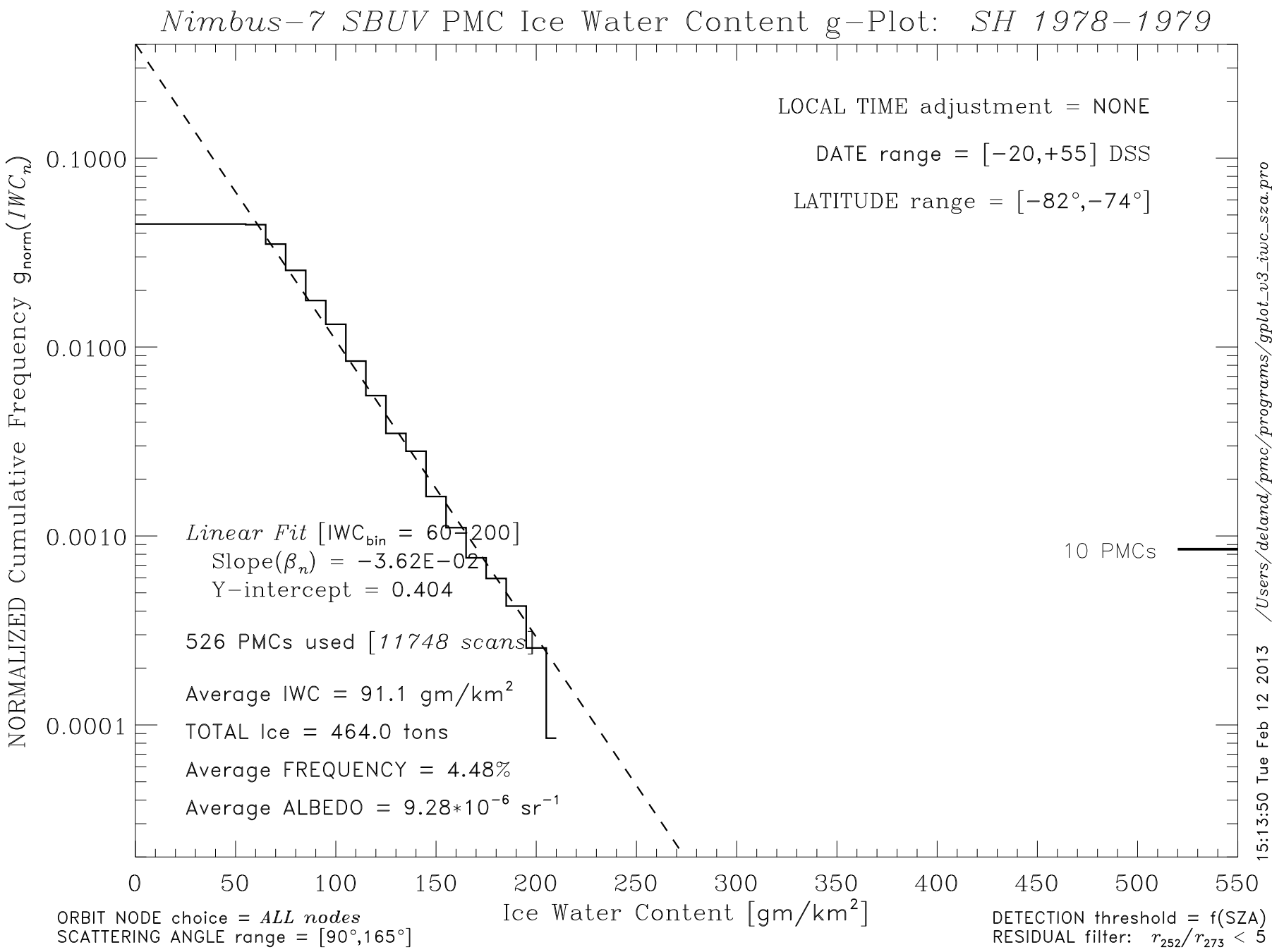
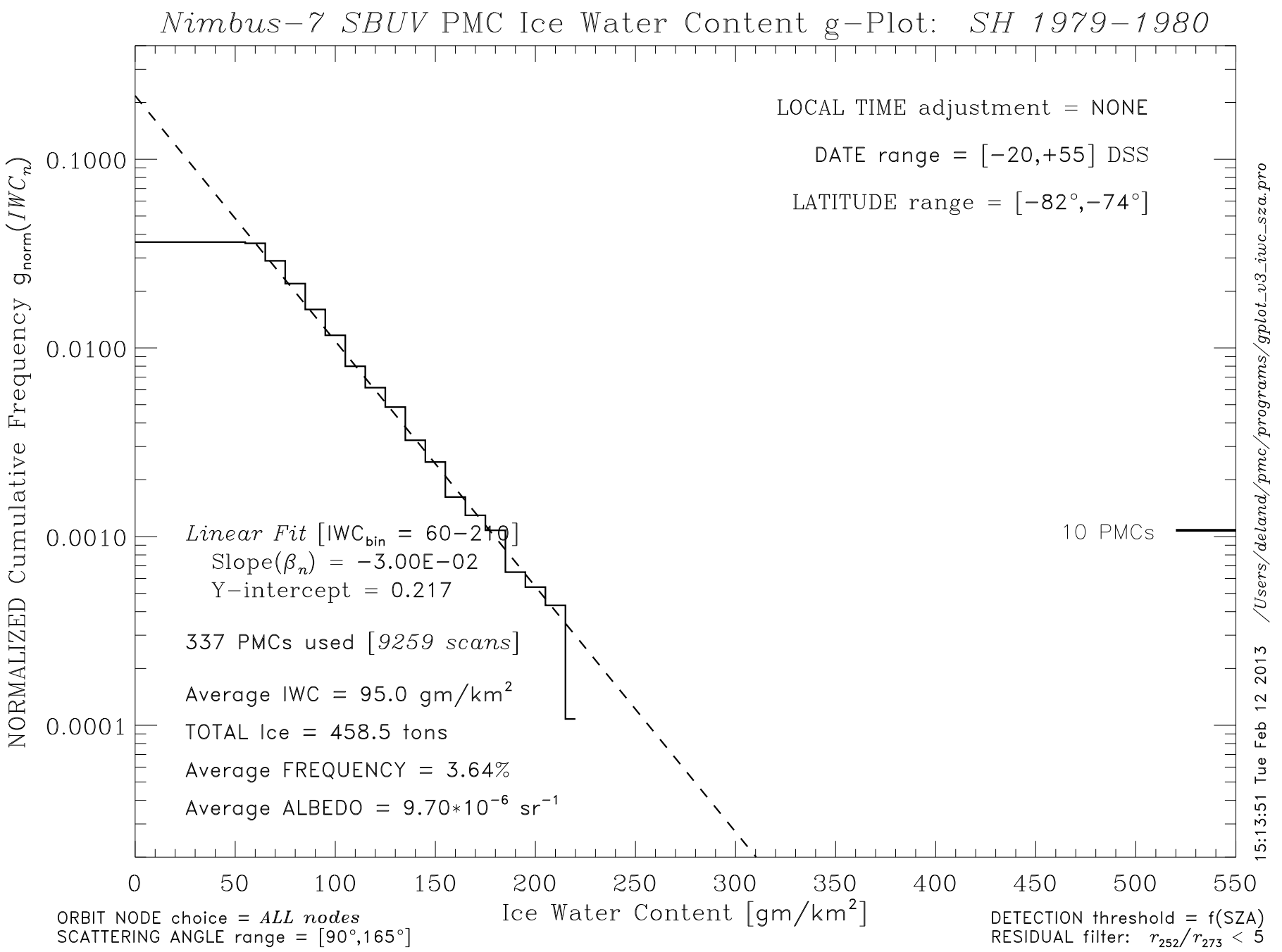
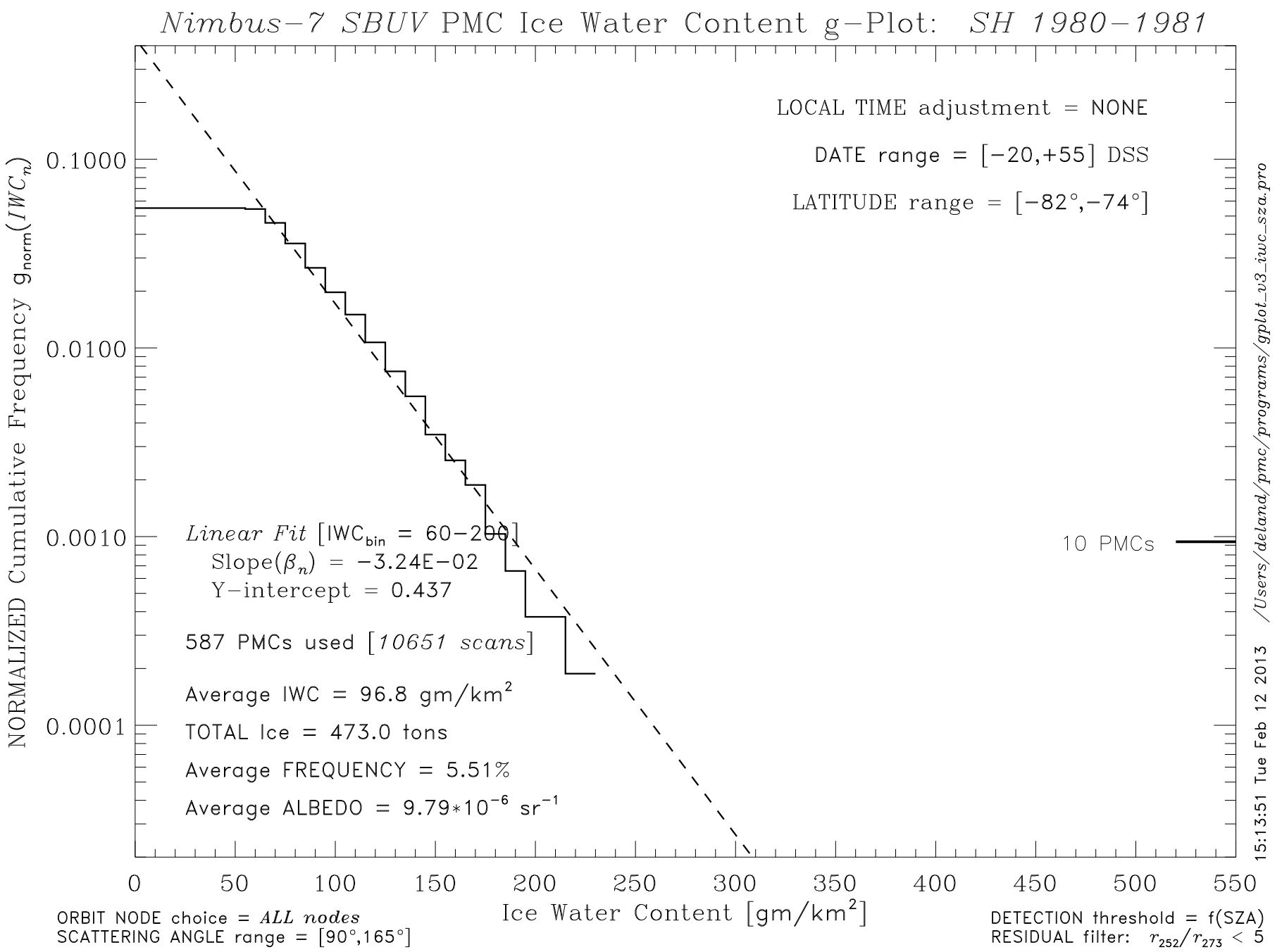
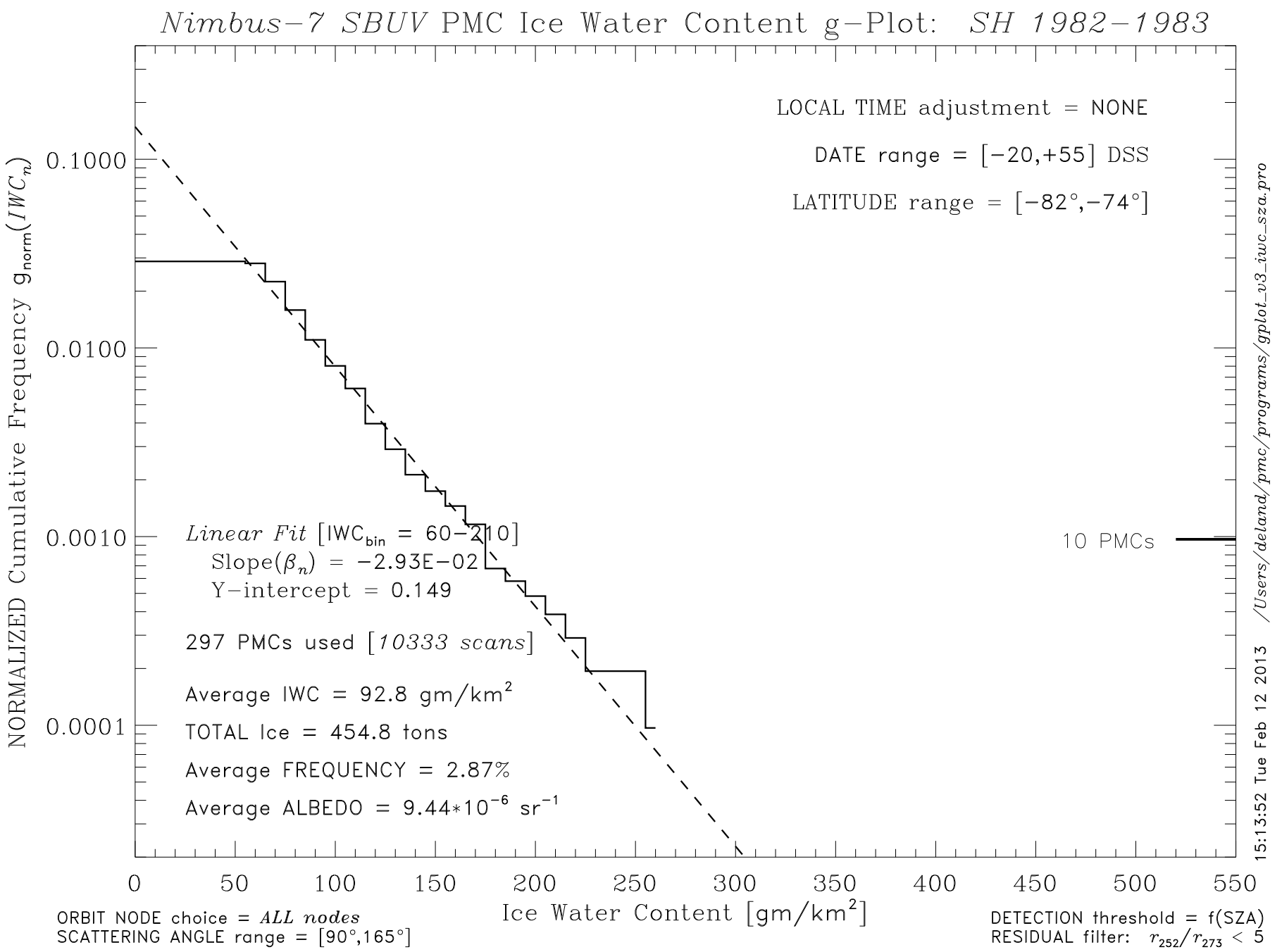
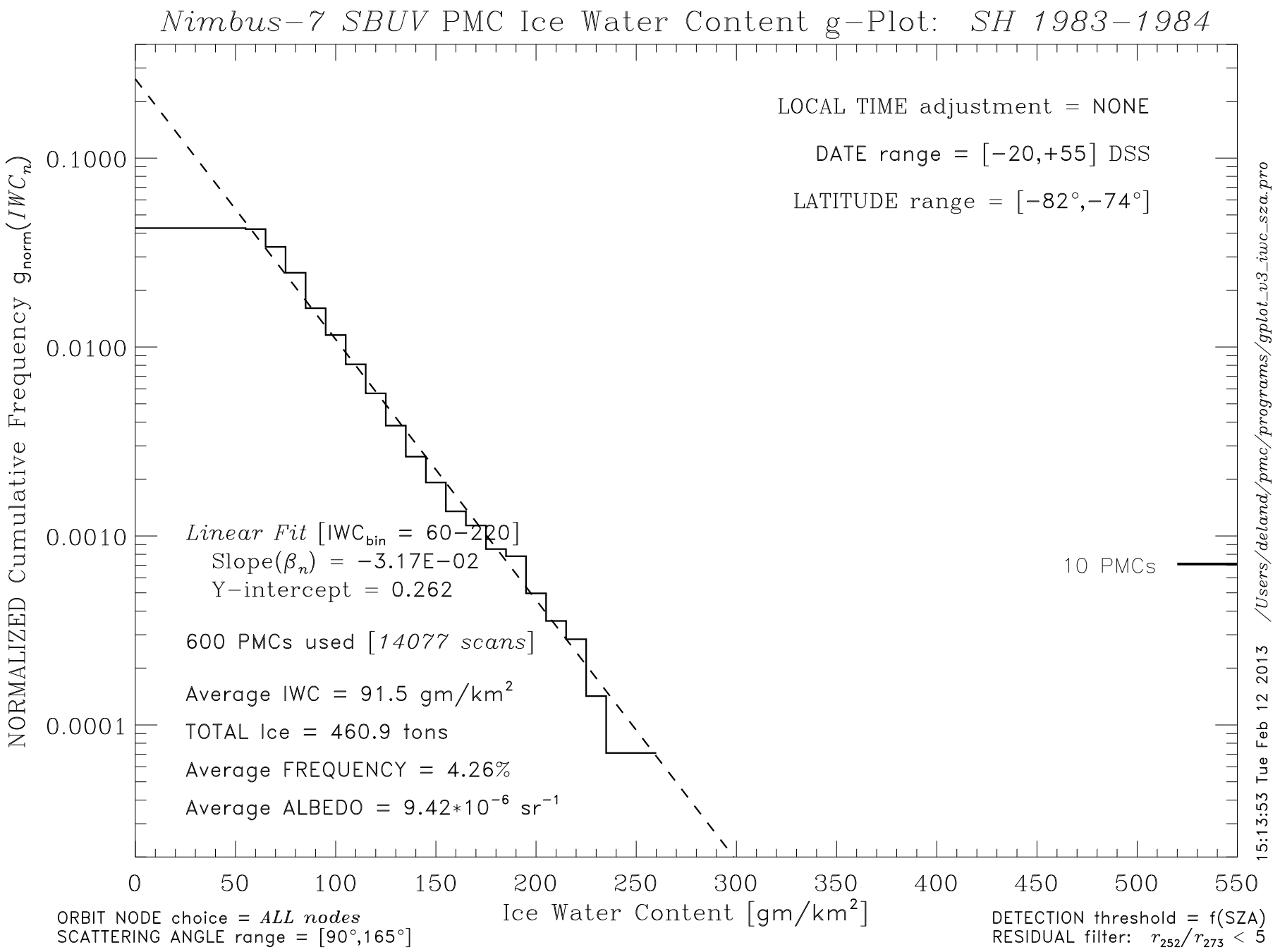

Nimbus−7 SBUV PMC Ice Water Content g−Plot: SH 1978−1979
LOCAL TIME adjustment = NONE
DATE range = [−20,+55] DSS
LATITUDE range = [−82°,−74°]
NORMALIZED Cumulative Frequency $g_{norm}(IWC_n)$
0.1000
0.0100
0.0010
0.0001
Linear Fit [IWC_{bin} = 60−200]
Slope(β_n) = −3.62E−02
Y−intercept = 0.404
526 PMCs used [11748 scans]
Average IWC = 91.1 gm/km^2
TOTAL Ice = 464.0 tons
Average FREQUENCY = 4.48%
Average ALBEDO = 9.28∗10^{-6} sr^{-1}
10 PMCs
0
50
100
150
200
250
300
350
400
450
500
550
Ice Water Content [gm/km^2]
15:13:50 Tue Feb 12 2013 /Users/deland/pmc/programs/gplot_v3_iwc_sza.pro
ORBIT NODE choice = ALL nodes
SCATTERING ANGLE range = [90°,165°]
DETECTION threshold = f(SZA)
RESIDUAL filter: $r_{252}/r_{273} < 5$


Nimbus−7 SBUV PMC Ice Water Content g−Plot: SH 1979−1980
LOCAL TIME adjustment = NONE
DATE range = [−20,+55] DSS
LATITUDE range = [−82°,−74°]
NORMALIZED Cumulative Frequency $g_{norm}(IWC_n)$
0.1000
0.0100
0.0010
0.0001
Linear Fit [IWC_bin = 60−210]
Slope(β_n) = −3.00E−02
Y−intercept = 0.217
337 PMCs used [9259 scans]
Average IWC = 95.0 gm/km^2
TOTAL Ice = 458.5 tons
Average FREQUENCY = 3.64%
Average ALBEDO = 9.70∗10^{-6} sr^{-1}
10 PMCs
0
50
100
150
200
250
300
350
400
450
500
550
Ice Water Content [gm/km^2]
ORBIT NODE choice = ALL nodes
SCATTERING ANGLE range = [90°,165°]
DETECTION threshold = f(SZA)
RESIDUAL filter: $r_{252}/r_{273} < 5$
15:13:51 Tue Feb 12 2013 /Users/deland/pmc/programs/gplot_v3_iwc_sza.pro

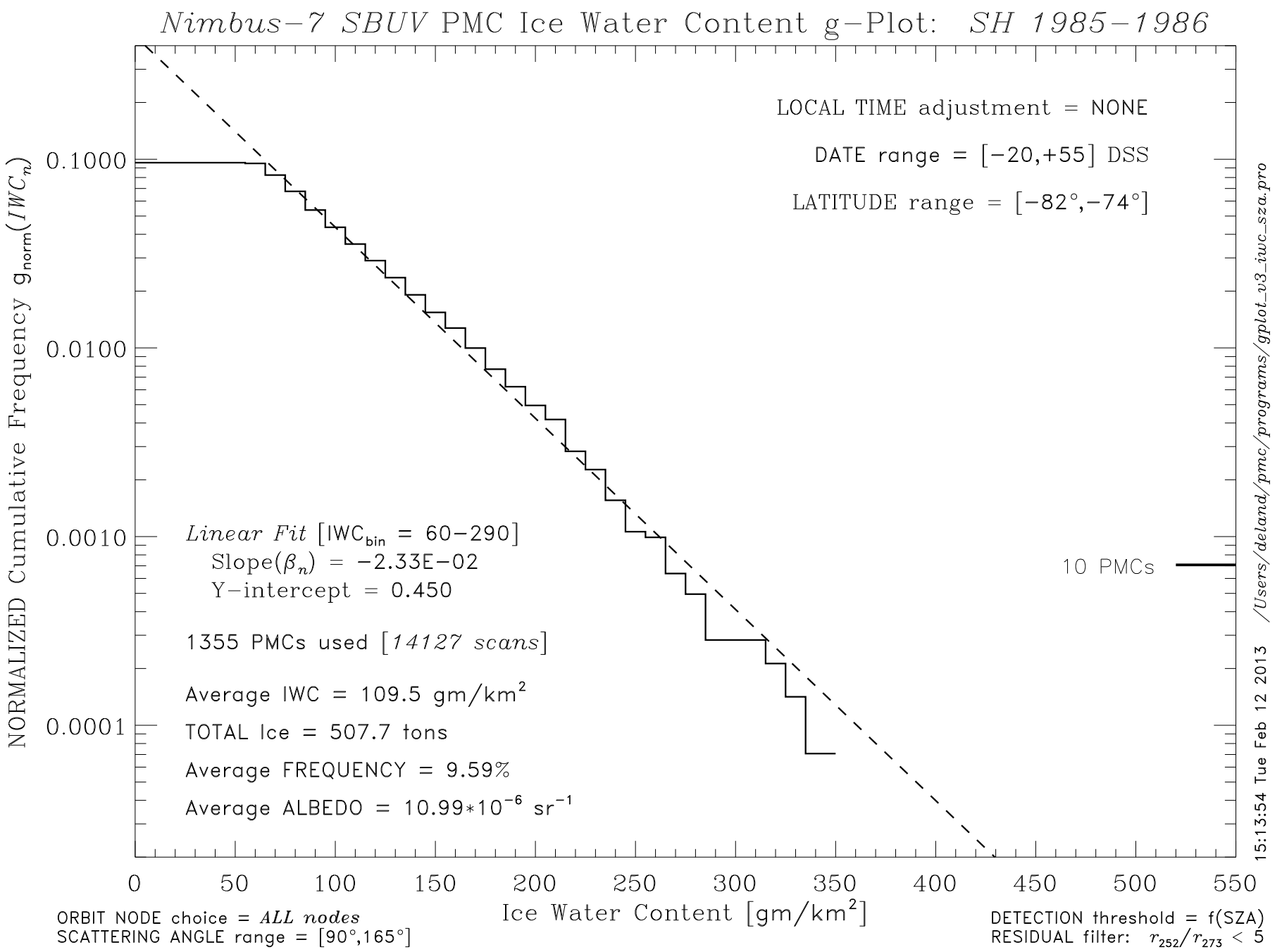

Nimbus-7 SBUV PMC Ice Water Content g-Plot: SH 1980-1981
LOCAL TIME adjustment = NONE
DATE range = [-20,+55] DSS
LATITUDE range = [-82°,-74°]
NORMALIZED Cumulative Frequency $g_{norm}(IWC_n)$
0.1000
0.0100
0.0010
0.0001
Linear Fit [IWC_{bin} = 60-200]
Slope(β_n) = -3.24E-02
Y-intercept = 0.437
587 PMCs used [10651 scans]
Average IWC = 96.8 gm/km^2
TOTAL Ice = 473.0 tons
Average FREQUENCY = 5.51%
Average ALBEDO = 9.79*10^{-6} sr^{-1}
10 PMCs
0
50
100
150
200
250
300
350
400
450
500
550
Ice Water Content [gm/km^2]
15:13:51 Tue Feb 12 2013 /Users/deland/pmc/programs/gplot_v3_iwc_sza.pro
ORBIT NODE choice = ALL nodes
SCATTERING ANGLE range = [90°,165°]
DETECTION threshold = f(SZA)
RESIDUAL filter: $r_{252}/r_{273} < 5$

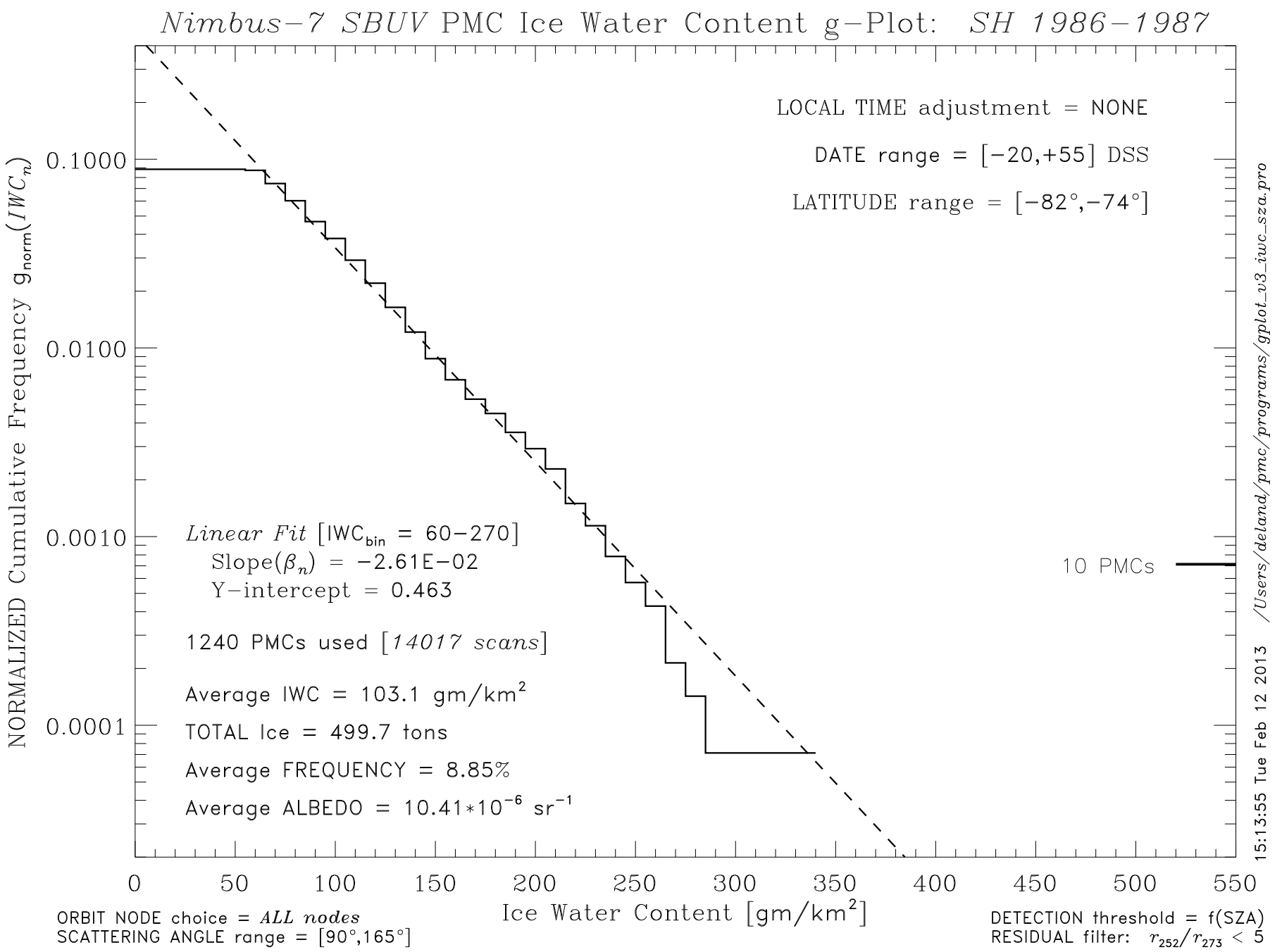
Nimbus−7 SBUV PMC Ice Water Content g−Plot: SH 1981−1982
LOCAL TIME adjustment = NONE
DATE range = [−20,+55] DSS
LATITUDE range = [−82°,−74°]
Linear Fit [IWC$_{bin}$ = 60−170]
Slope(β_n) = −3.46E−02
Y−intercept = 0.330
413 PMCs used [10258 scans]
Average IWC = 91.6 gm/km^2
TOTAL Ice = 460.8 tons
Average FREQUENCY = 4.03%
Average ALBEDO = 9.40*10^{-6} sr^{-1}
10 PMCs
NORMALIZED Cumulative Frequency g$_{norm}$(IWC$_n$)
0.1000
0.0100
0.0010
0.0001
0
50
100
150
200
250
300
350
400
450
500
550
Ice Water Content [gm/km^2]
ORBIT NODE choice = ALL nodes
SCATTERING ANGLE range = [90°,165°]
DETECTION threshold = f(SZA)
RESIDUAL filter: $r_{252}/r_{273} < 5$
15:13:52 Tue Feb 12 2013 /Users/deland/pmc/programs/gplot_v3_iwc_sza.pro


Nimbus−7 SBUV PMC Ice Water Content g−Plot: SH 1982−1983
LOCAL TIME adjustment = NONE
DATE range = [−20,+55] DSS
LATITUDE range = [−82°,−74°]
NORMALIZED Cumulative Frequency $g_{norm}(IWC_n)$
0.1000
0.0100
0.0010
0.0001
Linear Fit [IWC_{bin} = 60−210]
Slope(β_n) = −2.93E−02
Y−intercept = 0.149
297 PMCs used [10333 scans]
Average IWC = 92.8 gm/km^2
TOTAL Ice = 454.8 tons
Average FREQUENCY = 2.87%
Average ALBEDO = 9.44∗10^{-6} sr^{-1}
10 PMCs
0
50
100
150
200
250
300
350
400
450
500
550
Ice Water Content [gm/km^2]
15:13:52 Tue Feb 12 2013 /Users/deland/pmc/programs/gplot_v3_iwc_sza.pro
ORBIT NODE choice = ALL nodes
SCATTERING ANGLE range = [90°,165°]
DETECTION threshold = f(SZA)
RESIDUAL filter: $r_{252}/r_{273} < 5$

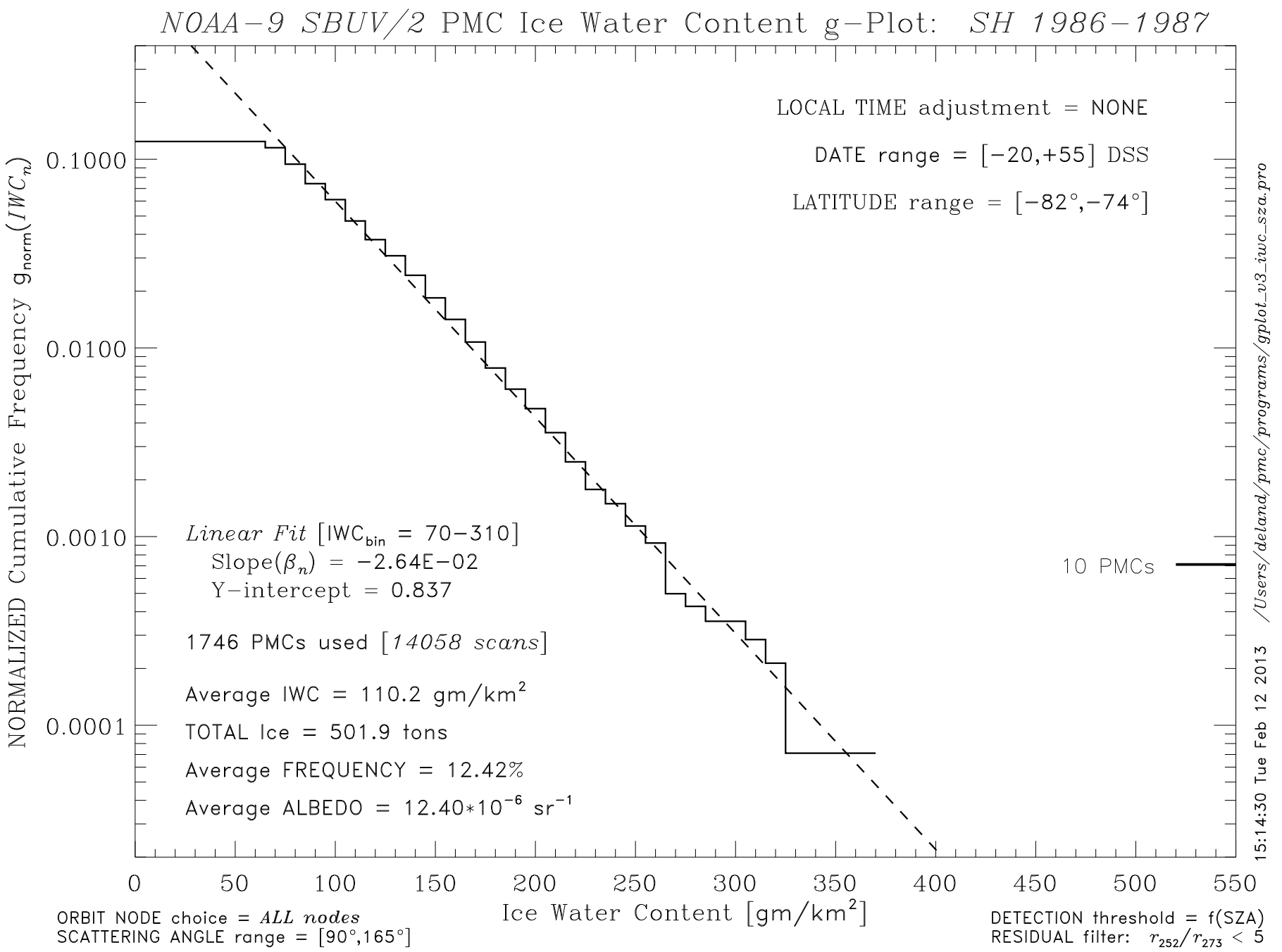

Nimbus−7 SBUV PMC Ice Water Content g−Plot: SH 1983−1984
LOCAL TIME adjustment = NONE
DATE range = [−20,+55] DSS
LATITUDE range = [−82°,−74°]
NORMALIZED Cumulative Frequency $g_{norm}(IWC_n)$
0.1000
0.0100
0.0010
0.0001
Linear Fit [IWC_{bin} = 60−220]
Slope(β_n) = −3.17E−02
Y−intercept = 0.262
600 PMCs used [14077 scans]
Average IWC = 91.5 gm/km^2
TOTAL Ice = 460.9 tons
Average FREQUENCY = 4.26%
Average ALBEDO = 9.42∗10^{-6} sr^{-1}
10 PMCs
0
50
100
150
200
250
300
350
400
450
500
550
Ice Water Content [gm/km^2]
ORBIT NODE choice = ALL nodes
SCATTERING ANGLE range = [90°,165°]
DETECTION threshold = f(SZA)
RESIDUAL filter: $r_{252}/r_{273} < 5$
15:13:53 Tue Feb 12 2013 /Users/deland/pmc/programs/gplot_v3_iwc_sza.pro

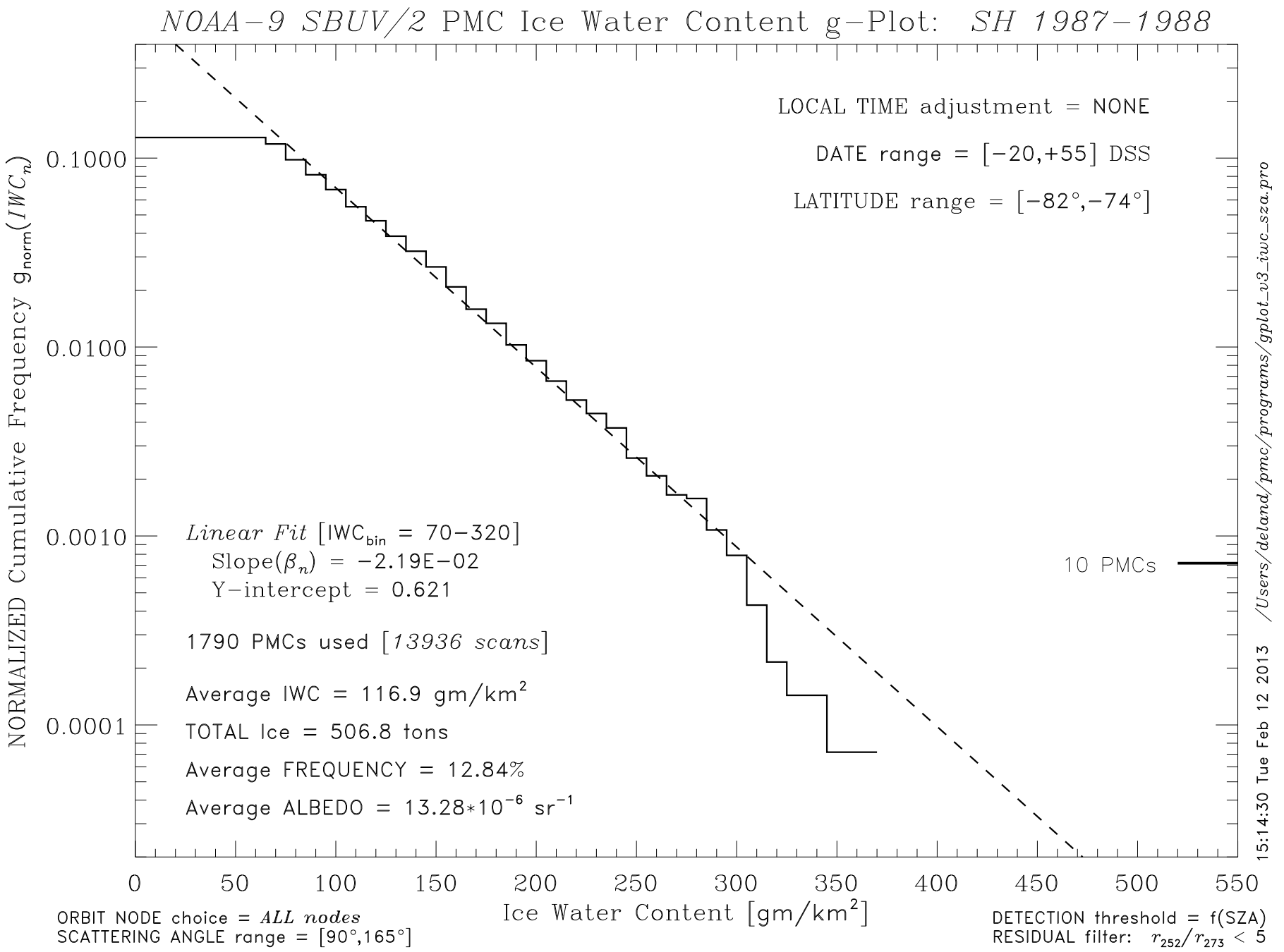
Nimbus−7 SBUV PMC Ice Water Content g−Plot: SH 1984−1985
LOCAL TIME adjustment = NONE
DATE range = [−20,+55] DSS
LATITUDE range = [−82°,−74°]
Linear Fit [IWC$_{bin}$ = 60−310]
Slope(β_n) = −2.22E−02
Y−intercept = 0.362
1254 PMCs used [13610 scans]
Average IWC = 107.9 gm/km^2
TOTAL Ice = 503.0 tons
Average FREQUENCY = 9.21%
Average ALBEDO = 10.92*10^{-6} sr^{-1}
10 PMCs
NORMALIZED Cumulative Frequency g$_{norm}$(IWC$_n$)
0.1000
0.0100
0.0010
0.0001
0
50
100
150
200
250
300
350
400
450
500
550
Ice Water Content [gm/km^2]
ORBIT NODE choice = ALL nodes
SCATTERING ANGLE range = [90°,165°]
DETECTION threshold = f(SZA)
RESIDUAL filter: $r_{252}/r_{273} < 5$
15:13:54 Tue Feb 12 2013 /Users/deland/pmc/programs/gplot_v3_iwc_sza.pro

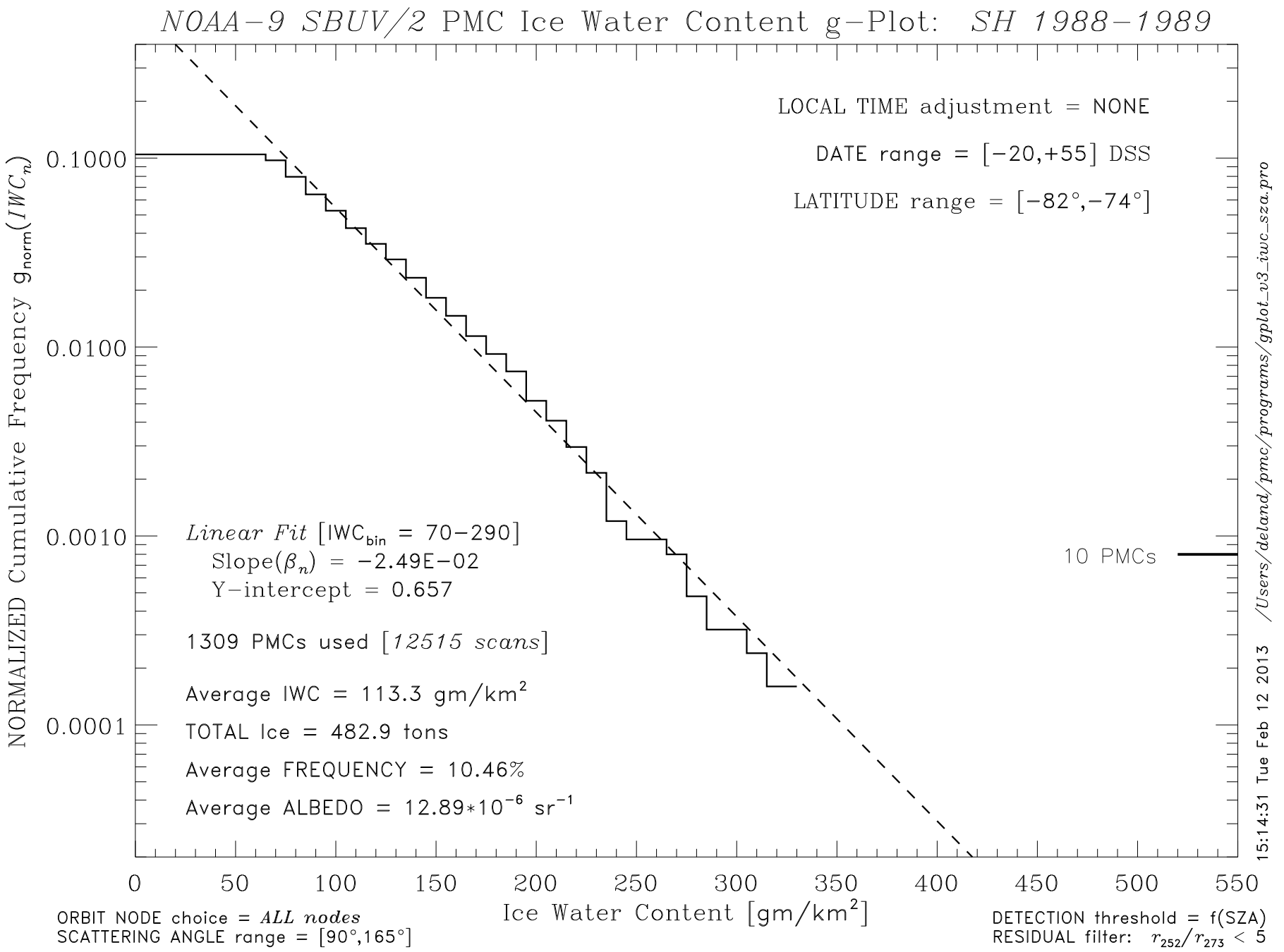

Nimbus-7 SBUV PMC Ice Water Content g-Plot: SH 1985-1986
LOCAL TIME adjustment = NONE
DATE range = [-20,+55] DSS
LATITUDE range = [-82°,-74°]
NORMALIZED Cumulative Frequency $g_{norm}(IWC_n)$
0.1000
0.0100
0.0010
0.0001
Linear Fit [IWC_{bin} = 60-290]
Slope(β_n) = -2.33E-02
Y-intercept = 0.450
1355 PMCs used [14127 scans]
Average IWC = 109.5 gm/km^2
TOTAL Ice = 507.7 tons
Average FREQUENCY = 9.59%
Average ALBEDO = 10.99*10^{-6} sr^{-1}
10 PMCs
0
50
100
150
200
250
300
350
400
450
500
550
Ice Water Content [gm/km^2]
15:13:54 Tue Feb 12 2013 /Users/deland/pmc/programs/gplot_v3_iwc_sza.pro
ORBIT NODE choice = ALL nodes
SCATTERING ANGLE range = [90°,165°]
DETECTION threshold = f(SZA)
RESIDUAL filter: $r_{252}/r_{273} < 5$


Nimbus-7 SBUV PMC Ice Water Content g-Plot: SH 1986-1987
LOCAL TIME adjustment = NONE
DATE range = [-20,+55] DSS
LATITUDE range = [-82°,-74°]
NORMALIZED Cumulative Frequency $g_{norm}(IWC_n)$
0.1000
0.0100
0.0010
0.0001
Linear Fit [IWC_{bin} = 60-270]
Slope(β_n) = -2.61E-02
Y-intercept = 0.463
1240 PMCs used [14017 scans]
Average IWC = 103.1 gm/km^2
TOTAL Ice = 499.7 tons
Average FREQUENCY = 8.85%
Average ALBEDO = 10.41*10^{-6} sr^{-1}
10 PMCs
0
50
100
150
200
250
300
350
400
450
500
550
Ice Water Content [gm/km^2]
15:13:55 Tue Feb 12 2013 /Users/deland/pmc/programs/gplot_v3_iwc_sza.pro
ORBIT NODE choice = ALL nodes
SCATTERING ANGLE range = [90°,165°]
DETECTION threshold = f(SZA)
RESIDUAL filter: $r_{252}/r_{273} < 5$

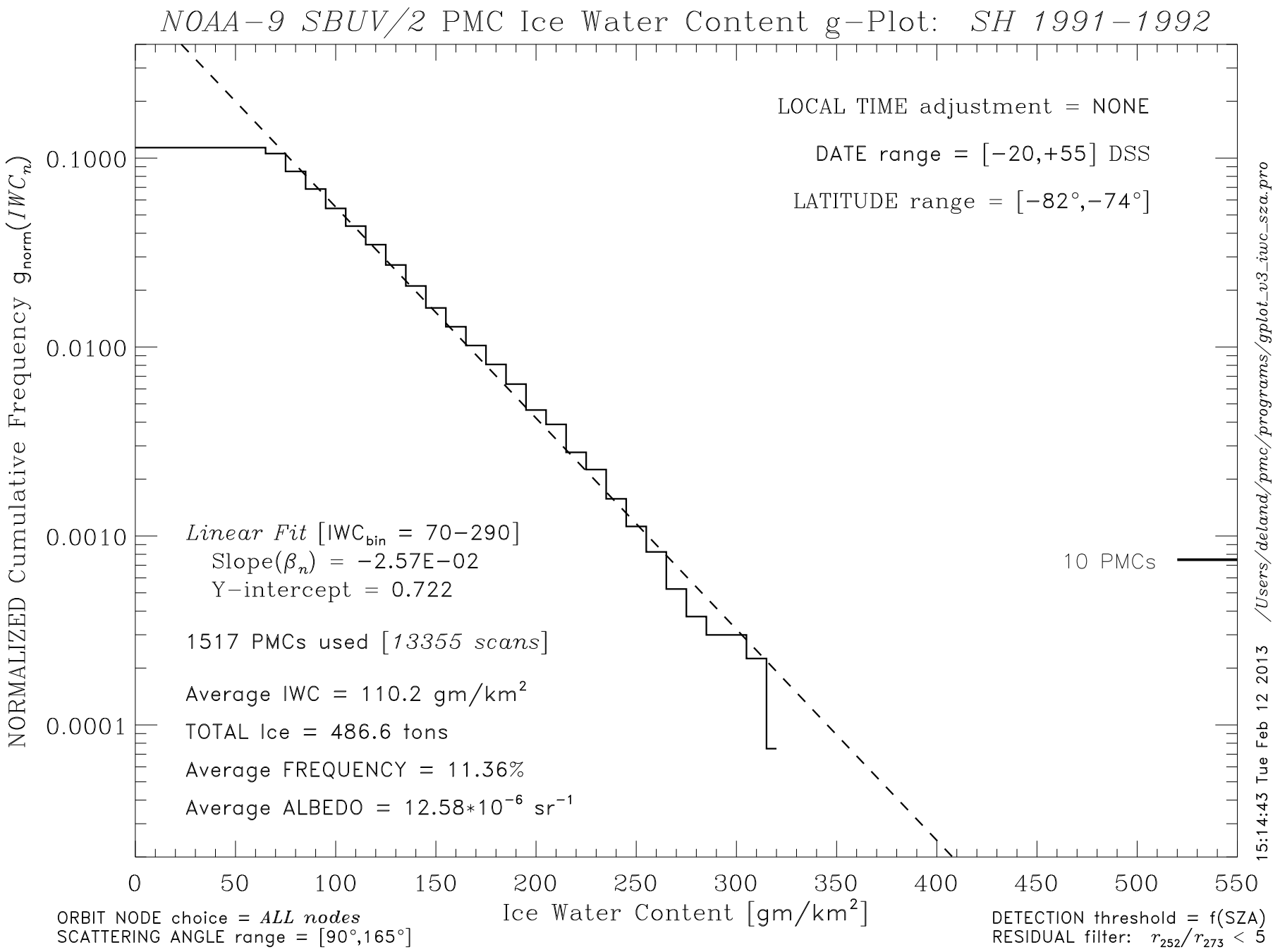
NOAA-9 SBUV/2 PMC Ice Water Content g-Plot: SH 1985-1986
LOCAL TIME adjustment = NONE
DATE range = [-20,+55] DSS
LATITUDE range = [-82°,-74°]
Linear Fit [IWC_bin = 70-280]
Slope(β_n) = -2.29E-02
Y-intercept = 0.293
749 PMCs used [12157 scans]
Average IWC = 110.9 gm/km²
TOTAL Ice = 453.0 tons
Average FREQUENCY = 6.16%
Average ALBEDO = 12.40*10⁻⁶ sr⁻¹
10 PMCs
NORMALIZED Cumulative Frequency g_norm(IWC_n)
0.1000
0.0100
0.0010
0.0001
0
50
100
150
200
250
300
350
400
450
500
550
Ice Water Content [gm/km²]
ORBIT NODE choice = ALL nodes
SCATTERING ANGLE range = [90°,165°]
DETECTION threshold = f(SZA)
RESIDUAL filter: r252/r273 < 5
15:14:29 Tue Feb 12 2013 /Users/deland/pmc/programs/gplot_v3_iwc_sza.pro

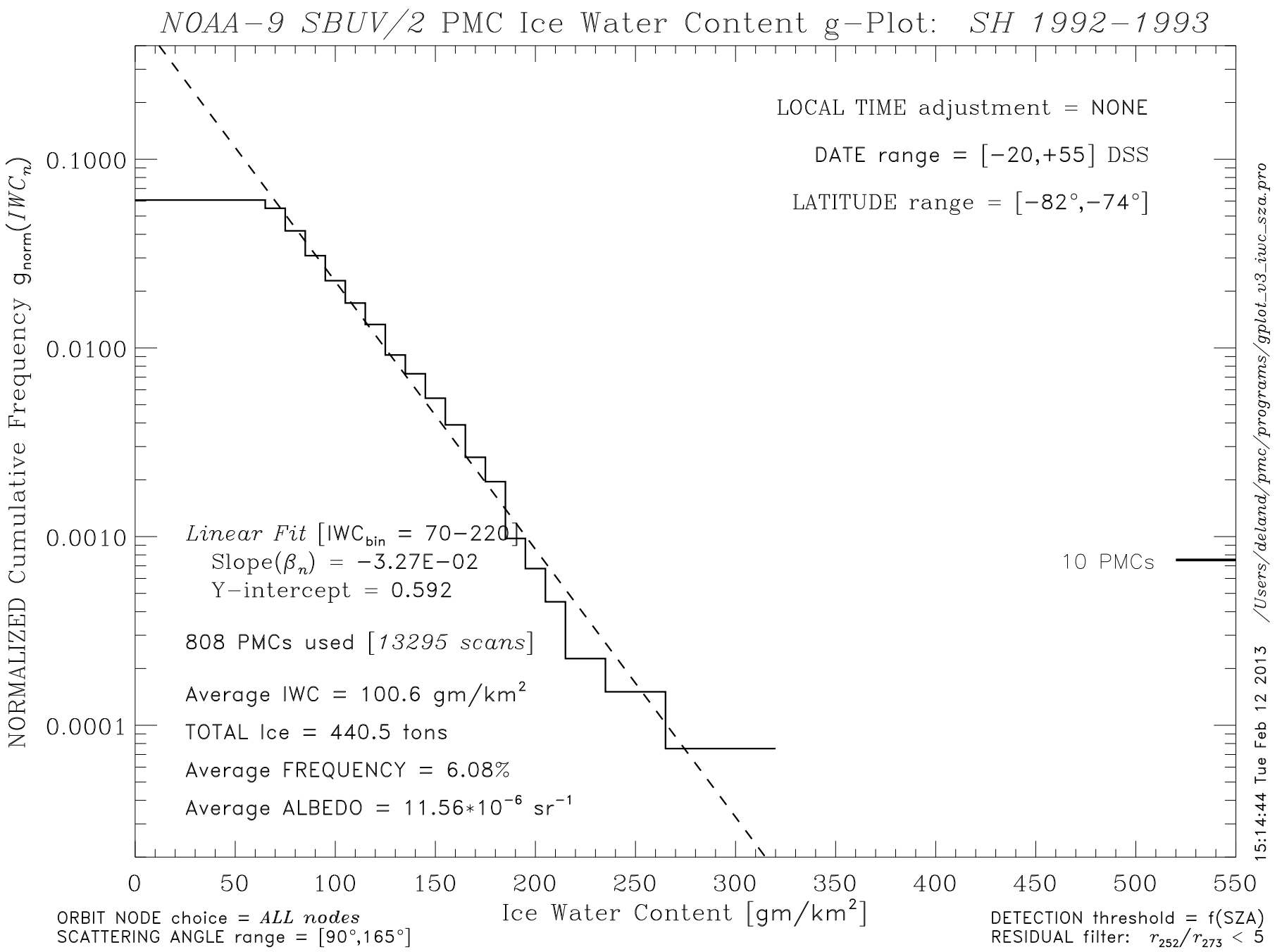

NOAA−9 SBUV/2 PMC Ice Water Content g−Plot: SH 1986−1987
LOCAL TIME adjustment = NONE
DATE range = [−20,+55] DSS
LATITUDE range = [−82°,−74°]
NORMALIZED Cumulative Frequency $g_{norm}(IWC_n)$
0.1000
0.0100
0.0010
0.0001
Linear Fit [IWC_{bin} = 70−310]
Slope(β_n) = −2.64E−02
Y−intercept = 0.837
1746 PMCs used [14058 scans]
Average IWC = 110.2 gm/km^2
TOTAL Ice = 501.9 tons
Average FREQUENCY = 12.42%
Average ALBEDO = 12.40∗10^{-6} sr^{-1}
10 PMCs
0
50
100
150
200
250
300
350
400
450
500
550
Ice Water Content [gm/km^2]
15:14:30 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: $r_{252}/r_{273} < 5$

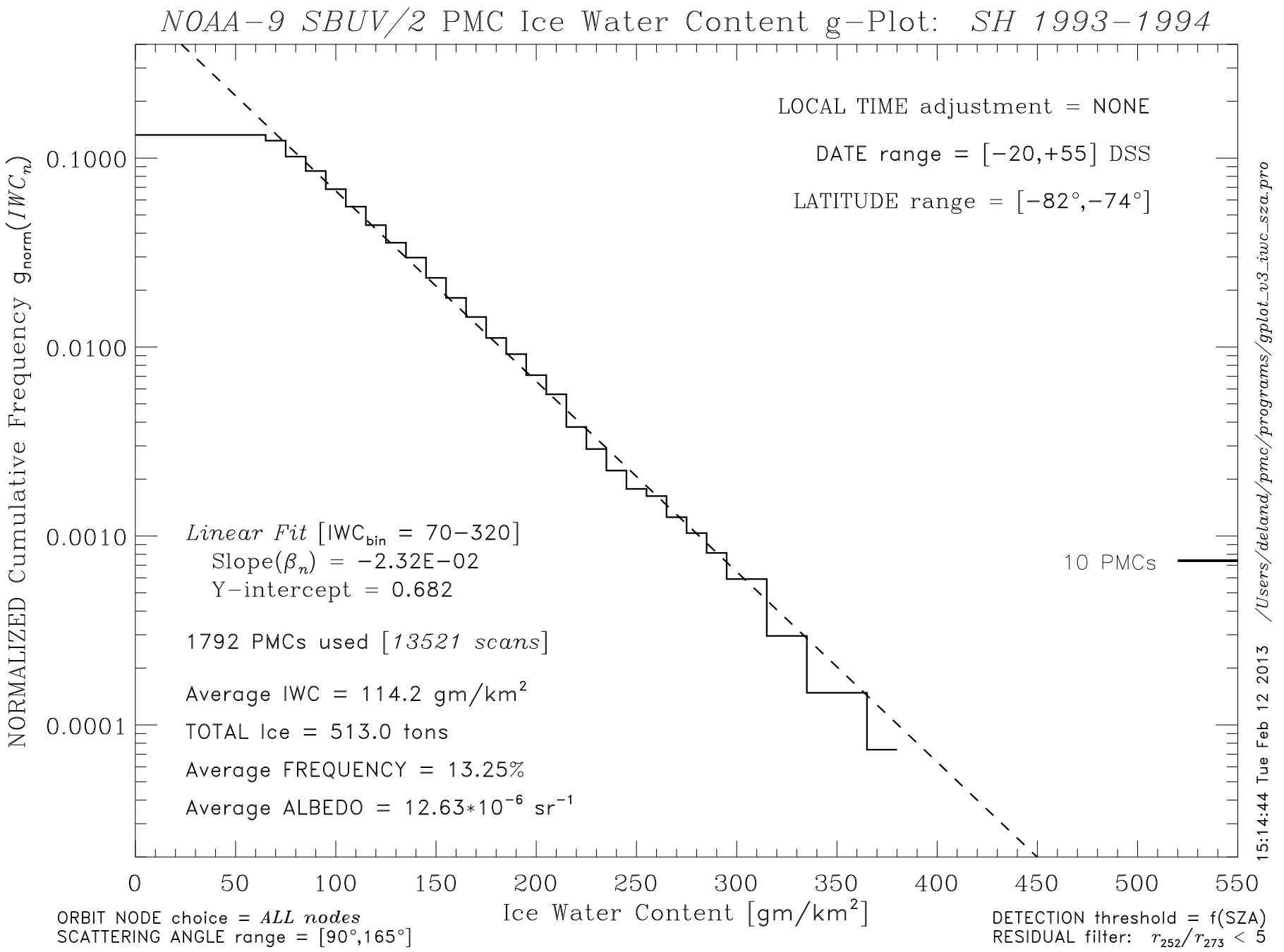

NOAA-9 SBUV/2 PMC Ice Water Content g-Plot: SH 1987-1988
LOCAL TIME adjustment = NONE
DATE range = [-20,+55] DSS
LATITUDE range = [-82°,-74°]
NORMALIZED Cumulative Frequency $g_{norm}(IWC_n)$
0.1000
0.0100
0.0010
0.0001
Linear Fit [IWC_{bin} = 70-320]
Slope(β_n) = -2.19E-02
Y-intercept = 0.621
1790 PMCs used [13936 scans]
Average IWC = 116.9 gm/km^2
TOTAL Ice = 506.8 tons
Average FREQUENCY = 12.84%
Average ALBEDO = 13.28*10^{-6} sr^{-1}
10 PMCs
0
50
100
150
200
250
300
350
400
450
500
550
Ice Water Content [gm/km^2]
15:14:30 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: $r_{252}/r_{273} < 5$

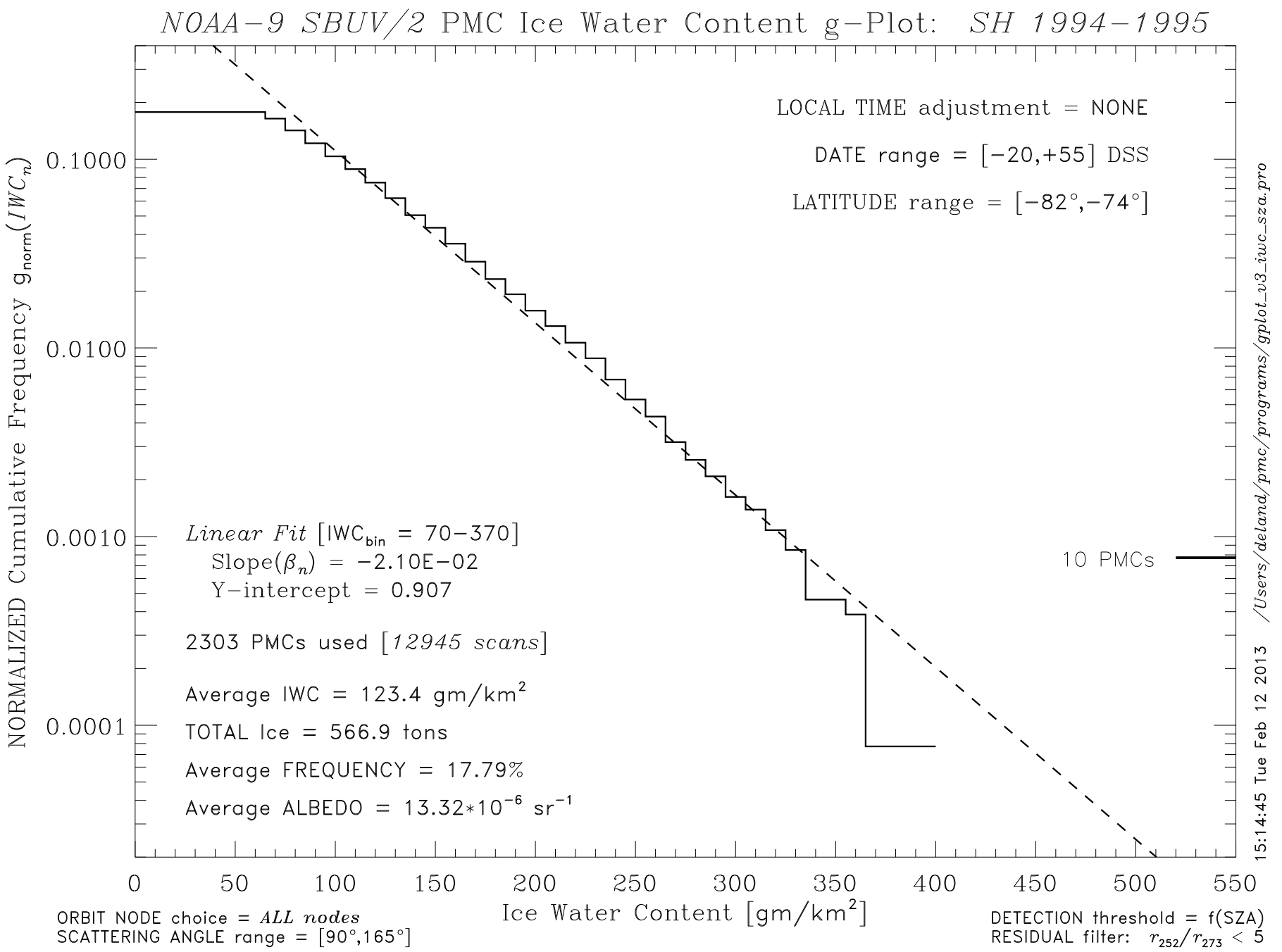

NOAA−9 SBUV/2 PMC Ice Water Content g−Plot: SH 1988−1989
LOCAL TIME adjustment = NONE
DATE range = [−20,+55] DSS
LATITUDE range = [−82°,−74°]
NORMALIZED Cumulative Frequency $g_{norm}(IWC_n)$
0.1000
0.0100
0.0010
0.0001
Linear Fit [IWC_{bin} = 70−290]
Slope(β_n) = −2.49E−02
Y−intercept = 0.657
1309 PMCs used [12515 scans]
Average IWC = 113.3 gm/km^2
TOTAL Ice = 482.9 tons
Average FREQUENCY = 10.46%
Average ALBEDO = 12.89∗10^{-6} sr^{-1}
10 PMCs
0
50
100
150
200
250
300
350
400
450
500
550
Ice Water Content [gm/km^2]
15:14:31 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: $r_{252}/r_{273} < 5$

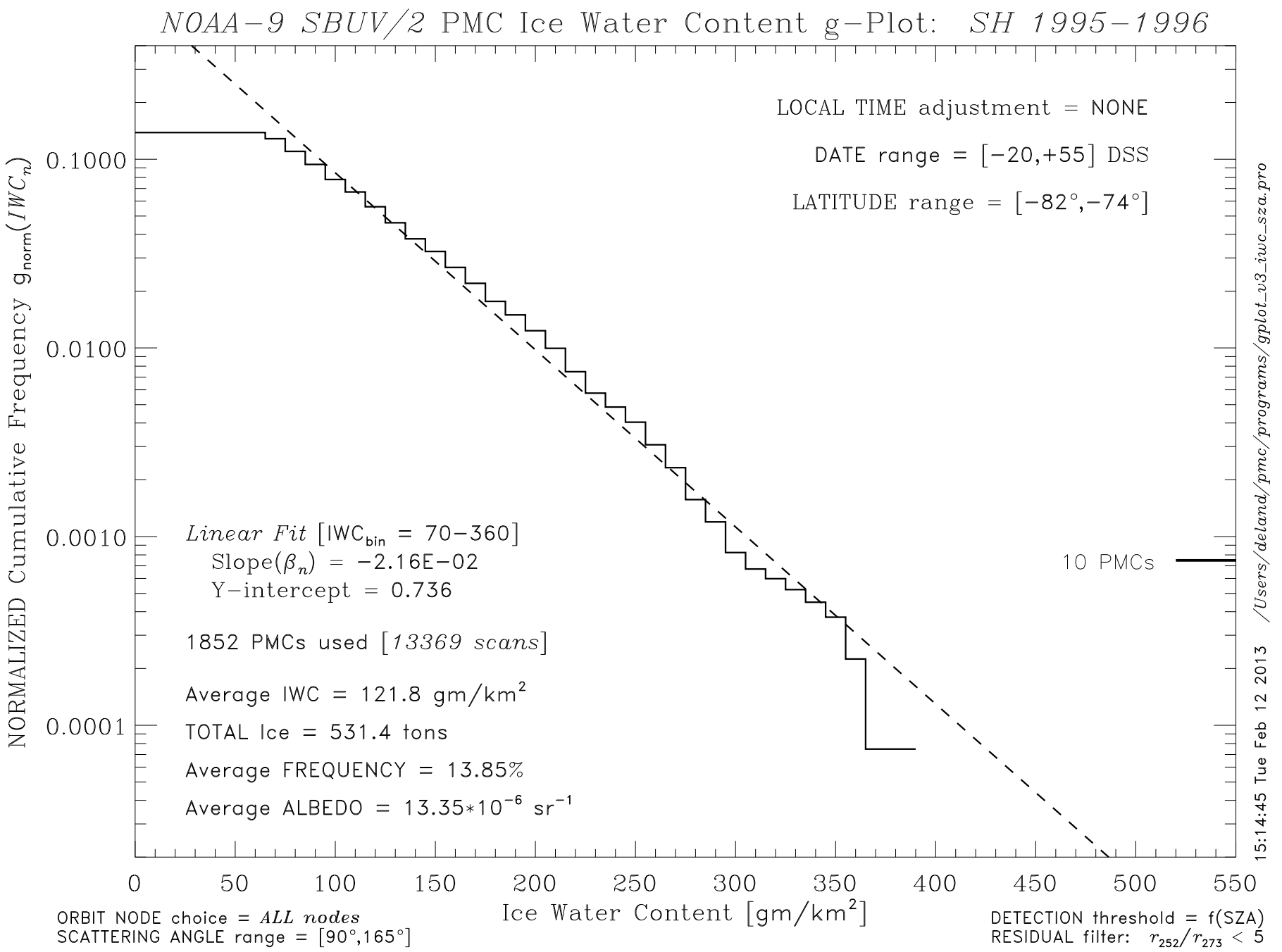
NOAA-9 SBUV/2 PMC Ice Water Content g-Plot: SH 1989-1990
LOCAL TIME adjustment = NONE
DATE range = [-20,+55] DSS
LATITUDE range = [-82°,-74°]
Linear Fit [IWC_bin = 70-270]
Slope(β_n) = -2.79E-02
Y-intercept = 0.915
1339 PMCs used [11948 scans]
Average IWC = 111.0 gm/km²
TOTAL Ice = 482.5 tons
Average FREQUENCY = 11.21%
Average ALBEDO = 12.91*10⁻⁶ sr⁻¹
10 PMCs
NORMALIZED Cumulative Frequency g_norm(IWC_n)
0.1000
0.0100
0.0010
0.0001
0
50
100
150
200
250
300
350
400
450
500
550
Ice Water Content [gm/km²]
ORBIT NODE choice = ALL nodes
SCATTERING ANGLE range = [90°,165°]
DETECTION threshold = f(SZA)
RESIDUAL filter: r252/r273 < 5
15:14:32 Tue Feb 12 2013 /Users/deland/pmc/programs/gplot_v3_iwc_sza.pro

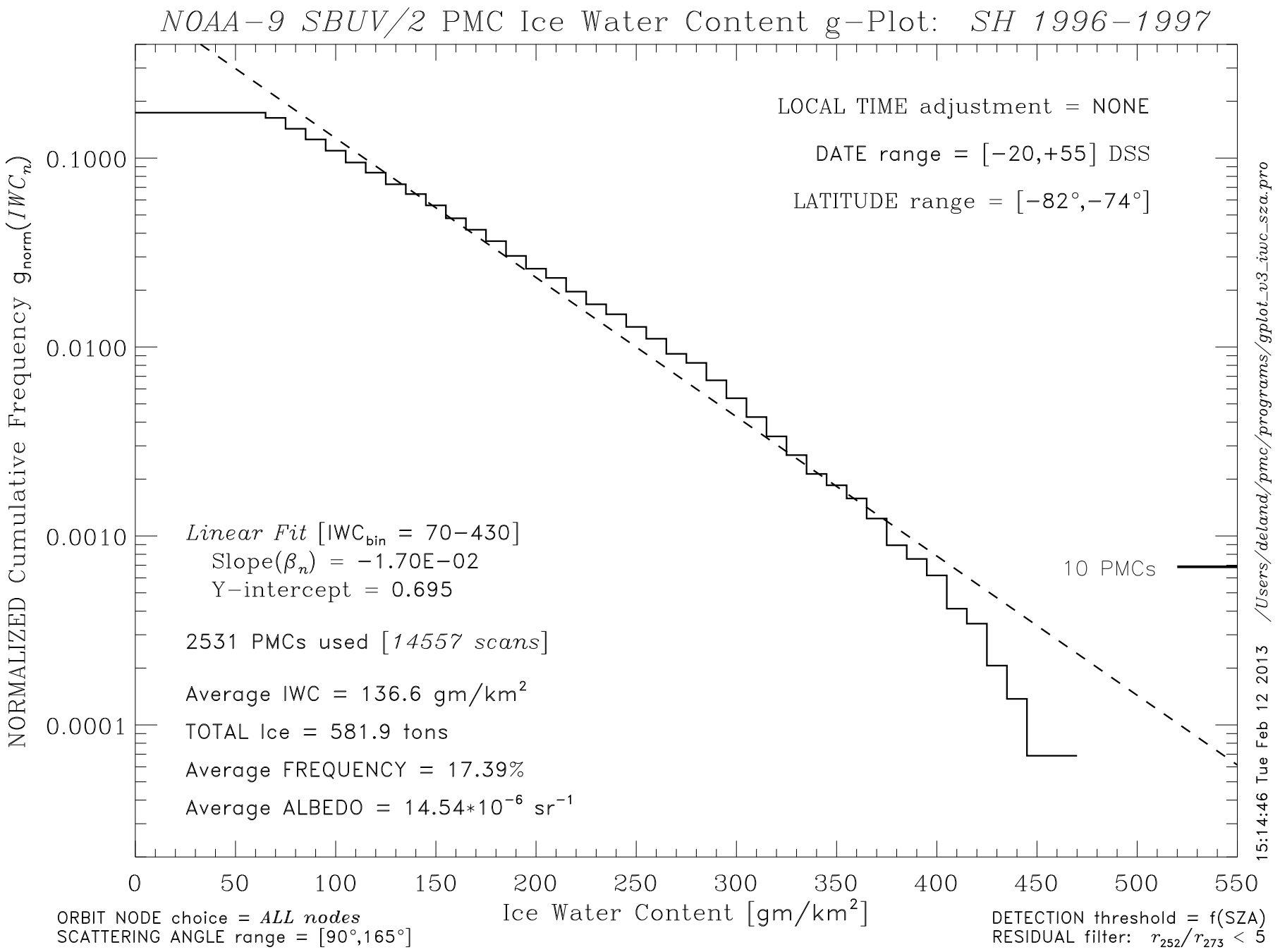

NOAA-9 SBUV/2 PMC Ice Water Content g-Plot: SH 1991-1992
LOCAL TIME adjustment = NONE
DATE range = [-20,+55] DSS
LATITUDE range = [-82°,-74°]
NORMALIZED Cumulative Frequency $g_{norm}(IWC_n)$
0.1000
0.0100
0.0010
0.0001
Linear Fit [IWC_{bin} = 70-290]
Slope(β_n) = -2.57E-02
Y-intercept = 0.722
1517 PMCs used [13355 scans]
Average IWC = 110.2 gm/km^2
TOTAL Ice = 486.6 tons
Average FREQUENCY = 11.36%
Average ALBEDO = 12.58*10^{-6} sr^{-1}
10 PMCs
0
50
100
150
200
250
300
350
400
450
500
550
Ice Water Content [gm/km^2]
15:14:43 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-9 SBUV/2 PMC Ice Water Content g-Plot: SH 1992-1993
LOCAL TIME adjustment = NONE
DATE range = [-20,+55] DSS
LATITUDE range = [-82°,-74°]
NORMALIZED Cumulative Frequency $g_{norm}(IWC_n)$
0.1000
0.0100
0.0010
0.0001
Linear Fit [IWC_{bin} = 70-220]
Slope(β_n) = -3.27E-02
Y-intercept = 0.592
808 PMCs used [13295 scans]
Average IWC = 100.6 gm/km^2
TOTAL Ice = 440.5 tons
Average FREQUENCY = 6.08%
Average ALBEDO = 11.56*10^{-6} sr^{-1}
10 PMCs
0
50
100
150
200
250
300
350
400
450
500
550
Ice Water Content [gm/km^2]
15:14:44 Tue Feb 12 2013 /Users/deland/pmc/programs/gplot_v3_iwc_sza.pro
ORBIT NODE choice = ALL nodes
SCATTERING ANGLE range = [90°,165°]
DETECTION threshold = f(SZA)
RESIDUAL filter: $r_{252}/r_{273} < 5$


NOAA−9 SBUV/2 PMC Ice Water Content g−Plot: SH 1993−1994
LOCAL TIME adjustment = NONE
DATE range = [−20,+55] DSS
LATITUDE range = [−82°,−74°]
NORMALIZED Cumulative Frequency $g_{norm}(IWC_n)$
0.1000
0.0100
0.0010
0.0001
Linear Fit [IWC_{bin} = 70−320]
Slope(β_n) = −2.32E−02
Y−intercept = 0.682
1792 PMCs used [13521 scans]
Average IWC = 114.2 gm/km^2
TOTAL Ice = 513.0 tons
Average FREQUENCY = 13.25%
Average ALBEDO = 12.63∗10^{-6} sr^{-1}
10 PMCs
0
50
100
150
200
250
300
350
400
450
500
550
Ice Water Content [gm/km^2]
ORBIT NODE choice = ALL nodes
SCATTERING ANGLE range = [90°,165°]
DETECTION threshold = f(SZA)
RESIDUAL filter: $r_{252}/r_{273} < 5$
15:14:44 Tue Feb 12 2013 /Users/deland/pmc/programs/gplot_v3_iwc_sza.pro

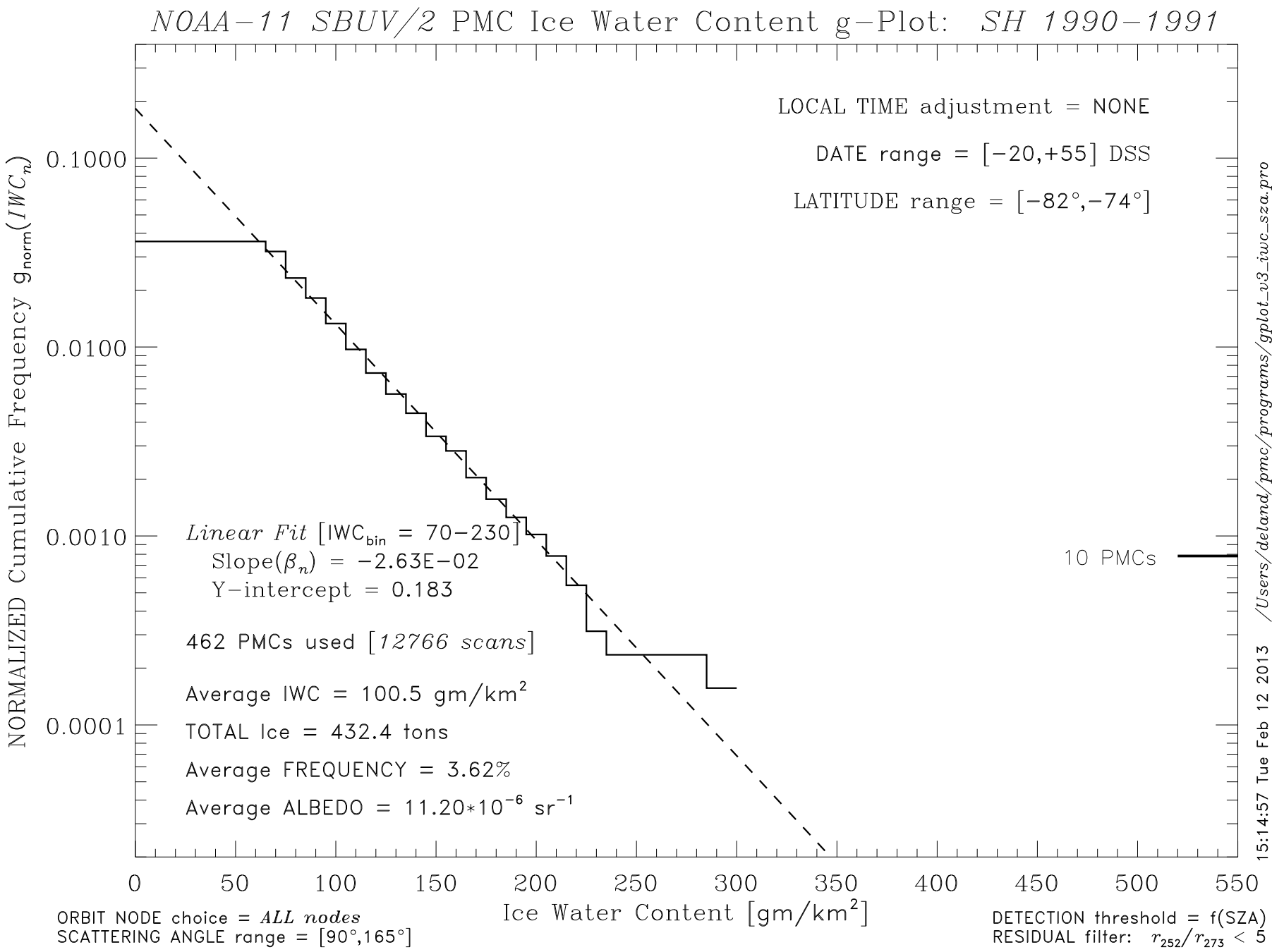

NOAA-9 SBUV/2 PMC Ice Water Content g-Plot: SH 1994-1995
LOCAL TIME adjustment = NONE
DATE range = [-20,+55] DSS
LATITUDE range = [-82°,-74°]
NORMALIZED Cumulative Frequency $g_{norm}(IWC_n)$
0.1000
0.0100
0.0010
0.0001
Linear Fit [IWC_{bin} = 70-370]
Slope(β_n) = -2.10E-02
Y-intercept = 0.907
2303 PMCs used [12945 scans]
Average IWC = 123.4 gm/km^2
TOTAL Ice = 566.9 tons
Average FREQUENCY = 17.79%
Average ALBEDO = 13.32*10^{-6} sr^{-1}
10 PMCs
0
50
100
150
200
250
300
350
400
450
500
550
Ice Water Content [gm/km^2]
15:14:45 Tue Feb 12 2013 /Users/deland/pmc/programs/gplot_v3_iwc_sza.pro
ORBIT NODE choice = ALL nodes
SCATTERING ANGLE range = [90°,165°]
DETECTION threshold = f(SZA)
RESIDUAL filter: $r_{252}/r_{273} < 5$


NOAA-9 SBUV/2 PMC Ice Water Content g-Plot: SH 1995-1996
LOCAL TIME adjustment = NONE
DATE range = [-20,+55] DSS
LATITUDE range = [-82°,-74°]
NORMALIZED Cumulative Frequency $g_{norm}(IWC_n)$
0.1000
0.0100
0.0010
0.0001
Linear Fit [IWC_{bin} = 70-360]
Slope(β_n) = -2.16E-02
Y-intercept = 0.736
1852 PMCs used [13369 scans]
Average IWC = 121.8 gm/km^2
TOTAL Ice = 531.4 tons
Average FREQUENCY = 13.85%
Average ALBEDO = 13.35*10^{-6} sr^{-1}
10 PMCs
0
50
100
150
200
250
300
350
400
450
500
550
Ice Water Content [gm/km^2]
ORBIT NODE choice = ALL nodes
SCATTERING ANGLE range = [90°,165°]
DETECTION threshold = f(SZA)
RESIDUAL filter: $r_{252}/r_{273} < 5$
15:14:45 Tue Feb 12 2013 /Users/deland/pmc/programs/gplot_v3_iwc_sza.pro


NOAA-9 SBUV/2 PMC Ice Water Content g-Plot: SH 1996-1997
LOCAL TIME adjustment = NONE
DATE range = [-20,+55] DSS
LATITUDE range = [-82°,-74°]
NORMALIZED Cumulative Frequency $g_{norm}(IWC_n)$
0.1000
0.0100
0.0010
0.0001
Linear Fit [IWC_{bin} = 70-430]
Slope(β_n) = -1.70E-02
Y-intercept = 0.695
2531 PMCs used [14557 scans]
Average IWC = 136.6 gm/km^2
TOTAL Ice = 581.9 tons
Average FREQUENCY = 17.39%
Average ALBEDO = 14.54*10^{-6} sr^{-1}
10 PMCs
0
50
100
150
200
250
300
350
400
450
500
550
Ice Water Content [gm/km^2]
ORBIT NODE choice = ALL nodes
SCATTERING ANGLE range = [90°,165°]
DETECTION threshold = f(SZA)
RESIDUAL filter: $r_{252}/r_{273} < 5$
15:14:46 Tue Feb 12 2013 /Users/deland/pmc/programs/gplot_v3_iwc_sza.pro

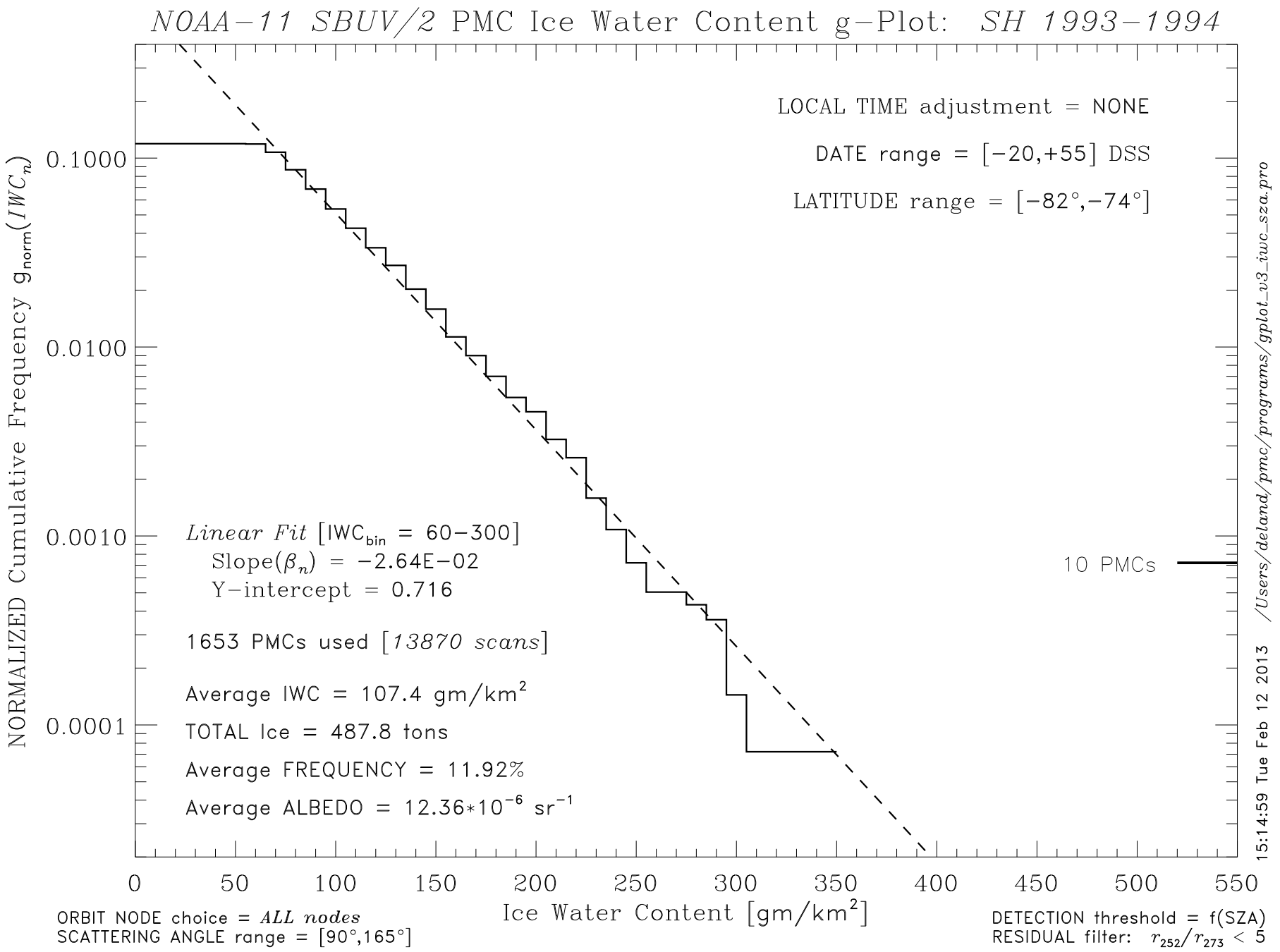
NOAA-11 SBUV/2 PMC Ice Water Content g-Plot: SH 1988-1989
LOCAL TIME adjustment = NONE
DATE range = [-20,+55] DSS
LATITUDE range = [-82°,-74°]
10 PMCs
Linear Fit [IWC_bin = 70-270]
Slope(β_n) = -2.72E-02
Y-intercept = 0.448
1039 PMCs used [13792 scans]
Average IWC = 103.6 gm/km²
TOTAL Ice = 476.5 tons
Average FREQUENCY = 7.53%
Average ALBEDO = 11.01*10⁻⁶ sr⁻¹
NORMALIZED Cumulative Frequency g_norm(IWC_n)
0.1000
0.0100
0.0010
0.0001
0
50
100
150
200
250
300
350
400
450
500
550
Ice Water Content [gm/km²]
ORBIT NODE choice = ALL nodes
SCATTERING ANGLE range = [90°,165°]
DETECTION threshold = f(SZA)
RESIDUAL filter: r252/r273 < 5
15:14:56 Tue Feb 12 2013 /Users/deland/pmc/programs/gplot_v3_iwc_sza.pro

NOAA-11 SBUV/2 PMC Ice Water Content g-Plot: SH 1989-1990
LOCAL TIME adjustment = NONE
DATE range = [-20,+55] DSS
LATITUDE range = [-82°,-74°]
Linear Fit [IWC_bin = 70-280]
Slope(β_n) = -2.64E-02
Y-intercept = 0.439
1054 PMCs used [13921 scans]
Average IWC = 105.3 gm/km²
TOTAL Ice = 469.9 tons
Average FREQUENCY = 7.57%
Average ALBEDO = 11.50*10⁻⁶ sr⁻¹
10 PMCs
NORMALIZED Cumulative Frequency g_norm(IWC_n)
0.1000
0.0100
0.0010
0.0001
0
50
100
150
200
250
300
350
400
450
500
550
Ice Water Content [gm/km²]
ORBIT NODE choice = ALL nodes
SCATTERING ANGLE range = [90°,165°]
DETECTION threshold = f(SZA)
RESIDUAL filter: r252/r273 < 5
15:14:56 Tue Feb 12 2013 /Users/deland/pmc/programs/gplot_v3_iwc_sza.pro

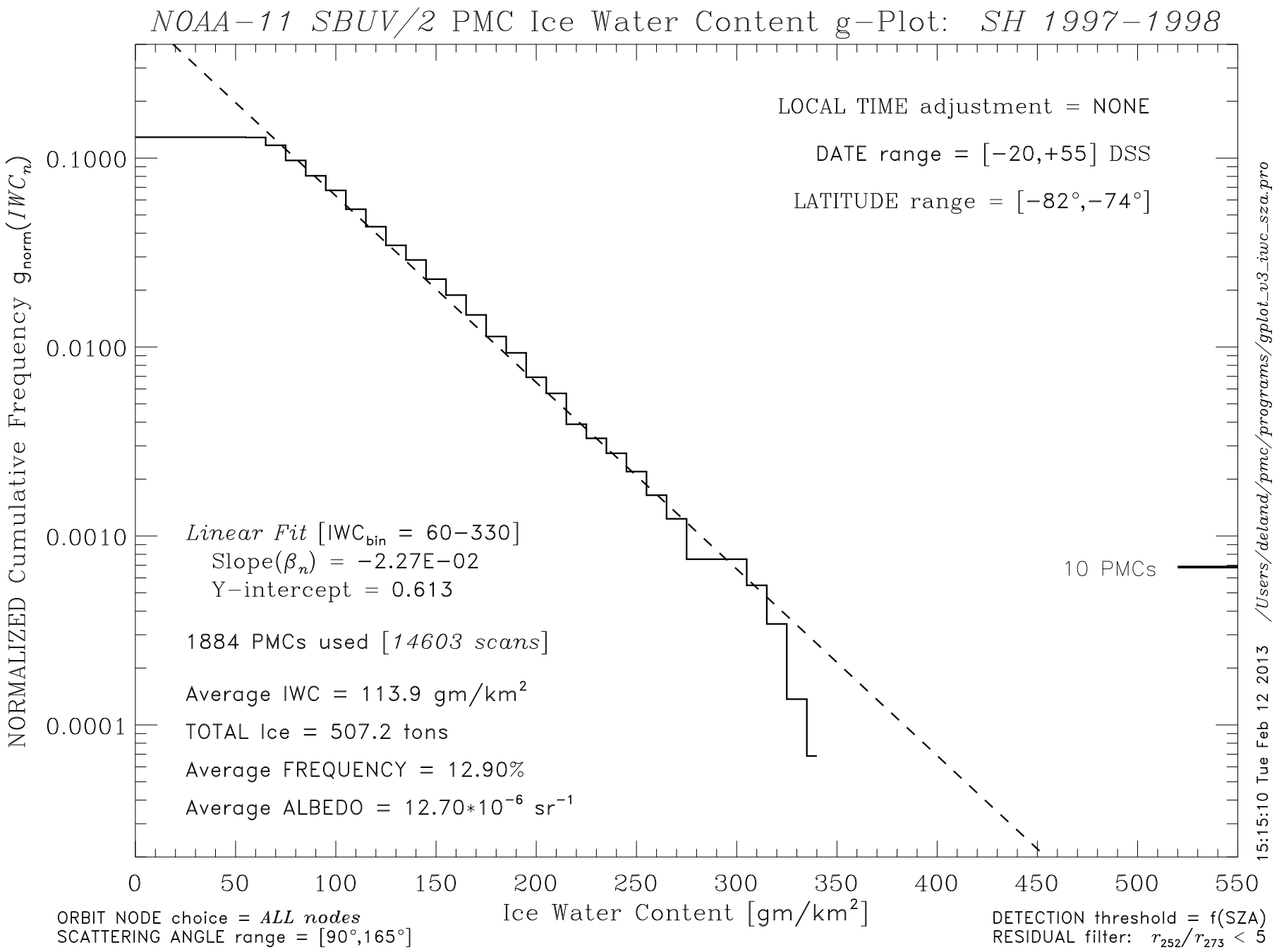

NOAA−11 SBUV/2 PMC Ice Water Content g−Plot: SH 1990−1991
LOCAL TIME adjustment = NONE
DATE range = [−20,+55] DSS
LATITUDE range = [−82°,−74°]
NORMALIZED Cumulative Frequency $g_{norm}(IWC_n)$
0.1000
0.0100
0.0010
0.0001
Linear Fit [IWC$_{bin}$ = 70−230]
Slope(β_n) = −2.63E−02
Y−intercept = 0.183
462 PMCs used [12766 scans]
Average IWC = 100.5 gm/km^2
TOTAL Ice = 432.4 tons
Average FREQUENCY = 3.62%
Average ALBEDO = 11.20*10^{-6} sr^{-1}
10 PMCs
0
50
100
150
200
250
300
350
400
450
500
550
Ice Water Content [gm/km^2]
15:14:57 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: $r_{252}/r_{273} < 5$

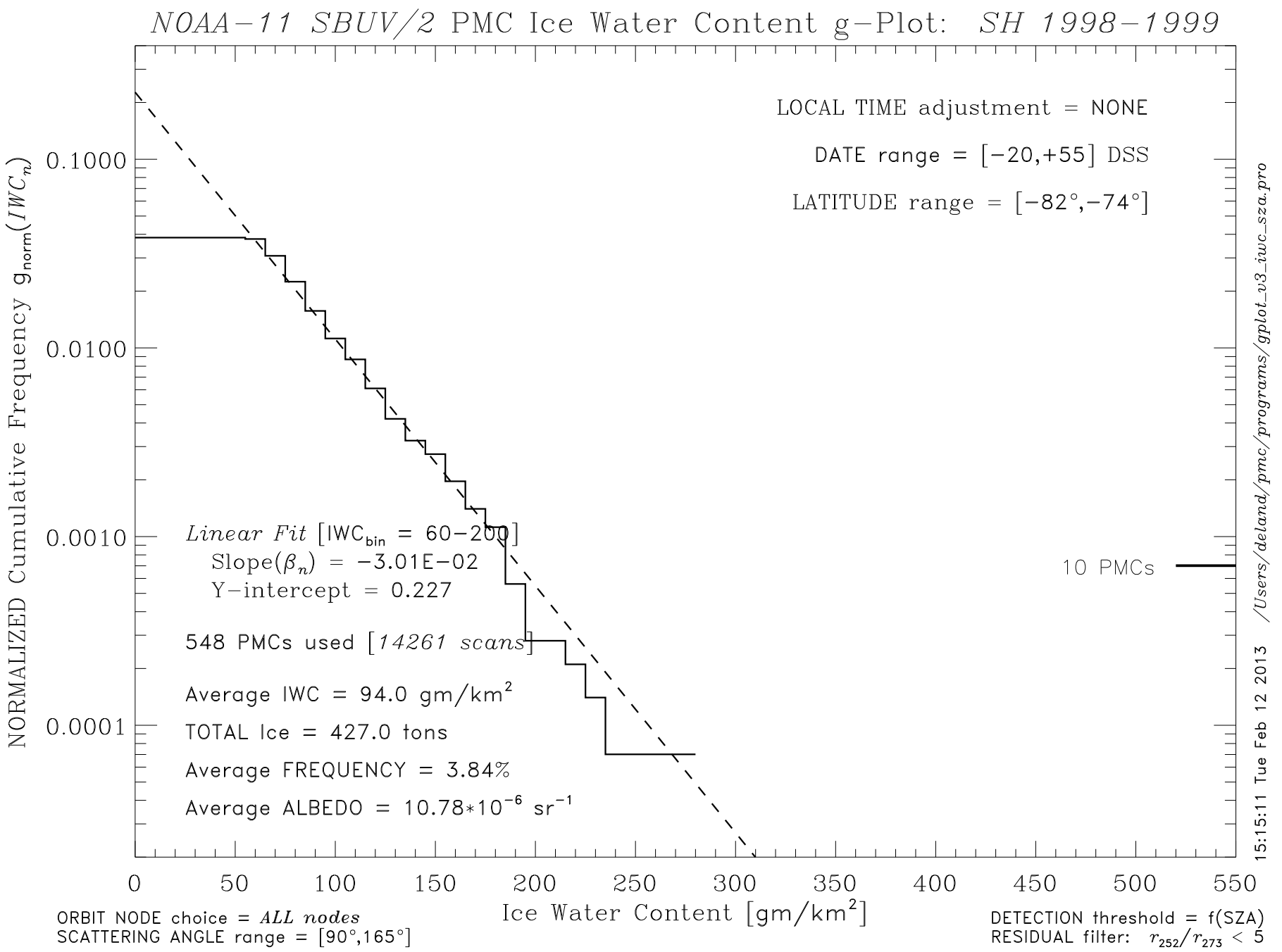
NOAA−11 SBUV/2 PMC Ice Water Content g−Plot: SH 1991−1992
LOCAL TIME adjustment = NONE
DATE range = [−20,+55] DSS
LATITUDE range = [−82°,−74°]
Linear Fit [IWC$_{bin}$ = 70−250]
Slope(β_n) = −2.72E−02
Y−intercept = 0.385
787 PMCs used [12990 scans]
Average IWC = 105.1 gm/km^2
TOTAL Ice = 452.1 tons
Average FREQUENCY = 6.06%
Average ALBEDO = 11.65*10^{-6} sr^{-1}
10 PMCs
NORMALIZED Cumulative Frequency g$_{norm}$(IWC$_n$)
0.1000
0.0100
0.0010
0.0001
0
50
100
150
200
250
300
350
400
450
500
550
Ice Water Content [gm/km^2]
ORBIT NODE choice = ALL nodes
SCATTERING ANGLE range = [90°,165°]
DETECTION threshold = f(SZA)
RESIDUAL filter: $r_{252}/r_{273} < 5$
15:14:57 Tue Feb 12 2013 /Users/deland/pmc/programs/gplot_v3_iwc_sza.pro

NOAA−11 SBUV/2 PMC Ice Water Content g−Plot: SH 1992−1993
LOCAL TIME adjustment = NONE
DATE range = [−20,+55] DSS
LATITUDE range = [−82°,−74°]
Linear Fit [IWC$_{bin}$ = 70−200]
Slope(β_n) = −3.44E−02
Y−intercept = 0.368
10 PMCs
495 PMCs used [13346 scans]
Average IWC = 96.0 gm/km^2
TOTAL Ice = 423.4 tons
Average FREQUENCY = 3.71%
Average ALBEDO = 11.06*10^{-6} sr^{-1}
NORMALIZED Cumulative Frequency g$_{norm}$(IWC$_n$)
0.1000
0.0100
0.0010
0.0001
0
50
100
150
200
250
300
350
400
450
500
550
Ice Water Content [gm/km^2]
ORBIT NODE choice = ALL nodes
SCATTERING ANGLE range = [90°,165°]
DETECTION threshold = f(SZA)
RESIDUAL filter: $r_{252}/r_{273} < 5$
15:14:58 Tue Feb 12 2013 /Users/deland/pmc/programs/gplot_v3_iwc_sza.pro

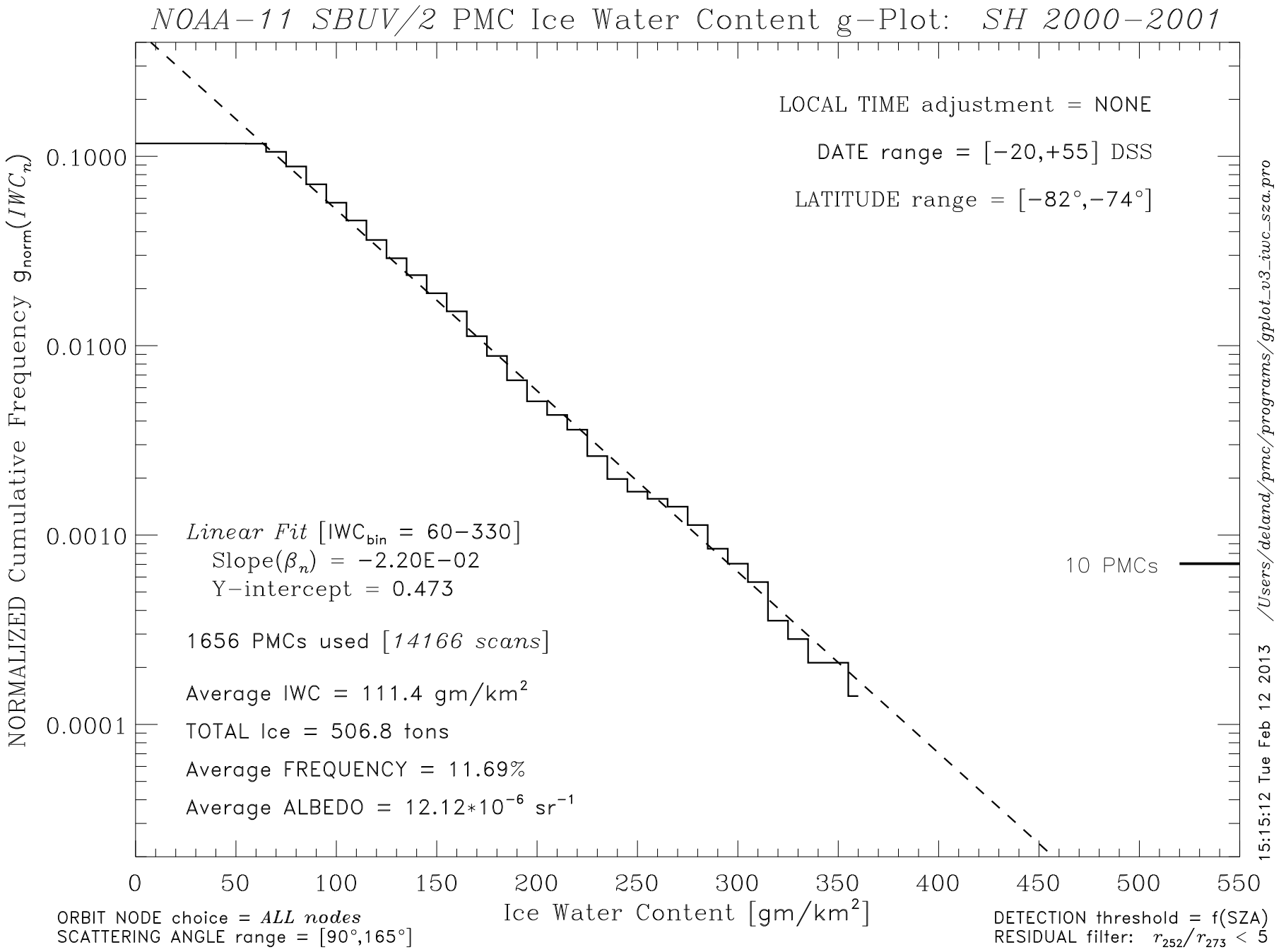

NOAA−11 SBUV/2 PMC Ice Water Content g−Plot: SH 1993−1994
LOCAL TIME adjustment = NONE
DATE range = [−20,+55] DSS
LATITUDE range = [−82°,−74°]
NORMALIZED Cumulative Frequency $g_{norm}(IWC_n)$
0.1000
0.0100
0.0010
0.0001
Linear Fit [IWC_{bin} = 60−300]
Slope(β_n) = −2.64E−02
Y−intercept = 0.716
1653 PMCs used [13870 scans]
Average IWC = 107.4 gm/km^2
TOTAL Ice = 487.8 tons
Average FREQUENCY = 11.92%
Average ALBEDO = 12.36∗10^{-6} sr^{-1}
10 PMCs
0
50
100
150
200
250
300
350
400
450
500
550
Ice Water Content [gm/km^2]
ORBIT NODE choice = ALL nodes
SCATTERING ANGLE range = [90°,165°]
DETECTION threshold = f(SZA)
RESIDUAL filter: $r_{252}/r_{273} < 5$
15:14:59 Tue Feb 12 2013 /Users/deland/pmc/programs/gplot_v3_iwc_sza.pro

NOAA−11 SBUV/2 PMC Ice Water Content g−Plot: SH 1994−1995
LOCAL TIME adjustment = NONE
DATE range = [−20,+55] DSS
LATITUDE range = [−82°,−74°]
Linear Fit [IWC$_{bin}$ = 70−330]
Slope(β_n) = −2.30E−02
Y−intercept = 0.908
2054 PMCs used [13485 scans]
Average IWC = 120.2 gm/km^2
TOTAL Ice = 524.1 tons
Average FREQUENCY = 15.23%
Average ALBEDO = 13.92*10^{-6} sr^{-1}
10 PMCs
NORMALIZED Cumulative Frequency g$_{norm}$(IWC$_n$)
0.1000
0.0100
0.0010
0.0001
0
50
100
150
200
250
300
350
400
450
500
550
Ice Water Content [gm/km^2]
ORBIT NODE choice = ALL nodes
SCATTERING ANGLE range = [90°,165°]
DETECTION threshold = f(SZA)
RESIDUAL filter: $r_{252}/r_{273} < 5$
15:14:59 Tue Feb 12 2013 /Users/deland/pmc/programs/gplot_v3_iwc_sza.pro

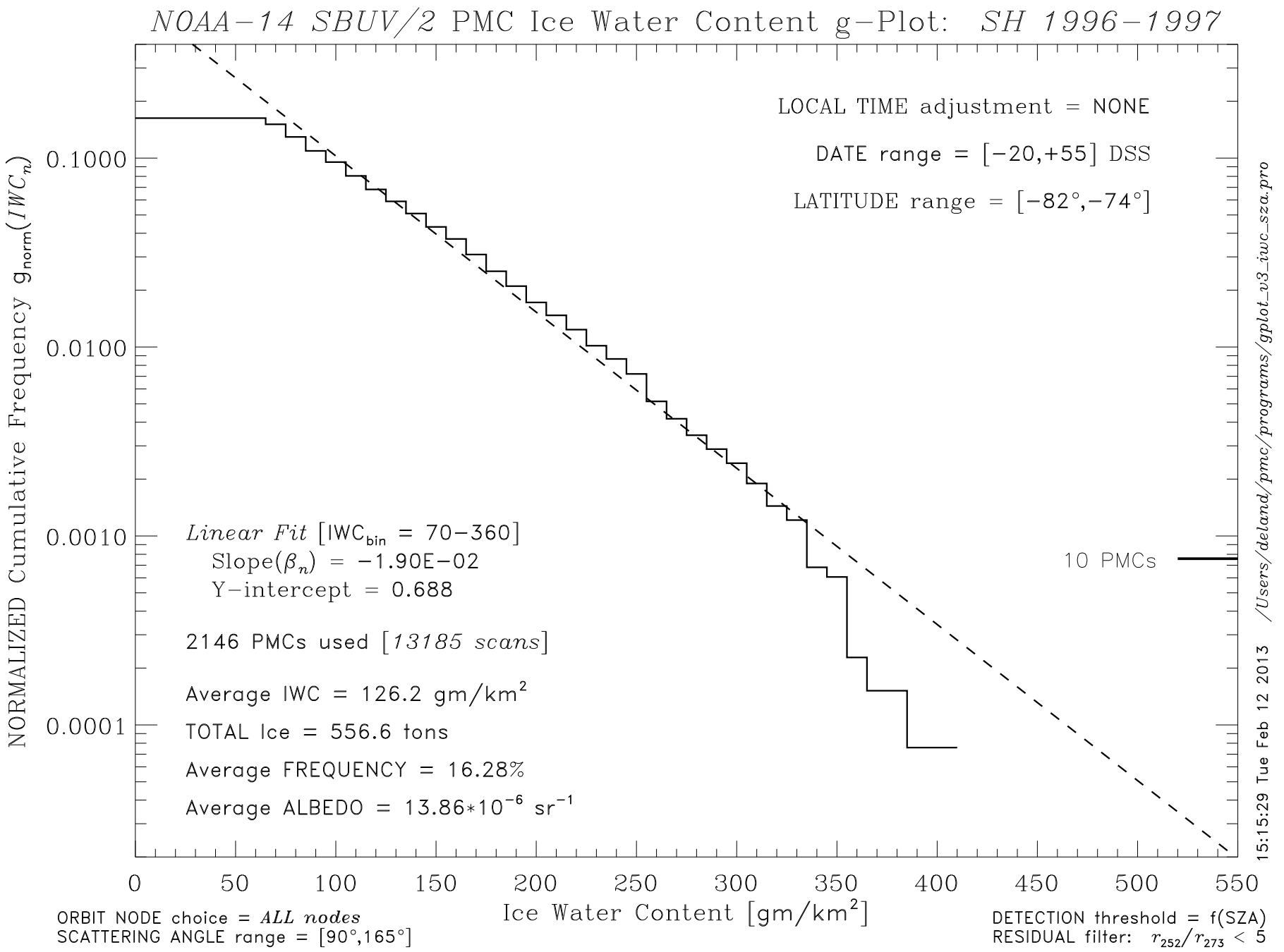

NOAA-11 SBUV/2 PMC Ice Water Content g-Plot: SH 1997-1998
LOCAL TIME adjustment = NONE
DATE range = [-20,+55] DSS
LATITUDE range = [-82°,-74°]
NORMALIZED Cumulative Frequency $g_{norm}(IWC_n)$
0.1000
0.0100
0.0010
0.0001
Linear Fit [IWC_{bin} = 60-330]
Slope(β_n) = -2.27E-02
Y-intercept = 0.613
1884 PMCs used [14603 scans]
Average IWC = 113.9 gm/km^2
TOTAL Ice = 507.2 tons
Average FREQUENCY = 12.90%
Average ALBEDO = 12.70*10^{-6} sr^{-1}
10 PMCs
0
50
100
150
200
250
300
350
400
450
500
550
Ice Water Content [gm/km^2]
ORBIT NODE choice = ALL nodes
SCATTERING ANGLE range = [90°,165°]
DETECTION threshold = f(SZA)
RESIDUAL filter: $r_{252}/r_{273} < 5$
15:15:10 Tue Feb 12 2013 /Users/deland/pmc/programs/gplot_v3_iwc_sza.pro

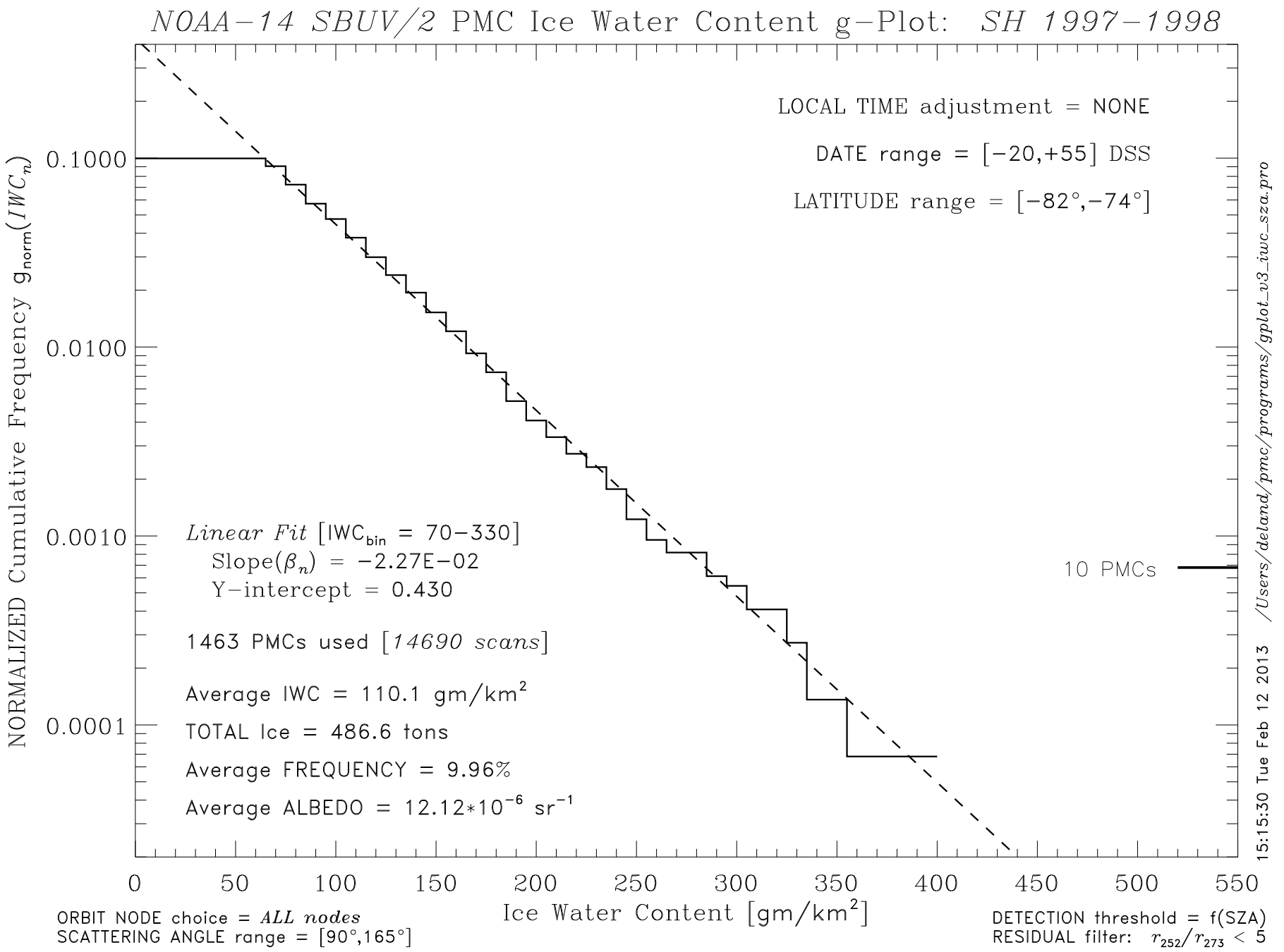

NOAA−11 SBUV/2 PMC Ice Water Content g−Plot: SH 1998−1999
LOCAL TIME adjustment = NONE
DATE range = [−20,+55] DSS
LATITUDE range = [−82°,−74°]
NORMALIZED Cumulative Frequency $g_{norm}(IWC_n)$
0.1000
0.0100
0.0010
0.0001
Linear Fit [IWC_{bin} = 60−200]
Slope(β_n) = −3.01E−02
Y−intercept = 0.227
548 PMCs used [14261 scans]
Average IWC = 94.0 gm/km^2
TOTAL Ice = 427.0 tons
Average FREQUENCY = 3.84%
Average ALBEDO = 10.78∗10^{-6} sr^{-1}
10 PMCs
0
50
100
150
200
250
300
350
400
450
500
550
Ice Water Content [gm/km^2]
ORBIT NODE choice = ALL nodes
SCATTERING ANGLE range = [90°,165°]
DETECTION threshold = f(SZA)
RESIDUAL filter: $r_{252}/r_{273} < 5$
15:15:11 Tue Feb 12 2013 /Users/deland/pmc/programs/gplot_v3_iwc_sza.pro

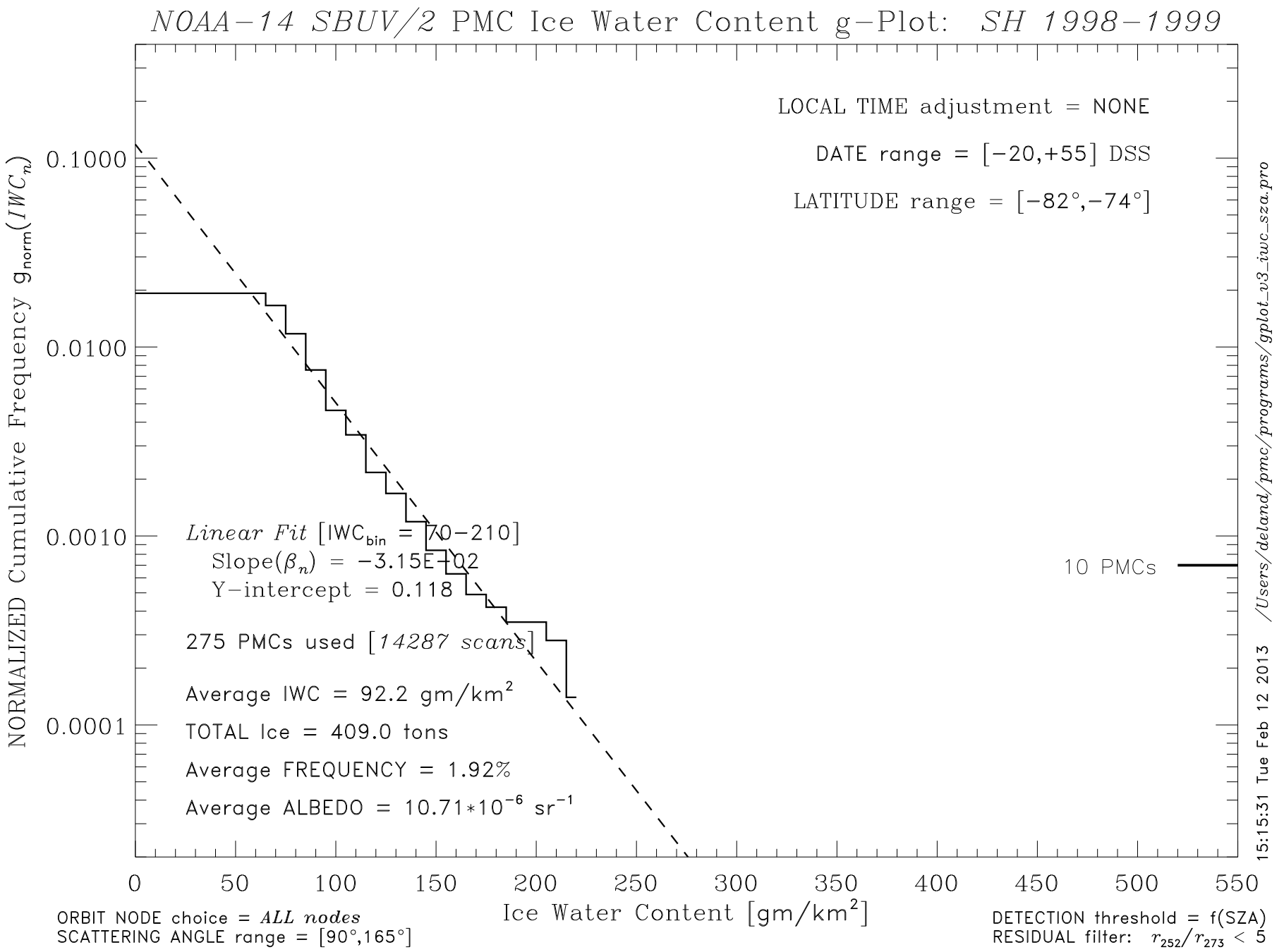
NOAA-11 SBUV/2 PMC Ice Water Content g-Plot: SH 1999-2000
LOCAL TIME adjustment = NONE
DATE range = [-20,+55] DSS
LATITUDE range = [-82°,-74°]
10 PMCs
Linear Fit [IWC_bin = 60-230]
Slope(β_n) = -2.84E-02
Y-intercept = 0.139
453 PMCs used [14752 scans]
Average IWC = 91.5 gm/km²
TOTAL Ice = 428.0 tons
Average FREQUENCY = 3.07%
Average ALBEDO = 10.26*10⁻⁶ sr⁻¹
NORMALIZED Cumulative Frequency g_norm(IWC_n)
0.1000
0.0100
0.0010
0.0001
0
50
100
150
200
250
300
350
400
450
500
550
Ice Water Content [gm/km²]
ORBIT NODE choice = ALL nodes
SCATTERING ANGLE range = [90°,165°]
DETECTION threshold = f(SZA)
RESIDUAL filter: r252/r273 < 5
15:15:11 Tue Feb 12 2013 /Users/deland/pmc/programs/gplot_v3_iwc_sza.pro

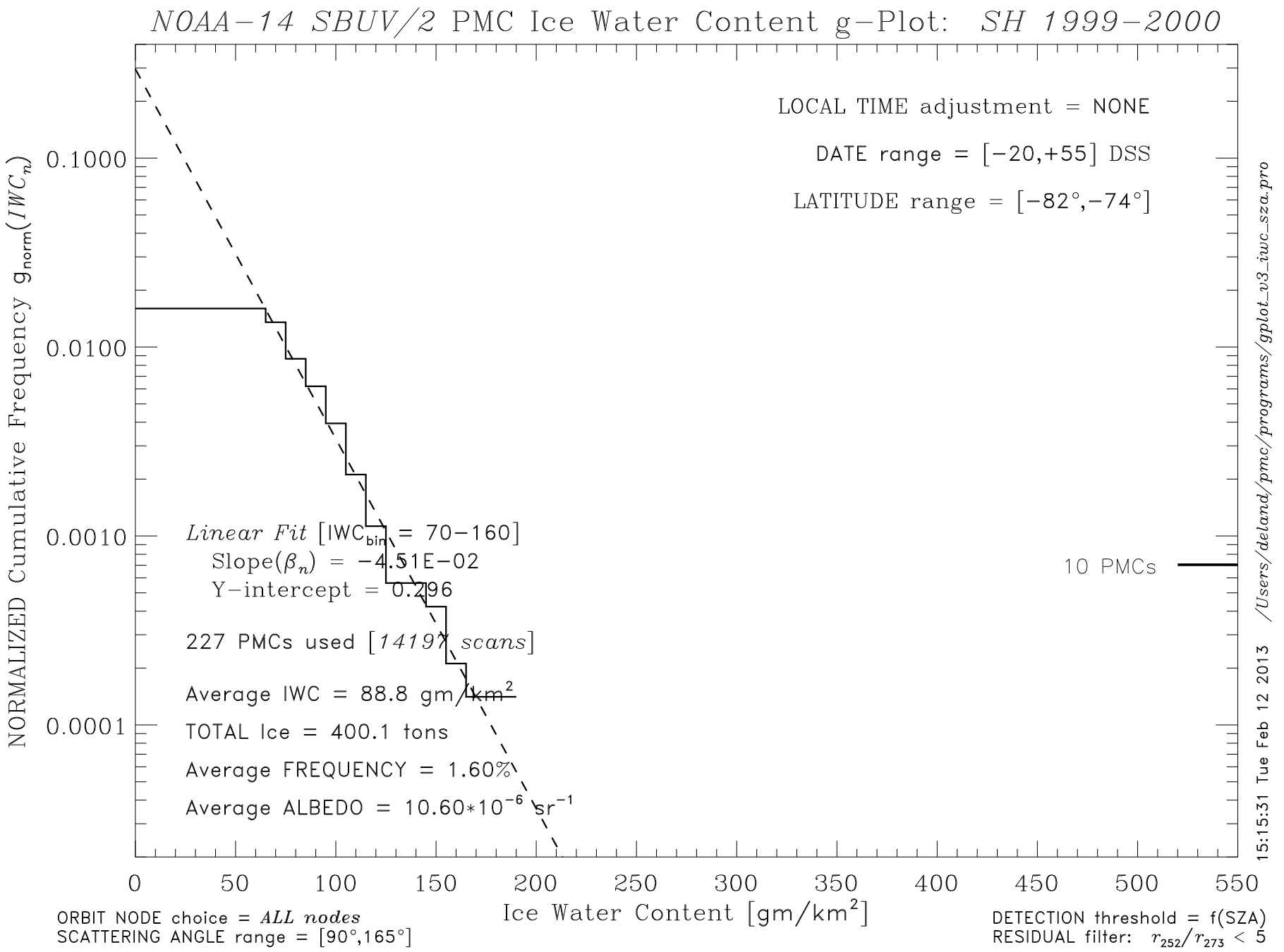

NOAA-11 SBUV/2 PMC Ice Water Content g-Plot: SH 2000-2001
LOCAL TIME adjustment = NONE
DATE range = [-20,+55] DSS
LATITUDE range = [-82°,-74°]
NORMALIZED Cumulative Frequency $g_{norm}(IWC_n)$
0.1000
0.0100
0.0010
0.0001
Linear Fit [IWC$_{bin}$ = 60-330]
Slope(β_n) = -2.20E-02
Y-intercept = 0.473
1656 PMCs used [14166 scans]
Average IWC = 111.4 gm/km^2
TOTAL Ice = 506.8 tons
Average FREQUENCY = 11.69%
Average ALBEDO = 12.12*10^{-6} sr^{-1}
10 PMCs
0
50
100
150
200
250
300
350
400
450
500
550
Ice Water Content [gm/km^2]
15:15:12 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: $r_{252}/r_{273} < 5$

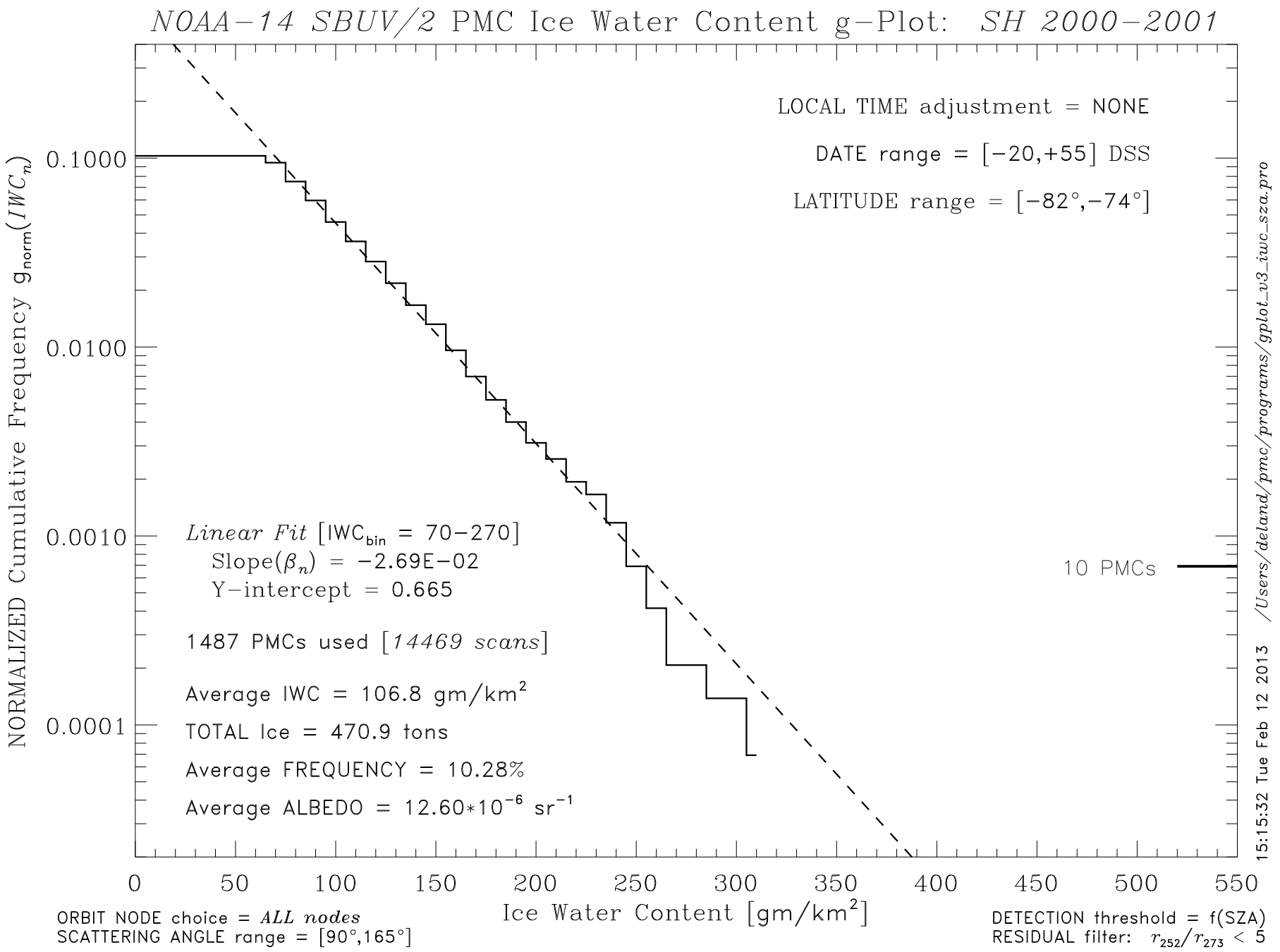
NOAA−14 SBUV/2 PMC Ice Water Content g−Plot: SH 1995−1996
LOCAL TIME adjustment = NONE
DATE range = [−20,+55] DSS
LATITUDE range = [−82°,−74°]
10 PMCs
Linear Fit [IWC$_{bin}$ = 70−290]
Slope(β_n) = −2.73E−02
Y−intercept = 0.612
1063 PMCs used [11483 scans]
Average IWC = 106.9 gm/km^2
TOTAL Ice = 480.5 tons
Average FREQUENCY = 9.26%
Average ALBEDO = 11.82*10^{-6} sr^{-1}
NORMALIZED Cumulative Frequency g$_{norm}$(IWC$_n$)
0.1000
0.0100
0.0010
0.0001
0
50
100
150
200
250
300
350
400
450
500
550
Ice Water Content [gm/km^2]
ORBIT NODE choice = ALL nodes
SCATTERING ANGLE range = [90°,165°]
DETECTION threshold = f(SZA)
RESIDUAL filter: $r_{252}/r_{273} < 5$
15:15:29 Tue Feb 12 2013 /Users/deland/pmc/programs/gplot_v3_iwc_sza.pro

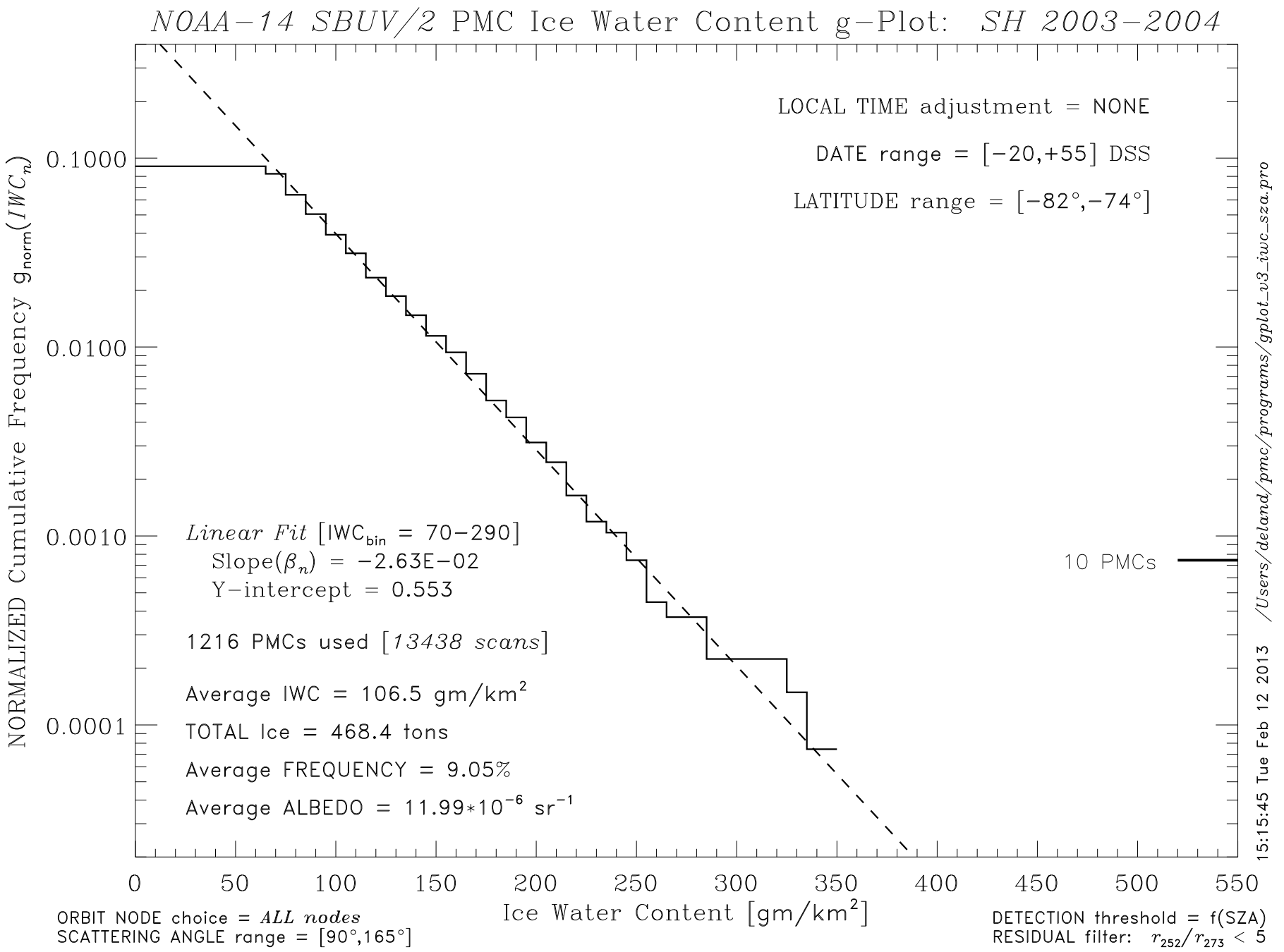

NOAA−14 SBUV/2 PMC Ice Water Content g−Plot: SH 1996−1997
LOCAL TIME adjustment = NONE
DATE range = [−20,+55] DSS
LATITUDE range = [−82°,−74°]
NORMALIZED Cumulative Frequency $g_{norm}(IWC_n)$
0.1000
0.0100
0.0010
0.0001
Linear Fit [IWC_{bin} = 70−360]
Slope(β_n) = −1.90E−02
Y−intercept = 0.688
2146 PMCs used [13185 scans]
Average IWC = 126.2 gm/km^2
TOTAL Ice = 556.6 tons
Average FREQUENCY = 16.28%
Average ALBEDO = 13.86∗10^{-6} sr^{-1}
10 PMCs
0
50
100
150
200
250
300
350
400
450
500
550
Ice Water Content [gm/km^2]
ORBIT NODE choice = ALL nodes
SCATTERING ANGLE range = [90°,165°]
DETECTION threshold = f(SZA)
RESIDUAL filter: $r_{252}/r_{273} < 5$
15:15:29 Tue Feb 12 2013 /Users/deland/pmc/programs/gplot_v3_iwc_sza.pro

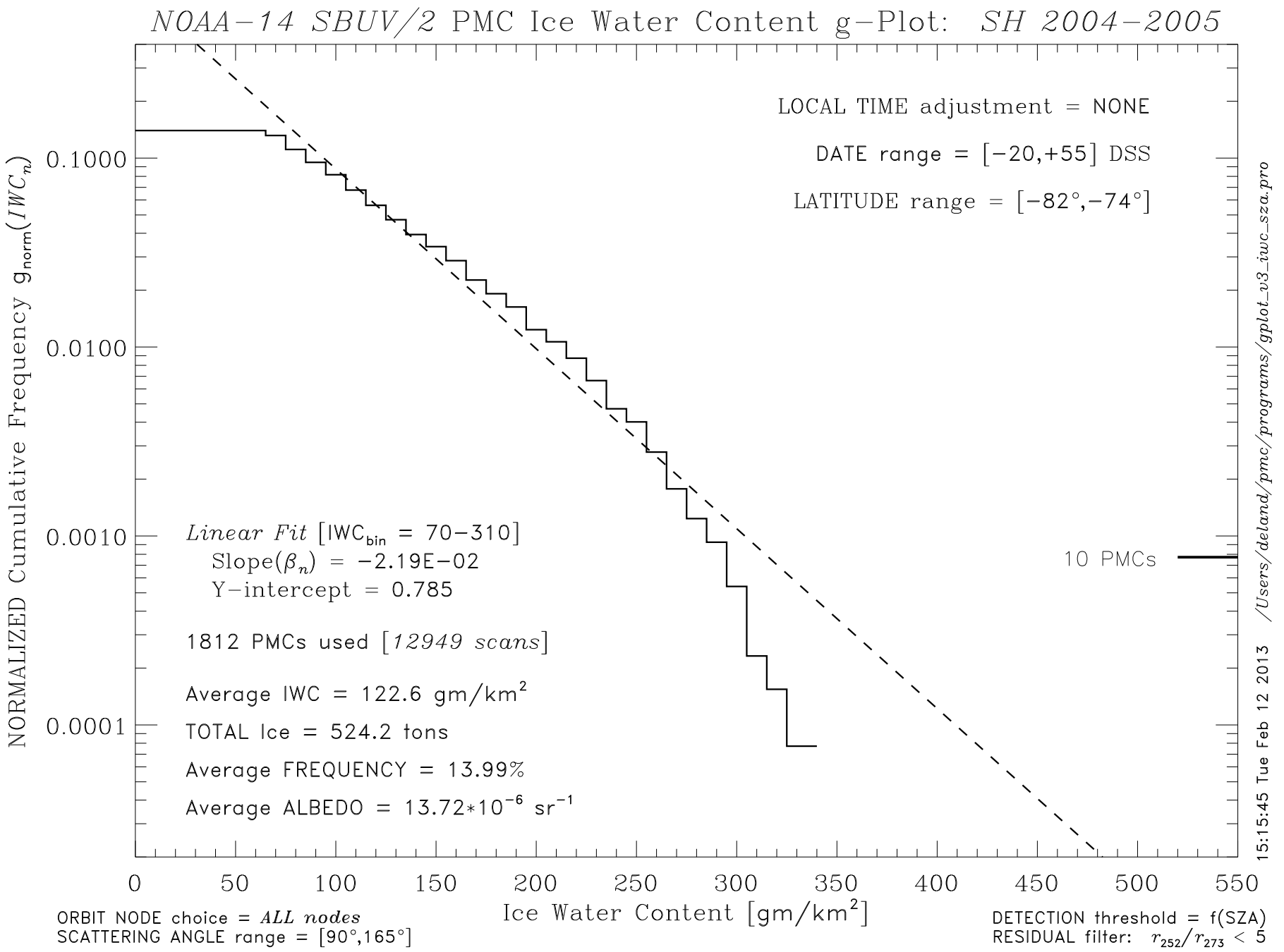

NOAA−14 SBUV/2 PMC Ice Water Content g−Plot: SH 1997−1998
LOCAL TIME adjustment = NONE
DATE range = [−20,+55] DSS
LATITUDE range = [−82°,−74°]
NORMALIZED Cumulative Frequency $g_{norm}(IWC_n)$
0.1000
0.0100
0.0010
0.0001
Linear Fit [IWC_{bin} = 70−330]
Slope(β_n) = −2.27E−02
Y−intercept = 0.430
1463 PMCs used [14690 scans]
Average IWC = 110.1 gm/km^2
TOTAL Ice = 486.6 tons
Average FREQUENCY = 9.96%
Average ALBEDO = 12.12∗10^{-6} sr^{-1}
10 PMCs
0
50
100
150
200
250
300
350
400
450
500
550
Ice Water Content [gm/km^2]
15:15:30 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: $r_{252}/r_{273} < 5$

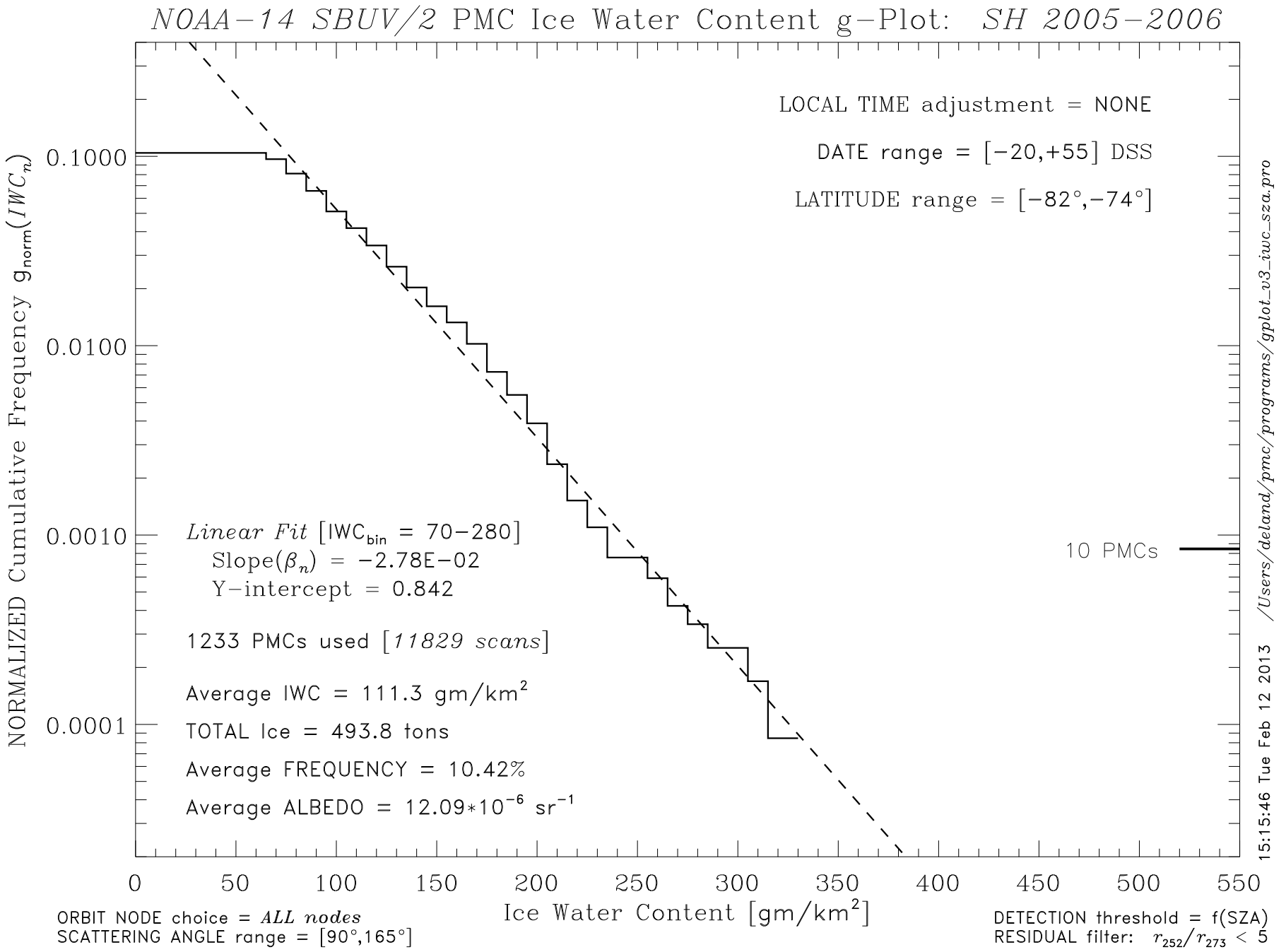

NOAA−14 SBUV/2 PMC Ice Water Content g−Plot: SH 1998−1999
LOCAL TIME adjustment = NONE
DATE range = [−20,+55] DSS
LATITUDE range = [−82°,−74°]
NORMALIZED Cumulative Frequency $g_{norm}(IWC_n)$
0.1000
0.0100
0.0010
0.0001
Linear Fit [IWC$_{bin}$ = 70−210]
Slope(β_n) = −3.15E+02
Y−intercept = 0.118
275 PMCs used [14287 scans]
Average IWC = 92.2 gm/km^2
TOTAL Ice = 409.0 tons
Average FREQUENCY = 1.92%
Average ALBEDO = 10.71∗10^{-6} sr^{-1}
10 PMCs
0
50
100
150
200
250
300
350
400
450
500
550
Ice Water Content [gm/km^2]
ORBIT NODE choice = ALL nodes
SCATTERING ANGLE range = [90°,165°]
DETECTION threshold = f(SZA)
RESIDUAL filter: $r_{252}/r_{273} < 5$
15:15:31 Tue Feb 12 2013 /Users/deland/pmc/programs/gplot_v3_iwc_sza.pro


NOAA−14 SBUV/2 PMC Ice Water Content g−Plot: SH 1999−2000
LOCAL TIME adjustment = NONE
DATE range = [−20,+55] DSS
LATITUDE range = [−82°,−74°]
NORMALIZED Cumulative Frequency $g_{norm}(IWC_n)$
0.1000
0.0100
0.0010
0.0001
Linear Fit [IWC_{bin} = 70−160]
Slope(β_n) = −4.51E−02
Y−intercept = 0.296
227 PMCs used [1419 scans]
Average IWC = 88.8 gm/km^2
TOTAL Ice = 400.1 tons
Average FREQUENCY = 1.60%
Average ALBEDO = 10.60*10^{-6} sr^{-1}
10 PMCs
0
50
100
150
200
250
300
350
400
450
500
550
Ice Water Content [gm/km^2]
15:15:31 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: $r_{252}/r_{273} < 5$

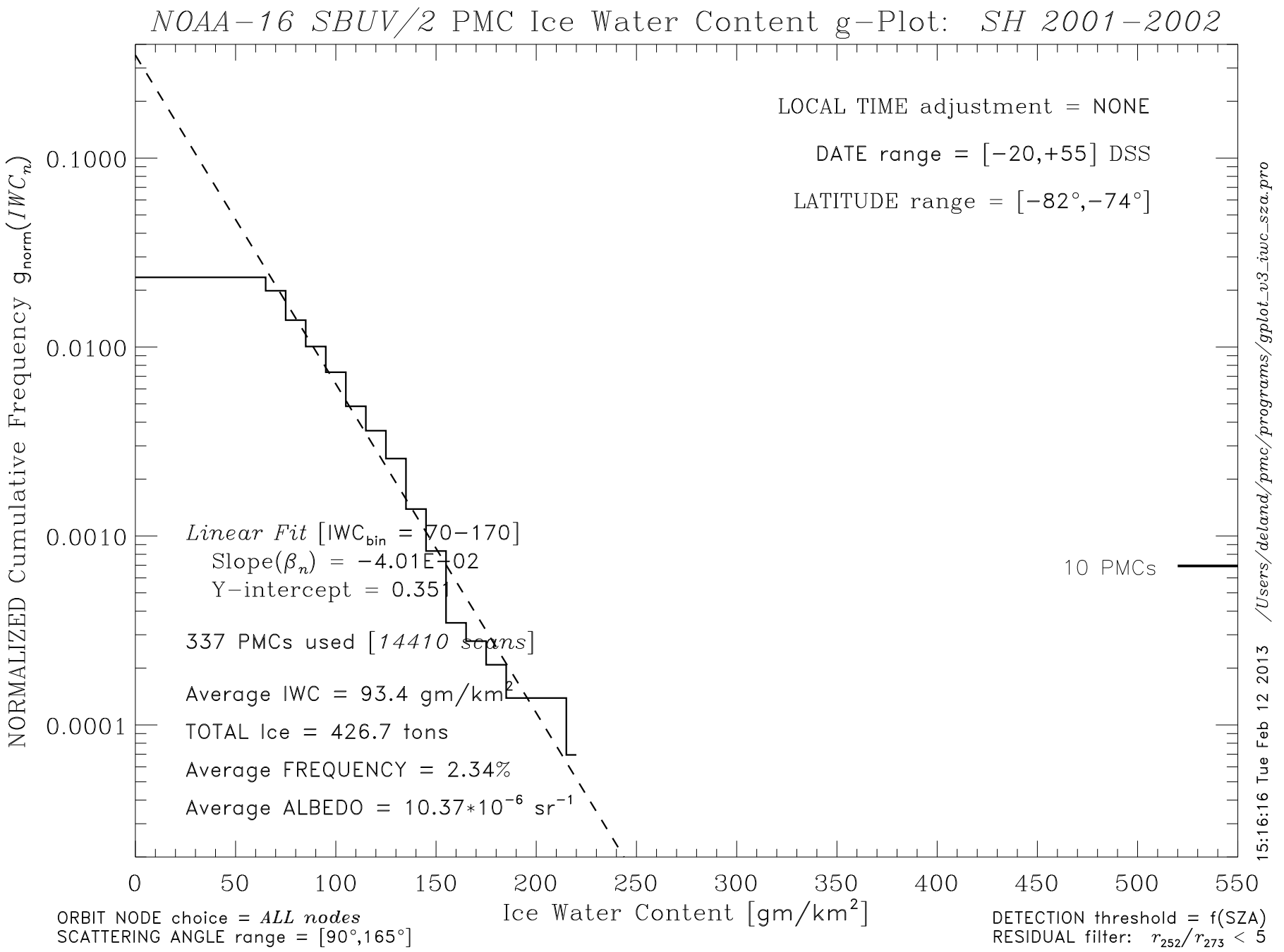

NOAA−14 SBUV/2 PMC Ice Water Content g−Plot: SH 2000−2001
LOCAL TIME adjustment = NONE
DATE range = [−20,+55] DSS
LATITUDE range = [−82°,−74°]
NORMALIZED Cumulative Frequency $g_{norm}(IWC_n)$
0.1000
0.0100
0.0010
0.0001
Linear Fit [IWC_{bin} = 70−270]
Slope(β_n) = −2.69E−02
Y−intercept = 0.665
1487 PMCs used [14469 scans]
Average IWC = 106.8 gm/km^2
TOTAL Ice = 470.9 tons
Average FREQUENCY = 10.28%
Average ALBEDO = 12.60∗10^{-6} sr^{-1}
10 PMCs
0
50
100
150
200
250
300
350
400
450
500
550
Ice Water Content [gm/km^2]
15:15:32 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−14 SBUV/2 PMC Ice Water Content g−Plot: SH 2003−2004
LOCAL TIME adjustment = NONE
DATE range = [−20,+55] DSS
LATITUDE range = [−82°,−74°]
NORMALIZED Cumulative Frequency $g_{norm}(IWC_n)$
0.1000
0.0100
0.0010
0.0001
Linear Fit [IWC_{bin} = 70−290]
Slope(β_n) = −2.63E−02
Y−intercept = 0.553
1216 PMCs used [13438 scans]
Average IWC = 106.5 gm/km^2
TOTAL Ice = 468.4 tons
Average FREQUENCY = 9.05%
Average ALBEDO = 11.99∗10^{-6} sr^{-1}
10 PMCs
0
50
100
150
200
250
300
350
400
450
500
550
Ice Water Content [gm/km^2]
15:15:45 Tue Feb 12 2013 /Users/deland/pmc/programs/gplot_v3_iwc_sza.pro
ORBIT NODE choice = ALL nodes
SCATTERING ANGLE range = [90°,165°]
DETECTION threshold = f(SZA)
RESIDUAL filter: $r_{252}/r_{273} < 5$

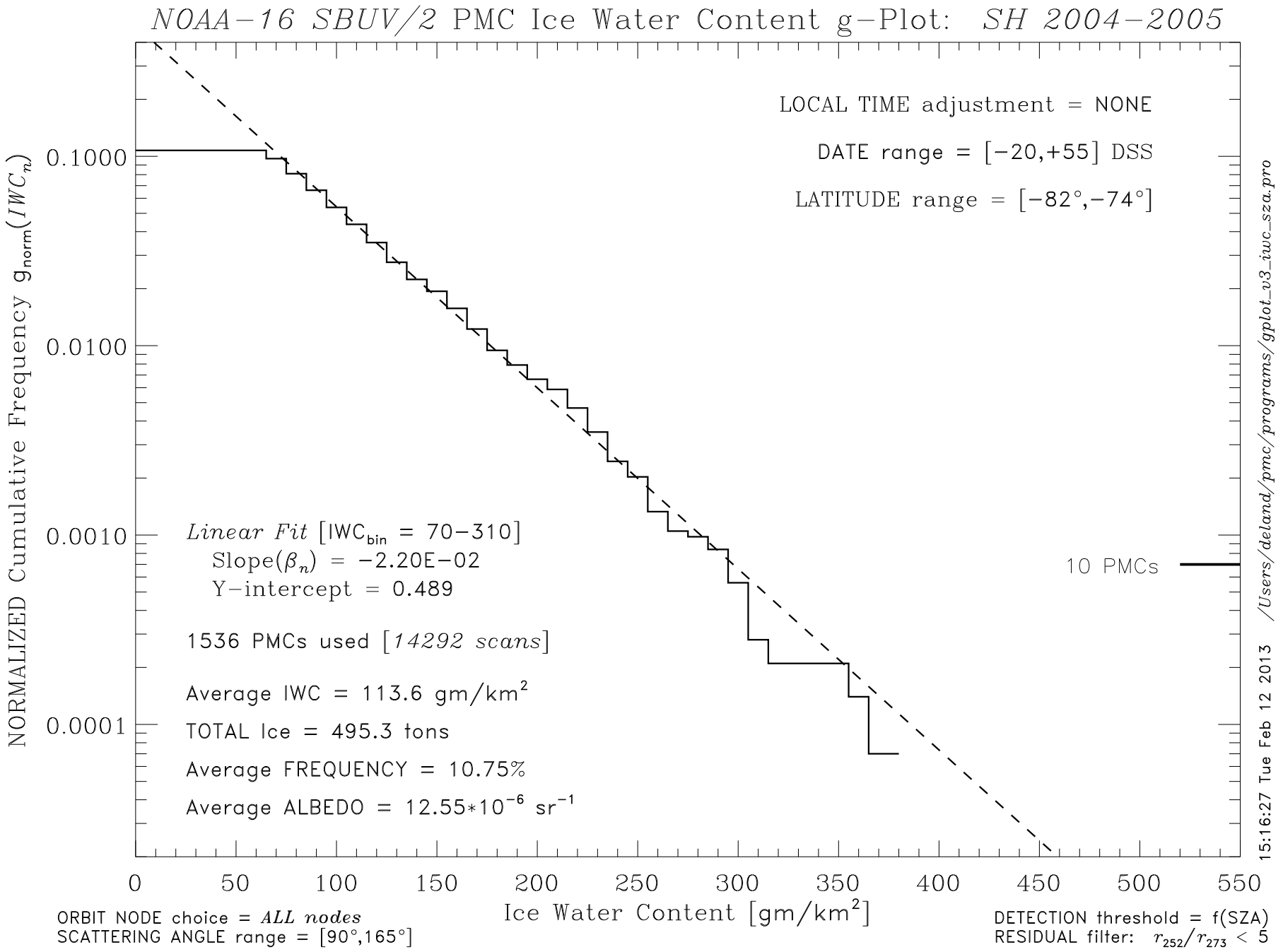

NOAA−14 SBUV/2 PMC Ice Water Content g−Plot: SH 2004−2005
LOCAL TIME adjustment = NONE
DATE range = [−20,+55] DSS
LATITUDE range = [−82°,−74°]
NORMALIZED Cumulative Frequency $g_{norm}(IWC_n)$
0.1000
0.0100
0.0010
0.0001
Linear Fit [IWC$_{bin}$ = 70−310]
Slope(β_n) = −2.19E−02
Y−intercept = 0.785
1812 PMCs used [12949 scans]
Average IWC = 122.6 gm/km^2
TOTAL Ice = 524.2 tons
Average FREQUENCY = 13.99%
Average ALBEDO = 13.72*10^{-6} sr^{-1}
10 PMCs
0
50
100
150
200
250
300
350
400
450
500
550
Ice Water Content [gm/km^2]
15:15:45 Tue Feb 12 2013 /Users/deland/pmc/programs/gplot_v3_iwc_sza.pro
ORBIT NODE choice = ALL nodes
SCATTERING ANGLE range = [90°,165°]
DETECTION threshold = f(SZA)
RESIDUAL filter: $r_{252}/r_{273} < 5$

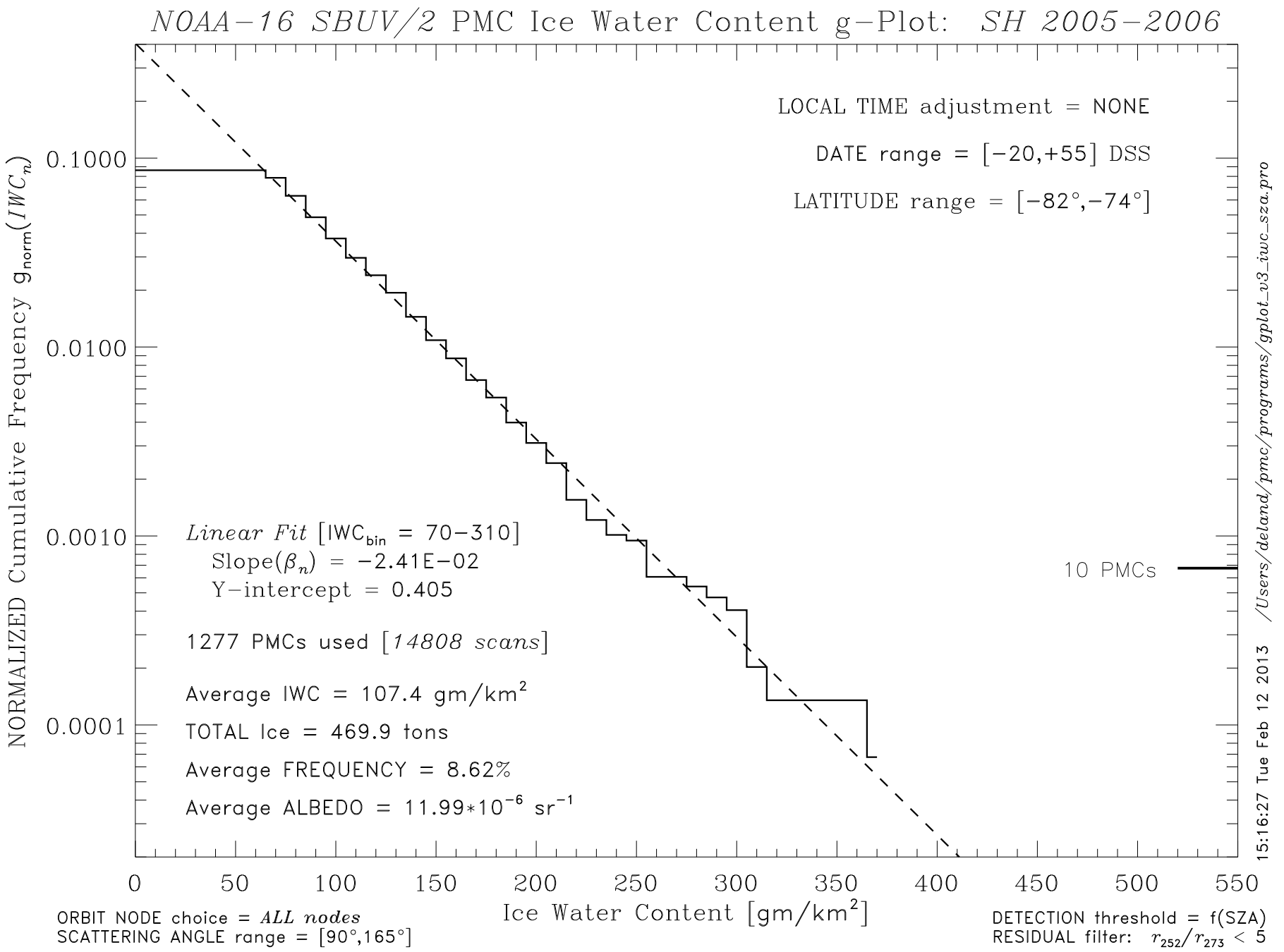

NOAA−14 SBUV/2 PMC Ice Water Content g−Plot: SH 2005−2006
LOCAL TIME adjustment = NONE
DATE range = [−20,+55] DSS
LATITUDE range = [−82°,−74°]
NORMALIZED Cumulative Frequency $g_{norm}(IWC_n)$
0.1000
0.0100
0.0010
0.0001
Linear Fit [IWC_{bin} = 70−280]
Slope(β_n) = −2.78E−02
Y−intercept = 0.842
1233 PMCs used [11829 scans]
Average IWC = 111.3 gm/km^2
TOTAL Ice = 493.8 tons
Average FREQUENCY = 10.42%
Average ALBEDO = 12.09∗10^{-6} sr^{-1}
10 PMCs
0
50
100
150
200
250
300
350
400
450
500
550
Ice Water Content [gm/km^2]
ORBIT NODE choice = ALL nodes
SCATTERING ANGLE range = [90°,165°]
DETECTION threshold = f(SZA)
RESIDUAL filter: $r_{252}/r_{273} < 5$
15:15:46 Tue Feb 12 2013 /Users/deland/pmc/programs/gplot_v3_iwc_sza.pro

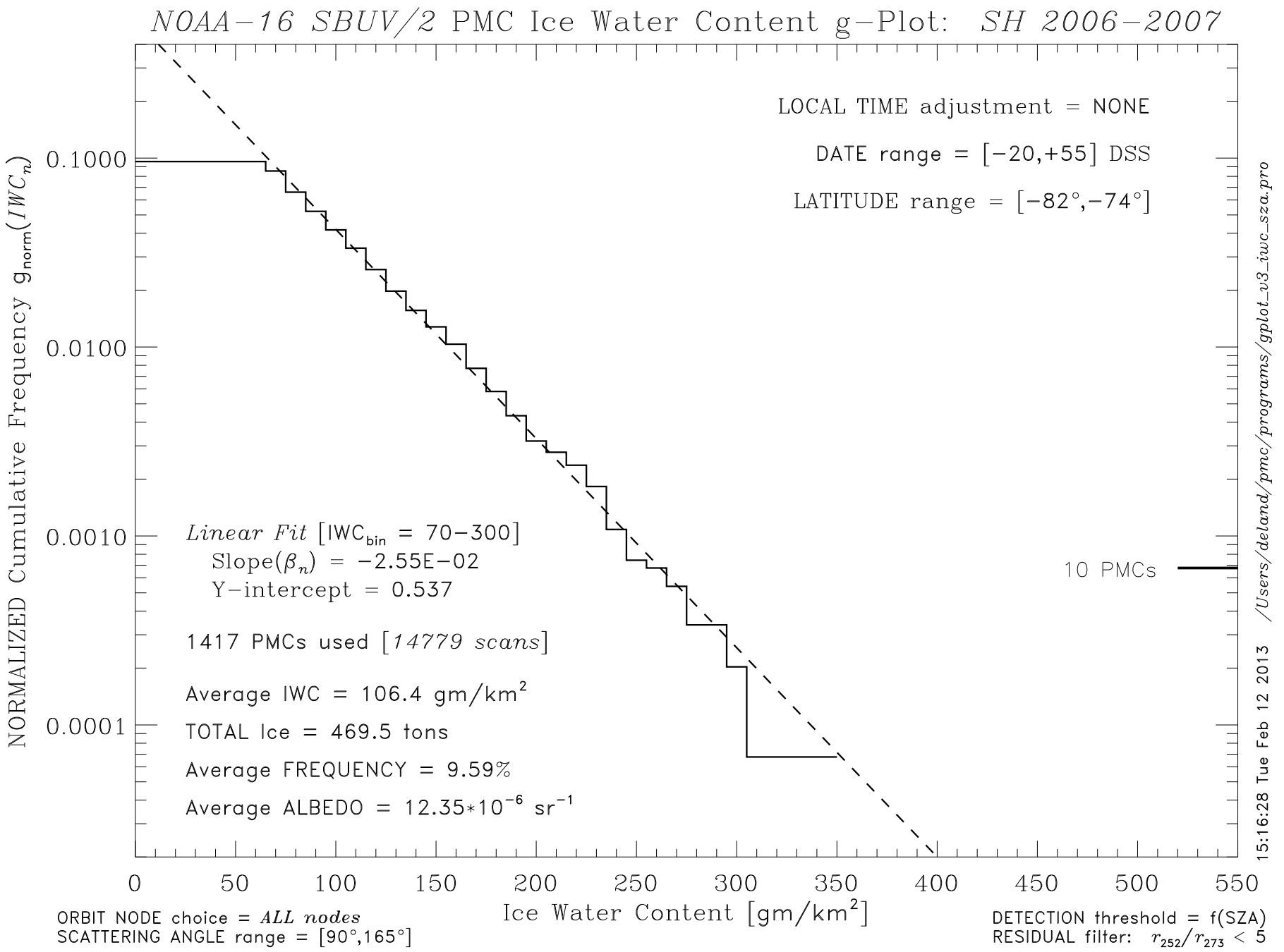
NOAA-16 SBUV/2 PMC Ice Water Content g-Plot: SH 2000-2001
LOCAL TIME adjustment = NONE
DATE range = [-20,+55] DSS
LATITUDE range = [-82°,-74°]
Linear Fit [IWC_bin = 70-290]
Slope(β_n) = -2.68E-02
Y-intercept = 0.696
1464 PMCs used [14471 scans]
Average IWC = 108.8 gm/km²
TOTAL Ice = 489.1 tons
Average FREQUENCY = 10.12%
Average ALBEDO = 12.07*10⁻⁶ sr⁻¹
10 PMCs
NORMALIZED Cumulative Frequency g_norm(IWC_n)
0.1000
0.0100
0.0010
0.0001
0
50
100
150
200
250
300
350
400
450
500
550
Ice Water Content [gm/km²]
ORBIT NODE choice = ALL nodes
SCATTERING ANGLE range = [90°,165°]
DETECTION threshold = f(SZA)
RESIDUAL filter: r252/r273 < 5
15:16:15 Tue Feb 12 2013 /Users/deland/pmc/programs/gplot_v3_iwc_sza.pro


NOAA−16 SBUV/2 PMC Ice Water Content g−Plot: SH 2001−2002
LOCAL TIME adjustment = NONE
DATE range = [−20,+55] DSS
LATITUDE range = [−82°,−74°]
NORMALIZED Cumulative Frequency $g_{norm}(IWC_n)$
0.1000
0.0100
0.0010
0.0001
Linear Fit [IWC_{bin} = 70−170]
Slope(β_n) = −4.01E−02
Y−intercept = 0.351
337 PMCs used [14410 scans]
Average IWC = 93.4 gm/km^2
TOTAL Ice = 426.7 tons
Average FREQUENCY = 2.34%
Average ALBEDO = 10.37∗10^{-6} sr^{-1}
10 PMCs
0
50
100
150
200
250
300
350
400
450
500
550
Ice Water Content [gm/km^2]
ORBIT NODE choice = ALL nodes
SCATTERING ANGLE range = [90°,165°]
DETECTION threshold = f(SZA)
RESIDUAL filter: $r_{252}/r_{273} < 5$
15:16:16 Tue Feb 12 2013 /Users/deland/pmc/programs/gplot_v3_iwc_sza.pro

NOAA−16 SBUV/2 PMC Ice Water Content g−Plot: SH 2002−2003
LOCAL TIME adjustment = NONE
DATE range = [−20,+55] DSS
LATITUDE range = [−82°,−74°]
10 PMCs
Linear Fit [IWC$_{bin}$ = 70−270]
Slope(β_n) = −2.83E−02
Y−intercept = 0.475
1058 PMCs used [14969 scans]
Average IWC = 103.0 gm/km^2
TOTAL Ice = 463.1 tons
Average FREQUENCY = 7.07%
Average ALBEDO = 11.40*10^{-6} sr^{-1}
NORMALIZED Cumulative Frequency g$_{norm}$(IWC$_n$)
0.1000
0.0100
0.0010
0.0001
0
50
100
150
200
250
300
350
400
450
500
550
Ice Water Content [gm/km^2]
ORBIT NODE choice = ALL nodes
SCATTERING ANGLE range = [90°,165°]
DETECTION threshold = f(SZA)
RESIDUAL filter: $r_{252}/r_{273} < 5$
15:16:17 Tue Feb 12 2013 /Users/deland/pmc/programs/gplot_v3_iwc_sza.pro


NOAA−16 SBUV/2 PMC Ice Water Content g−Plot: SH 2004−2005
LOCAL TIME adjustment = NONE
DATE range = [−20,+55] DSS
LATITUDE range = [−82°,−74°]
NORMALIZED Cumulative Frequency $g_{norm}(IWC_n)$
0.1000
0.0100
0.0010
0.0001
Linear Fit [IWC_{bin} = 70−310]
Slope(β_n) = −2.20E−02
Y−intercept = 0.489
1536 PMCs used [14292 scans]
Average IWC = 113.6 gm/km^2
TOTAL Ice = 495.3 tons
Average FREQUENCY = 10.75%
Average ALBEDO = 12.55∗10^{-6} sr^{-1}
10 PMCs
0
50
100
150
200
250
300
350
400
450
500
550
Ice Water Content [gm/km^2]
ORBIT NODE choice = ALL nodes
SCATTERING ANGLE range = [90°,165°]
DETECTION threshold = f(SZA)
RESIDUAL filter: $r_{252}/r_{273} < 5$
15:16:27 Tue Feb 12 2013 /Users/deland/pmc/programs/gplot_v3_iwc_sza.pro


NOAA−16 SBUV/2 PMC Ice Water Content g−Plot: SH 2005−2006
LOCAL TIME adjustment = NONE
DATE range = [−20,+55] DSS
LATITUDE range = [−82°,−74°]
NORMALIZED Cumulative Frequency $g_{norm}(IWC_n)$
0.1000
0.0100
0.0010
0.0001
Linear Fit [IWC_{bin} = 70−310]
Slope(β_n) = −2.41E−02
Y−intercept = 0.405
1277 PMCs used [14808 scans]
Average IWC = 107.4 gm/km^2
TOTAL Ice = 469.9 tons
Average FREQUENCY = 8.62%
Average ALBEDO = 11.99∗10^{-6} sr^{-1}
10 PMCs
0
50
100
150
200
250
300
350
400
450
500
550
Ice Water Content [gm/km^2]
ORBIT NODE choice = ALL nodes
SCATTERING ANGLE range = [90°,165°]
DETECTION threshold = f(SZA)
RESIDUAL filter: $r_{252}/r_{273} < 5$
15:16:27 Tue Feb 12 2013 /Users/deland/pmc/programs/gplot_v3_iwc_sza.pro


NOAA-16 SBUV/2 PMC Ice Water Content g-Plot: SH 2006-2007
LOCAL TIME adjustment = NONE
DATE range = [-20,+55] DSS
LATITUDE range = [-82°,-74°]
NORMALIZED Cumulative Frequency $g_{norm}(IWC_n)$
0.1000
0.0100
0.0010
0.0001
Linear Fit [IWC_{bin} = 70-300]
Slope(β_n) = -2.55E-02
Y-intercept = 0.537
1417 PMCs used [14779 scans]
Average IWC = 106.4 gm/km^2
TOTAL Ice = 469.5 tons
Average FREQUENCY = 9.59%
Average ALBEDO = 12.35*10^{-6} sr^{-1}
10 PMCs
0
50
100
150
200
250
300
350
400
450
500
550
Ice Water Content [gm/km^2]
15:16:28 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−16 SBUV/2 PMC Ice Water Content g−Plot: SH 2007−2008
LOCAL TIME adjustment = NONE
DATE range = [−20,+55] DSS
LATITUDE range = [−82°,−74°]
Linear Fit [IWC_bin = 70−280]
Slope(β_n) = −2.56E−02
Y−intercept = 0.297
858 PMCs used [14717 scans]
Average IWC = 104.1 gm/km²
TOTAL Ice = 433.1 tons
Average FREQUENCY = 5.83%
Average ALBEDO = 12.34*10⁻⁶ sr⁻¹
10 PMCs
NORMALIZED Cumulative Frequency g_norm(IWC_n)
0.1000
0.0100
0.0010
0.0001
0
50
100
150
200
250
300
350
400
450
500
550
Ice Water Content [gm/km²]
ORBIT NODE choice = ALL nodes
SCATTERING ANGLE range = [90°,165°]
DETECTION threshold = f(SZA)
RESIDUAL filter: r252/r273 < 5
15:16:29 Tue Feb 12 2013 /Users/deland/pmc/programs/gplot_v3_iwc_sza.pro

NOAA−16 SBUV/2 PMC Ice Water Content g−Plot: SH 2010−2011
LOCAL TIME adjustment = NONE
DATE range = [−20,+55] DSS
LATITUDE range = [−82°,−74°]
Linear Fit [IWC_bin = 70−200]
Slope(β_n) = −3.45E−02
Y−intercept = 0.390
594 PMCs used [15068 scans]
Average IWC = 96.2 gm/km²
TOTAL Ice = 417.5 tons
Average FREQUENCY = 3.94%
Average ALBEDO = 11.34*10⁻⁶ sr⁻¹
10 PMCs
NORMALIZED Cumulative Frequency g_norm(IWC_n)
0.1000
0.0100
0.0010
0.0001
0
50
100
150
200
250
300
350
400
450
500
550
Ice Water Content [gm/km²]
ORBIT NODE choice = ALL nodes
SCATTERING ANGLE range = [90°,165°]
DETECTION threshold = f(SZA)
RESIDUAL filter: r252/r273 < 5
15:16:44 Tue Feb 12 2013 /Users/deland/pmc/programs/gplot_v3_iwc_sza.pro

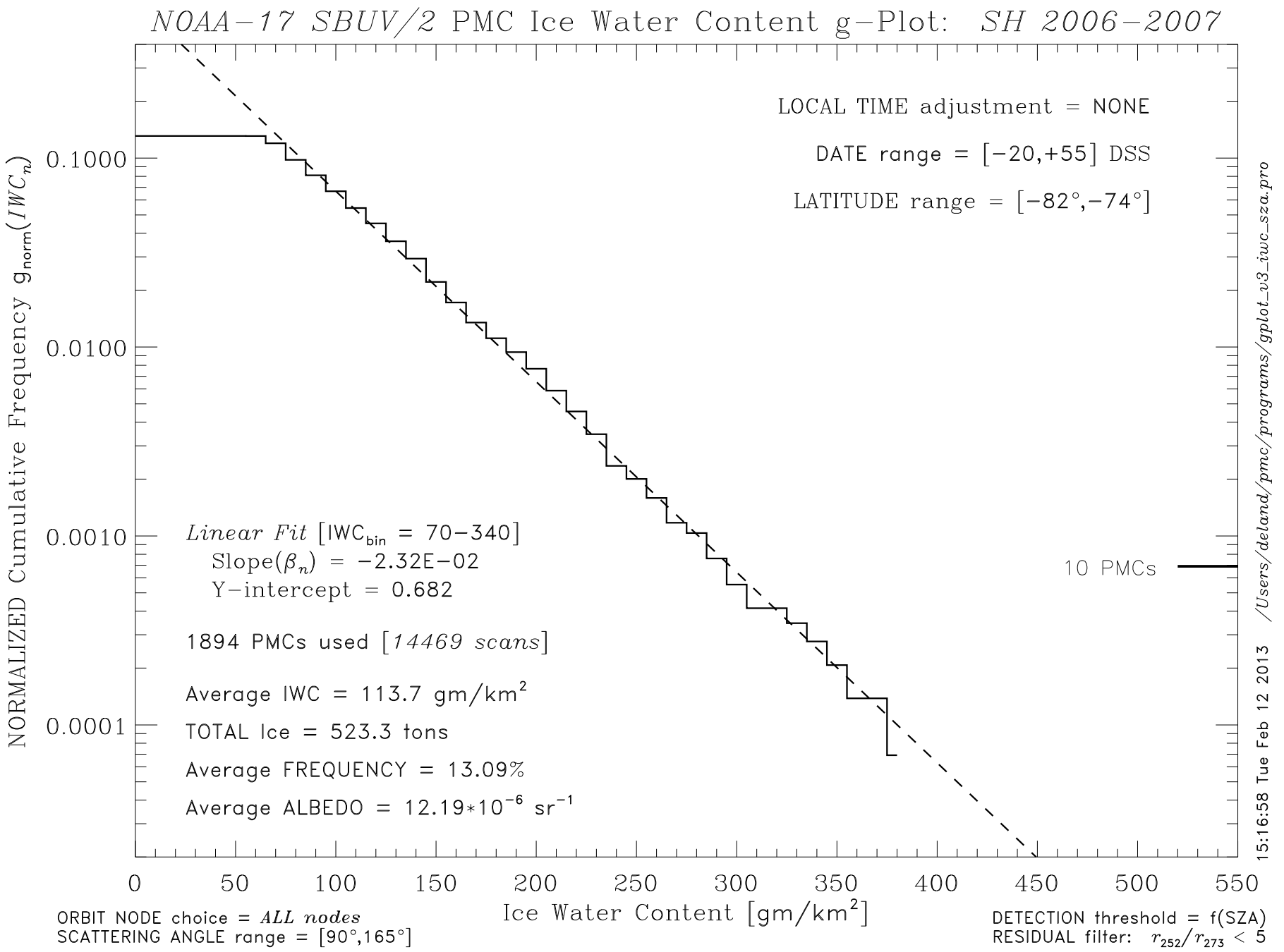
NOAA−16 SBUV/2 PMC Ice Water Content g−Plot: SH 2011−2012
LOCAL TIME adjustment = NONE
DATE range = [−20,+55] DSS
LATITUDE range = [−82°,−74°]
Linear Fit [IWC$_{bin}$ = 70−260]
Slope(β_n) = −3.02E−02
Y−intercept = 0.530
948 PMCs used [14458 scans]
Average IWC = 102.8 gm/km^2
TOTAL Ice = 445.0 tons
Average FREQUENCY = 6.56%
Average ALBEDO = 11.79*10^{-6} sr^{-1}
10 PMCs
NORMALIZED Cumulative Frequency g$_{norm}$(IWC$_n$)
0.1000
0.0100
0.0010
0.0001
0
50
100
150
200
250
300
350
400
450
500
550
Ice Water Content [gm/km^2]
ORBIT NODE choice = ALL nodes
SCATTERING ANGLE range = [90°,165°]
DETECTION threshold = f(SZA)
RESIDUAL filter: $r_{252}/r_{273} < 5$
15:16:44 Tue Feb 12 2013 /Users/deland/pmc/programs/gplot_v3_iwc_sza.pro

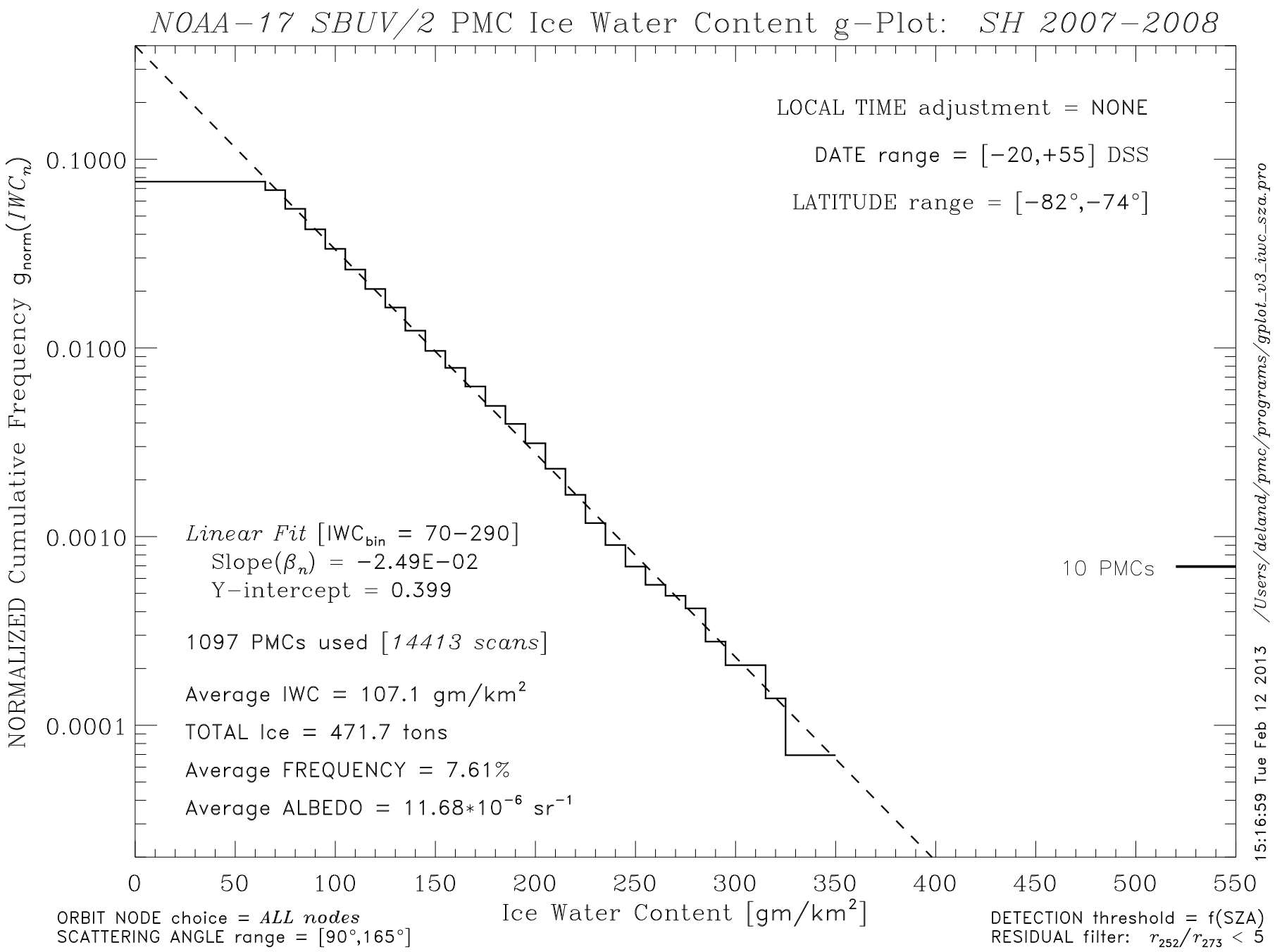
NOAA−17 SBUV/2 PMC Ice Water Content g−Plot: SH 2002−2003
LOCAL TIME adjustment = NONE
DATE range = [−20,+55] DSS
LATITUDE range = [−82°,−74°]
Linear Fit [IWC$_{bin}$ = 70−280]
Slope(β_n) = −2.49E−02
Y−intercept = 0.599
1507 PMCs used [13904 scans]
Average IWC = 108.5 gm/km^2
TOTAL Ice = 504.6 tons
Average FREQUENCY = 10.84%
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: $r_{252}/r_{273} < 5$
15:16:56 Tue Feb 12 2013 /Users/deland/pmc/programs/gplot_v3_iwc_sza.pro

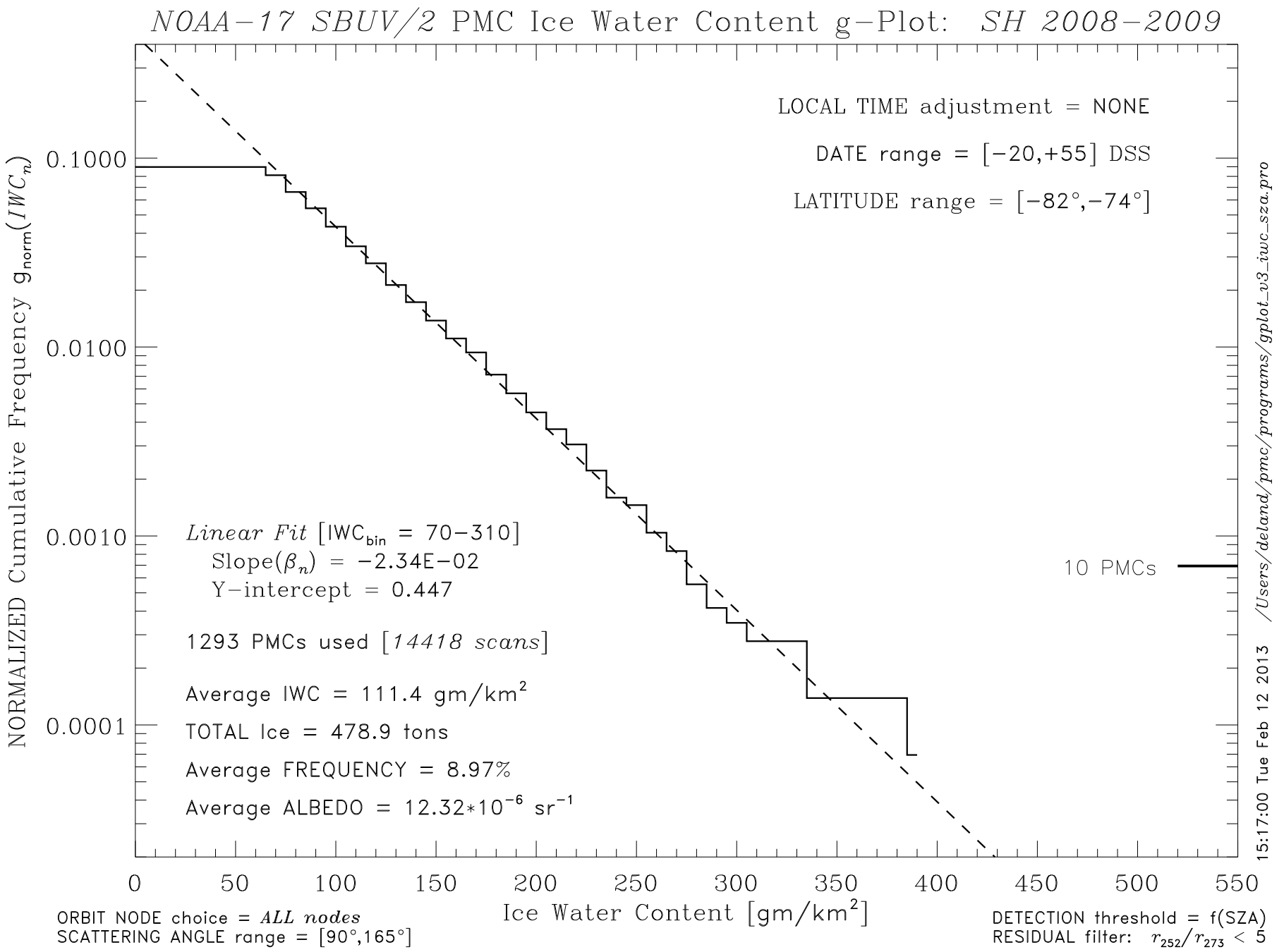
NOAA−17 SBUV/2 PMC Ice Water Content g−Plot: SH 2003−2004
LOCAL TIME adjustment = NONE
DATE range = [−20,+55] DSS
LATITUDE range = [−82°,−74°]
Linear Fit [IWC$_{bin}$ = 70−320]
Slope(β_n) = −1.98E−02
Y−intercept = 0.330
10 PMCs
1195 PMCs used [12892 scans]
Average IWC = 113.6 gm/km^2
TOTAL Ice = 498.1 tons
Average FREQUENCY = 9.27%
Average ALBEDO = 11.85*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/km^2]
ORBIT NODE choice = ALL nodes
SCATTERING ANGLE range = [90°,165°]
DETECTION threshold = f(SZA)
RESIDUAL filter: $r_{252}/r_{273} < 5$
15:16:57 Tue Feb 12 2013 /Users/deland/pmc/programs/gplot_v3_iwc_sza.pro

NOAA−17 SBUV/2 PMC Ice Water Content g−Plot: SH 2004−2005
LOCAL TIME adjustment = NONE
DATE range = [−20,+55] DSS
LATITUDE range = [−82°,−74°]
Linear Fit [IWC$_{bin}$ = 70−350]
Slope(β_n) = −2.00E−02
Y−intercept = 0.575
1724 PMCs used [12728 scans]
Average IWC = 121.8 gm/km^2
TOTAL Ice = 535.7 tons
Average FREQUENCY = 13.54%
Average ALBEDO = 12.91*10^{-6} sr^{-1}
10 PMCs
NORMALIZED Cumulative Frequency g$_{norm}$(IWC$_n$)
0.1000
0.0100
0.0010
0.0001
0
50
100
150
200
250
300
350
400
450
500
550
Ice Water Content [gm/km^2]
ORBIT NODE choice = ALL nodes
SCATTERING ANGLE range = [90°,165°]
DETECTION threshold = f(SZA)
RESIDUAL filter: $r_{252}/r_{273} < 5$
15:16:57 Tue Feb 12 2013 /Users/deland/pmc/programs/gplot_v3_iwc_sza.pro

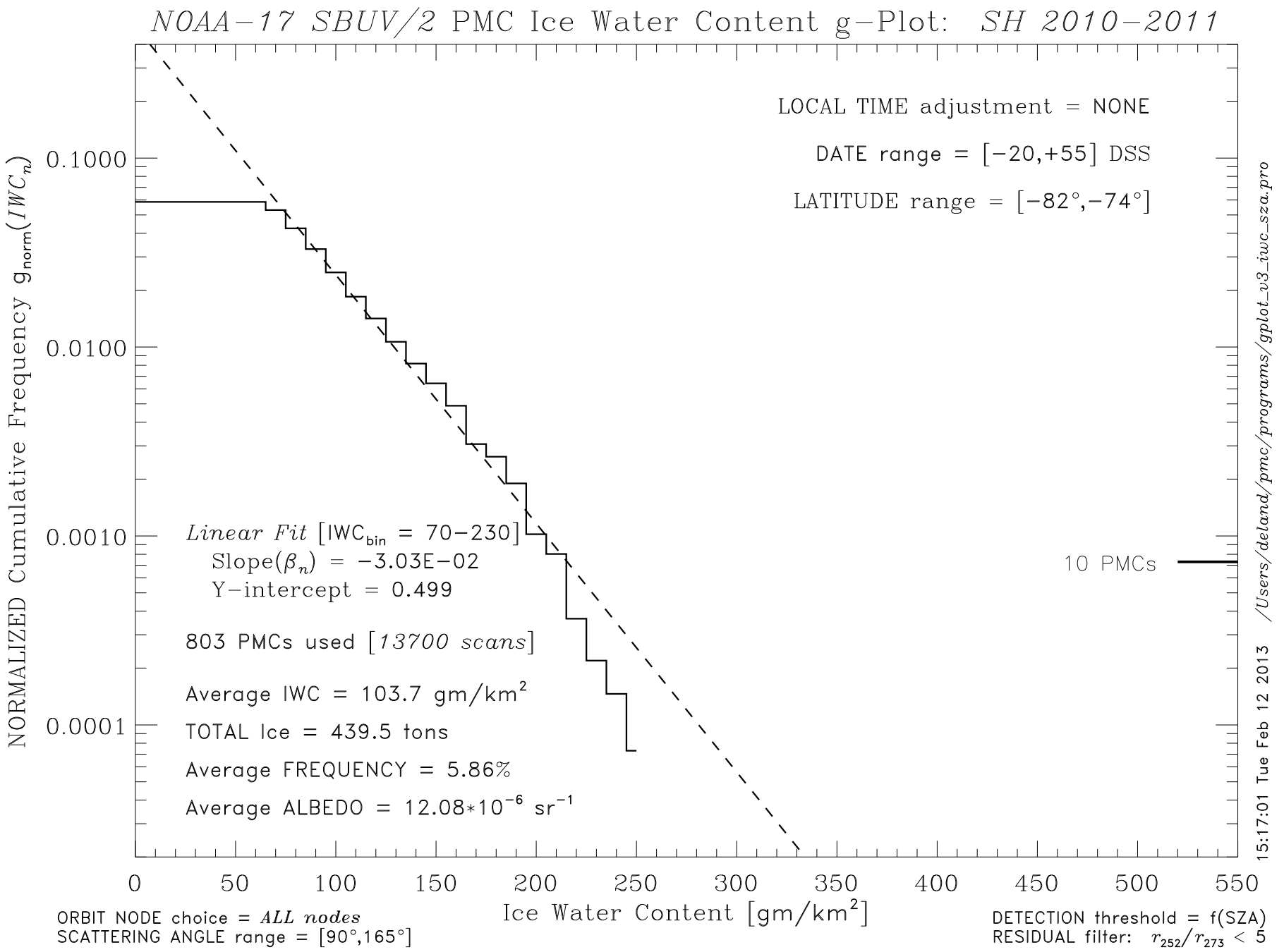
NOAA−17 SBUV/2 PMC Ice Water Content g−Plot: SH 2005−2006
LOCAL TIME adjustment = NONE
DATE range = [−20,+55] DSS
LATITUDE range = [−82°,−74°]
10 PMCs
Linear Fit [IWC$_{bin}$ = 70−360]
Slope(β_n) = −2.12E−02
Y−intercept = 0.481
1790 PMCs used [14589 scans]
Average IWC = 113.6 gm/km^2
TOTAL Ice = 519.2 tons
Average FREQUENCY = 12.27%
Average ALBEDO = 12.00*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/km^2]
ORBIT NODE choice = ALL nodes
SCATTERING ANGLE range = [90°,165°]
DETECTION threshold = f(SZA)
RESIDUAL filter: $r_{252}/r_{273} < 5$
15:16:58 Tue Feb 12 2013 /Users/deland/pmc/programs/gplot_v3_iwc_sza.pro


NOAA−17 SBUV/2 PMC Ice Water Content g−Plot: SH 2006−2007
LOCAL TIME adjustment = NONE
DATE range = [−20,+55] DSS
LATITUDE range = [−82°,−74°]
NORMALIZED Cumulative Frequency $g_{norm}(IWC_n)$
0.1000
0.0100
0.0010
0.0001
Linear Fit [IWC_{bin} = 70−340]
Slope(β_n) = −2.32E−02
Y−intercept = 0.682
1894 PMCs used [14469 scans]
Average IWC = 113.7 gm/km^2
TOTAL Ice = 523.3 tons
Average FREQUENCY = 13.09%
Average ALBEDO = 12.19∗10^{-6} sr^{-1}
10 PMCs
0
50
100
150
200
250
300
350
400
450
500
550
Ice Water Content [gm/km^2]
15:16:58 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−17 SBUV/2 PMC Ice Water Content g−Plot: SH 2007−2008
LOCAL TIME adjustment = NONE
DATE range = [−20,+55] DSS
LATITUDE range = [−82°,−74°]
NORMALIZED Cumulative Frequency $g_{norm}(IWC_n)$
0.1000
0.0100
0.0010
0.0001
Linear Fit [IWC_{bin} = 70−290]
Slope(β_n) = −2.49E−02
Y−intercept = 0.399
1097 PMCs used [14413 scans]
Average IWC = 107.1 gm/km^2
TOTAL Ice = 471.7 tons
Average FREQUENCY = 7.61%
Average ALBEDO = 11.68∗10^{-6} sr^{-1}
10 PMCs
0
50
100
150
200
250
300
350
400
450
500
550
Ice Water Content [gm/km^2]
15:16:59 Tue Feb 12 2013 /Users/deland/pmc/programs/gplot_v3_iwc_sza.pro
ORBIT NODE choice = ALL nodes
SCATTERING ANGLE range = [90°,165°]
DETECTION threshold = f(SZA)
RESIDUAL filter: $r_{252}/r_{273} < 5$


NOAA-17 SBUV/2 PMC Ice Water Content g-Plot: SH 2008-2009
LOCAL TIME adjustment = NONE
DATE range = [-20,+55] DSS
LATITUDE range = [-82°,-74°]
NORMALIZED Cumulative Frequency $g_{norm}(IWC_n)$
0.1000
0.0100
0.0010
0.0001
Linear Fit [IWC_{bin} = 70-310]
Slope(β_n) = -2.34E-02
Y-intercept = 0.447
1293 PMCs used [14418 scans]
Average IWC = 111.4 gm/km^2
TOTAL Ice = 478.9 tons
Average FREQUENCY = 8.97%
Average ALBEDO = 12.32*10^{-6} sr^{-1}
10 PMCs
0
50
100
150
200
250
300
350
400
450
500
550
Ice Water Content [gm/km^2]
ORBIT NODE choice = ALL nodes
SCATTERING ANGLE range = [90°,165°]
DETECTION threshold = f(SZA)
RESIDUAL filter: $r_{252}/r_{273} < 5$
15:17:00 Tue Feb 12 2013 /Users/deland/pmc/programs/gplot_v3_iwc_sza.pro

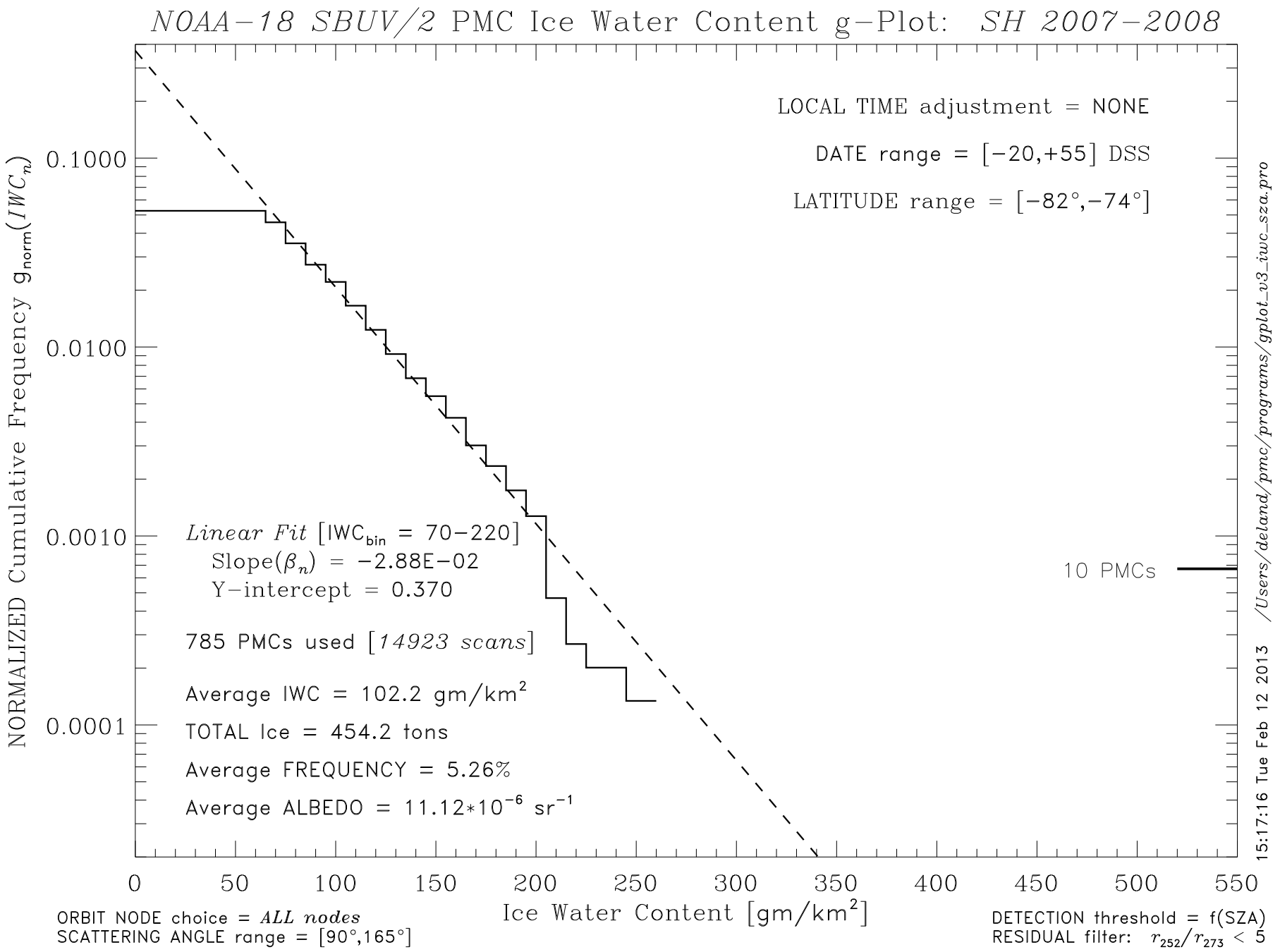
NOAA-17 SBUV/2 PMC Ice Water Content g-Plot: SH 2009-2010
LOCAL TIME adjustment = NONE
DATE range = [-20,+55] DSS
LATITUDE range = [-82°,-74°]
Linear Fit [IWC_bin = 70-370]
Slope(β_n) = -2.09E-02
Y-intercept = 0.966
10 PMCs
2551 PMCs used [14350 scans]
Average IWC = 125.9 gm/km²
TOTAL Ice = 568.3 tons
Average FREQUENCY = 17.78%
Average ALBEDO = 13.80*10⁻⁶ sr⁻¹
NORMALIZED Cumulative Frequency g_norm(IWC_n)
0.1000
0.0100
0.0010
0.0001
0
50
100
150
200
250
300
350
400
450
500
550
Ice Water Content [gm/km²]
ORBIT NODE choice = ALL nodes
SCATTERING ANGLE range = [90°,165°]
DETECTION threshold = f(SZA)
RESIDUAL filter: r252/r273 < 5
15:17:00 Tue Feb 12 2013 /Users/deland/pmc/programs/gplot_v3_iwc_sza.pro


NOAA−17 SBUV/2 PMC Ice Water Content g−Plot: SH 2010−2011
LOCAL TIME adjustment = NONE
DATE range = [−20,+55] DSS
LATITUDE range = [−82°,−74°]
NORMALIZED Cumulative Frequency $g_{norm}(IWC_n)$
0.1000
0.0100
0.0010
0.0001
Linear Fit [IWC_{bin} = 70−230]
Slope(β_n) = −3.03E−02
Y−intercept = 0.499
803 PMCs used [13700 scans]
Average IWC = 103.7 gm/km^2
TOTAL Ice = 439.5 tons
Average FREQUENCY = 5.86%
Average ALBEDO = 12.08∗10^{-6} sr^{-1}
10 PMCs
0
50
100
150
200
250
300
350
400
450
500
550
Ice Water Content [gm/km^2]
ORBIT NODE choice = ALL nodes
SCATTERING ANGLE range = [90°,165°]
DETECTION threshold = f(SZA)
RESIDUAL filter: r_{252}/r_{273} < 5
15:17:01 Tue Feb 12 2013 /Users/deland/pmc/programs/gplot_v3_iwc_sza.pro

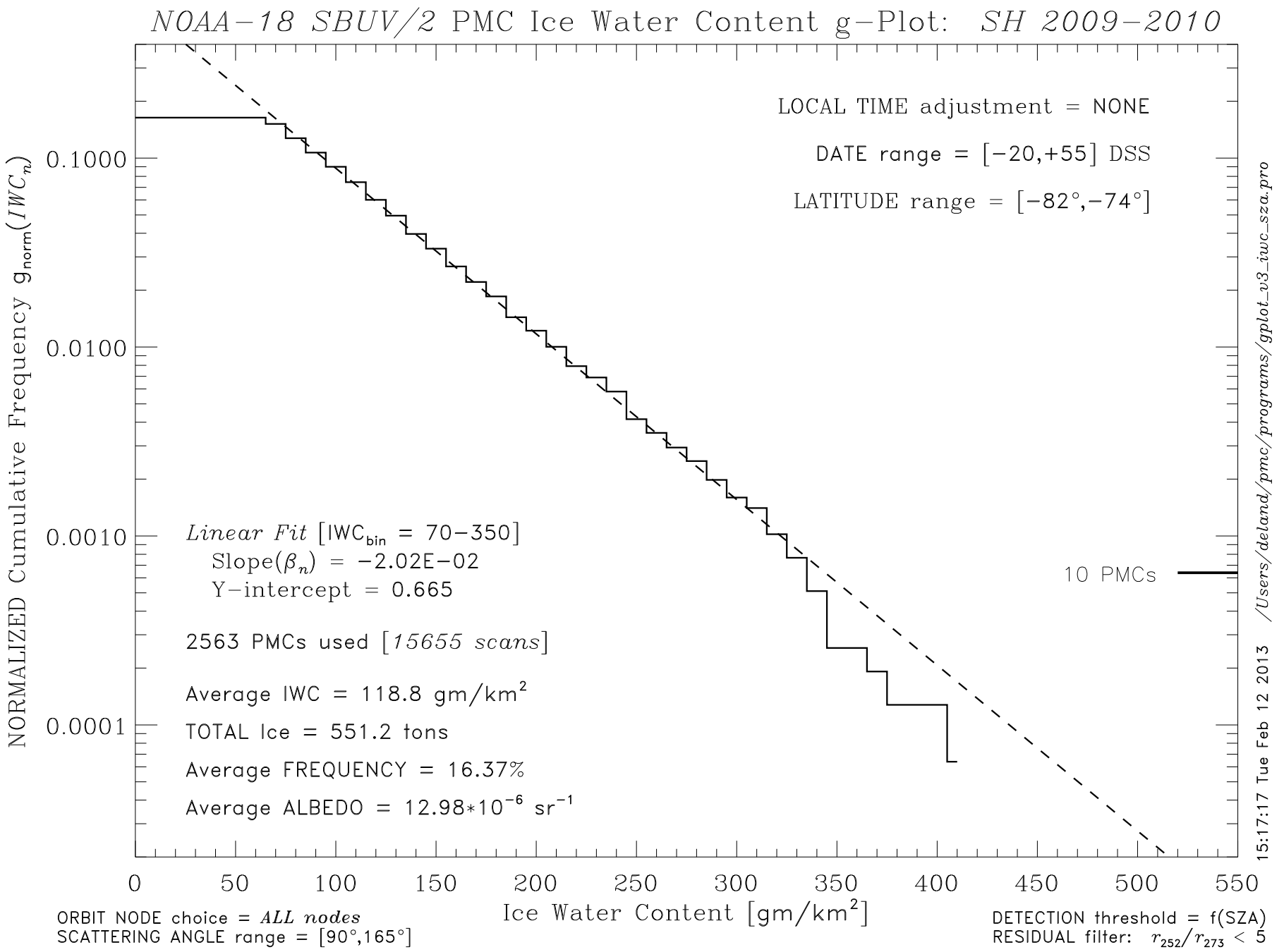
NOAA−17 SBUV/2 PMC Ice Water Content g−Plot: SH 2011−2012
LOCAL TIME adjustment = NONE
DATE range = [−20,+55] DSS
LATITUDE range = [−82°,−74°]
10 PMCs
Linear Fit [IWC$_{bin}$ = 70−260]
Slope(β_n) = −2.54E−02
Y−intercept = 0.361
873 PMCs used [12745 scans]
Average IWC = 105.4 gm/km^2
TOTAL Ice = 450.4 tons
Average FREQUENCY = 6.85%
Average ALBEDO = 11.91*10^{-6} sr^{-1}
NORMALIZED Cumulative Frequency g$_{norm}$(IWC$_n$)
0.1000
0.0100
0.0010
0.0001
0
50
100
150
200
250
300
350
400
450
500
550
Ice Water Content [gm/km^2]
ORBIT NODE choice = ALL nodes
SCATTERING ANGLE range = [90°,165°]
DETECTION threshold = f(SZA)
RESIDUAL filter: $r_{252}/r_{273} < 5$
15:17:02 Tue Feb 12 2013 /Users/deland/pmc/programs/gplot_v3_iwc_sza.pro

NOAA−18 SBUV/2 PMC Ice Water Content g−Plot: SH 2005−2006
LOCAL TIME adjustment = NONE
DATE range = [−20,+55] DSS
LATITUDE range = [−82°,−74°]
10 PMCs
Linear Fit [IWC$_{bin}$ = 70−310]
Slope(β_n) = −2.29E−02
Y−intercept = 0.401
1403 PMCs used [15049 scans]
Average IWC = 107.0 gm/km^2
TOTAL Ice = 487.1 tons
Average FREQUENCY = 9.32%
Average ALBEDO = 11.47*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: $r_{252}/r_{273} < 5$
15:17:15 Tue Feb 12 2013 /Users/deland/pmc/programs/gplot_v3_iwc_sza.pro

NOAA−18 SBUV/2 PMC Ice Water Content g−Plot: SH 2006−2007
LOCAL TIME adjustment = NONE
DATE range = [−20,+55] DSS
LATITUDE range = [−82°,−74°]
10 PMCs
Linear Fit [IWC_bin = 70−280]
Slope(β_n) = −2.79E−02
Y−intercept = 0.647
1456 PMCs used [15033 scans]
Average IWC = 104.0 gm/km²
TOTAL Ice = 485.3 tons
Average FREQUENCY = 9.69%
Average ALBEDO = 11.44*10⁻⁶ sr⁻¹
NORMALIZED Cumulative Frequency g_norm(IWC_n)
0.1000
0.0100
0.0010
0.0001
0
50
100
150
200
250
300
350
400
450
500
550
Ice Water Content [gm/km²]
ORBIT NODE choice = ALL nodes
SCATTERING ANGLE range = [90°,165°]
DETECTION threshold = f(SZA)
RESIDUAL filter: r252/r273 < 5
15:17:15 Tue Feb 12 2013 /Users/deland/pmc/programs/gplot_v3_iwc_sza.pro


NOAA−18 SBUV/2 PMC Ice Water Content g−Plot: SH 2007−2008
LOCAL TIME adjustment = NONE
DATE range = [−20,+55] DSS
LATITUDE range = [−82°,−74°]
NORMALIZED Cumulative Frequency $g_{norm}(IWC_n)$
0.1000
0.0100
0.0010
0.0001
Linear Fit [IWC$_{bin}$ = 70−220]
Slope(β_n) = −2.88E−02
Y−intercept = 0.370
785 PMCs used [14923 scans]
Average IWC = 102.2 gm/km^2
TOTAL Ice = 454.2 tons
Average FREQUENCY = 5.26%
Average ALBEDO = 11.12*10^{-6} sr^{-1}
10 PMCs
0
50
100
150
200
250
300
350
400
450
500
550
Ice Water Content [gm/km^2]
ORBIT NODE choice = ALL nodes
SCATTERING ANGLE range = [90°,165°]
DETECTION threshold = f(SZA)
RESIDUAL filter: $r_{252}/r_{273} < 5$
15:17:16 Tue Feb 12 2013 /Users/deland/pmc/programs/gplot_v3_iwc_sza.pro

NOAA-18 SBUV/2 PMC Ice Water Content g-Plot: SH 2008-2009
LOCAL TIME adjustment = NONE
DATE range = [-20,+55] DSS
LATITUDE range = [-82°,-74°]
10 PMCs
Linear Fit [IWC_bin = 70-290]
Slope(β_n) = -2.52E-02
Y-intercept = 0.346
1023 PMCs used [14760 scans]
Average IWC = 105.5 gm/km²
TOTAL Ice = 463.8 tons
Average FREQUENCY = 6.93%
Average ALBEDO = 11.65*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/km²]
ORBIT NODE choice = ALL nodes
SCATTERING ANGLE range = [90°,165°]
DETECTION threshold = f(SZA)
RESIDUAL filter: r252/r273 < 5
15:17:17 Tue Feb 12 2013 /Users/deland/pmc/programs/gplot_v3_iwc_sza.pro


NOAA−18 SBUV/2 PMC Ice Water Content g−Plot: SH 2009−2010
LOCAL TIME adjustment = NONE
DATE range = [−20,+55] DSS
LATITUDE range = [−82°,−74°]
NORMALIZED Cumulative Frequency $g_{norm}(IWC_n)$
0.1000
0.0100
0.0010
0.0001
Linear Fit [IWC_{bin} = 70−350]
Slope(β_n) = −2.02E−02
Y−intercept = 0.665
2563 PMCs used [15655 scans]
Average IWC = 118.8 gm/km^2
TOTAL Ice = 551.2 tons
Average FREQUENCY = 16.37%
Average ALBEDO = 12.98∗10^{-6} sr^{-1}
10 PMCs
0
50
100
150
200
250
300
350
400
450
500
550
Ice Water Content [gm/km^2]
15:17:17 Tue Feb 12 2013 /Users/deland/pmc/programs/gplot_v3_iwc_sza.pro
ORBIT NODE choice = ALL nodes
SCATTERING ANGLE range = [90°,165°]
DETECTION threshold = f(SZA)
RESIDUAL filter: $r_{252}/r_{273} < 5$

NOAA−18 SBUV/2 PMC Ice Water Content g−Plot: SH 2010−2011
LOCAL TIME adjustment = NONE
DATE range = [−20,+55] DSS
LATITUDE range = [−82°,−74°]
Linear Fit [IWC$_{bin}$ = 70−210]
Slope(β_n) = −3.32E−02
Y−intercept = 0.293
486 PMCs used [14936 scans]
Average IWC = 96.3 gm/km^2
TOTAL Ice = 432.8 tons
Average FREQUENCY = 3.25%
Average ALBEDO = 10.67*10^{-6} sr^{-1}
10 PMCs
NORMALIZED Cumulative Frequency g$_{norm}$(IWC$_n$)
0.1000
0.0100
0.0010
0.0001
0
50
100
150
200
250
300
350
400
450
500
550
Ice Water Content [gm/km^2]
ORBIT NODE choice = ALL nodes
SCATTERING ANGLE range = [90°,165°]
DETECTION threshold = f(SZA)
RESIDUAL filter: $r_{252}/r_{273} < 5$
15:17:18 Tue Feb 12 2013 /Users/deland/pmc/programs/gplot_v3_iwc_sza.pro

NOAA−18 SBUV/2 PMC Ice Water Content g−Plot: SH 2011−2012
LOCAL TIME adjustment = NONE
DATE range = [−20,+55] DSS
LATITUDE range = [−82°,−74°]
Linear Fit [IWC$_{bin}$ = 70−220]
Slope(β_n) = −3.26E−02
Y−intercept = 0.445
719 PMCs used [14461 scans]
Average IWC = 98.4 gm/km^2
TOTAL Ice = 439.5 tons
Average FREQUENCY = 4.97%
Average ALBEDO = 11.09*10^{-6} sr^{-1}
10 PMCs
NORMALIZED Cumulative Frequency g$_{norm}$(IWC$_n$)
0.1000
0.0100
0.0010
0.0001
0
50
100
150
200
250
300
350
400
450
500
550
Ice Water Content [gm/km^2]
ORBIT NODE choice = ALL nodes
SCATTERING ANGLE range = [90°,165°]
DETECTION threshold = f(SZA)
RESIDUAL filter: $r_{252}/r_{273} < 5$
15:17:19 Tue Feb 12 2013 /Users/deland/pmc/programs/gplot_v3_iwc_sza.pro

NOAA−19 SBUV/2 PMC Ice Water Content g−Plot: SH 2009−2010
LOCAL TIME adjustment = NONE
DATE range = [−20,+55] DSS
LATITUDE range = [−82°,−74°]
10 PMCs
Linear Fit [IWC$_{bin}$ = 70−380]
Slope(β_n) = −1.91E−02
Y−intercept = 0.630
2518 PMCs used [15144 scans]
Average IWC = 120.8 gm/km^2
TOTAL Ice = 556.8 tons
Average FREQUENCY = 16.63%
Average ALBEDO = 13.11*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: $r_{252}/r_{273} < 5$
15:17:57 Tue Feb 12 2013 /Users/deland/pmc/programs/gplot_v3_iwc_sza.pro

NOAA−19 SBUV/2 PMC Ice Water Content g−Plot: SH 2010−2011
LOCAL TIME adjustment = NONE
DATE range = [−20,+55] DSS
LATITUDE range = [−82°,−74°]
Linear Fit [IWC$_{bin}$ = 70−250]
Slope(β_n) = −3.02E−02
Y−intercept = 0.231
488 PMCs used [15052 scans]
Average IWC = 99.2 gm/km^2
TOTAL Ice = 436.9 tons
Average FREQUENCY = 3.24%
Average ALBEDO = 10.85*10^{-6} sr^{-1}
10 PMCs
NORMALIZED Cumulative Frequency g$_{norm}$(IWC$_n$)
0.1000
0.0100
0.0010
0.0001
0
50
100
150
200
250
300
350
400
450
500
550
Ice Water Content [gm/km^2]
ORBIT NODE choice = ALL nodes
SCATTERING ANGLE range = [90°,165°]
DETECTION threshold = f(SZA)
RESIDUAL filter: $r_{252}/r_{273} < 5$
15:17:57 Tue Feb 12 2013 /Users/deland/pmc/programs/gplot_v3_iwc_sza.pro

NOAA−19 SBUV/2 PMC Ice Water Content g−Plot: SH 2011−2012
LOCAL TIME adjustment = NONE
DATE range = [−20,+55] DSS
LATITUDE range = [−82°,−74°]
Linear Fit [IWC$_{bin}$ = 70−230]
Slope(β_n) = −3.08E−02
Y−intercept = 0.364
688 PMCs used [14664 scans]
Average IWC = 99.7 gm/km^2
TOTAL Ice = 447.2 tons
Average FREQUENCY = 4.69%
Average ALBEDO = 10.89*10^{-6} sr^{-1}
10 PMCs
NORMALIZED Cumulative Frequency g$_{norm}$(IWC$_n$)
0.1000
0.0100
0.0010
0.0001
0
50
100
150
200
250
300
350
400
450
500
550
Ice Water Content [gm/km^2]
ORBIT NODE choice = ALL nodes
SCATTERING ANGLE range = [90°,165°]
DETECTION threshold = f(SZA)
RESIDUAL filter: $r_{252}/r_{273} < 5$
15:17:58 Tue Feb 12 2013 /Users/deland/pmc/programs/gplot_v3_iwc_sza.pro