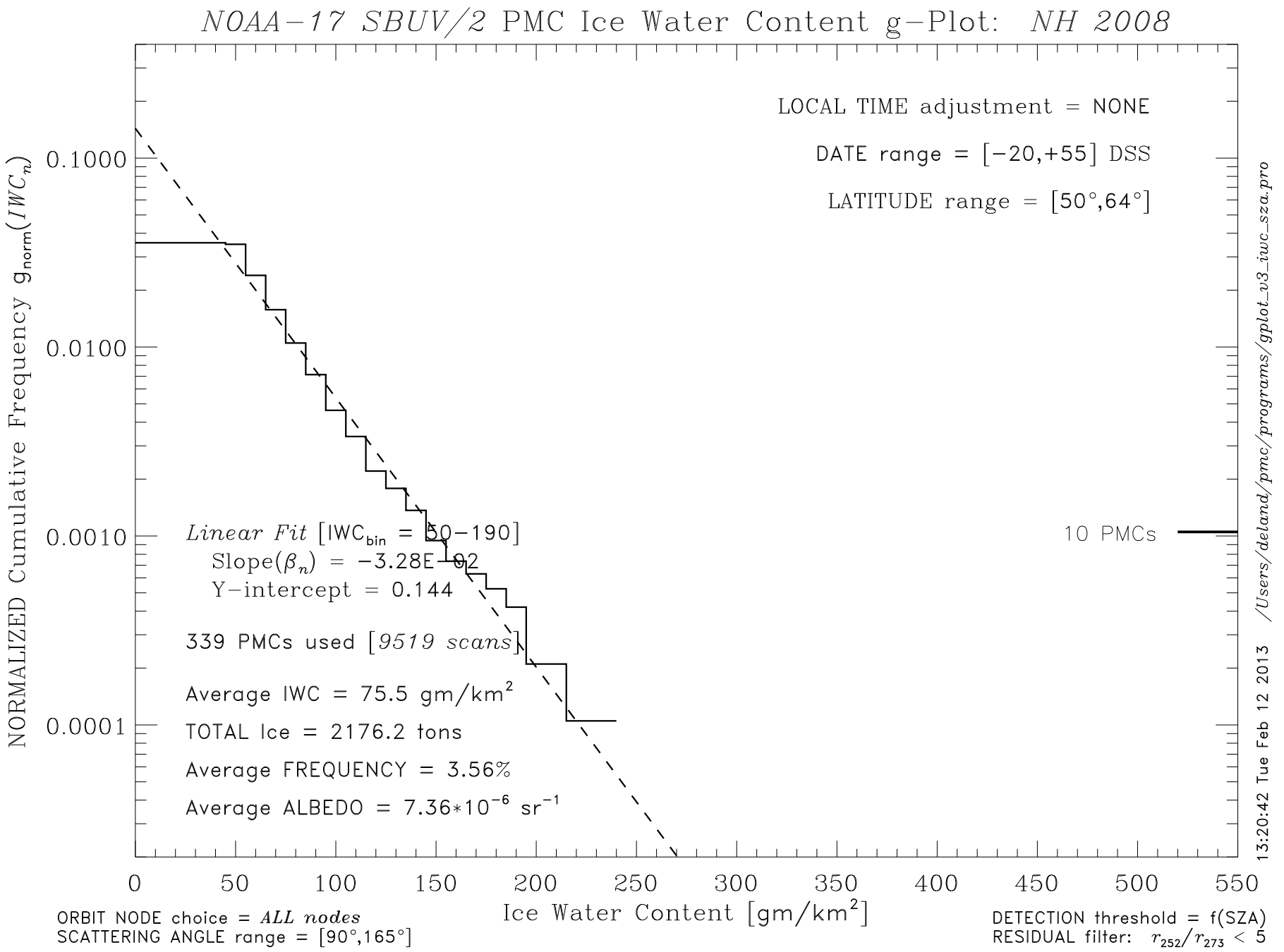

NOAA−17 SBUV/2 PMC Ice Water Content g−Plot: NH 2003
LOCAL TIME adjustment = NONE
DATE range = [−20,+55] DSS
LATITUDE range = [50°,64°]
10 PMCs
Linear Fit [IWC_bin = 50−140]
Slope(β_n) = −3.73E−02
Y−intercept = 0.129
191 PMCs used [7597 scans]
Average IWC = 72.1 gm/km²
TOTAL Ice = 2137.8 tons
Average FREQUENCY = 2.51%
Average ALBEDO = 7.00*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
13:20:38 Tue Feb 12 2013 /Users/deland/pmc/programs/gplot_v3_iwc_sza.pro

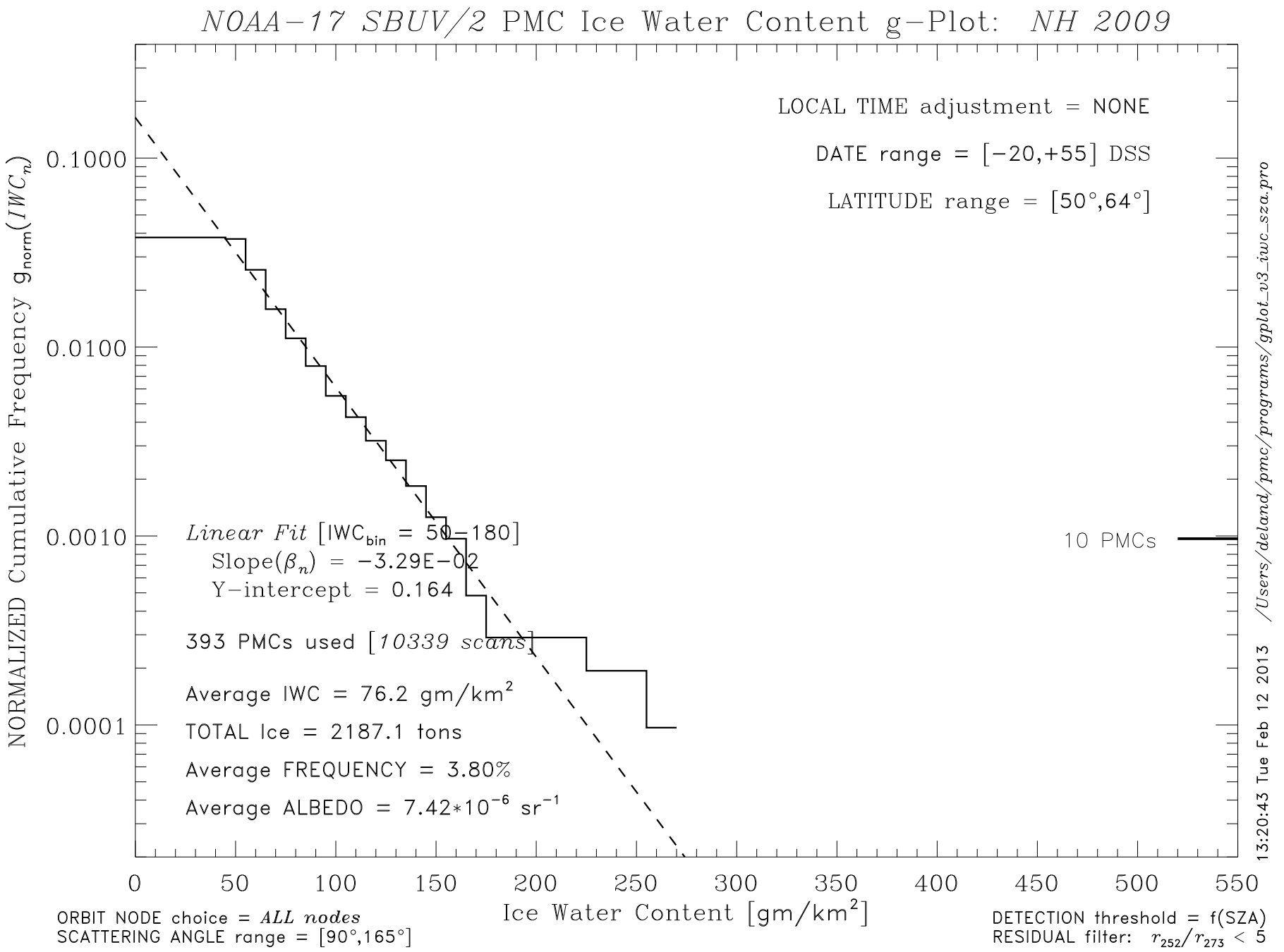
NOAA−17 SBUV/2 PMC Ice Water Content g−Plot: NH 2004
LOCAL TIME adjustment = NONE
DATE range = [−20,+55] DSS
LATITUDE range = [50°,64°]
10 PMCs
Linear Fit [IWC$_{bin}$ = 50−200]
Slope(β_n) = −2.86E−02
Y−intercept = 0.072
206 PMCs used [7386 scans]
Average IWC = 75.5 gm/km^2
TOTAL Ice = 2139.3 tons
Average FREQUENCY = 2.79%
Average ALBEDO = 7.25*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/km^2]
ORBIT NODE choice = ALL nodes
SCATTERING ANGLE range = [90°,165°]
DETECTION threshold = f(SZA)
RESIDUAL filter: r$_{252}$/r$_{273}$ < 5
13:20:39 Tue Feb 12 2013 /Users/deland/pmc/programs/gplot_v3_iwc_sza.pro

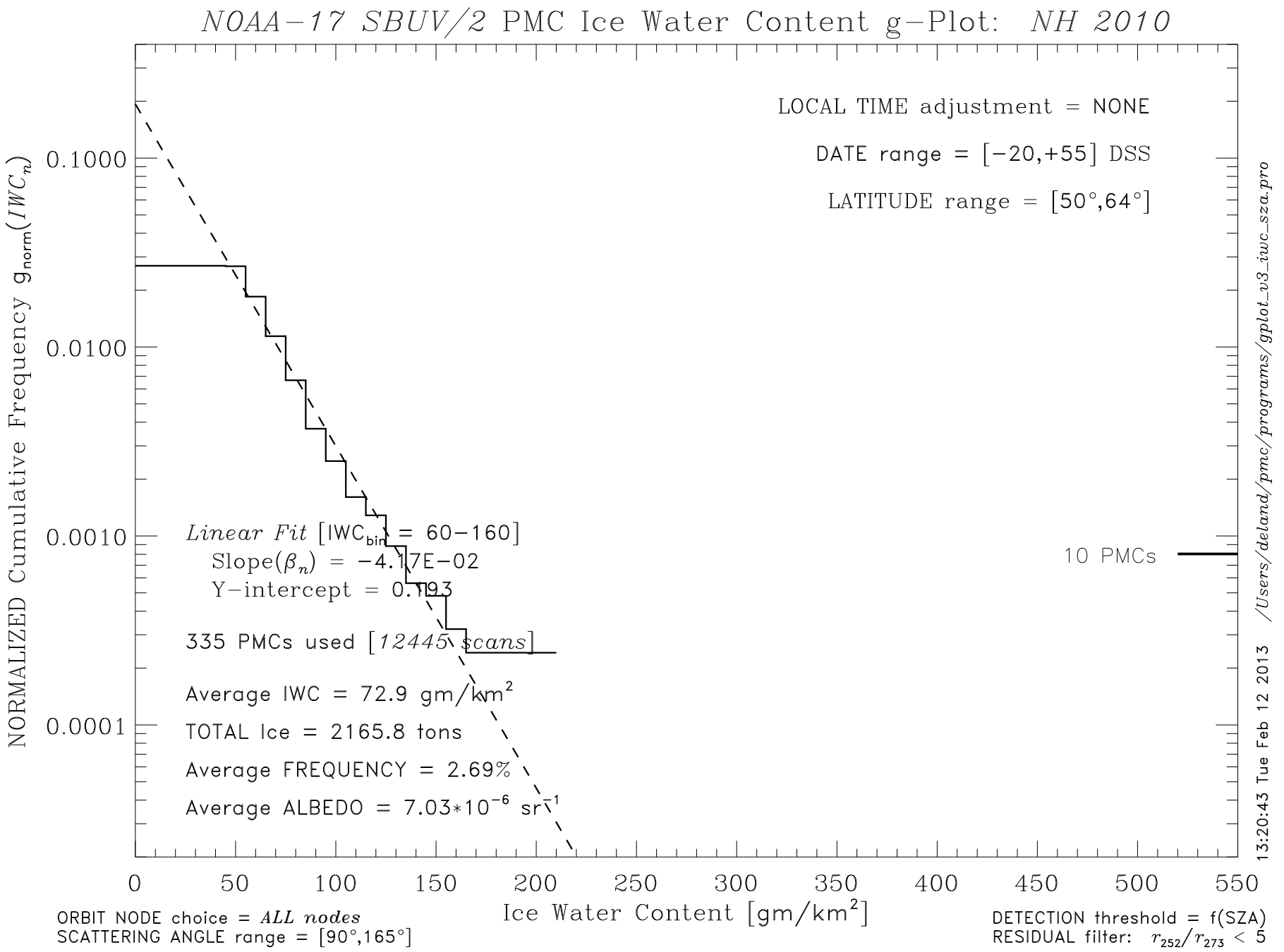
NOAA−17 SBUV/2 PMC Ice Water Content g−Plot: NH 2005
LOCAL TIME adjustment = NONE
DATE range = [−20,+55] DSS
LATITUDE range = [50°,64°]
10 PMCs
Linear Fit [IWC$_{bin}$ = 50−200]
Slope(β_n) = −2.73E−02
Y−intercept = 0.076
229 PMCs used [7973 scans]
Average IWC = 76.6 gm/km^2
TOTAL Ice = 2147.0 tons
Average FREQUENCY = 2.87%
Average ALBEDO = 7.37*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: $r_{252}/r_{273} < 5$
13:20:40 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 = [50°,64°]
10 PMCs
Linear Fit [IWC$_{bin}$ = 50−180]
Slope(β_n) = −3.33E−02
Y−intercept = 0.167
326 PMCs used [8348 scans]
Average IWC = 76.3 gm/km^2
TOTAL Ice = 2180.2 tons
Average FREQUENCY = 3.91%
Average ALBEDO = 7.42*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/km^2]
ORBIT NODE choice = ALL nodes
SCATTERING ANGLE range = [90°,165°]
DETECTION threshold = f(SZA)
RESIDUAL filter: $r_{252}/r_{273} < 5$
13:20:40 Tue Feb 12 2013 /Users/deland/pmc/programs/gplot_v3_iwc_sza.pro

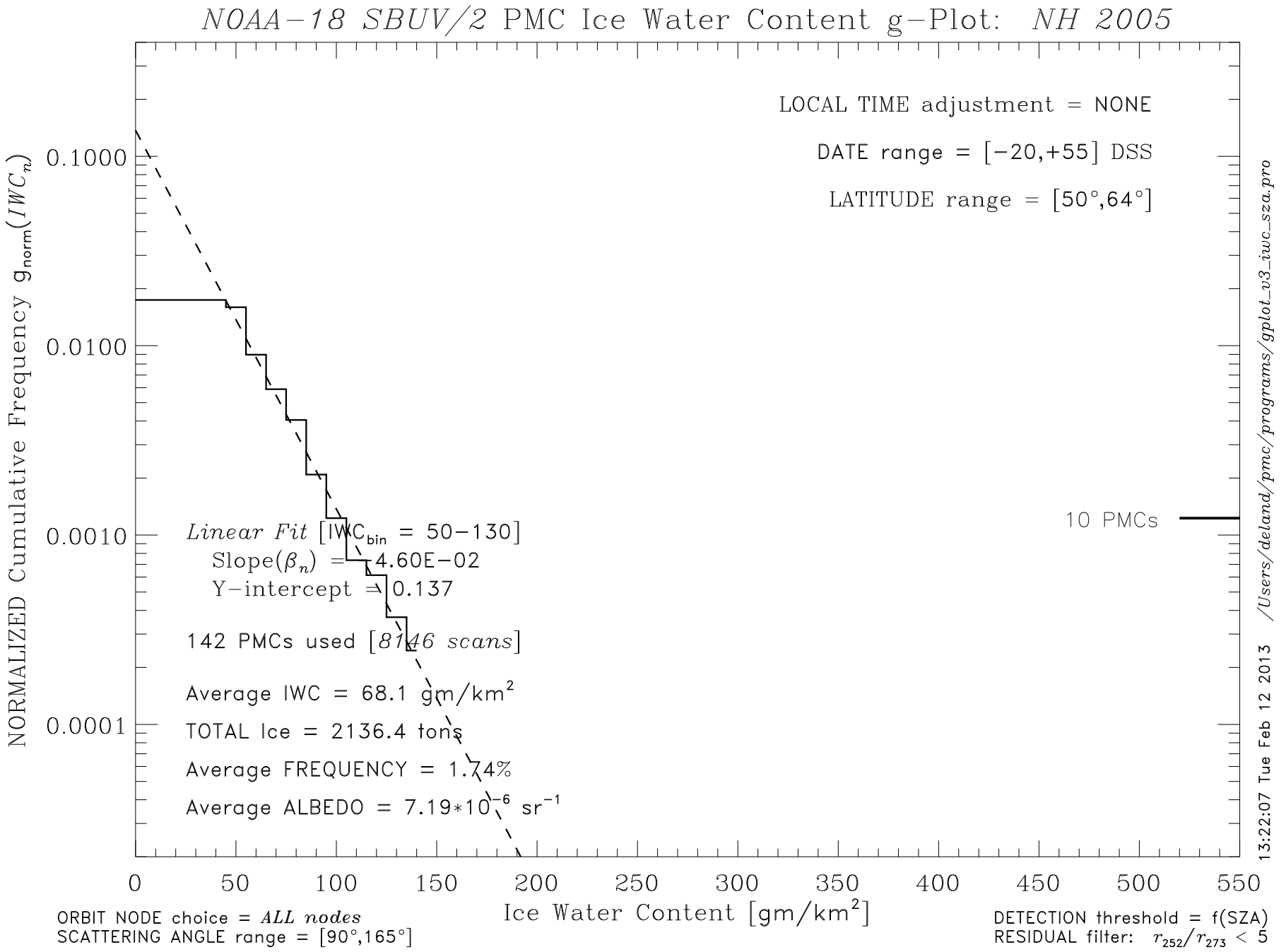

NOAA−17 SBUV/2 PMC Ice Water Content g−Plot: NH 2007
LOCAL TIME adjustment = NONE
DATE range = [−20,+55] DSS
LATITUDE range = [50°,64°]
NORMALIZED Cumulative Frequency $g_{norm}(IWC_n)$
0.1000
0.0100
0.0010
0.0001
Linear Fit [IWC$_{bin}$ = 50−190]
Slope(β_n) = −2.96E−02
Y−intercept = 0.091
270 PMCs used [8621 scans]
Average IWC = 73.7 gm/km^2
TOTAL Ice = 2151.2 tons
Average FREQUENCY = 3.13%
Average ALBEDO = 7.14∗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: $r_{252}/r_{273} < 5$
13:20:41 Tue Feb 12 2013 /Users/deland/pmc/programs/gplot_v3_iwc_sza.pro

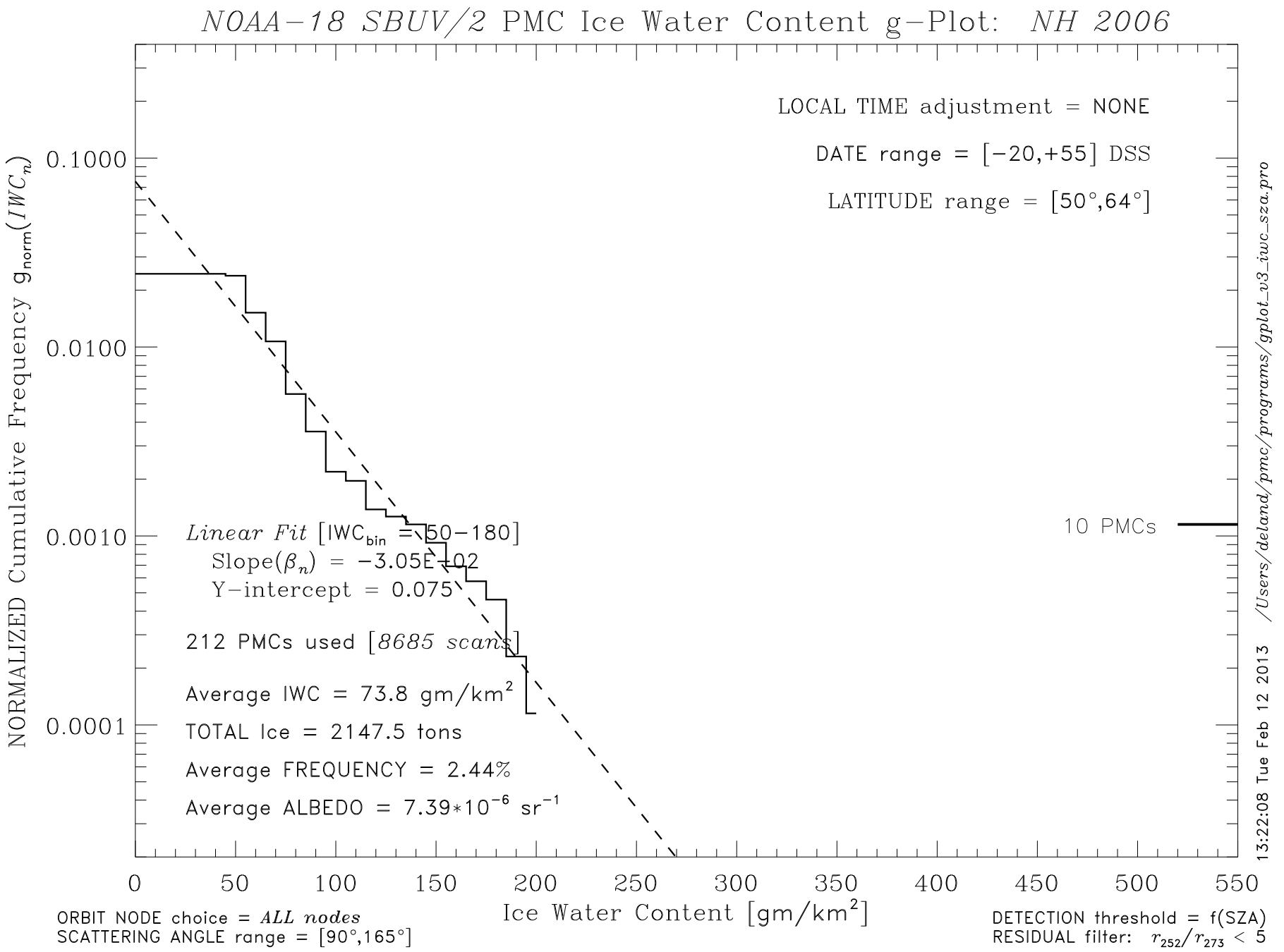

NOAA−17 SBUV/2 PMC Ice Water Content g−Plot: NH 2008
LOCAL TIME adjustment = NONE
DATE range = [−20,+55] DSS
LATITUDE range = [50°,64°]
NORMALIZED Cumulative Frequency $g_{norm}(IWC_n)$
0.1000
0.0100
0.0010
0.0001
Linear Fit [IWC$_{bin}$ = 50−190]
Slope(β_n) = −3.28E−02
Y−intercept = 0.144
339 PMCs used [9519 scans]
Average IWC = 75.5 gm/km^2
TOTAL Ice = 2176.2 tons
Average FREQUENCY = 3.56%
Average ALBEDO = 7.36∗10^{-6} sr^{-1}
10 PMCs
0
50
100
150
200
250
300
350
400
450
500
550
Ice Water Content [gm/km^2]
13:20:42 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 2009
LOCAL TIME adjustment = NONE
DATE range = [−20,+55] DSS
LATITUDE range = [50°,64°]
NORMALIZED Cumulative Frequency $g_{norm}(IWC_n)$
0.1000
0.0100
0.0010
0.0001
Linear Fit [IWC$_{bin}$ = 50−180]
Slope(β_n) = −3.29E−02
Y−intercept = 0.164
393 PMCs used [10339 scans]
Average IWC = 76.2 gm/km^2
TOTAL Ice = 2187.1 tons
Average FREQUENCY = 3.80%
Average ALBEDO = 7.42∗10^{-6} sr^{-1}
10 PMCs
0
50
100
150
200
250
300
350
400
450
500
550
Ice Water Content [gm/km^2]
ORBIT NODE choice = ALL nodes
SCATTERING ANGLE range = [90°,165°]
DETECTION threshold = f(SZA)
RESIDUAL filter: $r_{252}/r_{273} < 5$
13:20:43 Tue Feb 12 2013 /Users/deland/pmc/programs/gplot_v3_iwc_sza.pro

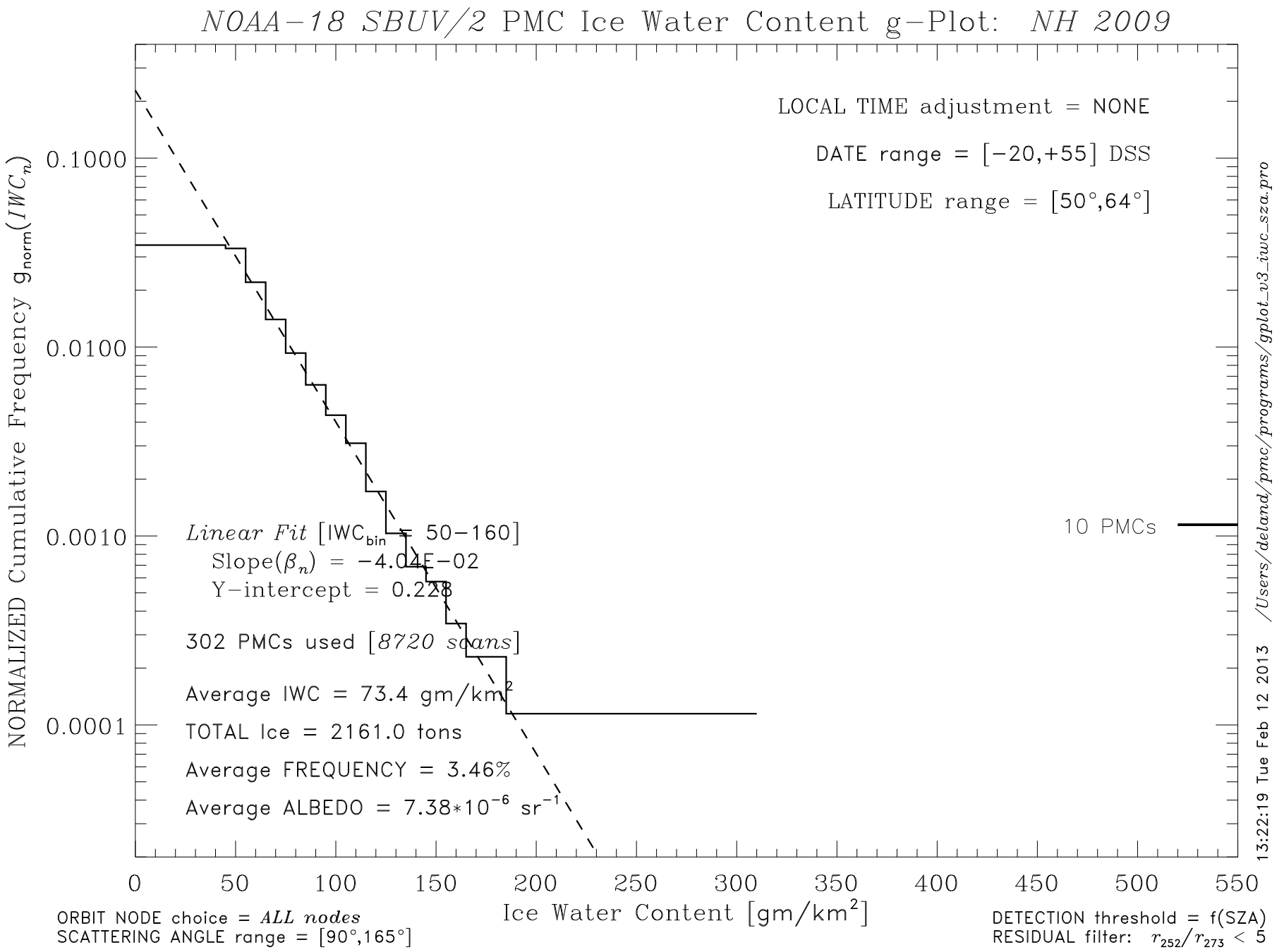

NOAA−17 SBUV/2 PMC Ice Water Content g−Plot: NH 2010
LOCAL TIME adjustment = NONE
DATE range = [−20,+55] DSS
LATITUDE range = [50°,64°]
NORMALIZED Cumulative Frequency $g_{norm}(IWC_n)$
0.1000
0.0100
0.0010
0.0001
Linear Fit [IWC_{bin} = 60−160]
Slope(β_n) = −4.17E−02
Y−intercept = 0.1193
335 PMCs used [12445 scans]
Average IWC = 72.9 gm/km^2
TOTAL Ice = 2165.8 tons
Average FREQUENCY = 2.69%
Average ALBEDO = 7.03∗10^{-6} sr^{-1}
10 PMCs
0
50
100
150
200
250
300
350
400
450
500
550
Ice Water Content [gm/km^2]
13:20:43 Tue Feb 12 2013 /Users/deland/pmc/programs/gplot_v3_iwc_sza.pro
ORBIT NODE choice = ALL nodes
SCATTERING ANGLE range = [90°,165°]
DETECTION threshold = f(SZA)
RESIDUAL filter: $r_{252}/r_{273} < 5$

NOAA−17 SBUV/2 PMC Ice Water Content g−Plot: NH 2011
LOCAL TIME adjustment = NONE
DATE range = [−20,+55] DSS
LATITUDE range = [50°,64°]
10 PMCs
Linear Fit [IWC$_{bin}$] = 60−160]
Slope(β_n) = −4.03E−02
Y−intercept = 0.1444
283 PMCs used [15100 scans]
Average IWC = 76.1 gm/km^2
TOTAL Ice = 2158.3 tons
Average FREQUENCY = 1.87%
Average ALBEDO = 7.26*10^{-6} sr^{-1}
NORMALIZED Cumulative Frequency g$_{norm}$(IWC$_n$)
0.1000
0.0100
0.0010
0.0001
0
50
100
150
200
250
300
350
400
450
500
550
Ice Water Content [gm/km^2]
ORBIT NODE choice = ALL nodes
SCATTERING ANGLE range = [90°,165°]
DETECTION threshold = f(SZA)
RESIDUAL filter: $r_{252}/r_{273} < 5$
13:20:44 Tue Feb 12 2013 /Users/deland/pmc/programs/gplot_v3_iwc_sza.pro

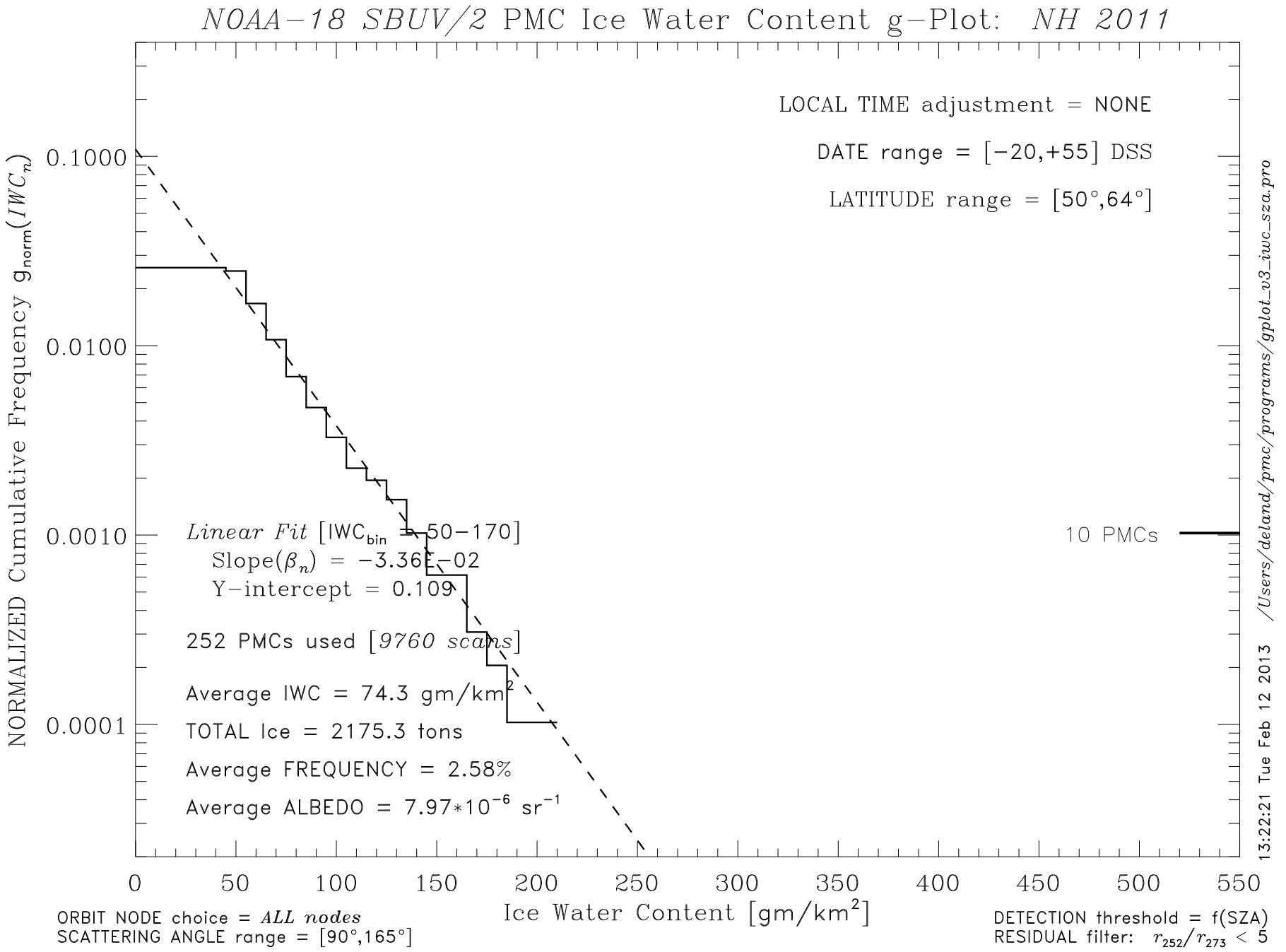

NOAA−18 SBUV/2 PMC Ice Water Content g−Plot: NH 2005
LOCAL TIME adjustment = NONE
DATE range = [−20,+55] DSS
LATITUDE range = [50°,64°]
NORMALIZED Cumulative Frequency $g_{norm}(IWC_n)$
0.1000
0.0100
0.0010
0.0001
10 PMCs
Linear Fit [IWC_{bin} = 50−130]
Slope(β_n) = −4.60E−02
Y−intercept = 0.137
142 PMCs used [8146 scans]
Average IWC = 68.1 gm/km^2
TOTAL Ice = 2136.4 tons
Average FREQUENCY = 1.74%
Average ALBEDO = 7.19∗10^{-6} sr^{-1}
0
50
100
150
200
250
300
350
400
450
500
550
Ice Water Content [gm/km^2]
13:22:07 Tue Feb 12 2013 /Users/deland/pmc/programs/gplot_v3_iwc_sza.pro
ORBIT NODE choice = ALL nodes
SCATTERING ANGLE range = [90°,165°]
DETECTION threshold = f(SZA)
RESIDUAL filter: $r_{252}/r_{273} < 5$


NOAA−18 SBUV/2 PMC Ice Water Content g−Plot: NH 2006
LOCAL TIME adjustment = NONE
DATE range = [−20,+55] DSS
LATITUDE range = [50°,64°]
NORMALIZED Cumulative Frequency $g_{norm}(IWC_n)$
0.1000
0.0100
0.0010
0.0001
Linear Fit [IWC_bin = 50−180]
Slope(β_n) = −3.05E−02
Y−intercept = 0.075
212 PMCs used [8685 scans]
Average IWC = 73.8 gm/km^2
TOTAL Ice = 2147.5 tons
Average FREQUENCY = 2.44%
Average ALBEDO = 7.39∗10^{-6} sr^{-1}
10 PMCs
0
50
100
150
200
250
300
350
400
450
500
550
Ice Water Content [gm/km^2]
13:22:08 Tue Feb 12 2013 /Users/deland/pmc/programs/gplot_v3_iwc_sza.pro
ORBIT NODE choice = ALL nodes
SCATTERING ANGLE range = [90°,165°]
DETECTION threshold = f(SZA)
RESIDUAL filter: $r_{252}/r_{273} < 5$

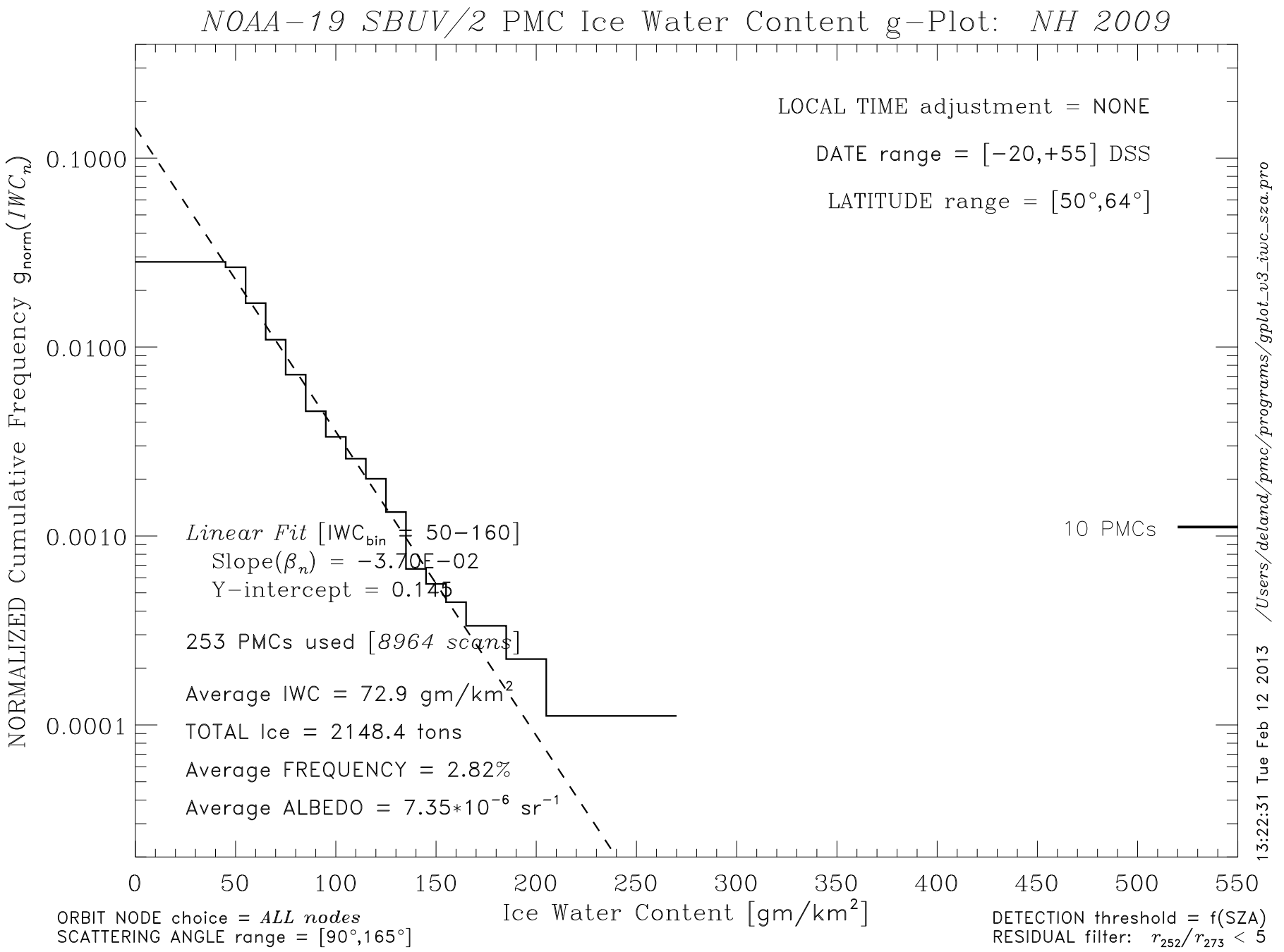
NOAA−18 SBUV/2 PMC Ice Water Content g−Plot: NH 2007
LOCAL TIME adjustment = NONE
DATE range = [−20,+55] DSS
LATITUDE range = [50°,64°]
10 PMCs
Linear Fit [IWC_bin = 50−140]
Slope(β_n) = −4.14E−02
Y−intercept = 0.120
176 PMCs used [8476 scans]
Average IWC = 68.9 gm/km²
TOTAL Ice = 2119.9 tons
Average FREQUENCY = 2.08%
Average ALBEDO = 6.97*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
13:22:09 Tue Feb 12 2013 /Users/deland/pmc/programs/gplot_v3_iwc_sza.pro

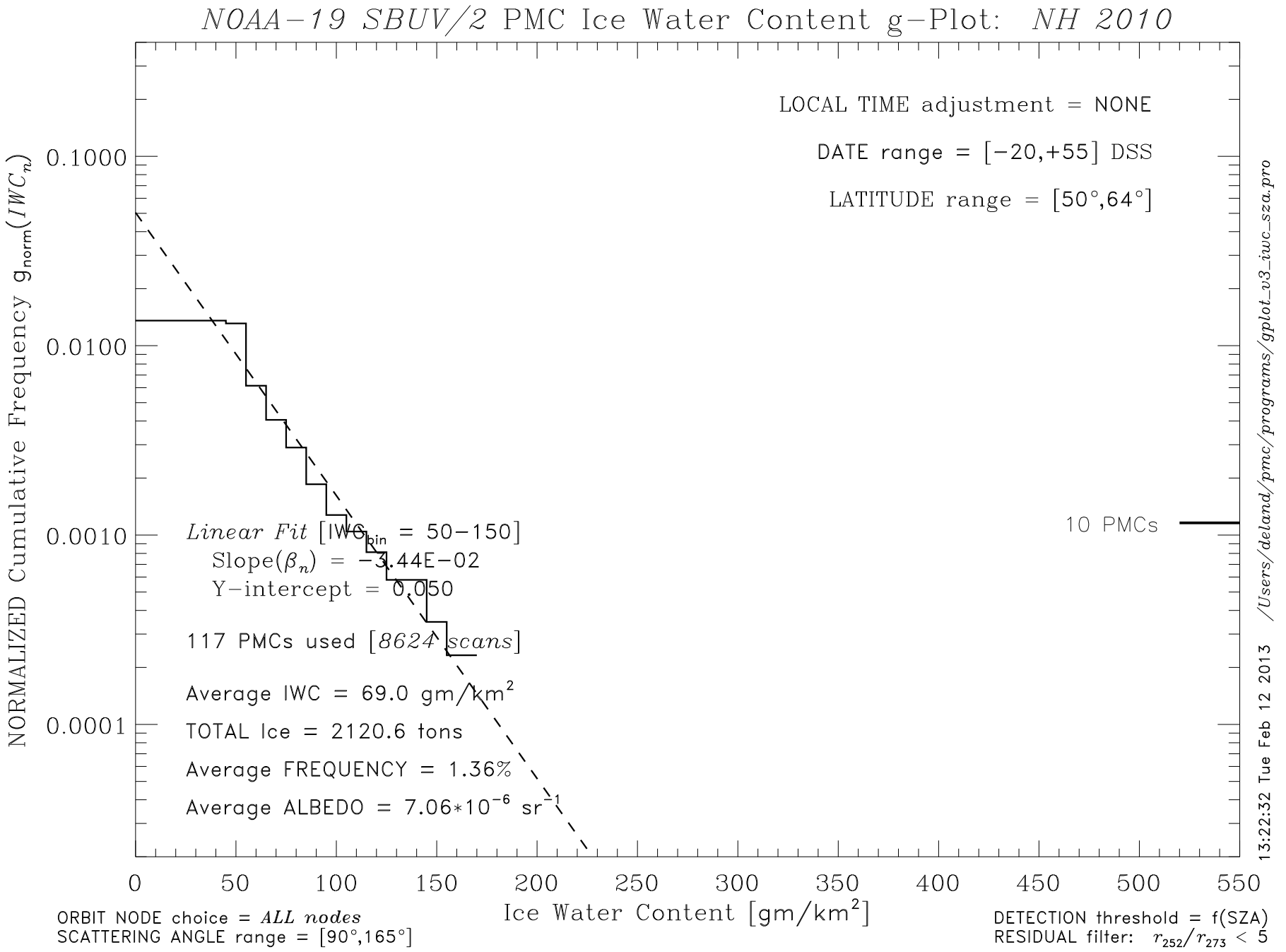

NOAA−18 SBUV/2 PMC Ice Water Content g−Plot: NH 2009
LOCAL TIME adjustment = NONE
DATE range = [−20,+55] DSS
LATITUDE range = [50°,64°]
NORMALIZED Cumulative Frequency $g_{norm}(IWC_n)$
0.1000
0.0100
0.0010
0.0001
Linear Fit [IWC$_{bin}$ = 50−160]
Slope(β_n) = −4.04E−02
Y−intercept = 0.228
302 PMCs used [8720 scans]
Average IWC = 73.4 gm/km^2
TOTAL Ice = 2161.0 tons
Average FREQUENCY = 3.46%
Average ALBEDO = 7.38∗10^{-6} sr^{-1}
10 PMCs
0
50
100
150
200
250
300
350
400
450
500
550
Ice Water Content [gm/km^2]
13:22:19 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: $r_{252}/r_{273} < 5$

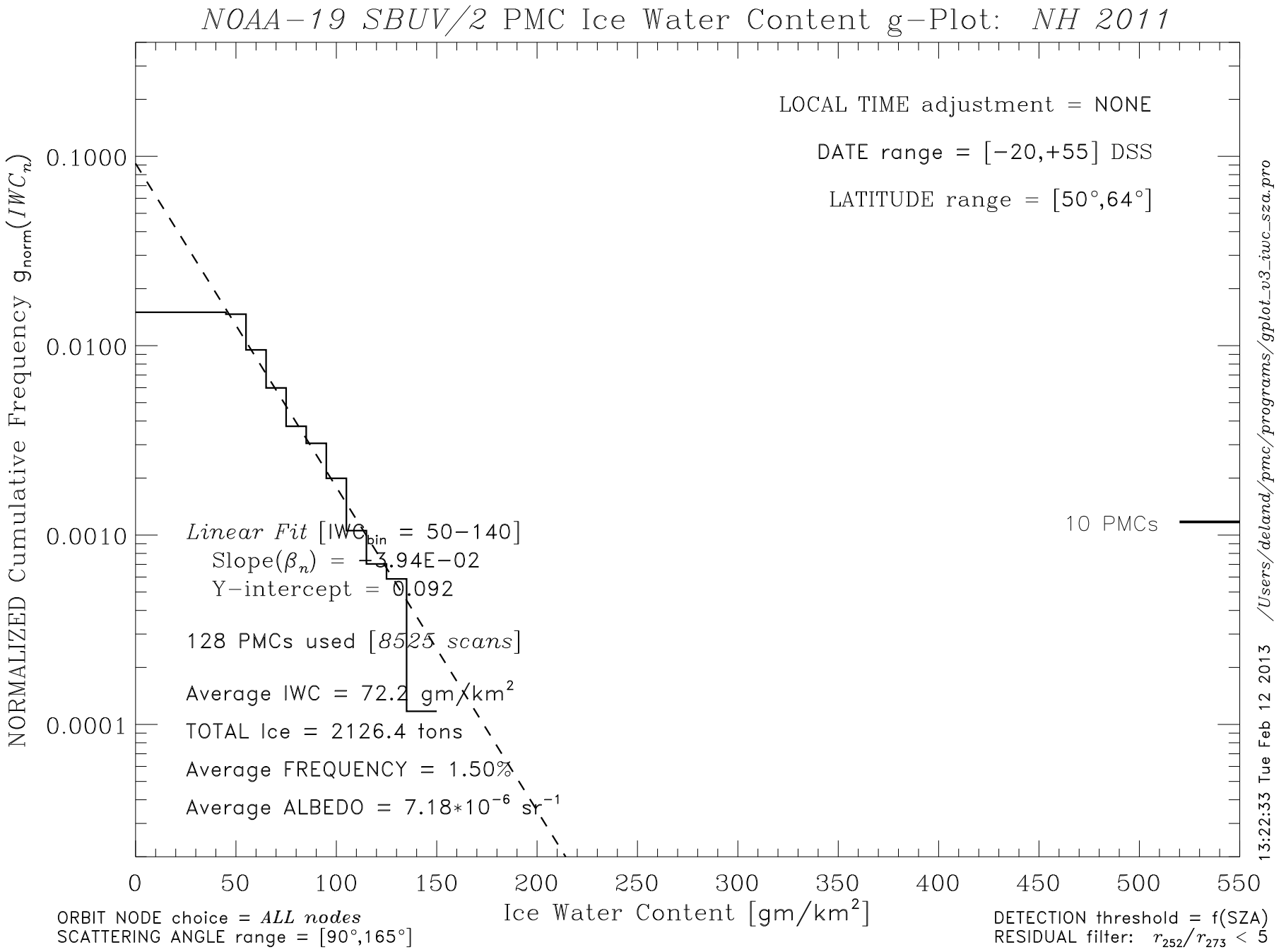
NOAA−18 SBUV/2 PMC Ice Water Content g−Plot: NH 2010
LOCAL TIME adjustment = NONE
DATE range = [−20,+55] DSS
LATITUDE range = [50°,64°]
10 PMCs
Linear Fit [IWC = 50−140]
Slope(β_n) = −3.83E−02
Y−intercept = 0.094
168 PMCs used [8798 scans]
Average IWC = 71.1 gm/km²
TOTAL Ice = 2139.6 tons
Average FREQUENCY = 1.91%
Average ALBEDO = 7.33*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
13:22:20 Tue Feb 12 2013 /Users/deland/pmc/programs/gplot_v3_iwc_sza.pro

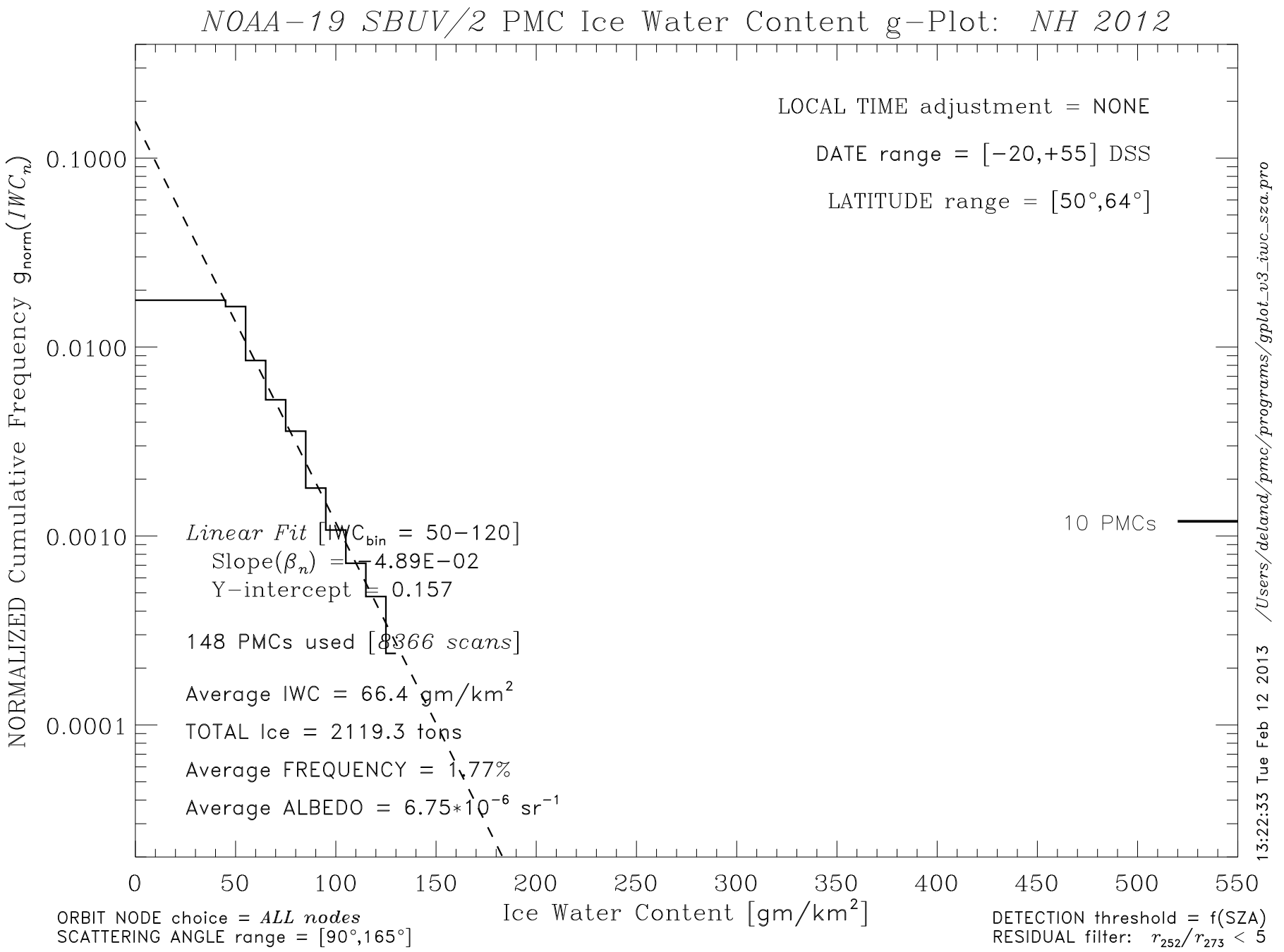

NOAA−18 SBUV/2 PMC Ice Water Content g−Plot: NH 2011
LOCAL TIME adjustment = NONE
DATE range = [−20,+55] DSS
LATITUDE range = [50°,64°]
NORMALIZED Cumulative Frequency $g_{norm}(IWC_n)$
0.1000
0.0100
0.0010
0.0001
Linear Fit [IWC_bin = 50−170]
Slope(β_n) = −3.36E−02
Y−intercept = 0.109
252 PMCs used [9760 scans]
Average IWC = 74.3 gm/km^2
TOTAL Ice = 2175.3 tons
Average FREQUENCY = 2.58%
Average ALBEDO = 7.97∗10^{-6} sr^{-1}
10 PMCs
0
50
100
150
200
250
300
350
400
450
500
550
Ice Water Content [gm/km^2]
13:22:21 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−18 SBUV/2 PMC Ice Water Content g−Plot: NH 2012
LOCAL TIME adjustment = NONE
DATE range = [−20,+55] DSS
LATITUDE range = [50°,64°]
10 PMCs
Linear Fit [IWC$_{bin}$ = 50−180]
Slope(β_n) = −3.43E−02
Y−intercept = 0.125
336 PMCs used [11247 scans]
Average IWC = 73.0 gm/km^2
TOTAL Ice = 2184.2 tons
Average FREQUENCY = 2.99%
Average ALBEDO = 7.75*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: $r_{252}/r_{273} < 5$
13:22:21 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 = [50°,64°]
NORMALIZED Cumulative Frequency $g_{norm}(IWC_n)$
0.1000
0.0100
0.0010
0.0001
Linear Fit [IWC_{bin} = 50−160]
Slope(β_n) = −3.70E−02
Y−intercept = 0.145
253 PMCs used [8964 scans]
Average IWC = 72.9 gm/km^2
TOTAL Ice = 2148.4 tons
Average FREQUENCY = 2.82%
Average ALBEDO = 7.35∗10^{-6} sr^{-1}
10 PMCs
0
50
100
150
200
250
300
350
400
450
500
550
Ice Water Content [gm/km^2]
13:22:31 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−19 SBUV/2 PMC Ice Water Content g−Plot: NH 2010
LOCAL TIME adjustment = NONE
DATE range = [−20,+55] DSS
LATITUDE range = [50°,64°]
NORMALIZED Cumulative Frequency $g_{norm}(IWC_n)$
0.1000
0.0100
0.0010
0.0001
Linear Fit [IWC_{bin} = 50−150]
Slope(β_n) = −3.44E−02
Y−intercept = 0.050
117 PMCs used [8624 scans]
Average IWC = 69.0 gm/km^2
TOTAL Ice = 2120.6 tons
Average FREQUENCY = 1.36%
Average ALBEDO = 7.06∗10^{-6} sr^{-1}
10 PMCs
0
50
100
150
200
250
300
350
400
450
500
550
Ice Water Content [gm/km^2]
13:22:32 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−19 SBUV/2 PMC Ice Water Content g−Plot: NH 2011
LOCAL TIME adjustment = NONE
DATE range = [−20,+55] DSS
LATITUDE range = [50°,64°]
NORMALIZED Cumulative Frequency $g_{norm}(IWC_n)$
0.1000
0.0100
0.0010
0.0001
Linear Fit [IWC_{bin} = 50−140]
Slope(β_n) = −3.94E−02
Y−intercept = 0.092
128 PMCs used [8525 scans]
Average IWC = 72.2 gm/km^2
TOTAL Ice = 2126.4 tons
Average FREQUENCY = 1.50%
Average ALBEDO = 7.18∗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: $r_{252}/r_{273} < 5$
13:22:33 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 = [50°,64°]
NORMALIZED Cumulative Frequency $g_{norm}(IWC_n)$
0.1000
0.0100
0.0010
0.0001
Linear Fit [IWC_{bin} = 50−120]
Slope(β_n) = −4.89E−02
Y−intercept = 0.157
148 PMCs used [8366 scans]
Average IWC = 66.4 gm/km^2
TOTAL Ice = 2119.3 tons
Average FREQUENCY = 1.77%
Average ALBEDO = 6.75∗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: $r_{252}/r_{273} < 5$
13:22:33 Tue Feb 12 2013 /Users/deland/pmc/programs/gplot_v3_iwc_sza.pro