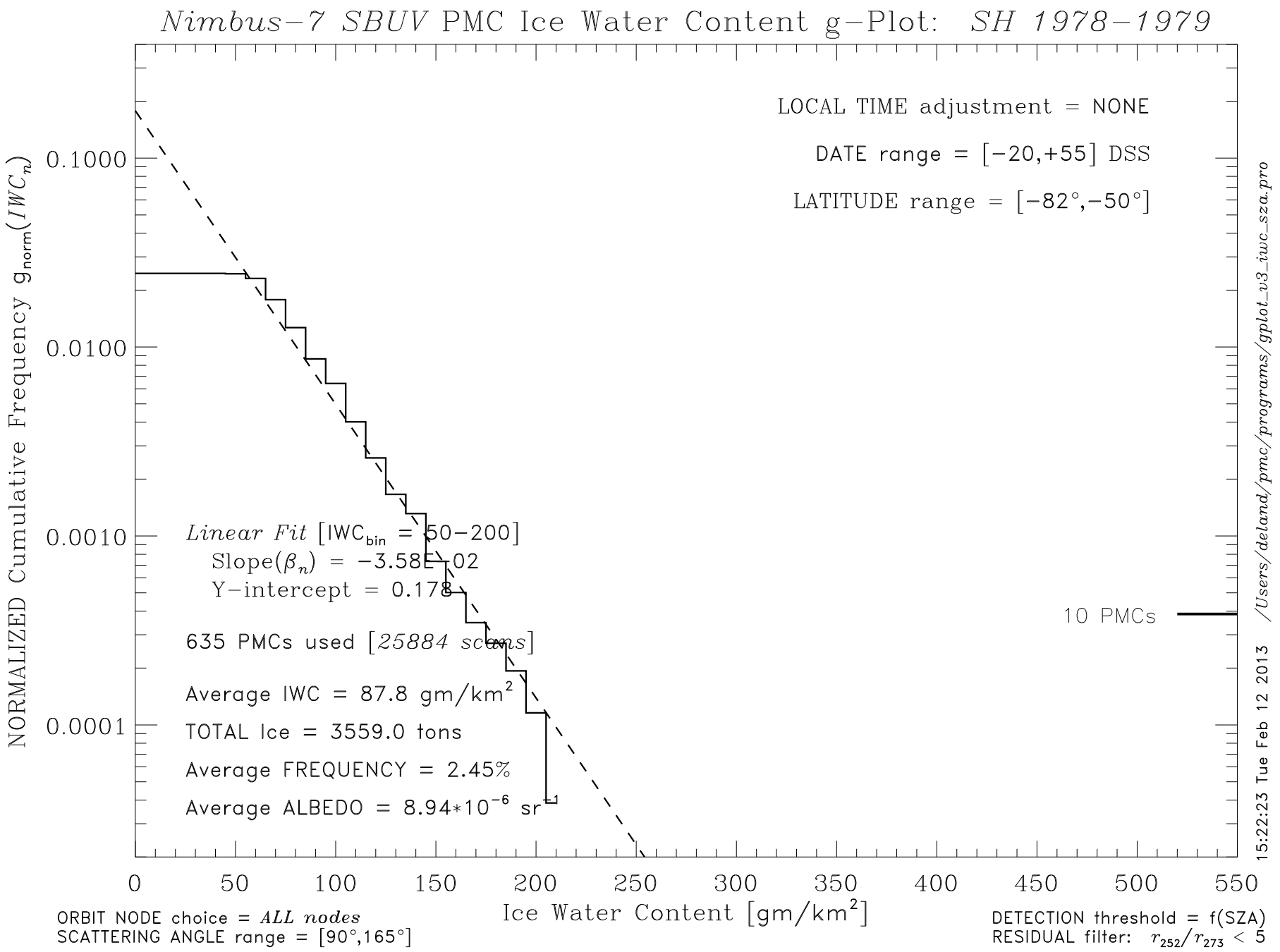
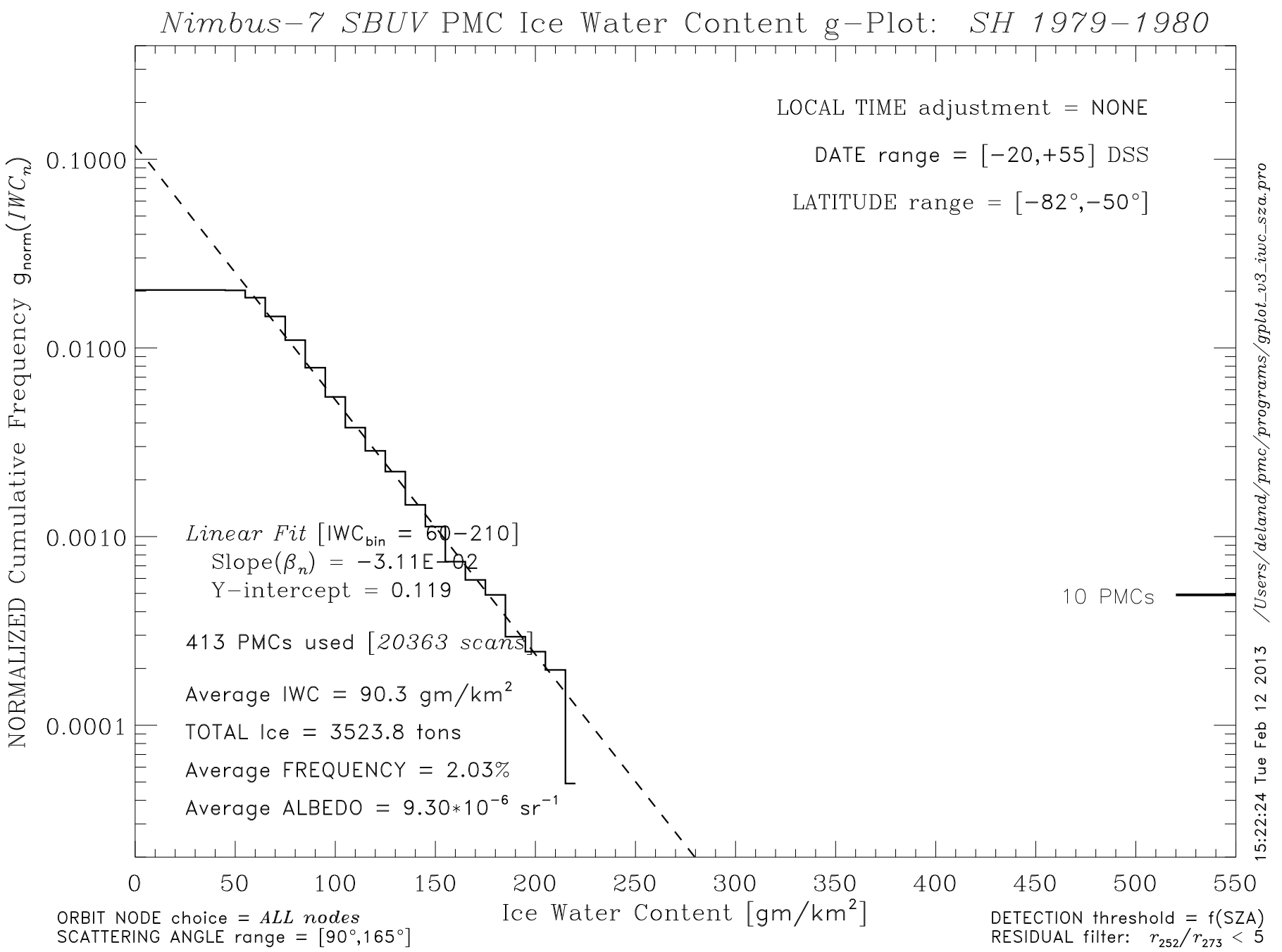
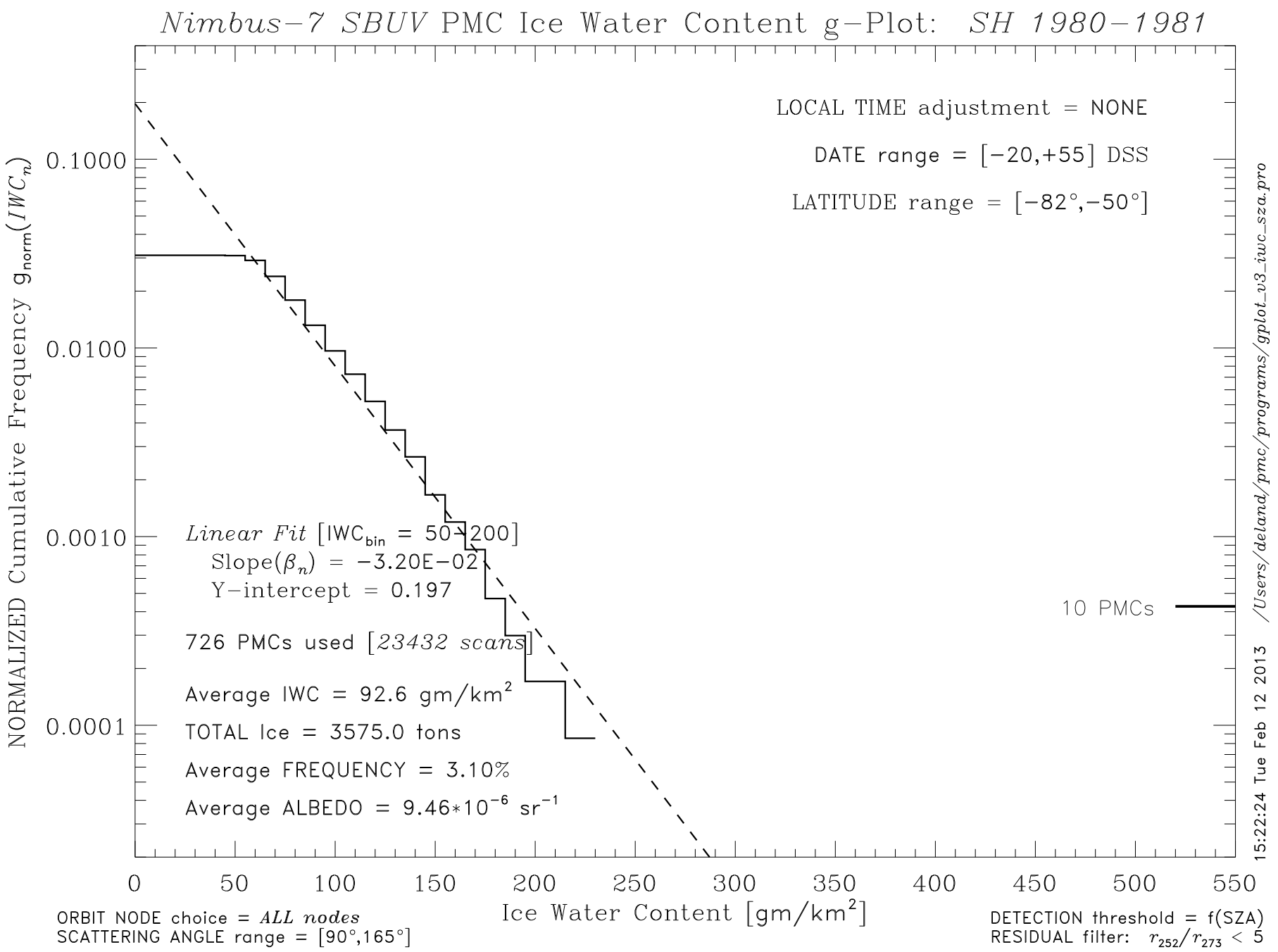
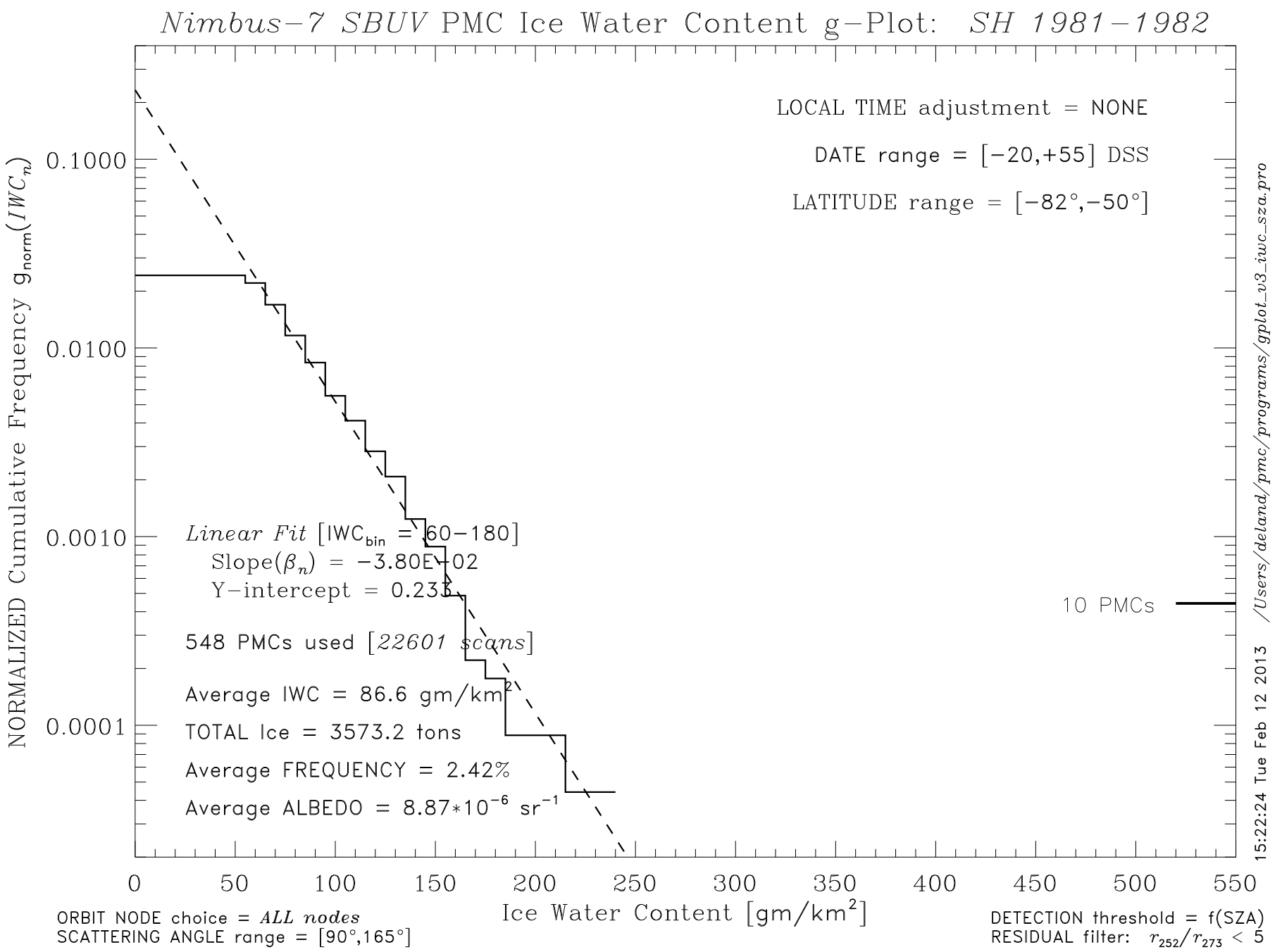
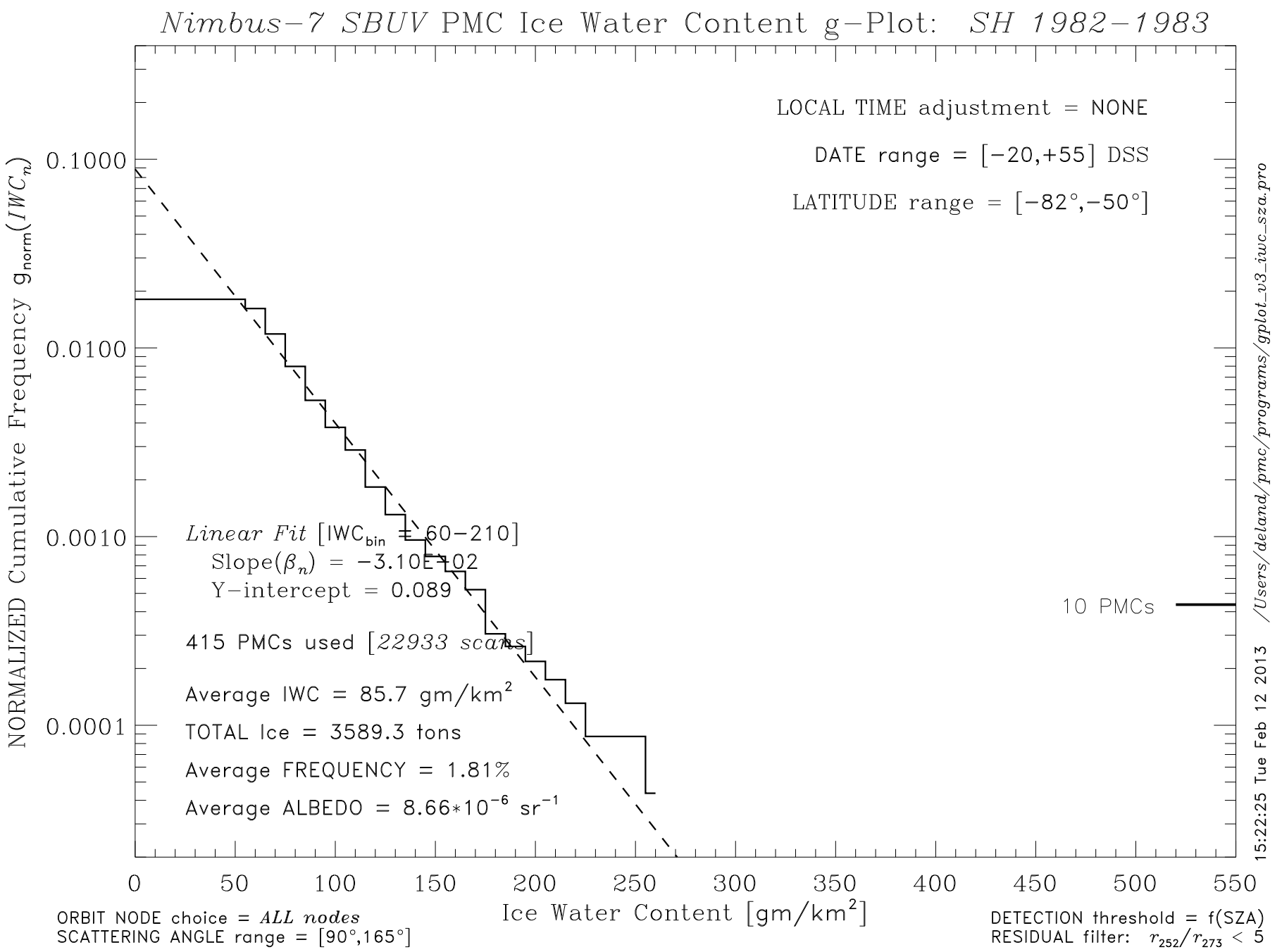
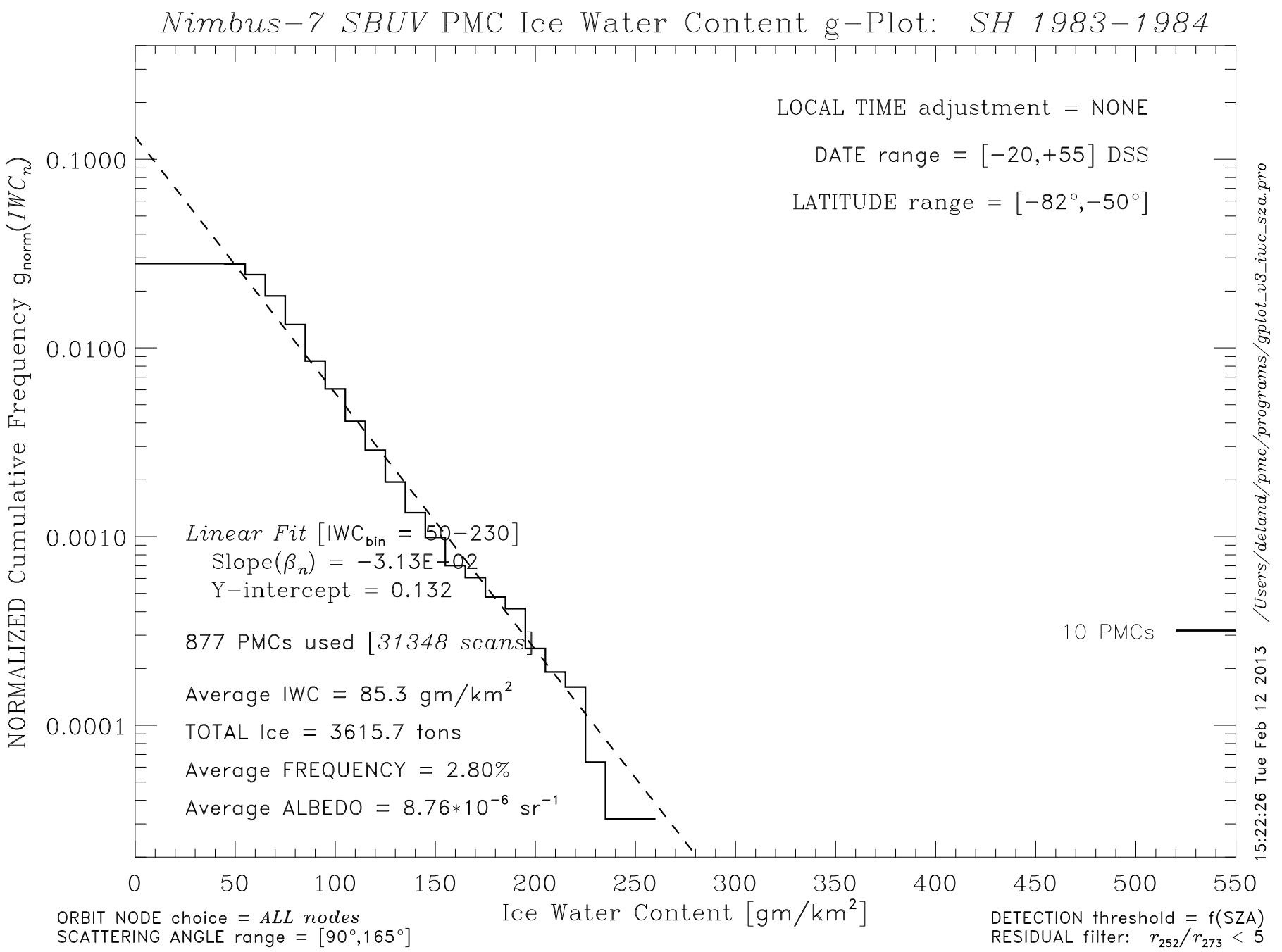

Nimbus−7 SBUV PMC Ice Water Content g−Plot: SH 1978−1979
LOCAL TIME adjustment = NONE
DATE range = [−20,+55] DSS
LATITUDE range = [−82°,−50°]
NORMALIZED Cumulative Frequency $g_{norm}(IWC_n)$
0.1000
0.0100
0.0010
0.0001
Linear Fit [IWC$_{bin}$ = 50−200]
Slope(β_n) = −3.58E−02
Y−intercept = 0.178
635 PMCs used [25884 scans]
Average IWC = 87.8 gm/km^2
TOTAL Ice = 3559.0 tons
Average FREQUENCY = 2.45%
Average ALBEDO = 8.94∗10^{-6} sr^{-1}
10 PMCs
0
50
100
150
200
250
300
350
400
450
500
550
Ice Water Content [gm/km^2]
ORBIT NODE choice = ALL nodes
SCATTERING ANGLE range = [90°,165°]
DETECTION threshold = f(SZA)
RESIDUAL filter: $r_{252}/r_{273} < 5$
15:22:23 Tue Feb 12 2013 /Users/deland/pmc/programs/gplot_v3_iwc_sza.pro

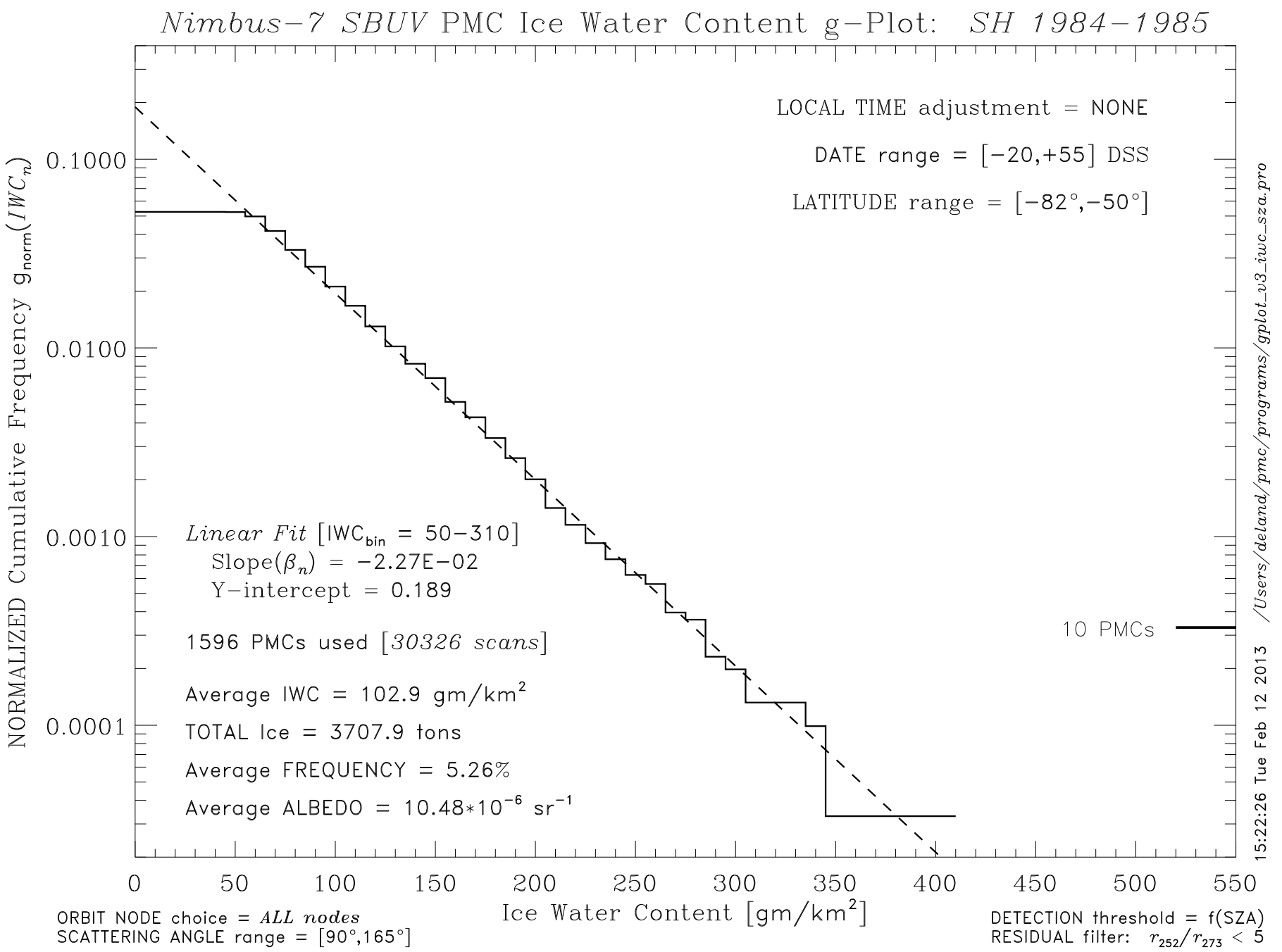

Nimbus−7 SBUV PMC Ice Water Content g−Plot: SH 1979−1980
LOCAL TIME adjustment = NONE
DATE range = [−20,+55] DSS
LATITUDE range = [−82°,−50°]
NORMALIZED Cumulative Frequency $g_{norm}(IWC_n)$
0.1000
0.0100
0.0010
0.0001
Linear Fit [IWC$_{bin}$ = 60−210]
Slope(β_n) = −3.11E−02
Y−intercept = 0.119
413 PMCs used [20363 scans]
Average IWC = 90.3 gm/km^2
TOTAL Ice = 3523.8 tons
Average FREQUENCY = 2.03%
Average ALBEDO = 9.30∗10^{-6} sr^{-1}
10 PMCs
0
50
100
150
200
250
300
350
400
450
500
550
Ice Water Content [gm/km^2]
15:22:24 Tue Feb 12 2013 /Users/deland/pmc/programs/gplot_v3_iwc_sza.pro
ORBIT NODE choice = ALL nodes
SCATTERING ANGLE range = [90°,165°]
DETECTION threshold = f(SZA)
RESIDUAL filter: $r_{252}/r_{273} < 5$


Nimbus−7 SBUV PMC Ice Water Content g−Plot: SH 1980−1981
LOCAL TIME adjustment = NONE
DATE range = [−20,+55] DSS
LATITUDE range = [−82°,−50°]
NORMALIZED Cumulative Frequency $g_{norm}(IWC_n)$
0.1000
0.0100
0.0010
0.0001
Linear Fit [IWC_{bin} = 50÷200]
Slope(β_n) = −3.20E−02
Y−intercept = 0.197
726 PMCs used [23432 scans]
Average IWC = 92.6 gm/km^2
TOTAL Ice = 3575.0 tons
Average FREQUENCY = 3.10%
Average ALBEDO = 9.46∗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: $r_{252}/r_{273} < 5$
15:22:24 Tue Feb 12 2013 /Users/deland/pmc/programs/gplot_v3_iwc_sza.pro


Nimbus−7 SBUV PMC Ice Water Content g−Plot: SH 1981−1982
LOCAL TIME adjustment = NONE
DATE range = [−20,+55] DSS
LATITUDE range = [−82°,−50°]
NORMALIZED Cumulative Frequency $g_{norm}(IWC_n)$
0.1000
0.0100
0.0010
0.0001
Linear Fit [IWC_bin = 60−180]
Slope(β_n) = −3.80E−02
Y−intercept = 0.233
548 PMCs used [22601 scans]
Average IWC = 86.6 gm/km^2
TOTAL Ice = 3573.2 tons
Average FREQUENCY = 2.42%
Average ALBEDO = 8.87∗10^{-6} sr^{-1}
10 PMCs
0
50
100
150
200
250
300
350
400
450
500
550
Ice Water Content [gm/km^2]
ORBIT NODE choice = ALL nodes
SCATTERING ANGLE range = [90°,165°]
DETECTION threshold = f(SZA)
RESIDUAL filter: $r_{252}/r_{273} < 5$
15:22:24 Tue Feb 12 2013 /Users/deland/pmc/programs/gplot_v3_iwc_sza.pro

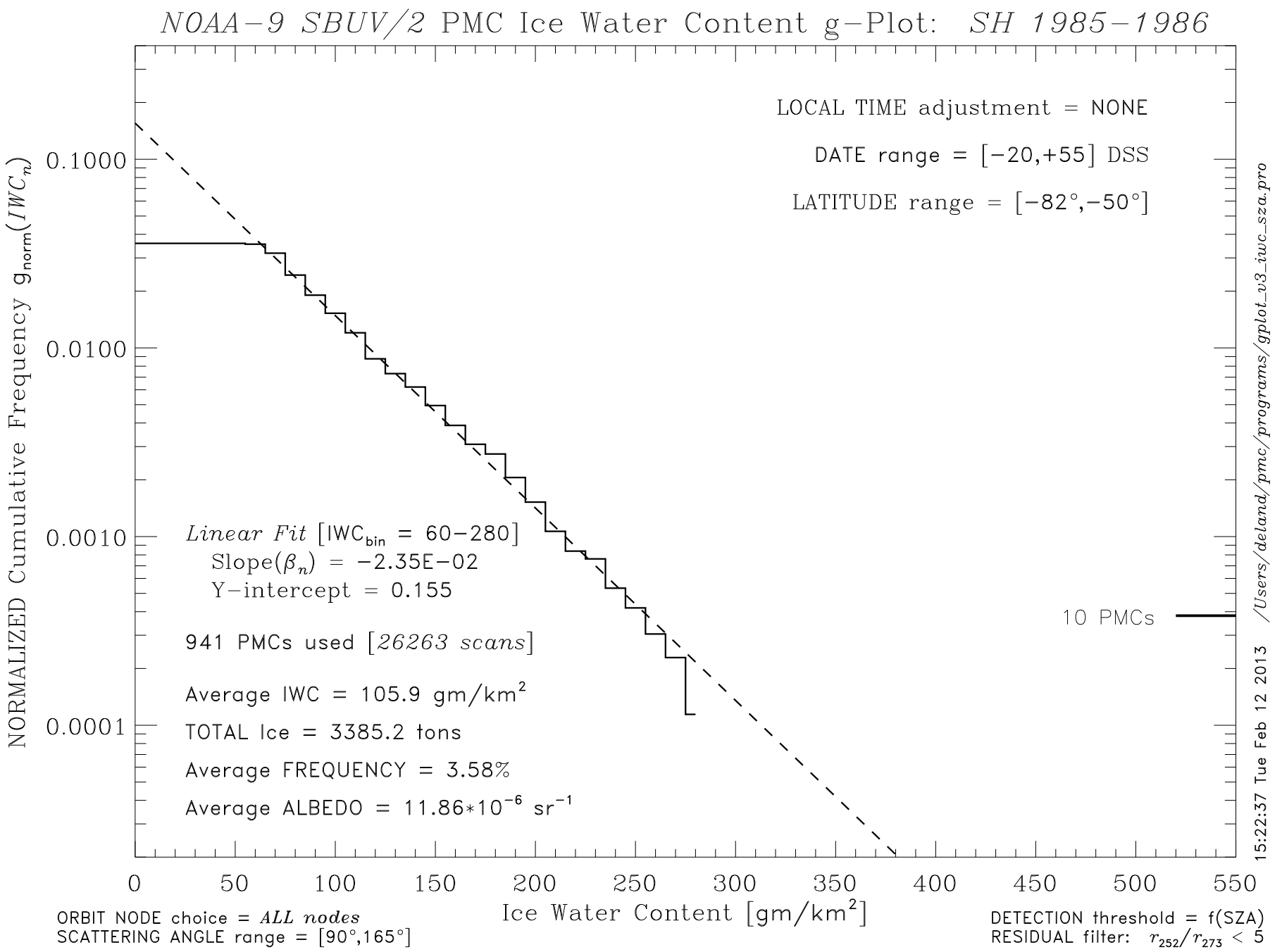

Nimbus−7 SBUV PMC Ice Water Content g−Plot: SH 1982−1983
LOCAL TIME adjustment = NONE
DATE range = [−20,+55] DSS
LATITUDE range = [−82°,−50°]
NORMALIZED Cumulative Frequency $g_{norm}(IWC_n)$
0.1000
0.0100
0.0010
0.0001
Linear Fit [IWC_{bin} = 60−210]
Slope(β_n) = −3.10E−02
Y−intercept = 0.089
415 PMCs used [22933 scans]
Average IWC = 85.7 gm/km^2
TOTAL Ice = 3589.3 tons
Average FREQUENCY = 1.81%
Average ALBEDO = 8.66∗10^{-6} sr^{-1}
10 PMCs
0
50
100
150
200
250
300
350
400
450
500
550
Ice Water Content [gm/km^2]
15:22:25 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: $r_{252}/r_{273} < 5$

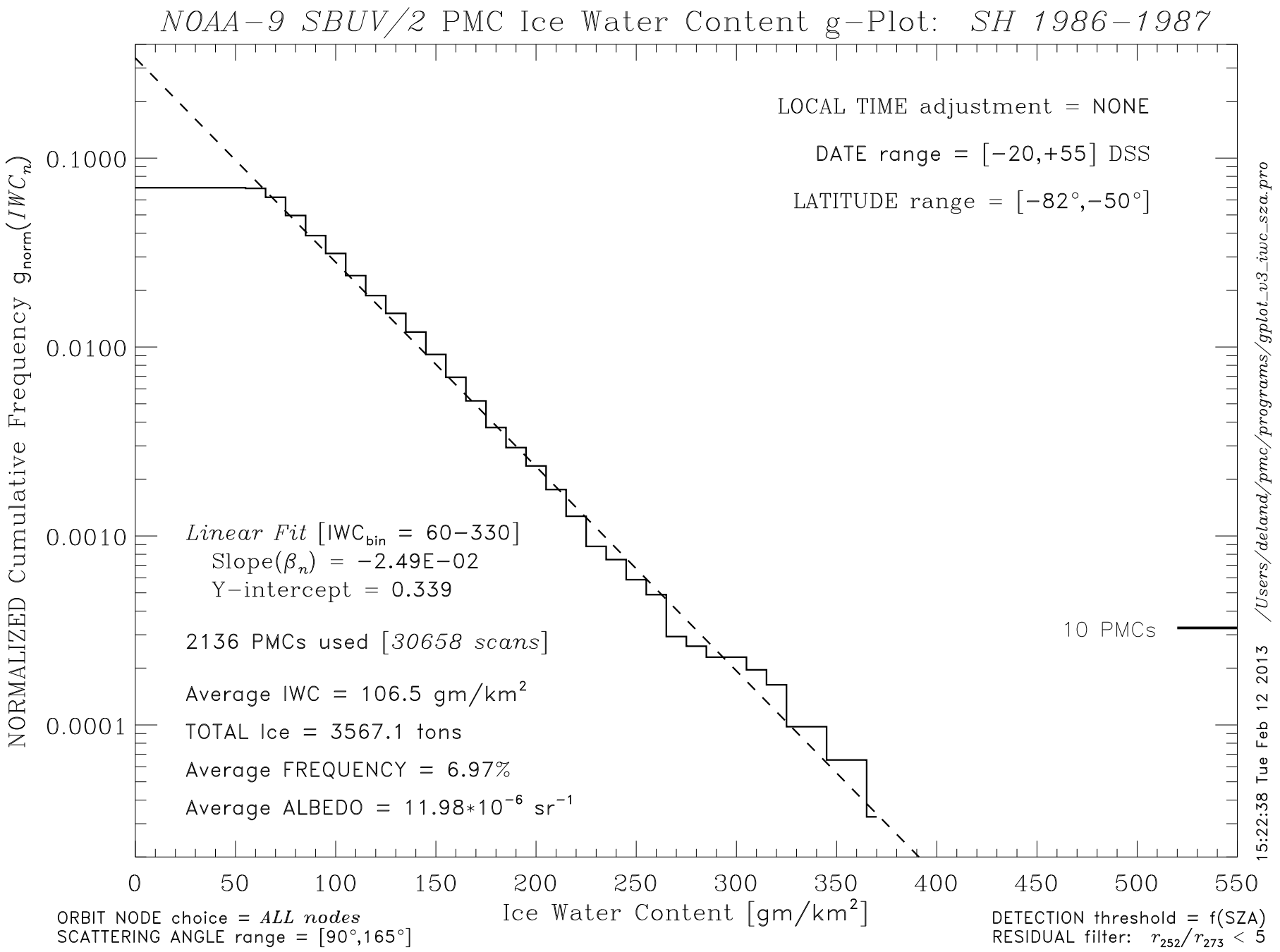

Nimbus−7 SBUV PMC Ice Water Content g−Plot: SH 1983−1984
LOCAL TIME adjustment = NONE
DATE range = [−20,+55] DSS
LATITUDE range = [−82°,−50°]
NORMALIZED Cumulative Frequency $g_{norm}(IWC_n)$
0.1000
0.0100
0.0010
0.0001
Linear Fit [IWC_{bin} = 50−230]
Slope(β_n) = −3.13E−02
Y−intercept = 0.132
877 PMCs used [31348 scans]
Average IWC = 85.3 gm/km^2
TOTAL Ice = 3615.7 tons
Average FREQUENCY = 2.80%
Average ALBEDO = 8.76∗10^{-6} sr^{-1}
10 PMCs
0
50
100
150
200
250
300
350
400
450
500
550
Ice Water Content [gm/km^2]
ORBIT NODE choice = ALL nodes
SCATTERING ANGLE range = [90°,165°]
DETECTION threshold = f(SZA)
RESIDUAL filter: $r_{252}/r_{273} < 5$
15:22:26 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°,-50°]
NORMALIZED Cumulative Frequency $g_{norm}(IWC_n)$
0.1000
0.0100
0.0010
0.0001
Linear Fit [IWC_bin = 50-310]
Slope(β_n) = -2.27E-02
Y-intercept = 0.189
1596 PMCs used [30326 scans]
Average IWC = 102.9 gm/km^2
TOTAL Ice = 3707.9 tons
Average FREQUENCY = 5.26%
Average ALBEDO = 10.48*10^{-6} sr^{-1}
10 PMCs
0
50
100
150
200
250
300
350
400
450
500
550
Ice Water Content [gm/km^2]
15:22:26 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: $r_{252}/r_{273} < 5$

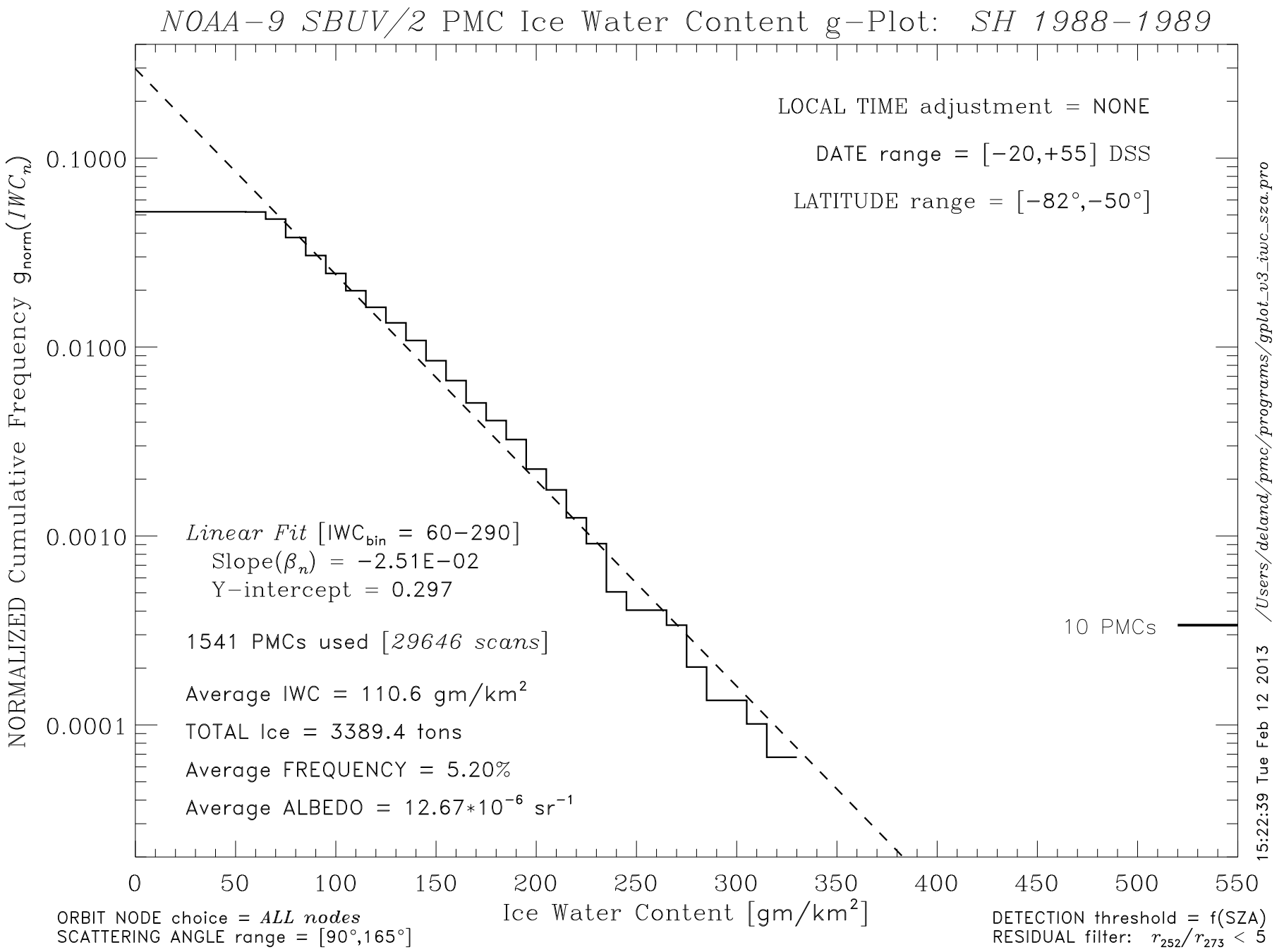
Nimbus−7 SBUV PMC Ice Water Content g−Plot: SH 1985−1986
LOCAL TIME adjustment = NONE
DATE range = [−20,+55] DSS
LATITUDE range = [−82°,−50°]
Linear Fit [IWC$_{bin}$ = 50−290]
Slope(β_n) = −2.36E−02
Y−intercept = 0.229
1819 PMCs used [3153O scans]
Average IWC = 102.3 gm/km^2
TOTAL Ice = 3756.7 tons
Average FREQUENCY = 5.77%
Average ALBEDO = 10.37*10^{-6} sr^{-1}
10 PMCs
NORMALIZED Cumulative Frequency g$_{norm}$(IWC$_n$)
0.1000
0.0100
0.0010
0.0001
0
50
100
150
200
250
300
350
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: $r_{252}/r_{273} < 5$
15:22:27 Tue Feb 12 2013 /Users/deland/pmc/programs/gplot_v3_iwc_sza.pro

Nimbus−7 SBUV PMC Ice Water Content g−Plot: SH 1986−1987
LOCAL TIME adjustment = NONE
DATE range = [−20,+55] DSS
LATITUDE range = [−82°,−50°]
Linear Fit [IWC_bin = 50−270]
Slope(β_n) = −2.60E−02
Y−intercept = 0.236
1650 PMCs used [31315 scans]
Average IWC = 98.8 gm/km²
TOTAL Ice = 3712.8 tons
Average FREQUENCY = 5.27%
Average ALBEDO = 10.04*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
15:22:28 Tue Feb 12 2013 /Users/deland/pmc/programs/gplot_v3_iwc_sza.pro

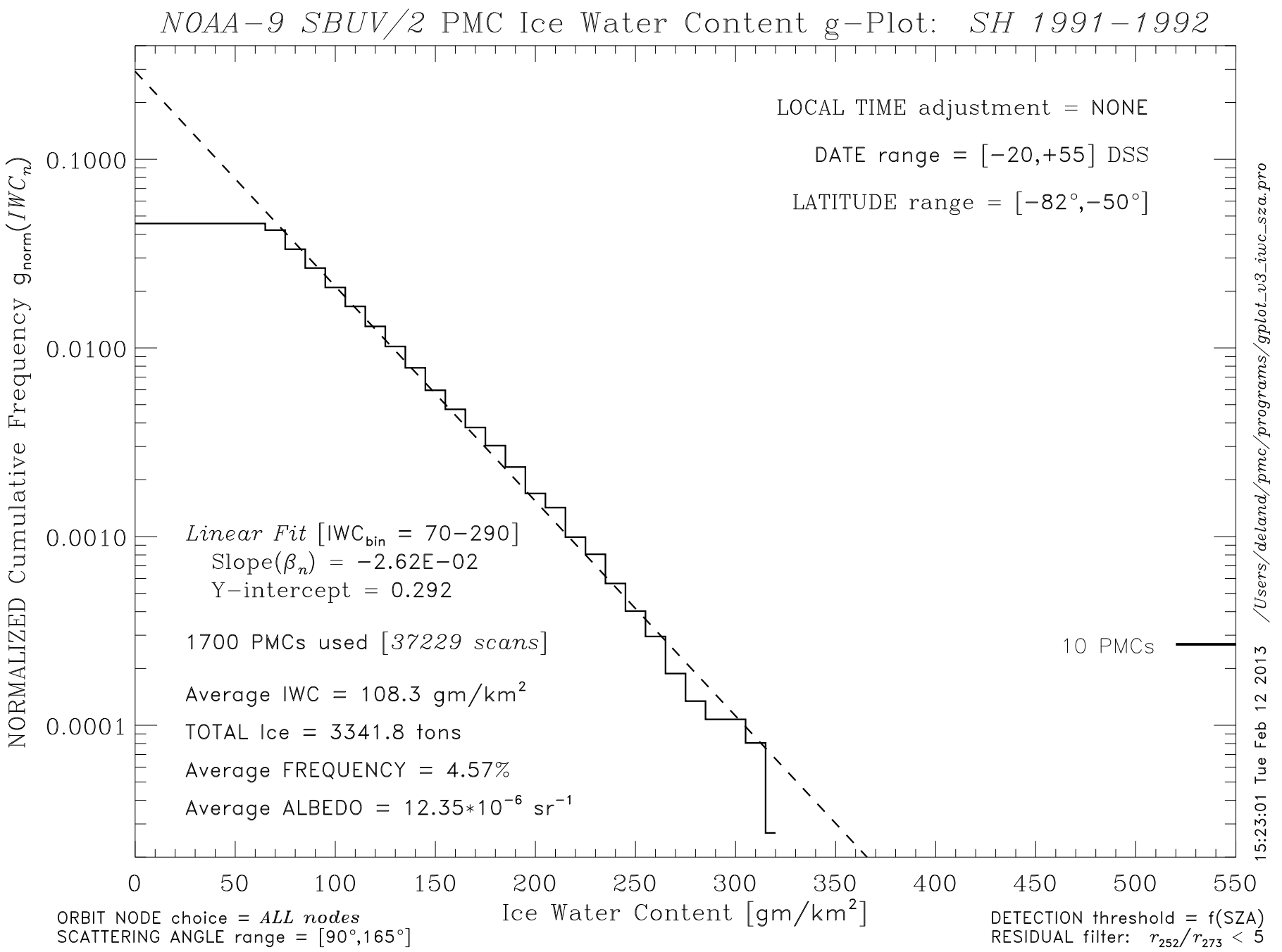

NOAA-9 SBUV/2 PMC Ice Water Content g-Plot: SH 1985-1986
LOCAL TIME adjustment = NONE
DATE range = [-20,+55] DSS
LATITUDE range = [-82°,-50°]
NORMALIZED Cumulative Frequency $g_{norm}(IWC_n)$
0.1000
0.0100
0.0010
0.0001
Linear Fit [IWC_{bin} = 60-280]
Slope(β_n) = -2.35E-02
Y-intercept = 0.155
941 PMCs used [26263 scans]
Average IWC = 105.9 gm/km^2
TOTAL Ice = 3385.2 tons
Average FREQUENCY = 3.58%
Average ALBEDO = 11.86*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: $r_{252}/r_{273} < 5$
15:22:37 Tue Feb 12 2013 /Users/deland/pmc/programs/gplot_v3_iwc_sza.pro

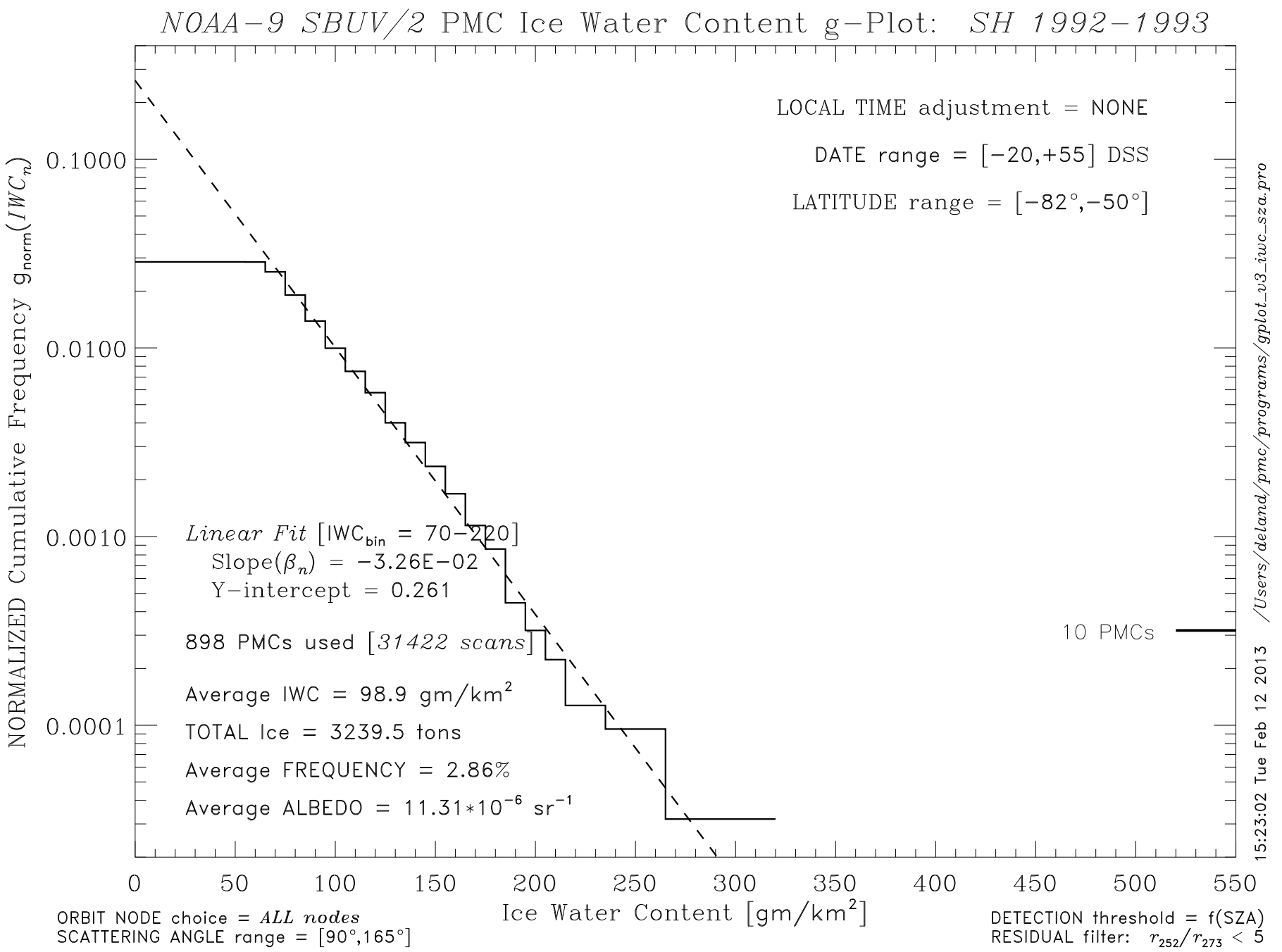

NOAA-9 SBUV/2 PMC Ice Water Content g-Plot: SH 1986-1987
LOCAL TIME adjustment = NONE
DATE range = [-20,+55] DSS
LATITUDE range = [-82°,-50°]
NORMALIZED Cumulative Frequency $g_{norm}(IWC_n)$
0.1000
0.0100
0.0010
0.0001
Linear Fit [IWC_{bin} = 60-330]
Slope(β_n) = -2.49E-02
Y-intercept = 0.339
2136 PMCs used [30658 scans]
Average IWC = 106.5 gm/km^2
TOTAL Ice = 3567.1 tons
Average FREQUENCY = 6.97%
Average ALBEDO = 11.98*10^{-6} sr^{-1}
10 PMCs
0
50
100
150
200
250
300
350
400
450
500
550
Ice Water Content [gm/km^2]
ORBIT NODE choice = ALL nodes
SCATTERING ANGLE range = [90°,165°]
DETECTION threshold = f(SZA)
RESIDUAL filter: $r_{252}/r_{273} < 5$
15:22:38 Tue Feb 12 2013 /Users/deland/pmc/programs/gplot_v3_iwc_sza.pro

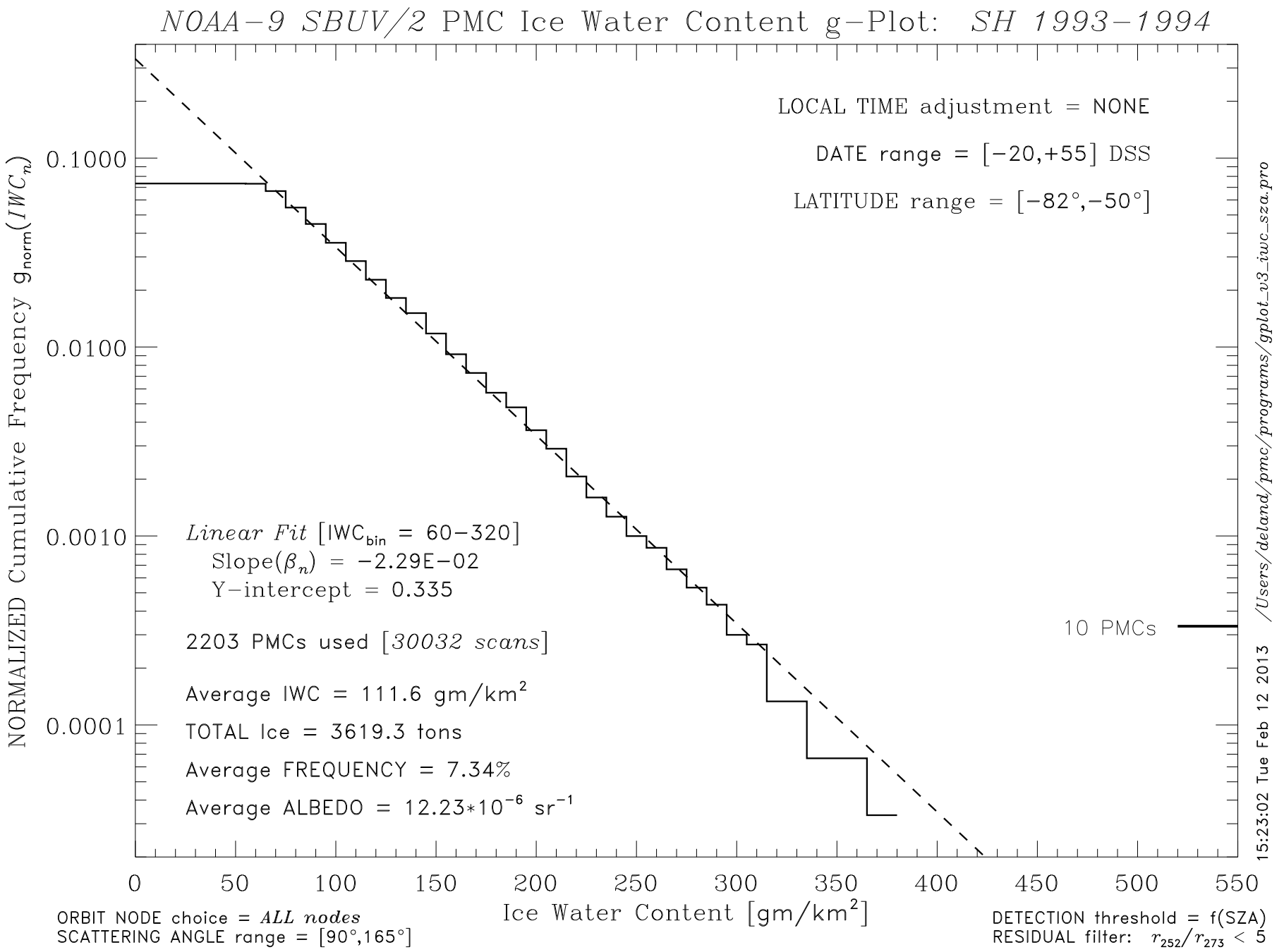
NOAA-9 SBUV/2 PMC Ice Water Content g-Plot: SH 1987-1988
LOCAL TIME adjustment = NONE
DATE range = [-20,+55] DSS
LATITUDE range = [-82°,-50°]
Linear Fit [IWC_bin = 60-320]
Slope(β_n) = -2.20E-02
Y-intercept = 0.294
2099 PMCs used [31280 scans]
Average IWC = 113.3 gm/km²
TOTAL Ice = 3522.5 tons
Average FREQUENCY = 6.71%
Average ALBEDO = 12.89*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/km²]
ORBIT NODE choice = ALL nodes
SCATTERING ANGLE range = [90°,165°]
DETECTION threshold = f(SZA)
RESIDUAL filter: r252/r273 < 5
15:22:39 Tue Feb 12 2013 /Users/deland/pmc/programs/gplot_v3_iwc_sza.pro

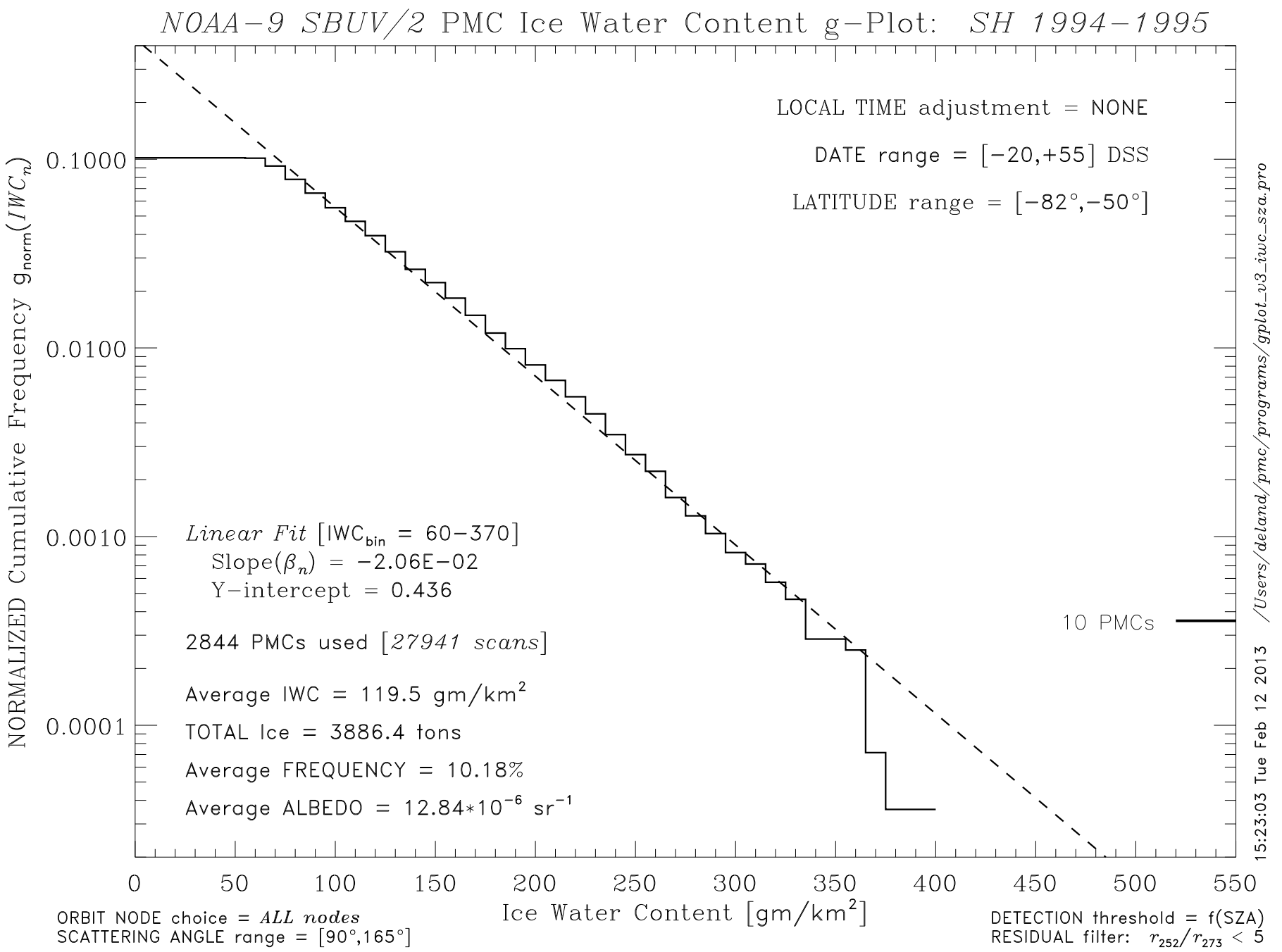

NOAA−9 SBUV/2 PMC Ice Water Content g−Plot: SH 1988−1989
LOCAL TIME adjustment = NONE
DATE range = [−20,+55] DSS
LATITUDE range = [−82°,−50°]
NORMALIZED Cumulative Frequency $g_{norm}(IWC_n)$
0.1000
0.0100
0.0010
0.0001
Linear Fit [IWC_{bin} = 60−290]
Slope(β_n) = −2.51E−02
Y−intercept = 0.297
1541 PMCs used [29646 scans]
Average IWC = 110.6 gm/km^2
TOTAL Ice = 3389.4 tons
Average FREQUENCY = 5.20%
Average ALBEDO = 12.67∗10^{-6} sr^{-1}
10 PMCs
0
50
100
150
200
250
300
350
400
450
500
550
Ice Water Content [gm/km^2]
15:22:39 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: $r_{252}/r_{273} < 5$

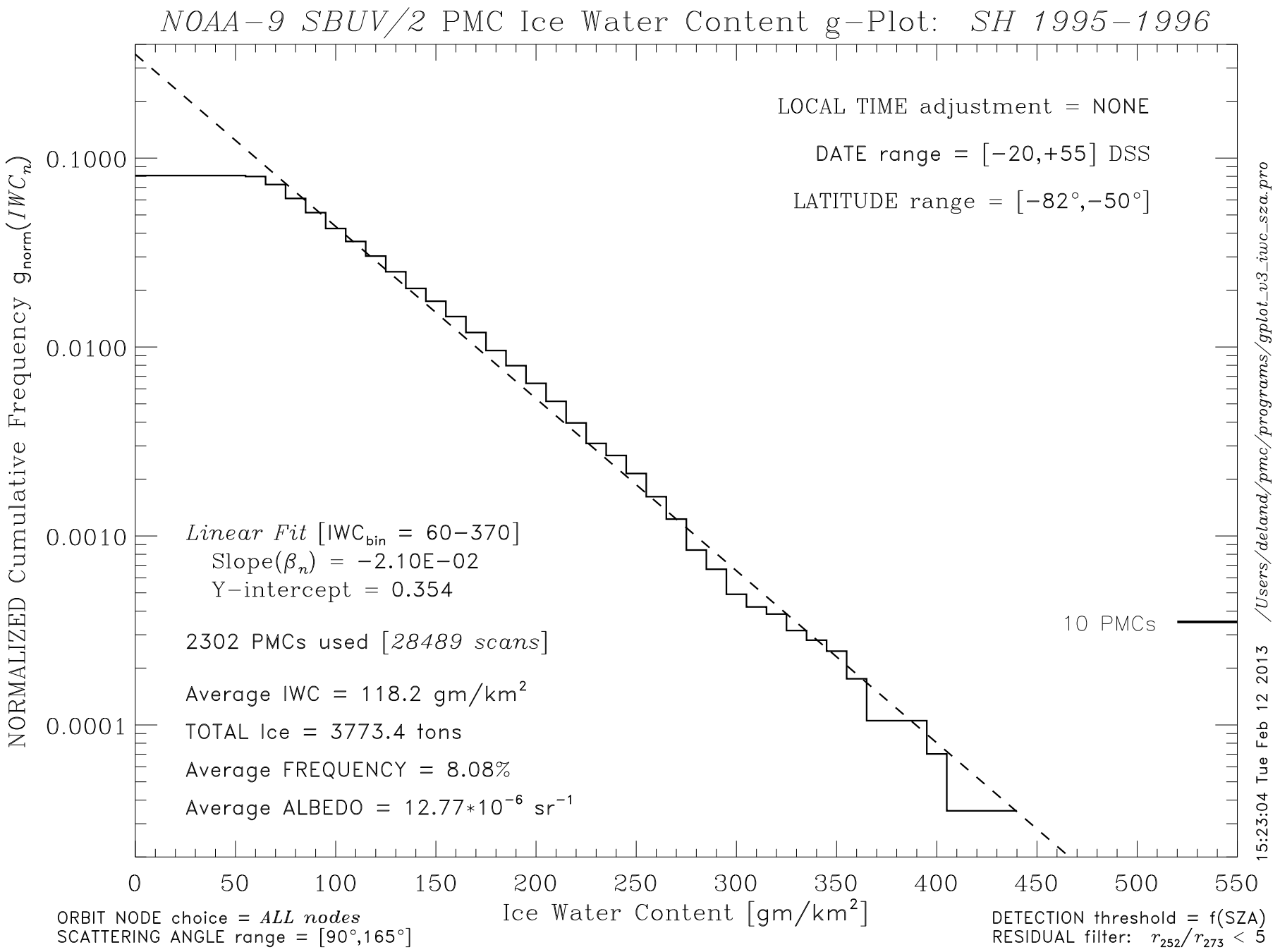
NOAA−9 SBUV/2 PMC Ice Water Content g−Plot: SH 1989−1990
LOCAL TIME adjustment = NONE
DATE range = [−20,+55] DSS
LATITUDE range = [−82°,−50°]
Linear Fit [IWC$_{bin}$ = 70−270]
Slope(β_n) = −2.85E−02
Y−intercept = 0.391
1532 PMCs used [3226β scans]
Average IWC = 108.5 gm/km^2
TOTAL Ice = 3313.5 tons
Average FREQUENCY = 4.75%
Average ALBEDO = 12.68*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: $r_{252}/r_{273} < 5$
15:22:40 Tue Feb 12 2013 /Users/deland/pmc/programs/gplot_v3_iwc_sza.pro

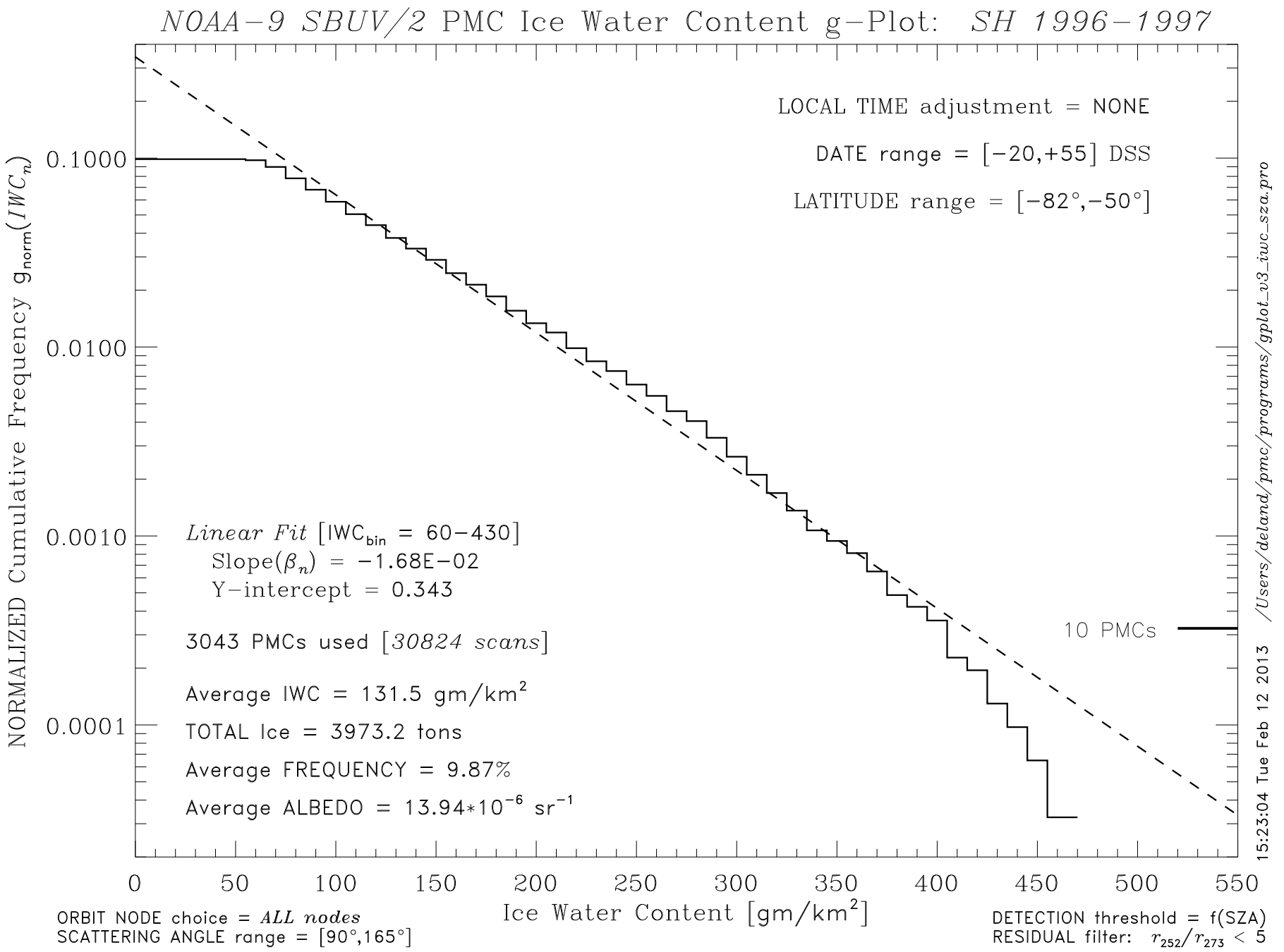

NOAA−9 SBUV/2 PMC Ice Water Content g−Plot: SH 1991−1992
LOCAL TIME adjustment = NONE
DATE range = [−20,+55] DSS
LATITUDE range = [−82°,−50°]
NORMALIZED Cumulative Frequency $g_{norm}(IWC_n)$
0.1000
0.0100
0.0010
0.0001
Linear Fit [IWC$_{bin}$ = 70−290]
Slope(β_n) = −2.62E−02
Y−intercept = 0.292
1700 PMCs used [37229 scans]
Average IWC = 108.3 gm/km^2
TOTAL Ice = 3341.8 tons
Average FREQUENCY = 4.57%
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]
ORBIT NODE choice = ALL nodes
SCATTERING ANGLE range = [90°,165°]
DETECTION threshold = f(SZA)
RESIDUAL filter: $r_{252}/r_{273} < 5$
15:23:01 Tue Feb 12 2013 /Users/deland/pmc/programs/gplot_v3_iwc_sza.pro


NOAA-9 SBUV/2 PMC Ice Water Content g-Plot: SH 1992-1993
LOCAL TIME adjustment = NONE
DATE range = [-20,+55] DSS
LATITUDE range = [-82°,-50°]
NORMALIZED Cumulative Frequency $g_{norm}(IWC_n)$
0.1000
0.0100
0.0010
0.0001
Linear Fit [IWC_bin = 70-220]
Slope(β_n) = -3.26E-02
Y-intercept = 0.261
898 PMCs used [31422 scans]
Average IWC = 98.9 gm/km^2
TOTAL Ice = 3239.5 tons
Average FREQUENCY = 2.86%
Average ALBEDO = 11.31*10^{-6} sr^{-1}
10 PMCs
0
50
100
150
200
250
300
350
400
450
500
550
Ice Water Content [gm/km^2]
ORBIT NODE choice = ALL nodes
SCATTERING ANGLE range = [90°,165°]
DETECTION threshold = f(SZA)
RESIDUAL filter: $r_{252}/r_{273} < 5$
15:23:02 Tue Feb 12 2013 /Users/deland/pmc/programs/gplot_v3_iwc_sza.pro


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°,-50°]
NORMALIZED Cumulative Frequency $g_{norm}(IWC_n)$
0.1000
0.0100
0.0010
0.0001
Linear Fit [IWC_{bin} = 60-320]
Slope(β_n) = -2.29E-02
Y-intercept = 0.335
2203 PMCs used [30032 scans]
Average IWC = 111.6 gm/km^2
TOTAL Ice = 3619.3 tons
Average FREQUENCY = 7.34%
Average ALBEDO = 12.23*10^{-6} sr^{-1}
10 PMCs
0
50
100
150
200
250
300
350
400
450
500
550
Ice Water Content [gm/km^2]
15:23:02 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-9 SBUV/2 PMC Ice Water Content g-Plot: SH 1994-1995
LOCAL TIME adjustment = NONE
DATE range = [-20,+55] DSS
LATITUDE range = [-82°,-50°]
NORMALIZED Cumulative Frequency $g_{norm}(IWC_n)$
0.1000
0.0100
0.0010
0.0001
Linear Fit [IWC_{bin} = 60-370]
Slope(β_n) = -2.06E-02
Y-intercept = 0.436
2844 PMCs used [27941 scans]
Average IWC = 119.5 gm/km^2
TOTAL Ice = 3886.4 tons
Average FREQUENCY = 10.18%
Average ALBEDO = 12.84*10^{-6} sr^{-1}
10 PMCs
0
50
100
150
200
250
300
350
400
450
500
550
Ice Water Content [gm/km^2]
ORBIT NODE choice = ALL nodes
SCATTERING ANGLE range = [90°,165°]
DETECTION threshold = f(SZA)
RESIDUAL filter: $r_{252}/r_{273} < 5$
15:23:03 Tue Feb 12 2013 /Users/deland/pmc/programs/gplot_v3_iwc_sza.pro


NOAA-9 SBUV/2 PMC Ice Water Content g-Plot: SH 1995-1996
LOCAL TIME adjustment = NONE
DATE range = [-20,+55] DSS
LATITUDE range = [-82°,-50°]
NORMALIZED Cumulative Frequency $g_{norm}(IWC_n)$
0.1000
0.0100
0.0010
0.0001
Linear Fit [IWC_{bin} = 60-370]
Slope(β_n) = -2.10E-02
Y-intercept = 0.354
2302 PMCs used [28489 scans]
Average IWC = 118.2 gm/km^2
TOTAL Ice = 3773.4 tons
Average FREQUENCY = 8.08%
Average ALBEDO = 12.77*10^{-6} sr^{-1}
10 PMCs
0
50
100
150
200
250
300
350
400
450
500
550
Ice Water Content [gm/km^2]
ORBIT NODE choice = ALL nodes
SCATTERING ANGLE range = [90°,165°]
DETECTION threshold = f(SZA)
RESIDUAL filter: $r_{252}/r_{273} < 5$
15:23:04 Tue Feb 12 2013 /Users/deland/pmc/programs/gplot_v3_iwc_sza.pro

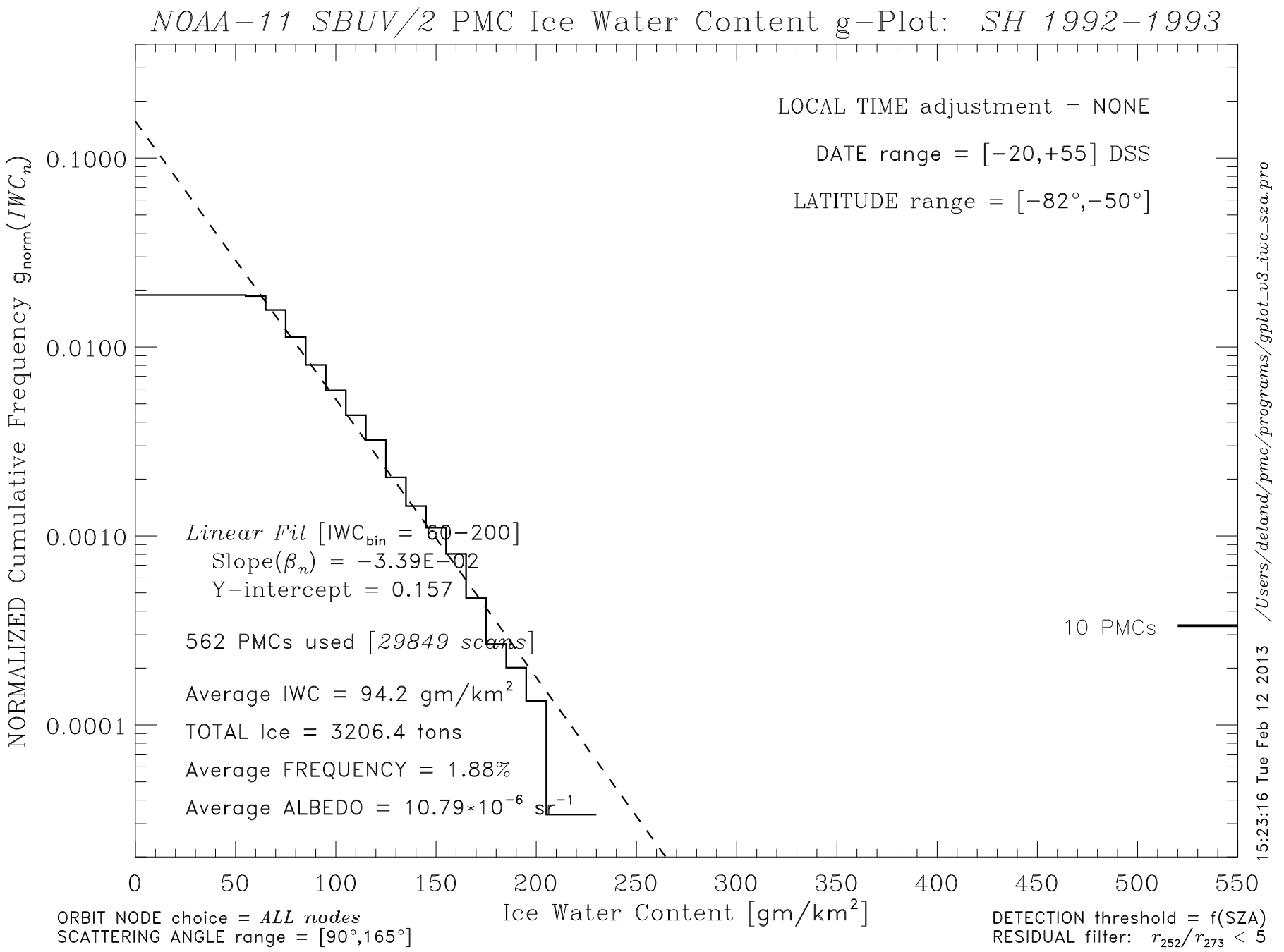

NOAA-9 SBUV/2 PMC Ice Water Content g-Plot: SH 1996-1997
LOCAL TIME adjustment = NONE
DATE range = [-20,+55] DSS
LATITUDE range = [-82°,-50°]
NORMALIZED Cumulative Frequency $g_{norm}(IWC_n)$
0.1000
0.0100
0.0010
0.0001
Linear Fit [IWC_bin = 60-430]
Slope(β_n) = -1.68E-02
Y-intercept = 0.343
3043 PMCs used [30824 scans]
Average IWC = 131.5 gm/km^2
TOTAL Ice = 3973.2 tons
Average FREQUENCY = 9.87%
Average ALBEDO = 13.94*10^{-6} sr^{-1}
10 PMCs
0
50
100
150
200
250
300
350
400
450
500
550
Ice Water Content [gm/km^2]
ORBIT NODE choice = ALL nodes
SCATTERING ANGLE range = [90°,165°]
DETECTION threshold = f(SZA)
RESIDUAL filter: $r_{252}/r_{273} < 5$
15:23:04 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°,−50°]
Linear Fit [IWC$_{bin}$ = 60−270]
Slope(β_n) = −2.69E−02
Y−intercept = 0.235
1310 PMCs used [29217 scans]
Average IWC = 101.1 gm/km^2
TOTAL Ice = 3561.4 tons
Average FREQUENCY = 4.48%
Average ALBEDO = 10.73*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: $r_{252}/r_{273} < 5$
15:23:13 Tue Feb 12 2013 /Users/deland/pmc/programs/gplot_v3_iwc_sza.pro

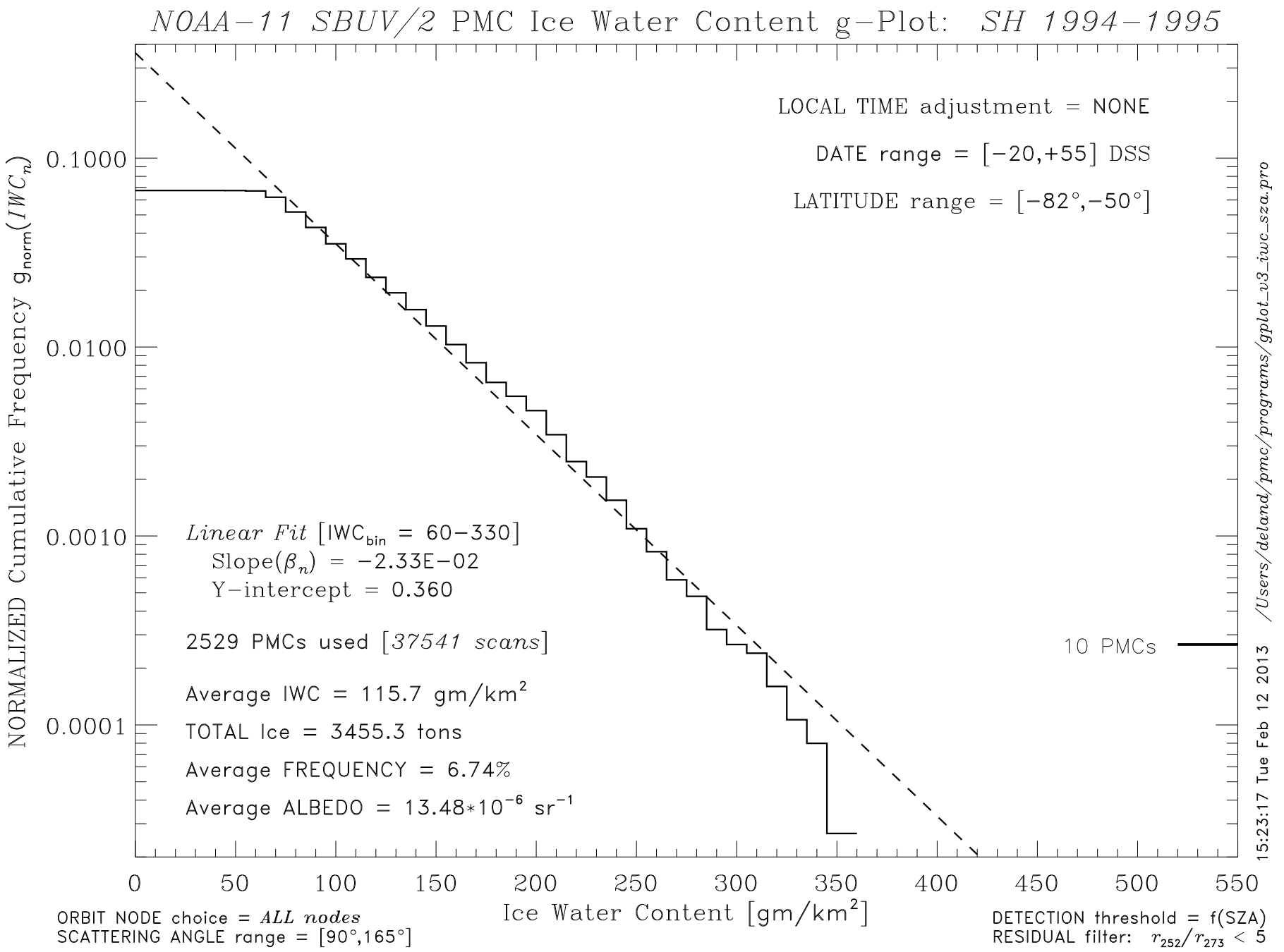
NOAA−11 SBUV/2 PMC Ice Water Content g−Plot: SH 1989−1990
LOCAL TIME adjustment = NONE
DATE range = [−20,+55] DSS
LATITUDE range = [−82°,−50°]
Linear Fit [IWC$_{bin}$ = 50−280]
Slope(β_n) = −2.63E−02
Y−intercept = 0.210
1304 PMCs used [29668 scans]
Average IWC = 101.7 gm/km^2
TOTAL Ice = 3512.6 tons
Average FREQUENCY = 4.40%
Average ALBEDO = 11.05*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: $r_{252}/r_{273} < 5$
15:23:14 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°,-50°]
Linear Fit [IWC_bin = 60-230]
Slope(β_n) = -2.70E-02
Y-intercept = 0.101
556 PMCs used [27371 scans]
Average IWC = 98.4 gm/km²
TOTAL Ice = 3308.1 tons
Average FREQUENCY = 2.03%
Average ALBEDO = 10.95*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
15:23:15 Tue Feb 12 2013 /Users/deland/pmc/programs/gplot_v3_iwc_sza.pro

NOAA-11 SBUV/2 PMC Ice Water Content g-Plot: SH 1991-1992
LOCAL TIME adjustment = NONE
DATE range = [-20,+55] DSS
LATITUDE range = [-82°,-50°]
Linear Fit [IWC_bin = 60-250]
Slope(β_n) = -2.74E-02
Y-intercept = 0.189
918 PMCs used [28164 scans]
Average IWC = 102.8 gm/km²
TOTAL Ice = 3347.8 tons
Average FREQUENCY = 3.26%
Average ALBEDO = 11.43*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
15:23:15 Tue Feb 12 2013 /Users/deland/pmc/programs/gplot_v3_iwc_sza.pro

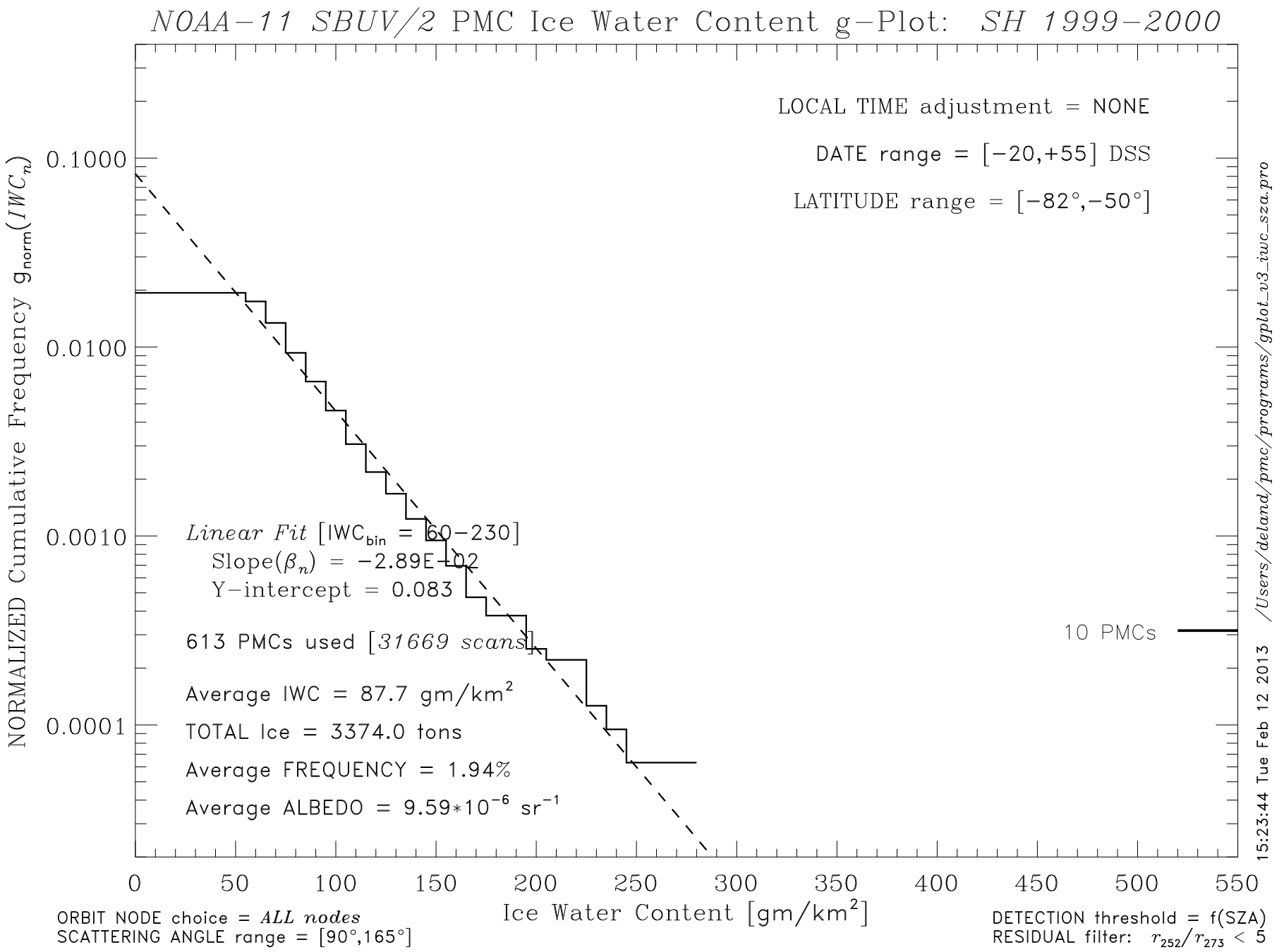

NOAA−11 SBUV/2 PMC Ice Water Content g−Plot: SH 1992−1993
LOCAL TIME adjustment = NONE
DATE range = [−20,+55] DSS
LATITUDE range = [−82°,−50°]
NORMALIZED Cumulative Frequency $g_{norm}(IWC_n)$
0.1000
0.0100
0.0010
0.0001
Linear Fit [IWC$_{bin}$ = 60−200]
Slope(β_n) = −3.39E−02
Y−intercept = 0.157
562 PMCs used [29849 scans]
Average IWC = 94.2 gm/km^2
TOTAL Ice = 3206.4 tons
Average FREQUENCY = 1.88%
Average ALBEDO = 10.79∗10^{-6} sr^{-1}
10 PMCs
0
50
100
150
200
250
300
350
400
450
500
550
Ice Water Content [gm/km^2]
ORBIT NODE choice = ALL nodes
SCATTERING ANGLE range = [90°,165°]
DETECTION threshold = f(SZA)
RESIDUAL filter: $r_{252}/r_{273} < 5$
15:23:16 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°,-50°]
Linear Fit [IWC_bin = 50-300]
Slope(β_n) = -2.62E-02
Y-intercept = 0.314
2139 PMCs used [33442 scans]
Average IWC = 102.3 gm/km²
TOTAL Ice = 3438.2 tons
Average FREQUENCY = 6.40%
Average ALBEDO = 11.80*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
15:23:16 Tue Feb 12 2013 /Users/deland/pmc/programs/gplot_v3_iwc_sza.pro

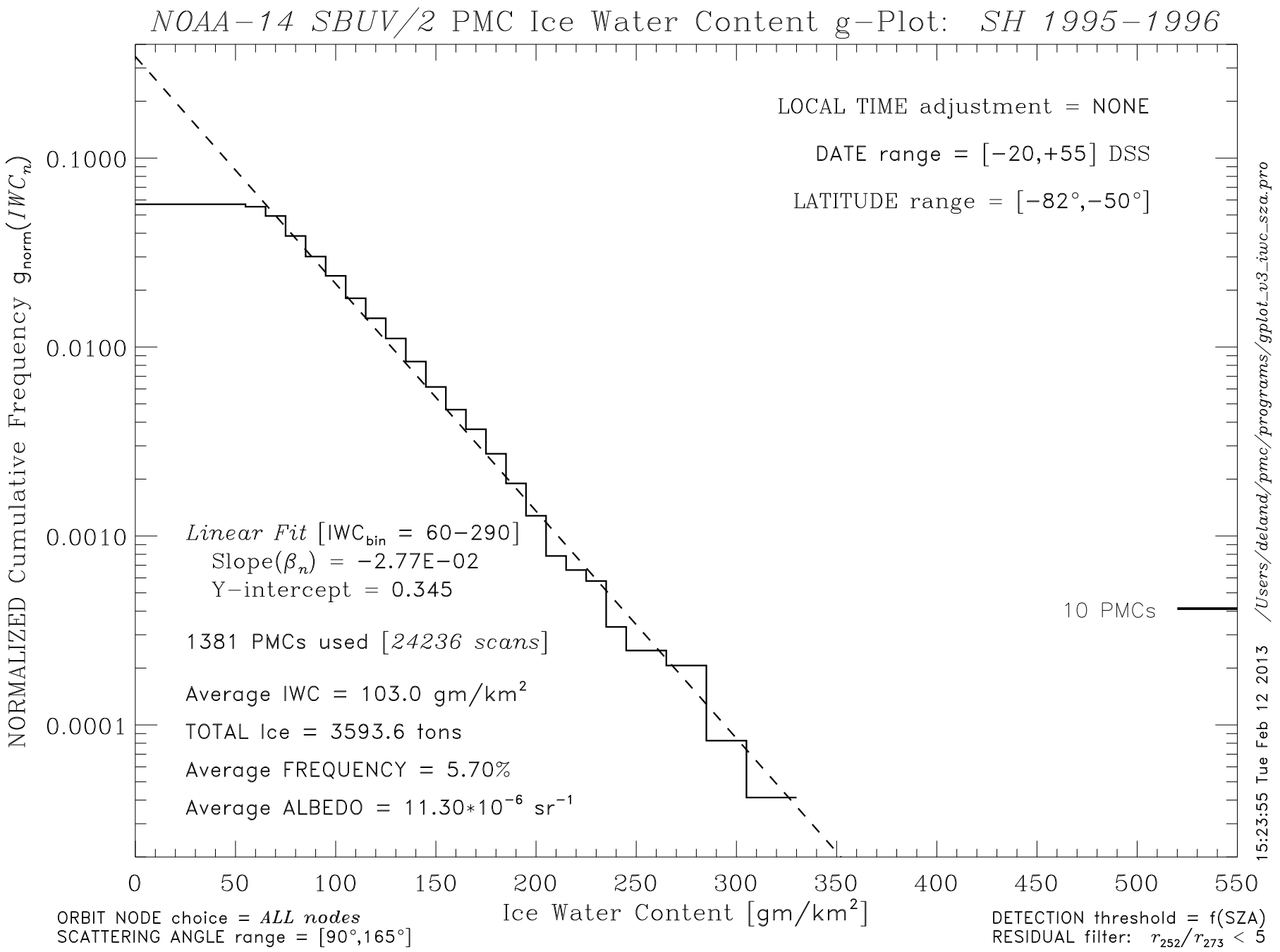

NOAA−11 SBUV/2 PMC Ice Water Content g−Plot: SH 1994−1995
LOCAL TIME adjustment = NONE
DATE range = [−20,+55] DSS
LATITUDE range = [−82°,−50°]
NORMALIZED Cumulative Frequency $g_{norm}(IWC_n)$
0.1000
0.0100
0.0010
0.0001
Linear Fit [IWC_{bin} = 60−330]
Slope(β_n) = −2.33E−02
Y−intercept = 0.360
2529 PMCs used [37541 scans]
Average IWC = 115.7 gm/km^2
TOTAL Ice = 3455.3 tons
Average FREQUENCY = 6.74%
Average ALBEDO = 13.48∗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: $r_{252}/r_{273} < 5$
15:23:17 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°,−50°]
Linear Fit [IWC$_{bin}$ = 50−330]
Slope(β_n) = −2.30E−02
Y−intercept = 0.303
2448 PMCs used [33452 scans]
Average IWC = 107.4 gm/km^2
TOTAL Ice = 3594.8 tons
Average FREQUENCY = 7.32%
Average ALBEDO = 11.88*10^{-6} sr^{-1}
10 PMCs
NORMALIZED Cumulative Frequency g$_{norm}$(IWC_n)
0.1000
0.0100
0.0010
0.0001
0
50
100
150
200
250
300
350
400
450
500
550
Ice Water Content [gm/km^2]
ORBIT NODE choice = ALL nodes
SCATTERING ANGLE range = [90°,165°]
DETECTION threshold = f(SZA)
RESIDUAL filter: $r_{252}/r_{273} < 5$
15:23:43 Tue Feb 12 2013 /Users/deland/pmc/programs/gplot_v3_iwc_sza.pro

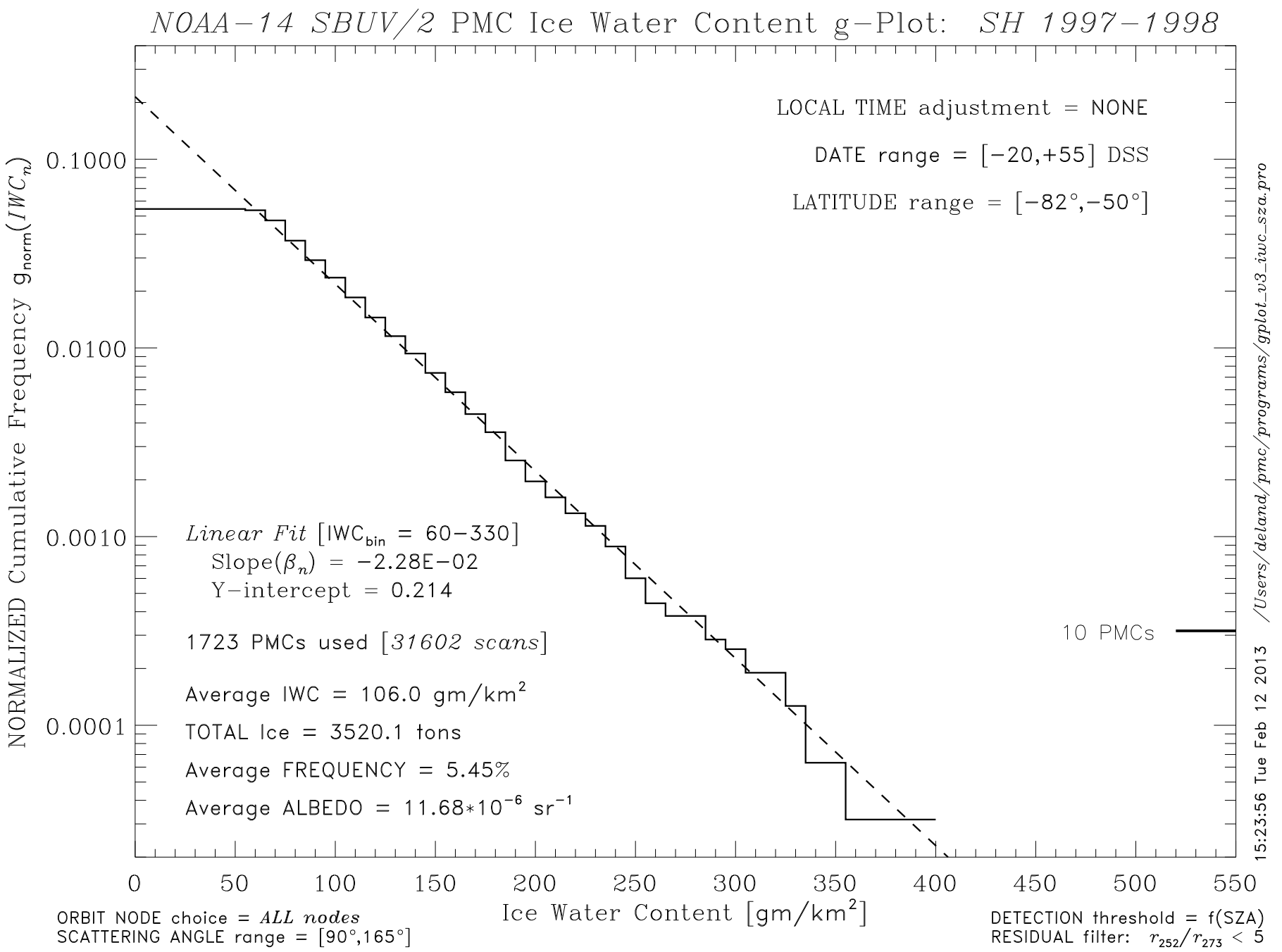
NOAA-11 SBUV/2 PMC Ice Water Content g-Plot: SH 1998-1999
LOCAL TIME adjustment = NONE
DATE range = [-20,+55] DSS
LATITUDE range = [-82°,-50°]
Linear Fit [IWC_bin = 60-200]
Slope(β_n) = -3.11E-02
Y-intercept = 0.124
638 PMCs used [3194 scans]
Average IWC = 91.5 gm/km²
TOTAL Ice = 3258.0 tons
Average FREQUENCY = 2.05%
Average ALBEDO = 10.37*10⁻⁶ sr⁻¹
10 PMCs
NORMALIZED Cumulative Frequency g_norm(IWC_n)
0.1000
0.0100
0.0010
0.0001
0
50
100
150
200
250
300
350
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
15:23:44 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°,−50°]
NORMALIZED Cumulative Frequency $g_{norm}(IWC_n)$
0.1000
0.0100
0.0010
0.0001
Linear Fit [IWC$_{bin}$ = 60−230]
Slope(β_n) = −2.89E−02
Y−intercept = 0.083
613 PMCs used [31669 scans]
Average IWC = 87.7 gm/km^2
TOTAL Ice = 3374.0 tons
Average FREQUENCY = 1.94%
Average ALBEDO = 9.59∗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: $r_{252}/r_{273} < 5$
15:23:44 Tue Feb 12 2013 /Users/deland/pmc/programs/gplot_v3_iwc_sza.pro

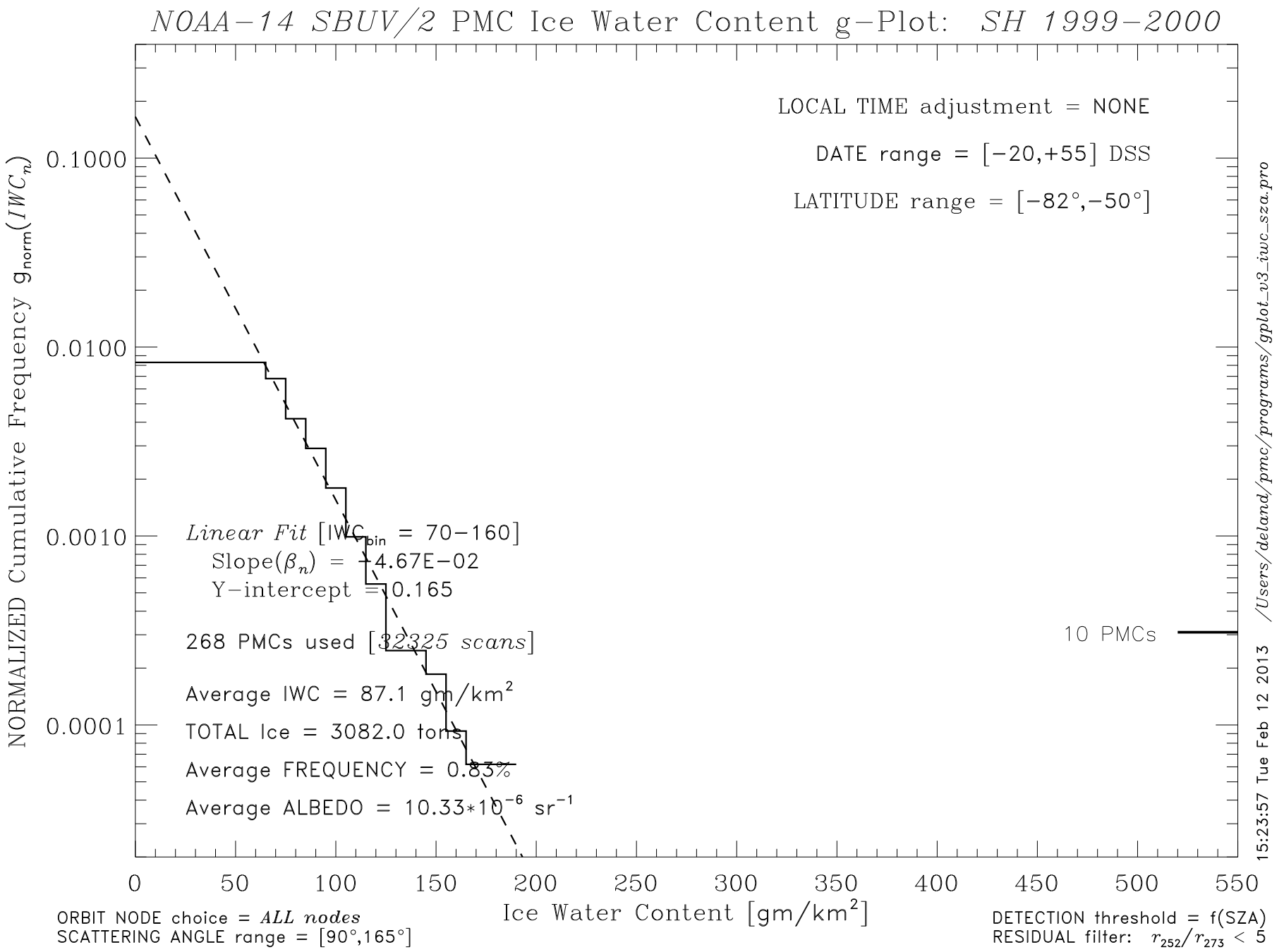
NOAA-11 SBUV/2 PMC Ice Water Content g-Plot: SH 2000-2001
LOCAL TIME adjustment = NONE
DATE range = [-20,+55] DSS
LATITUDE range = [-82°,-50°]
10 PMCs
Linear Fit [IWC_bin = 50-360]
Slope(β_n) = -2.11E-02
Y-intercept = 0.221
2062 PMCs used [30179 scans]
Average IWC = 107.8 gm/km²
TOTAL Ice = 3684.1 tons
Average FREQUENCY = 6.83%
Average ALBEDO = 11.61*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
15:23:45 Tue Feb 12 2013 /Users/deland/pmc/programs/gplot_v3_iwc_sza.pro


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°,−50°]
NORMALIZED Cumulative Frequency $g_{norm}(IWC_n)$
0.1000
0.0100
0.0010
0.0001
Linear Fit [IWC_{bin} = 60−290]
Slope(β_n) = −2.77E−02
Y−intercept = 0.345
1381 PMCs used [24236 scans]
Average IWC = 103.0 gm/km^2
TOTAL Ice = 3593.6 tons
Average FREQUENCY = 5.70%
Average ALBEDO = 11.30∗10^{-6} sr^{-1}
10 PMCs
0
50
100
150
200
250
300
350
400
450
500
550
Ice Water Content [gm/km^2]
15:23:55 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−14 SBUV/2 PMC Ice Water Content g−Plot: SH 1996−1997
LOCAL TIME adjustment = NONE
DATE range = [−20,+55] DSS
LATITUDE range = [−82°,−50°]
Linear Fit [IWC$_{bin}$ = 60−360]
Slope(β_n) = −1.90E−02
Y−intercept = 0.344
2590 PMCs used [28088 scans]
Average IWC = 121.2 gm/km^2
TOTAL Ice = 3840.2 tons
Average FREQUENCY = 9.22%
Average ALBEDO = 13.27*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: $r_{252}/r_{273} < 5$
15:23:55 Tue Feb 12 2013 /Users/deland/pmc/programs/gplot_v3_iwc_sza.pro

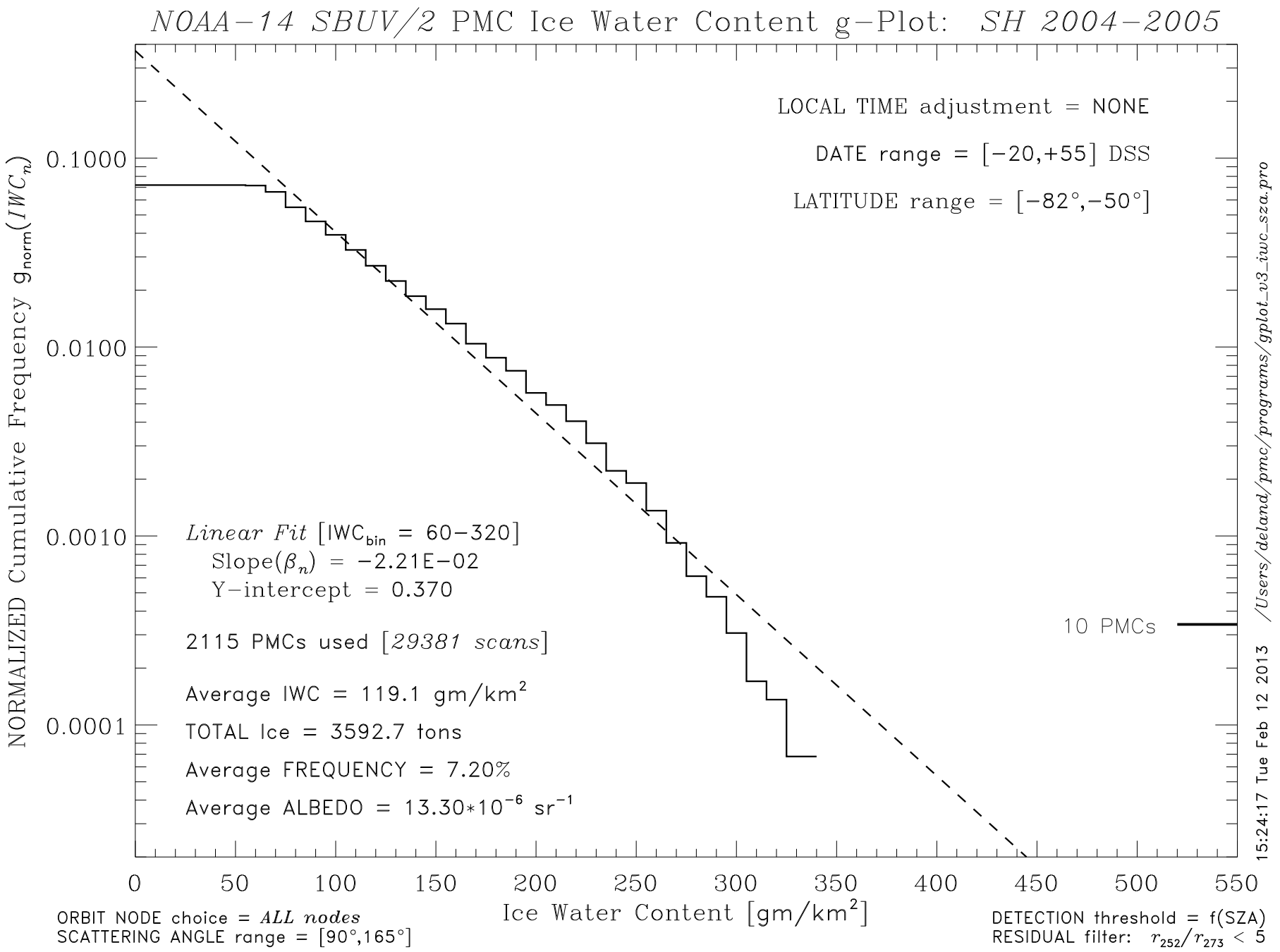

NOAA−14 SBUV/2 PMC Ice Water Content g−Plot: SH 1997−1998
LOCAL TIME adjustment = NONE
DATE range = [−20,+55] DSS
LATITUDE range = [−82°,−50°]
NORMALIZED Cumulative Frequency $g_{norm}(IWC_n)$
0.1000
0.0100
0.0010
0.0001
Linear Fit [IWC_{bin} = 60−330]
Slope(β_n) = −2.28E−02
Y−intercept = 0.214
1723 PMCs used [31602 scans]
Average IWC = 106.0 gm/km^2
TOTAL Ice = 3520.1 tons
Average FREQUENCY = 5.45%
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]
ORBIT NODE choice = ALL nodes
SCATTERING ANGLE range = [90°,165°]
DETECTION threshold = f(SZA)
RESIDUAL filter: $r_{252}/r_{273} < 5$
15:23:56 Tue Feb 12 2013 /Users/deland/pmc/programs/gplot_v3_iwc_sza.pro

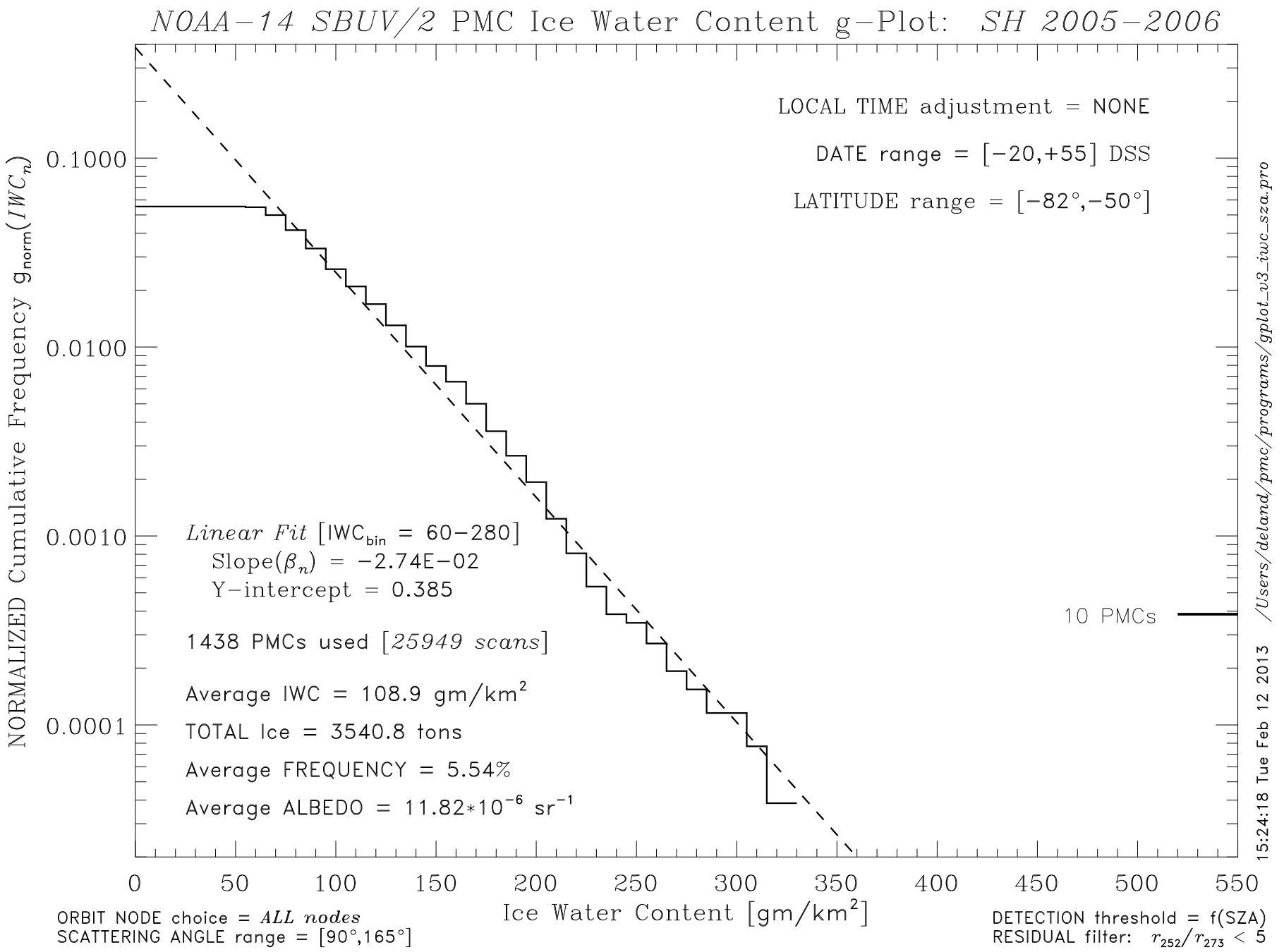
NOAA−14 SBUV/2 PMC Ice Water Content g−Plot: SH 1998−1999
LOCAL TIME adjustment = NONE
DATE range = [−20,+55] DSS
LATITUDE range = [−82°,−50°]
Linear Fit [IWC_bin] = 60−210]
Slope(β_n) = −3.11E−02
Y−intercept = 0.056
326 PMCs used [31186 scans]
Average IWC = 90.1 gm/km²
TOTAL Ice = 3158.1 tons
Average FREQUENCY = 1.05%
Average ALBEDO = 10.47*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
15:23:57 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°,−50°]
NORMALIZED Cumulative Frequency $g_{norm}(IWC_n)$
0.1000
0.0100
0.0010
0.0001
Linear Fit [IWC_{bin} = 70−160]
Slope(β_n) = −4.67E−02
Y−intercept = 0.165
268 PMCs used [32325 scans]
Average IWC = 87.1 gm/km^2
TOTAL Ice = 3082.0 tons
Average FREQUENCY = 0.83%
Average ALBEDO = 10.33*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: $r_{252}/r_{273} < 5$
15:23:57 Tue Feb 12 2013 /Users/deland/pmc/programs/gplot_v3_iwc_sza.pro

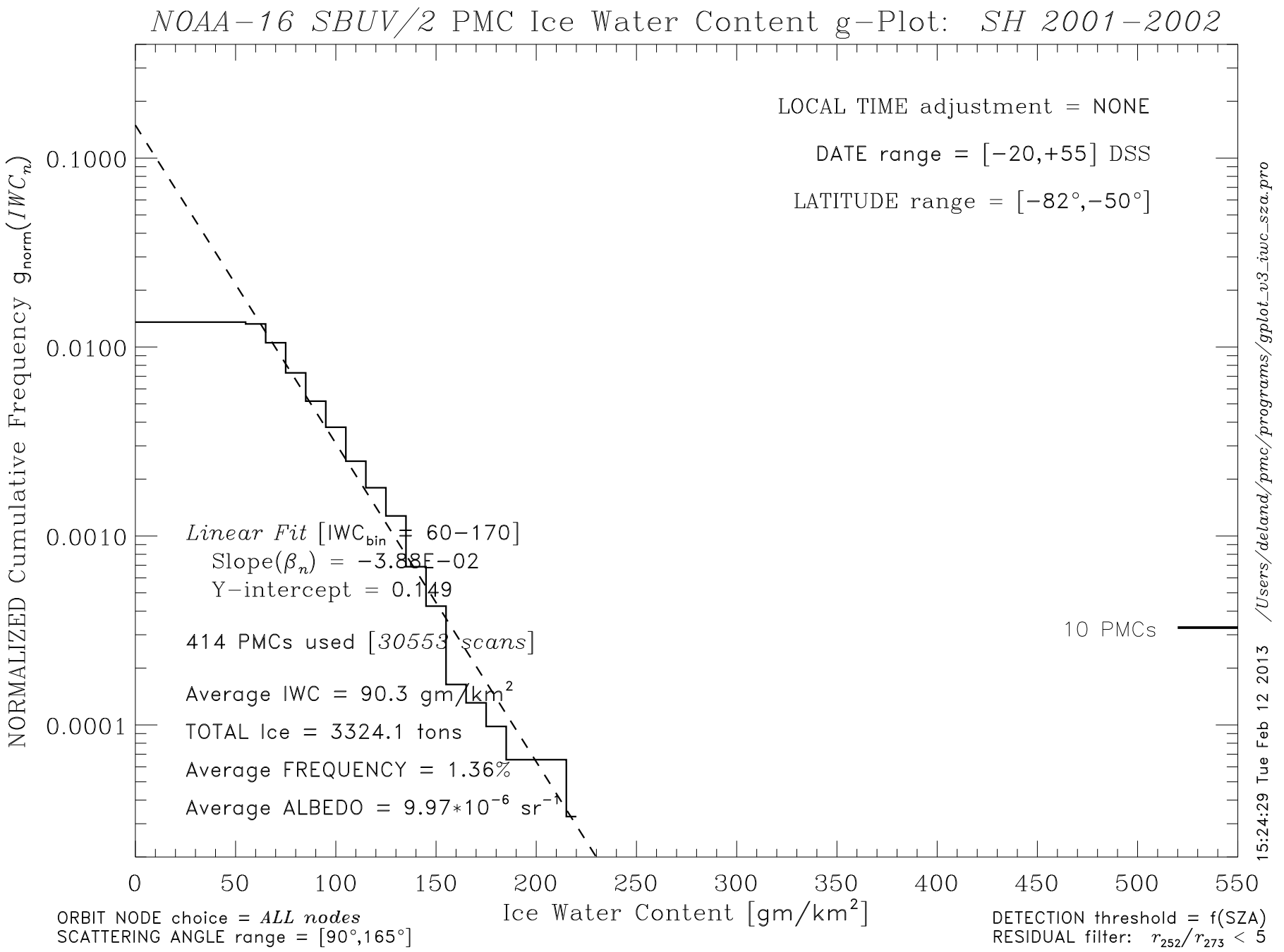
NOAA−14 SBUV/2 PMC Ice Water Content g−Plot: SH 2000−2001
LOCAL TIME adjustment = NONE
DATE range = [−20,+55] DSS
LATITUDE range = [−82°,−50°]
Linear Fit [IWC$_{bin}$ = 70−270]
Slope(β_n) = −2.75E−02
Y−intercept = 0.309
1701 PMCs used [3604 scans]
Average IWC = 104.8 gm/km^2
TOTAL Ice = 3291.0 tons
Average FREQUENCY = 4.71%
Average ALBEDO = 12.42*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: $r_{252}/r_{273} < 5$
15:23:58 Tue Feb 12 2013 /Users/deland/pmc/programs/gplot_v3_iwc_sza.pro

NOAA−14 SBUV/2 PMC Ice Water Content g−Plot: SH 2003−2004
LOCAL TIME adjustment = NONE
DATE range = [−20,+55] DSS
LATITUDE range = [−82°,−50°]
Linear Fit [IWC$_{bin}$ = 70−290]
Slope(β_n) = −2.55E−02
Y−intercept = 0.215
1362 PMCs used [33740 scans]
Average IWC = 105.3 gm/km^2
TOTAL Ice = 3329.0 tons
Average FREQUENCY = 4.04%
Average ALBEDO = 11.83*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: $r_{252}/r_{273} < 5$
15:24:17 Tue Feb 12 2013 /Users/deland/pmc/programs/gplot_v3_iwc_sza.pro


NOAA−14 SBUV/2 PMC Ice Water Content g−Plot: SH 2004−2005
LOCAL TIME adjustment = NONE
DATE range = [−20,+55] DSS
LATITUDE range = [−82°,−50°]
NORMALIZED Cumulative Frequency $g_{norm}(IWC_n)$
0.1000
0.0100
0.0010
0.0001
Linear Fit [IWC_{bin} = 60−320]
Slope(β_n) = −2.21E−02
Y−intercept = 0.370
2115 PMCs used [29381 scans]
Average IWC = 119.1 gm/km^2
TOTAL Ice = 3592.7 tons
Average FREQUENCY = 7.20%
Average ALBEDO = 13.30∗10^{-6} sr^{-1}
10 PMCs
0
50
100
150
200
250
300
350
400
450
500
550
Ice Water Content [gm/km^2]
15:24:17 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−14 SBUV/2 PMC Ice Water Content g−Plot: SH 2005−2006
LOCAL TIME adjustment = NONE
DATE range = [−20,+55] DSS
LATITUDE range = [−82°,−50°]
NORMALIZED Cumulative Frequency $g_{norm}(IWC_n)$
0.1000
0.0100
0.0010
0.0001
Linear Fit [IWC_{bin} = 60−280]
Slope(β_n) = −2.74E−02
Y−intercept = 0.385
1438 PMCs used [25949 scans]
Average IWC = 108.9 gm/km^2
TOTAL Ice = 3540.8 tons
Average FREQUENCY = 5.54%
Average ALBEDO = 11.82∗10^{-6} sr^{-1}
10 PMCs
0
50
100
150
200
250
300
350
400
450
500
550
Ice Water Content [gm/km^2]
15:24:18 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: $r_{252}/r_{273} < 5$

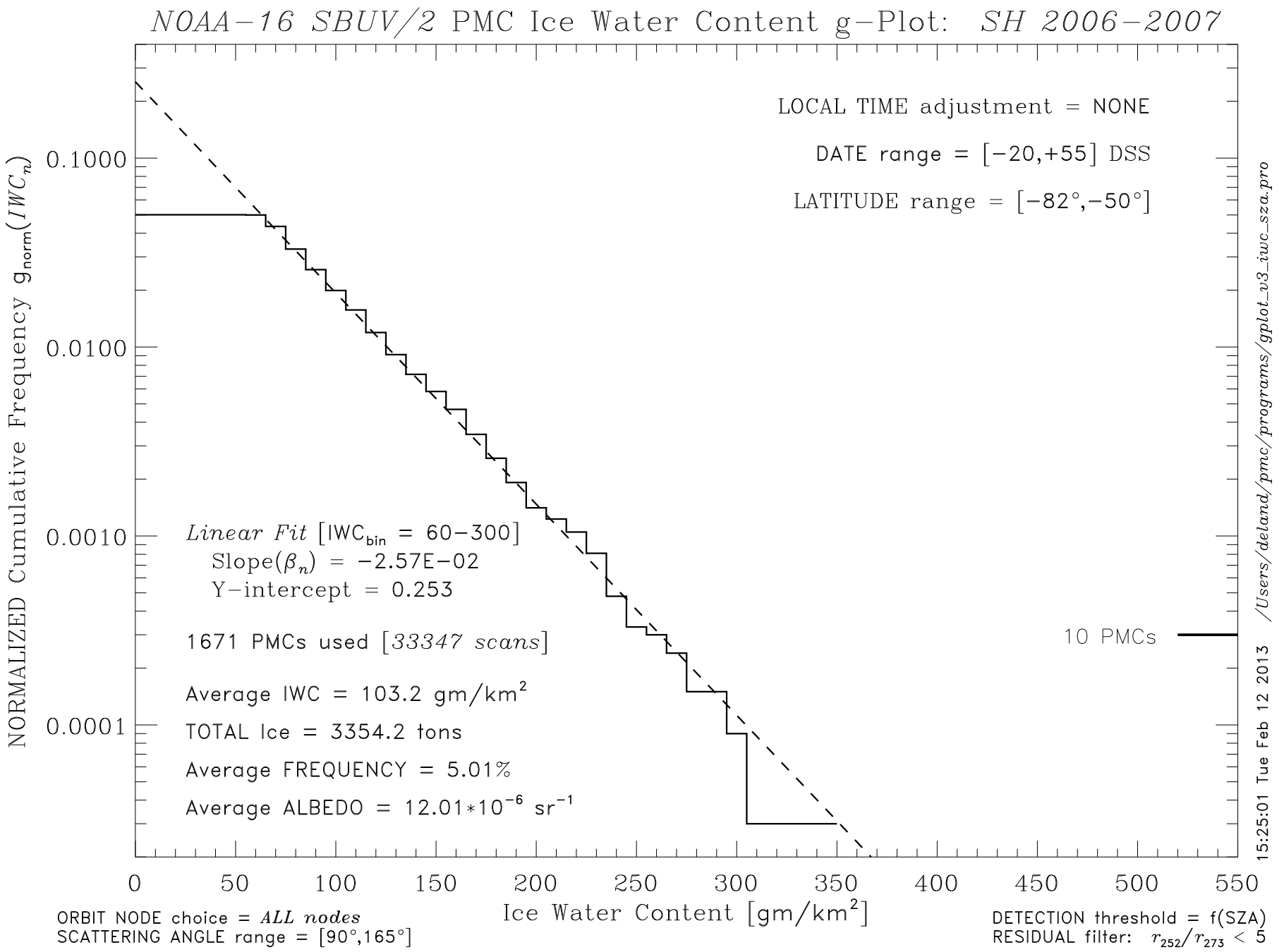
NOAA−16 SBUV/2 PMC Ice Water Content g−Plot: SH 2000−2001
LOCAL TIME adjustment = NONE
DATE range = [−20,+55] DSS
LATITUDE range = [−82°,−50°]
Linear Fit [IWC$_{bin}$ = 60−290]
Slope(β_n) = −2.65E−02
Y−intercept = 0.339
1758 PMCs used [30631 scans]
Average IWC = 105.7 gm/km^2
TOTAL Ice = 3561.5 tons
Average FREQUENCY = 5.74%
Average ALBEDO = 11.69*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: $r_{252}/r_{273} < 5$
15:24:29 Tue Feb 12 2013 /Users/deland/pmc/programs/gplot_v3_iwc_sza.pro


NOAA−16 SBUV/2 PMC Ice Water Content g−Plot: SH 2001−2002
LOCAL TIME adjustment = NONE
DATE range = [−20,+55] DSS
LATITUDE range = [−82°,−50°]
NORMALIZED Cumulative Frequency $g_{norm}(IWC_n)$
0.1000
0.0100
0.0010
0.0001
Linear Fit [IWC_{bin} = 60−170]
Slope(β_n) = −3.88E−02
Y−intercept = 0.149
414 PMCs used [30553 scans]
Average IWC = 90.3 gm/km^2
TOTAL Ice = 3324.1 tons
Average FREQUENCY = 1.36%
Average ALBEDO = 9.97∗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: $r_{252}/r_{273} < 5$
15:24:29 Tue Feb 12 2013 /Users/deland/pmc/programs/gplot_v3_iwc_sza.pro

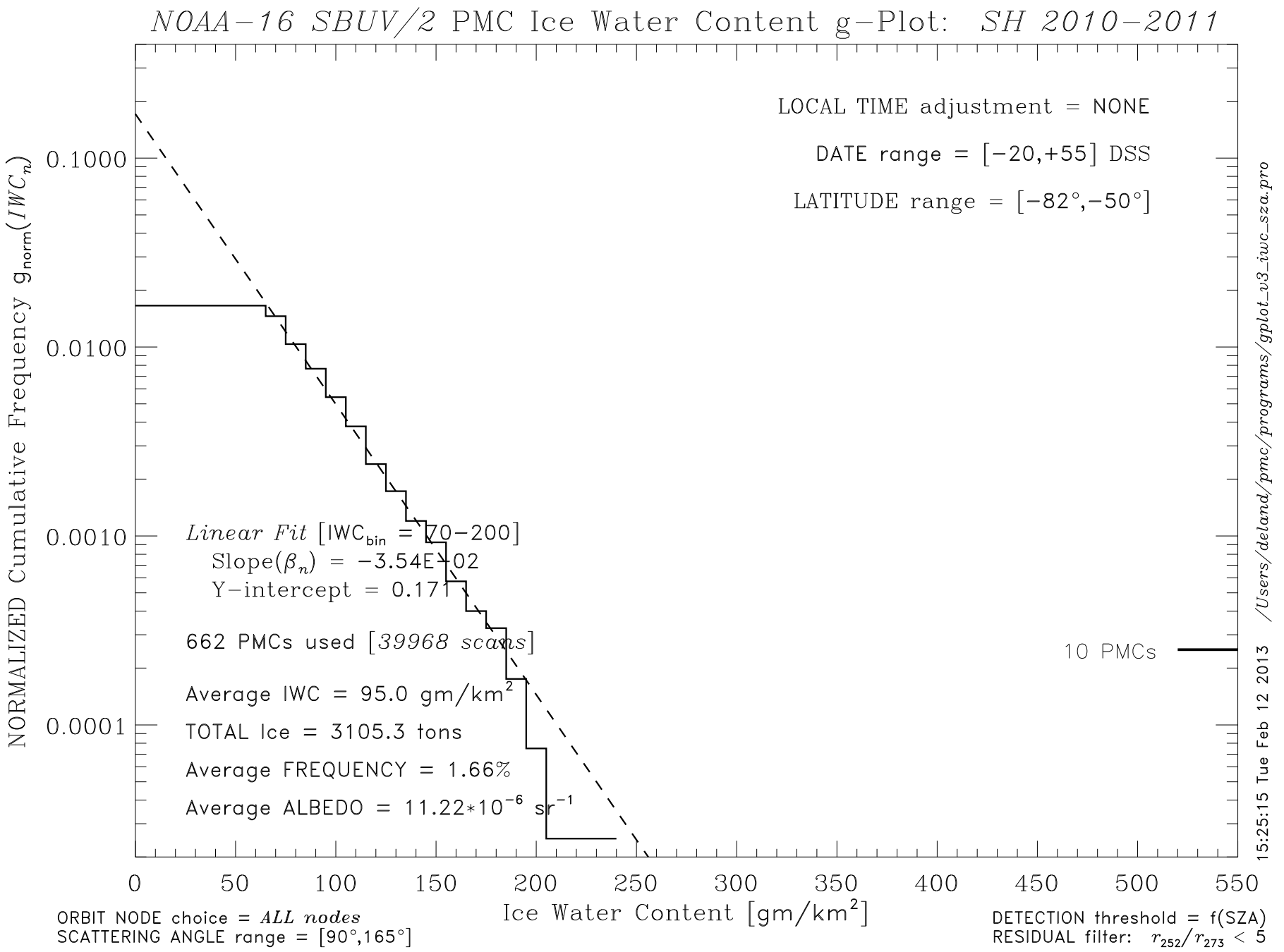
NOAA−16 SBUV/2 PMC Ice Water Content g−Plot: SH 2002−2003
LOCAL TIME adjustment = NONE
DATE range = [−20,+55] DSS
LATITUDE range = [−82°,−50°]
Linear Fit [IWC$_{bin}$ = 60−270]
Slope(β_n) = −2.84E−02
Y−intercept = 0.232
1227 PMCs used [31788 scans]
Average IWC = 100.4 gm/km^2
TOTAL Ice = 3429.8 tons
Average FREQUENCY = 3.86%
Average ALBEDO = 11.10*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: $r_{252}/r_{273} < 5$
15:24:30 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°,−50°]
10 PMCs
Linear Fit [IWC$_{bin}$ = 60−320]
Slope(β_n) = −2.25E−02
Y−intercept = 0.263
1867 PMCs used [30742 scans]
Average IWC = 110.1 gm/km^2
TOTAL Ice = 3558.0 tons
Average FREQUENCY = 6.07%
Average ALBEDO = 12.18*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/km^2]
ORBIT NODE choice = ALL nodes
SCATTERING ANGLE range = [90°,165°]
DETECTION threshold = f(SZA)
RESIDUAL filter: $r_{252}/r_{273} < 5$
15:25:00 Tue Feb 12 2013 /Users/deland/pmc/programs/gplot_v3_iwc_sza.pro

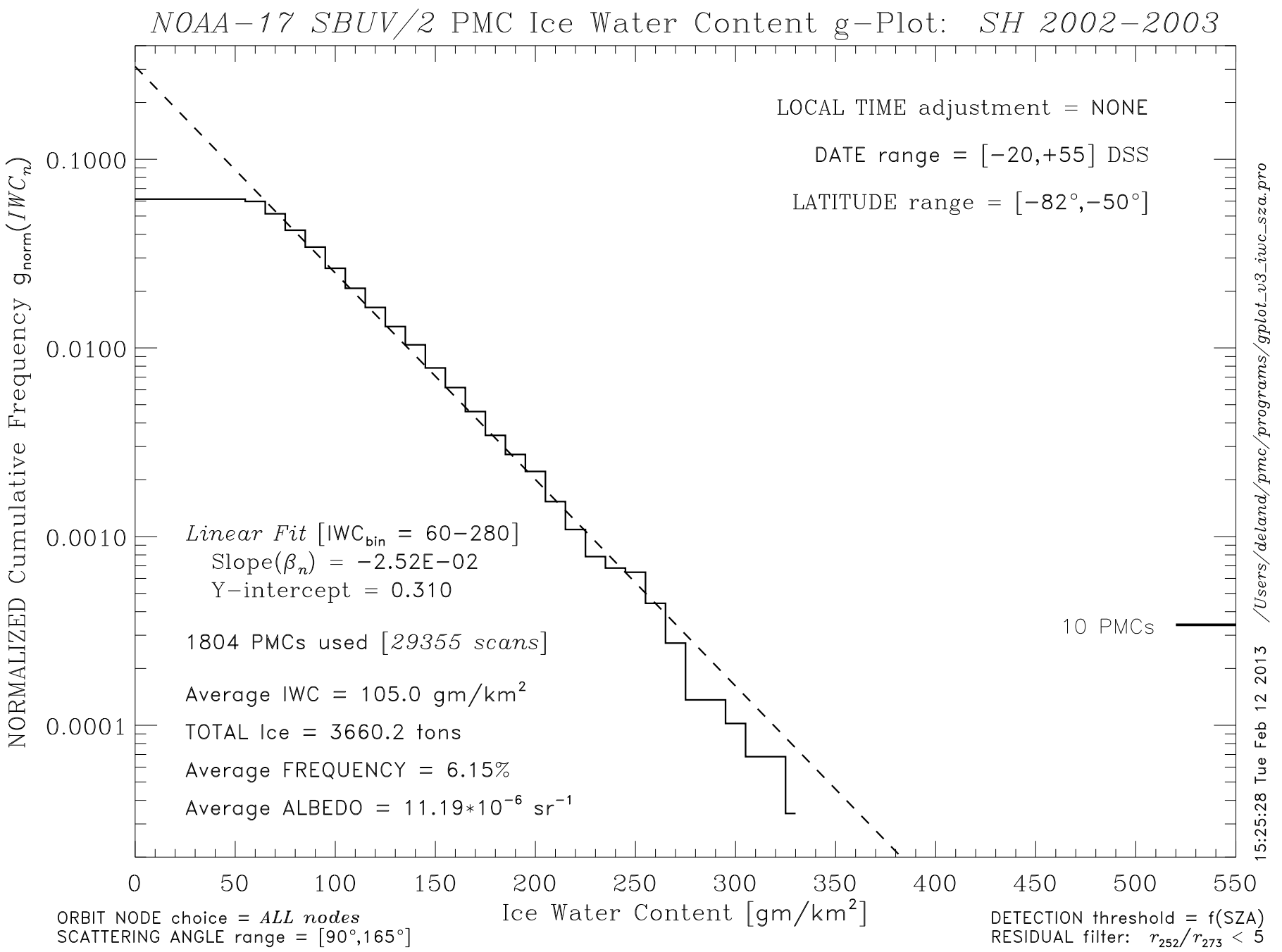
NOAA−16 SBUV/2 PMC Ice Water Content g−Plot: SH 2005−2006
LOCAL TIME adjustment = NONE
DATE range = [−20,+55] DSS
LATITUDE range = [−82°,−50°]
Linear Fit [IWC$_{bin}$ = 60−310]
Slope(β_n) = −2.45E−02
Y−intercept = 0.215
1541 PMCs used [32336 scans]
Average IWC = 104.9 gm/km^2
TOTAL Ice = 3417.0 tons
Average FREQUENCY = 4.77%
Average ALBEDO = 11.77*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: $r_{252}/r_{273} < 5$
15:25:01 Tue Feb 12 2013 /Users/deland/pmc/programs/gplot_v3_iwc_sza.pro

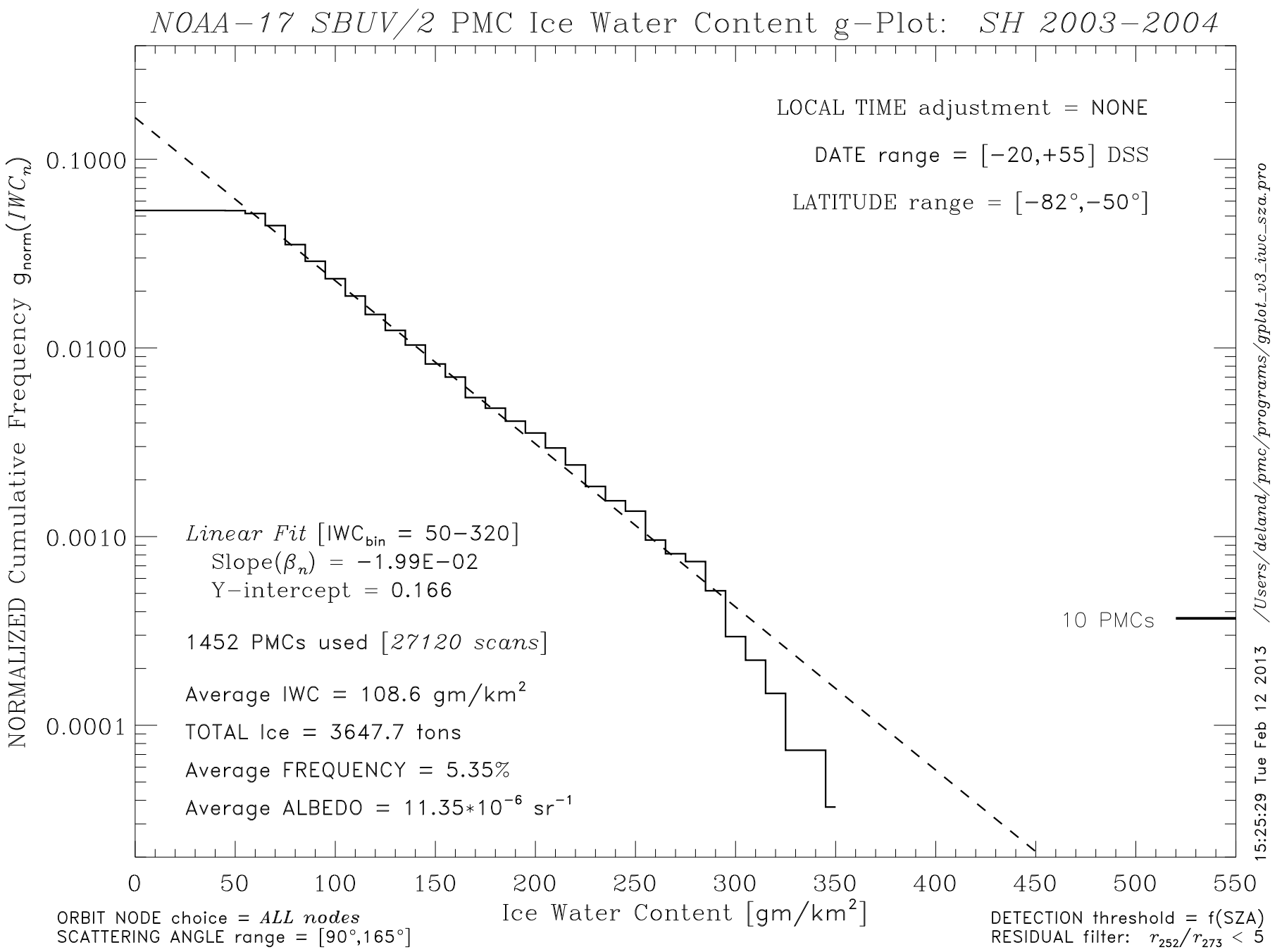

NOAA−16 SBUV/2 PMC Ice Water Content g−Plot: SH 2006−2007
LOCAL TIME adjustment = NONE
DATE range = [−20,+55] DSS
LATITUDE range = [−82°,−50°]
NORMALIZED Cumulative Frequency $g_{norm}(IWC_n)$
0.1000
0.0100
0.0010
0.0001
Linear Fit [IWC_{bin} = 60−300]
Slope(β_n) = −2.57E−02
Y−intercept = 0.253
1671 PMCs used [33347 scans]
Average IWC = 103.2 gm/km^2
TOTAL Ice = 3354.2 tons
Average FREQUENCY = 5.01%
Average ALBEDO = 12.01∗10^{-6} sr^{-1}
10 PMCs
0
50
100
150
200
250
300
350
400
450
500
550
Ice Water Content [gm/km^2]
15:25:01 Tue Feb 12 2013 /Users/deland/pmc/programs/gplot_v3_iwc_sza.pro
ORBIT NODE choice = ALL nodes
SCATTERING ANGLE range = [90°,165°]
DETECTION threshold = f(SZA)
RESIDUAL filter: $r_{252}/r_{273} < 5$

NOAA−16 SBUV/2 PMC Ice Water Content g−Plot: SH 2007−2008
LOCAL TIME adjustment = NONE
DATE range = [−20,+55] DSS
LATITUDE range = [−82°,−50°]
Linear Fit [IWC$_{bin}$ = 70−280]
Slope(β_n) = −2.65E−02
Y−intercept = 0.149
1045 PMCs used [35976 scans]
Average IWC = 101.2 gm/km^2
TOTAL Ice = 3169.5 tons
Average FREQUENCY = 2.90%
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/km^2]
ORBIT NODE choice = ALL nodes
SCATTERING ANGLE range = [90°,165°]
DETECTION threshold = f(SZA)
RESIDUAL filter: $r_{252}/r_{273} < 5$
15:25:02 Tue Feb 12 2013 /Users/deland/pmc/programs/gplot_v3_iwc_sza.pro


NOAA−16 SBUV/2 PMC Ice Water Content g−Plot: SH 2010−2011
LOCAL TIME adjustment = NONE
DATE range = [−20,+55] DSS
LATITUDE range = [−82°,−50°]
NORMALIZED Cumulative Frequency $g_{norm}(IWC_n)$
0.1000
0.0100
0.0010
0.0001
Linear Fit [IWC$_{bin}$ = 70−200]
Slope(β_n) = −3.54E+02
Y−intercept = 0.171
662 PMCs used [39968 scans]
Average IWC = 95.0 gm/km^2
TOTAL Ice = 3105.3 tons
Average FREQUENCY = 1.66%
Average ALBEDO = 11.22∗10^{-6} sr^{-1}
10 PMCs
0
50
100
150
200
250
300
350
400
450
500
550
Ice Water Content [gm/km^2]
ORBIT NODE choice = ALL nodes
SCATTERING ANGLE range = [90°,165°]
DETECTION threshold = f(SZA)
RESIDUAL filter: $r_{252}/r_{273} < 5$
15:25:15 Tue Feb 12 2013 /Users/deland/pmc/programs/gplot_v3_iwc_sza.pro

NOAA-16 SBUV/2 PMC Ice Water Content g-Plot: SH 2011-2012
LOCAL TIME adjustment = NONE
DATE range = [-20,+55] DSS
LATITUDE range = [-82°,-50°]
Linear Fit [IWC$_{bin}$ = 60-260]
Slope(β_n) = -2.99E-02
Y-intercept = 0.230
1092 PMCs used [33625 scans]
Average IWC = 100.9 gm/km^2
TOTAL Ice = 3269.3 tons
Average FREQUENCY = 3.25%
Average ALBEDO = 11.51*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
15:25:16 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°,−50°]
NORMALIZED Cumulative Frequency $g_{norm}(IWC_n)$
0.1000
0.0100
0.0010
0.0001
Linear Fit [IWC$_{bin}$ = 60−280]
Slope(β_n) = −2.52E−02
Y−intercept = 0.310
1804 PMCs used [29355 scans]
Average IWC = 105.0 gm/km^2
TOTAL Ice = 3660.2 tons
Average FREQUENCY = 6.15%
Average ALBEDO = 11.19∗10^{-6} sr^{-1}
10 PMCs
0
50
100
150
200
250
300
350
400
450
500
550
Ice Water Content [gm/km^2]
ORBIT NODE choice = ALL nodes
SCATTERING ANGLE range = [90°,165°]
DETECTION threshold = f(SZA)
RESIDUAL filter: $r_{252}/r_{273} < 5$
15:25:28 Tue Feb 12 2013 /Users/deland/pmc/programs/gplot_v3_iwc_sza.pro

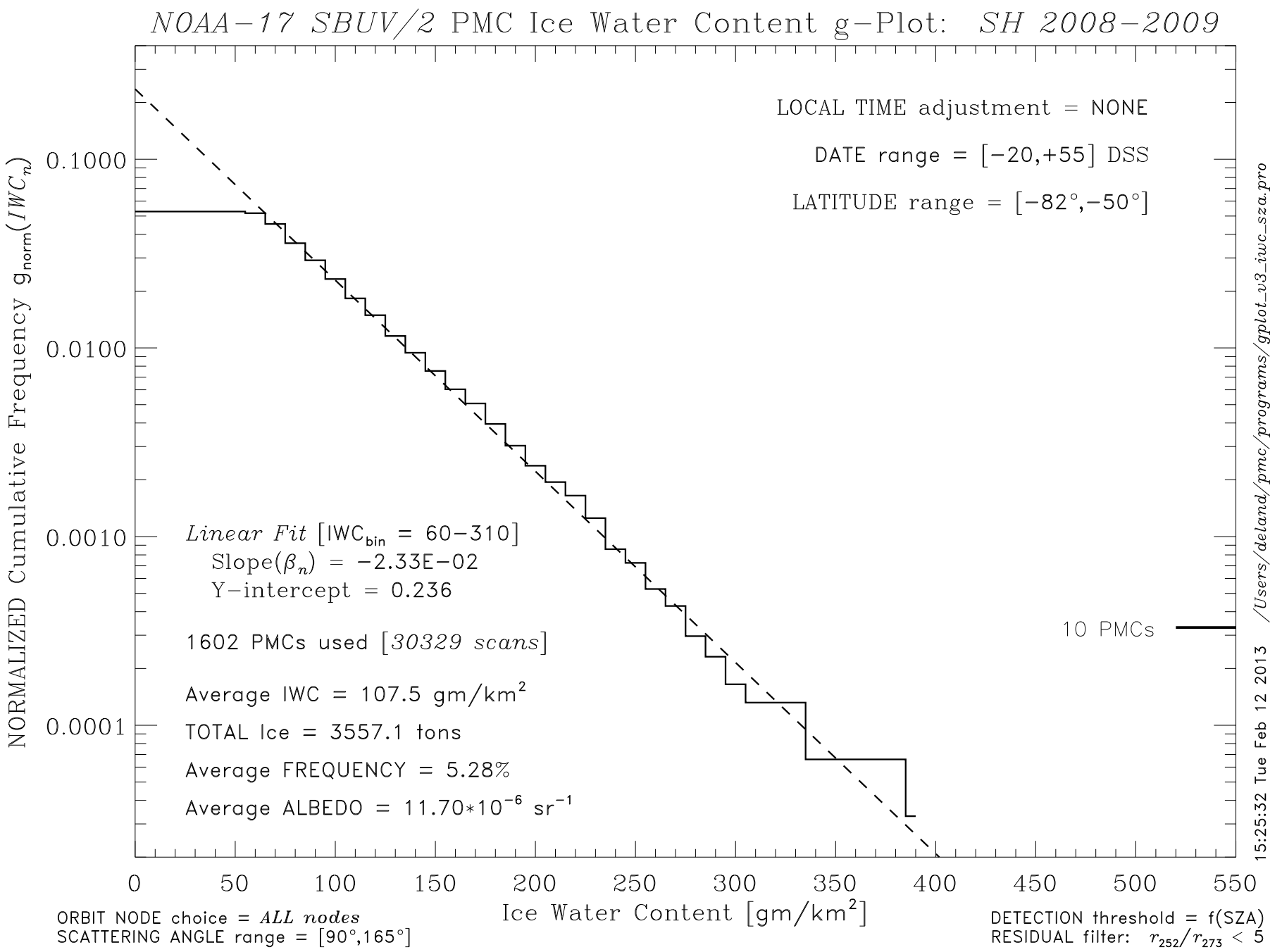

NOAA−17 SBUV/2 PMC Ice Water Content g−Plot: SH 2003−2004
LOCAL TIME adjustment = NONE
DATE range = [−20,+55] DSS
LATITUDE range = [−82°,−50°]
NORMALIZED Cumulative Frequency $g_{norm}(IWC_n)$
0.1000
0.0100
0.0010
0.0001
Linear Fit [IWC$_{bin}$ = 50−320]
Slope(β_n) = −1.99E−02
Y−intercept = 0.166
1452 PMCs used [27120 scans]
Average IWC = 108.6 gm/km^2
TOTAL Ice = 3647.7 tons
Average FREQUENCY = 5.35%
Average ALBEDO = 11.35∗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: $r_{252}/r_{273} < 5$
15:25:29 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°,−50°]
Linear Fit [IWC$_{bin}$ = 60−350]
Slope(β_n) = −2.03E−02
Y−intercept = 0.313
2145 PMCs used [26743 scans]
Average IWC = 116.3 gm/km^2
TOTAL Ice = 3822.1 tons
Average FREQUENCY = 8.02%
Average ALBEDO = 12.32*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: $r_{252}/r_{273} < 5$
15:25:29 Tue Feb 12 2013 /Users/deland/pmc/programs/gplot_v3_iwc_sza.pro

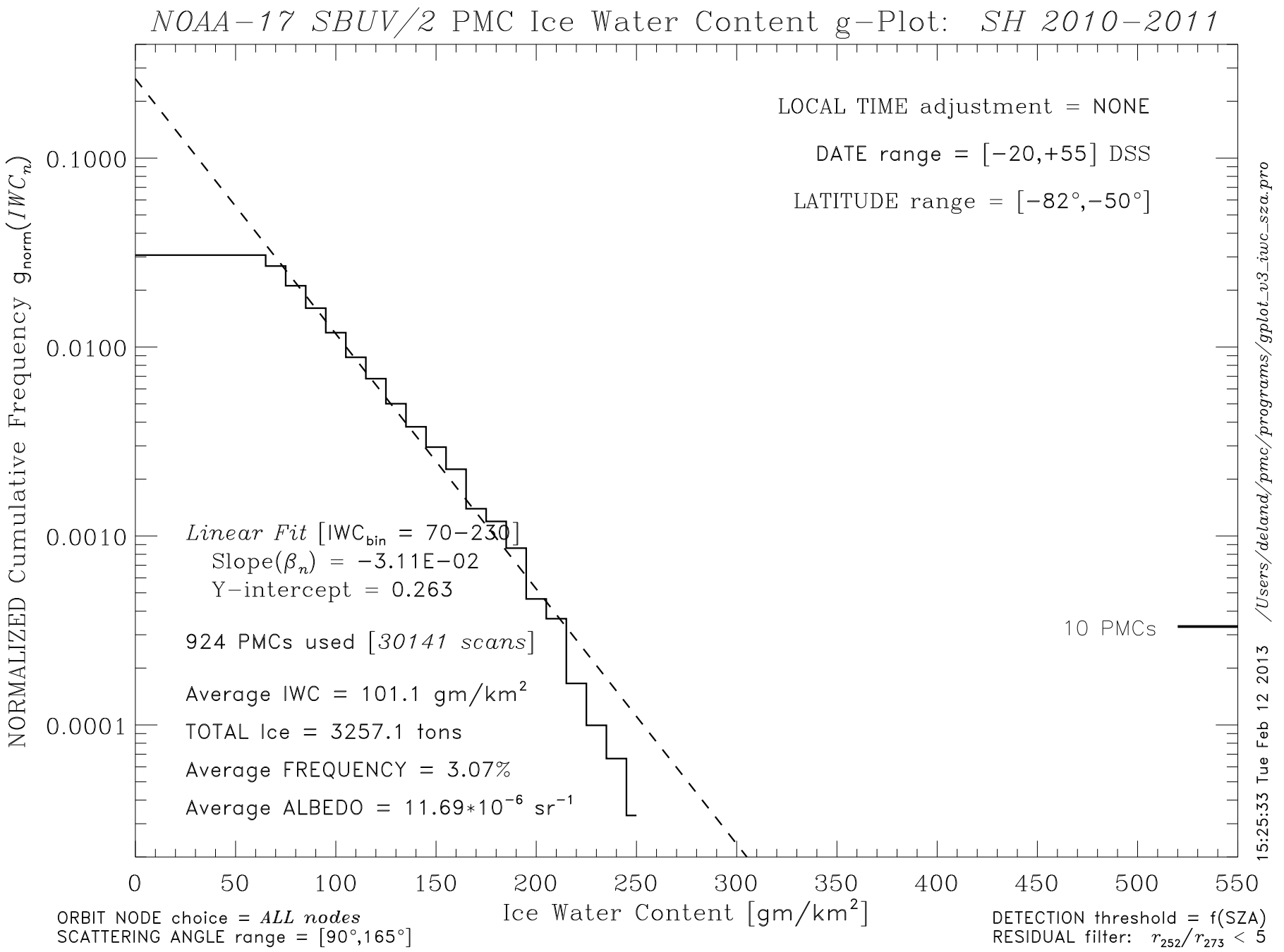
NOAA−17 SBUV/2 PMC Ice Water Content g−Plot: SH 2005−2006
LOCAL TIME adjustment = NONE
DATE range = [−20,+55] DSS
LATITUDE range = [−82°,−50°]
10 PMCs
Linear Fit [IWC$_{bin}$ = 60−360]
Slope(β_n) = −2.166−02
Y−intercept = 0.264
2213 PMCs used [30550 scans]
Average IWC = 108.7 gm/km^2
TOTAL Ice = 3750.8 tons
Average FREQUENCY = 7.24%
Average ALBEDO = 11.49*10^{-6} sr^{-1}
NORMALIZED Cumulative Frequency g$_{norm}$(IWC$_n$)
0.1000
0.0100
0.0010
0.0001
0
50
100
150
200
250
300
350
400
450
500
550
Ice Water Content [gm/km^2]
ORBIT NODE choice = ALL nodes
SCATTERING ANGLE range = [90°,165°]
DETECTION threshold = f(SZA)
RESIDUAL filter: $r_{252}/r_{273} < 5$
15:25:30 Tue Feb 12 2013 /Users/deland/pmc/programs/gplot_v3_iwc_sza.pro

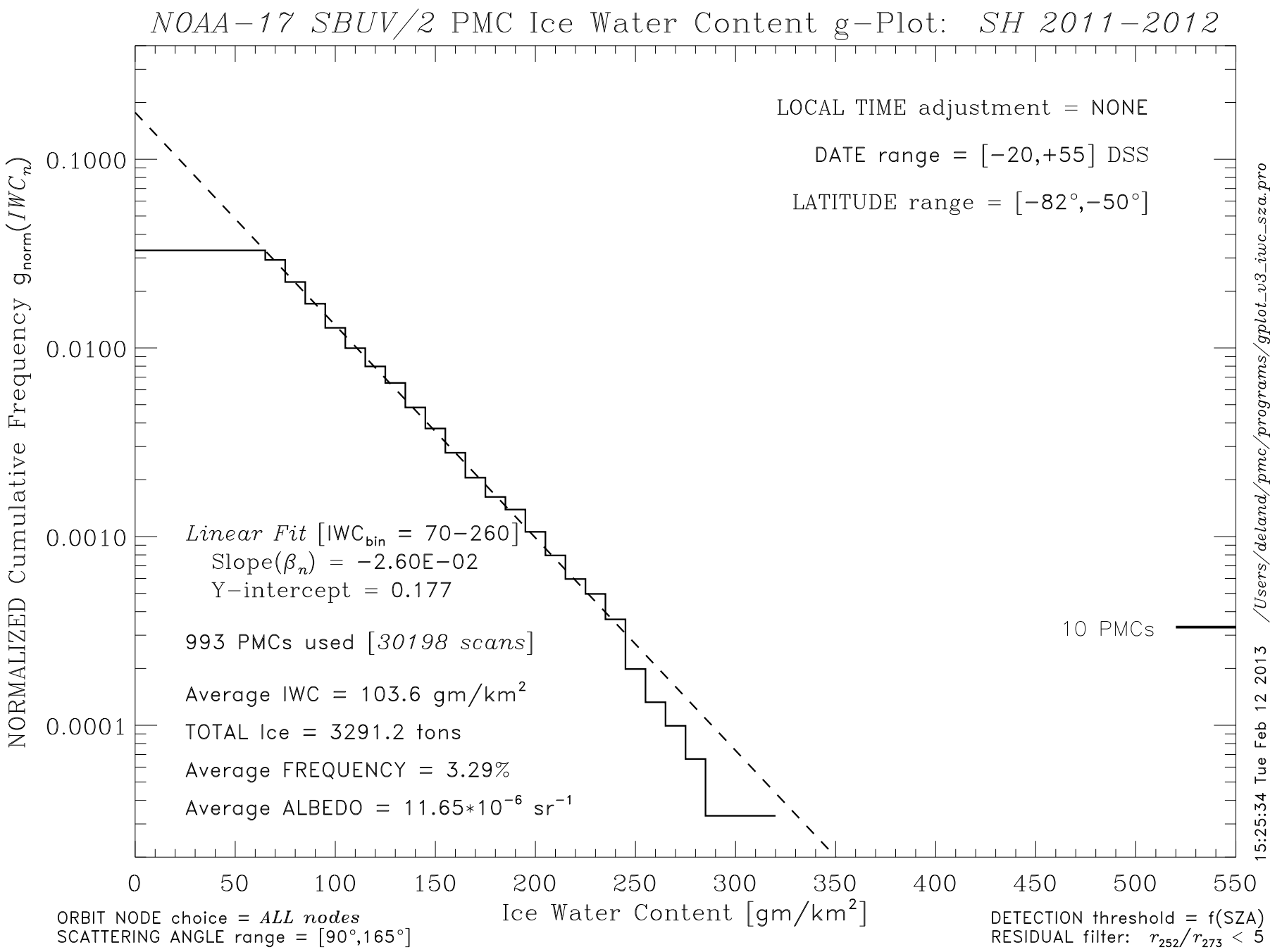
NOAA−17 SBUV/2 PMC Ice Water Content g−Plot: SH 2006−2007
LOCAL TIME adjustment = NONE
DATE range = [−20,+55] DSS
LATITUDE range = [−82°,−50°]
Linear Fit [IWC$_{bin}$ = 60−340]
Slope(β_n) = −2.32E−02
Y−intercept = 0.348
2366 PMCs used [3036 scans]
Average IWC = 108.4 gm/km^2
TOTAL Ice = 3781.9 tons
Average FREQUENCY = 7.79%
Average ALBEDO = 11.54*10^{-6} sr^{-1}
10 PMCs
NORMALIZED Cumulative Frequency g$_{norm}$(IWC$_n$)
0.1000
0.0100
0.0010
0.0001
0
50
100
150
200
250
300
350
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: $r_{252}/r_{273} < 5$
15:25:30 Tue Feb 12 2013 /Users/deland/pmc/programs/gplot_v3_iwc_sza.pro

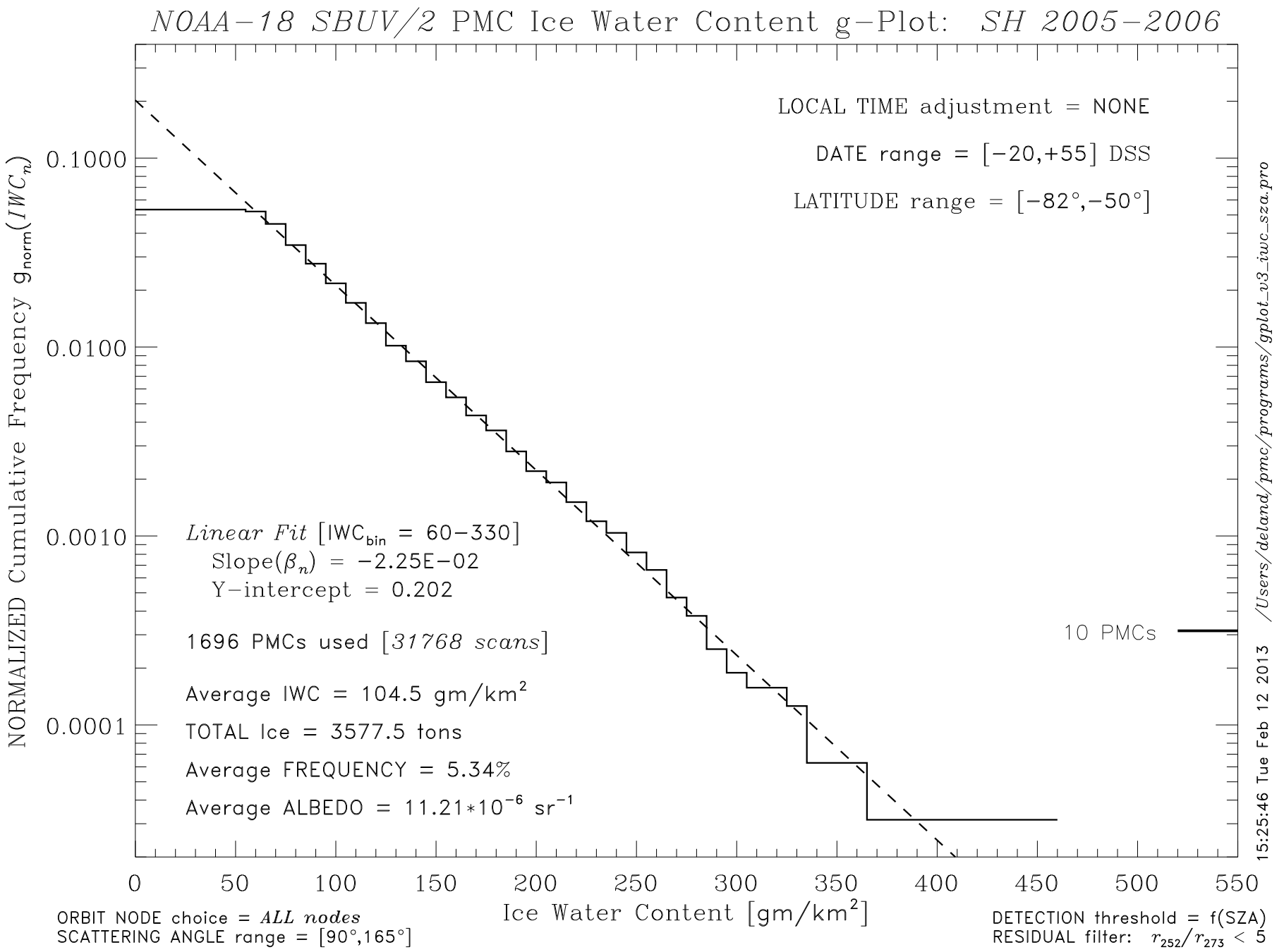
NOAA−17 SBUV/2 PMC Ice Water Content g−Plot: SH 2007−2008
LOCAL TIME adjustment = NONE
DATE range = [−20,+55] DSS
LATITUDE range = [−82°,−50°]
Linear Fit [IWC$_{bin}$ = 60−290]
Slope(β_n) = −2.52E−02
Y−intercept = 0.221
1396 PMCs used [30232 scans]
Average IWC = 103.2 gm/km^2
TOTAL Ice = 3562.3 tons
Average FREQUENCY = 4.62%
Average ALBEDO = 11.13*10^{-6} sr^{-1}
10 PMCs
NORMALIZED Cumulative Frequency g$_{norm}$(IWC_n)
0.1000
0.0100
0.0010
0.0001
0
50
100
150
200
250
300
350
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: $r_{252}/r_{273} < 5$
15:25:31 Tue Feb 12 2013 /Users/deland/pmc/programs/gplot_v3_iwc_sza.pro


NOAA−17 SBUV/2 PMC Ice Water Content g−Plot: SH 2008−2009
LOCAL TIME adjustment = NONE
DATE range = [−20,+55] DSS
LATITUDE range = [−82°,−50°]
NORMALIZED Cumulative Frequency $g_{norm}(IWC_n)$
0.1000
0.0100
0.0010
0.0001
Linear Fit [IWC_{bin} = 60−310]
Slope(β_n) = −2.33E−02
Y−intercept = 0.236
1602 PMCs used [30329 scans]
Average IWC = 107.5 gm/km^2
TOTAL Ice = 3557.1 tons
Average FREQUENCY = 5.28%
Average ALBEDO = 11.70∗10^{-6} sr^{-1}
10 PMCs
0 50 100 150 200 250 300 350 400 450 500 550
Ice Water Content [gm/km^2]
15:25:32 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−17 SBUV/2 PMC Ice Water Content g−Plot: SH 2009−2010
LOCAL TIME adjustment = NONE
DATE range = [−20,+55] DSS
LATITUDE range = [−82°,−50°]
10 PMCs
Linear Fit [IWC$_{bin}$ = 60−380]
Slope(β_n) = −2.08E−02
Y−intercept = 0.507
3236 PMCs used [30618 scans]
Average IWC = 122.1 gm/km^2
TOTAL Ice = 3917.7 tons
Average FREQUENCY = 10.57%
Average ALBEDO = 13.29*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: $r_{252}/r_{273} < 5$
15:25:32 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°,−50°]
NORMALIZED Cumulative Frequency $g_{norm}(IWC_n)$
0.1000
0.0100
0.0010
0.0001
Linear Fit [IWC_{bin} = 70−230]
Slope(β_n) = −3.11E−02
Y−intercept = 0.263
924 PMCs used [30141 scans]
Average IWC = 101.1 gm/km^2
TOTAL Ice = 3257.1 tons
Average FREQUENCY = 3.07%
Average ALBEDO = 11.69∗10^{-6} sr^{-1}
10 PMCs
0
50
100
150
200
250
300
350
400
450
500
550
Ice Water Content [gm/km^2]
ORBIT NODE choice = ALL nodes
SCATTERING ANGLE range = [90°,165°]
DETECTION threshold = f(SZA)
RESIDUAL filter: $r_{252}/r_{273} < 5$
15:25:33 Tue Feb 12 2013 /Users/deland/pmc/programs/gplot_v3_iwc_sza.pro

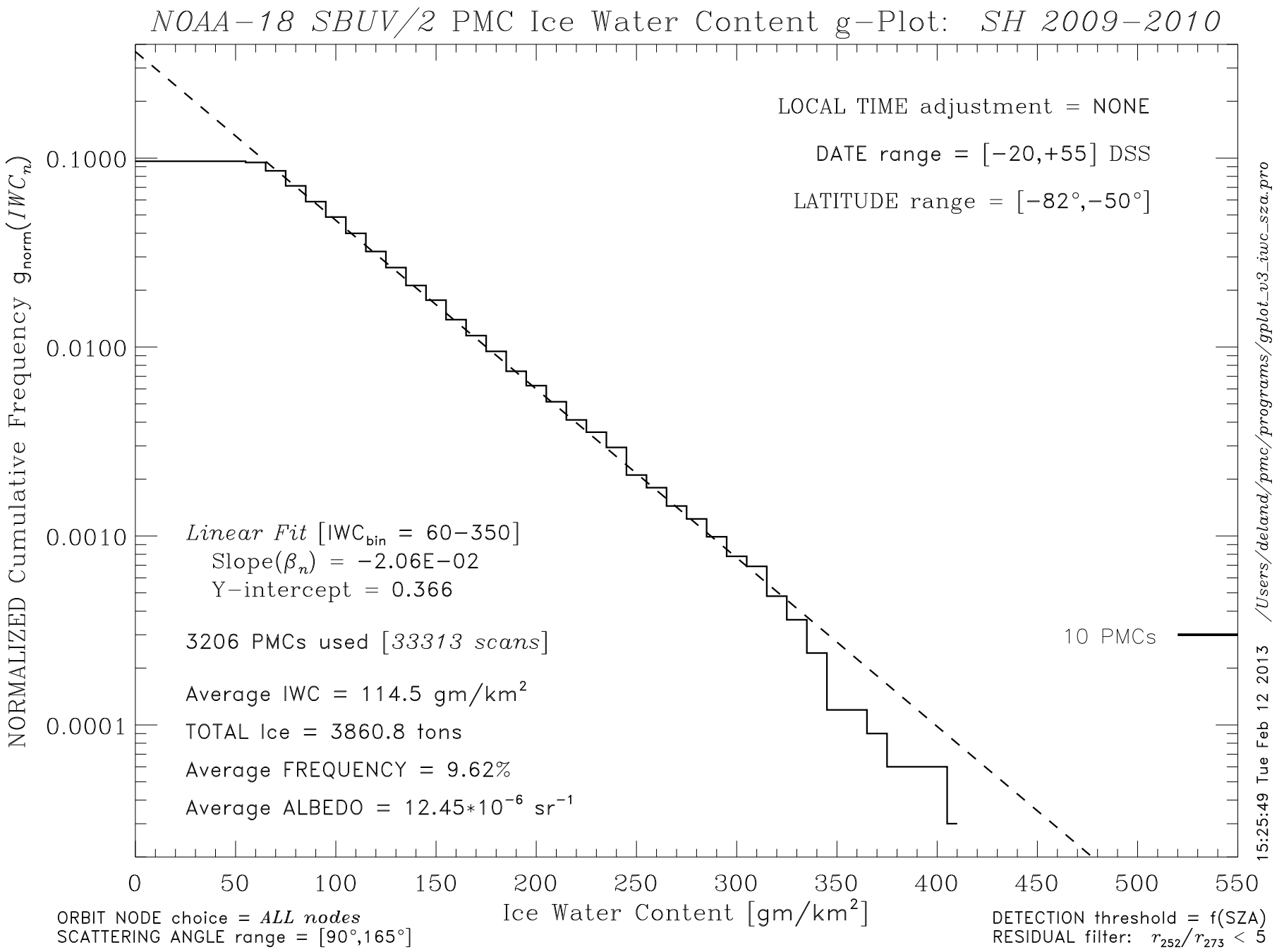

NOAA−17 SBUV/2 PMC Ice Water Content g−Plot: SH 2011−2012
LOCAL TIME adjustment = NONE
DATE range = [−20,+55] DSS
LATITUDE range = [−82°,−50°]
NORMALIZED Cumulative Frequency $g_{norm}(IWC_n)$
0.1000
0.0100
0.0010
0.0001
Linear Fit [IWC$_{bin}$ = 70−260]
Slope(β_n) = −2.60E−02
Y−intercept = 0.177
993 PMCs used [30198 scans]
Average IWC = 103.6 gm/km^2
TOTAL Ice = 3291.2 tons
Average FREQUENCY = 3.29%
Average ALBEDO = 11.65∗10^{-6} sr^{-1}
10 PMCs
0
50
100
150
200
250
300
350
400
450
500
550
Ice Water Content [gm/km^2]
ORBIT NODE choice = ALL nodes
SCATTERING ANGLE range = [90°,165°]
DETECTION threshold = f(SZA)
RESIDUAL filter: $r_{252}/r_{273} < 5$
15:25:34 Tue Feb 12 2013 /Users/deland/pmc/programs/gplot_v3_iwc_sza.pro

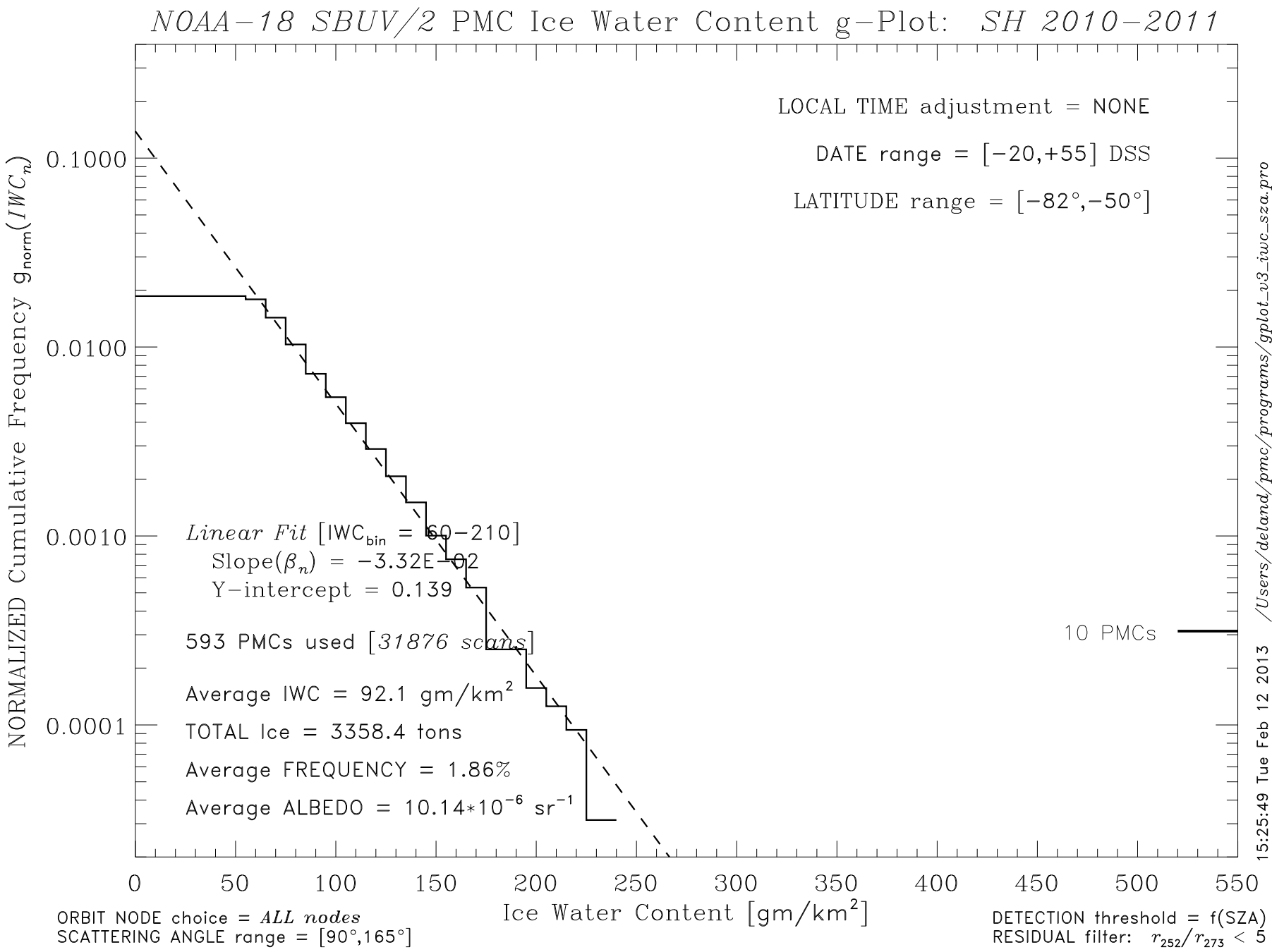

NOAA-18 SBUV/2 PMC Ice Water Content g-Plot: SH 2005-2006
LOCAL TIME adjustment = NONE
DATE range = [-20,+55] DSS
LATITUDE range = [-82°,-50°]
NORMALIZED Cumulative Frequency $g_{norm}(IWC_n)$
0.1000
0.0100
0.0010
0.0001
Linear Fit [IWC_bin = 60-330]
Slope(β_n) = -2.25E-02
Y-intercept = 0.202
1696 PMCs used [31768 scans]
Average IWC = 104.5 gm/km^2
TOTAL Ice = 3577.5 tons
Average FREQUENCY = 5.34%
Average ALBEDO = 11.21*10^{-6} sr^{-1}
10 PMCs
0
50
100
150
200
250
300
350
400
450
500
550
Ice Water Content [gm/km^2]
15:25:46 Tue Feb 12 2013 /Users/deland/pmc/programs/gplot_v3_iwc_sza.pro
ORBIT NODE choice = ALL nodes
SCATTERING ANGLE range = [90°,165°]
DETECTION threshold = f(SZA)
RESIDUAL filter: $r_{252}/r_{273} < 5$

NOAA-18 SBUV/2 PMC Ice Water Content g-Plot: SH 2006-2007
LOCAL TIME adjustment = NONE
DATE range = [-20,+55] DSS
LATITUDE range = [-82°,-50°]
Linear Fit [IWC_bin = 60-280]
Slope(β_n) = -2.78E-02
Y-intercept = 0.327
1780 PMCs used [31719 scans]
Average IWC = 100.7 gm/km²
TOTAL Ice = 3579.8 tons
Average FREQUENCY = 5.61%
Average ALBEDO = 11.03*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
15:25:47 Tue Feb 12 2013 /Users/deland/pmc/programs/gplot_v3_iwc_sza.pro

NOAA-18 SBUV/2 PMC Ice Water Content g-Plot: SH 2007-2008
LOCAL TIME adjustment = NONE
DATE range = [-20,+55] DSS
LATITUDE range = [-82°,-50°]
Linear Fit [IWC_bin = 60-230]
Slope(β_n) = -2.94E-02
Y-intercept = 0.210
1057 PMCs used [31637 scans]
Average IWC = 97.4 gm/km²
TOTAL Ice = 3502.2 tons
Average FREQUENCY = 3.34%
Average ALBEDO = 10.44*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
15:25:47 Tue Feb 12 2013 /Users/deland/pmc/programs/gplot_v3_iwc_sza.pro

NOAA−18 SBUV/2 PMC Ice Water Content g−Plot: SH 2008−2009
LOCAL TIME adjustment = NONE
DATE range = [−20,+55] DSS
LATITUDE range = [−82°,−50°]
Linear Fit [IWC$_{bin}$ = 60−290]
Slope(β_n) = −2.56E−02
Y−intercept = 0.183
1281 PMCs used [31330 scans]
Average IWC = 100.5 gm/km^2
TOTAL Ice = 3518.4 tons
Average FREQUENCY = 4.09%
Average ALBEDO = 10.98*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: $r_{252}/r_{273} < 5$
15:25:48 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°,−50°]
NORMALIZED Cumulative Frequency $g_{norm}(IWC_n)$
0.1000
0.0100
0.0010
0.0001
Linear Fit [IWC$_{bin}$ = 60−350]
Slope(β_n) = −2.06E−02
Y−intercept = 0.366
3206 PMCs used [33313 scans]
Average IWC = 114.5 gm/km^2
TOTAL Ice = 3860.8 tons
Average FREQUENCY = 9.62%
Average ALBEDO = 12.45∗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: $r_{252}/r_{273} < 5$
15:25:49 Tue Feb 12 2013 /Users/deland/pmc/programs/gplot_v3_iwc_sza.pro


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°,−50°]
NORMALIZED Cumulative Frequency $g_{norm}(IWC_n)$
0.1000
0.0100
0.0010
0.0001
Linear Fit [IWC$_{bin}$ = 60−210]
Slope(β_n) = −3.32E−02
Y−intercept = 0.139
593 PMCs used [31876 scans]
Average IWC = 92.1 gm/km^2
TOTAL Ice = 3358.4 tons
Average FREQUENCY = 1.86%
Average ALBEDO = 10.14∗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: $r_{252}/r_{273} < 5$
15:25:49 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°,−50°]
Linear Fit [IWC_bin = 60−220]
Slope(β_n) = −3.22E−02
Y−intercept = 0.203
853 PMCs used [3168 scans]
Average IWC = 95.3 gm/km²
TOTAL Ice = 3317.6 tons
Average FREQUENCY = 2.74%
Average ALBEDO = 10.70*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
15:25:50 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°,−50°]
Linear Fit [IWC$_{bin}$ = 60−390]
Slope(β_n) = −1.88E−02
Y−intercept = 0.314
3114 PMCs used [31962 scans]
Average IWC = 116.1 gm/km^2
TOTAL Ice = 3877.1 tons
Average FREQUENCY = 9.74%
Average ALBEDO = 12.57*10^{-6} sr^{-1}
10 PMCs
NORMALIZED Cumulative Frequency g$_{norm}$(IWC$_n$)
0.1000
0.0100
0.0010
0.0001
0
50
100
150
200
250
300
350
400
450
500
550
Ice Water Content [gm/km^2]
ORBIT NODE choice = ALL nodes
SCATTERING ANGLE range = [90°,165°]
DETECTION threshold = f(SZA)
RESIDUAL filter: $r_{252}/r_{273} < 5$
15:26:07 Tue Feb 12 2013 /Users/deland/pmc/programs/gplot_v3_iwc_sza.pro

NOAA−19 SBUV/2 PMC Ice Water Content g−Plot: SH 2010−2011
LOCAL TIME adjustment = NONE
DATE range = [−20,+55] DSS
LATITUDE range = [−82°,−50°]
Linear Fit [IWC_bin = 60−240]
Slope(β_n) = −2.88E−02
Y−intercept = 0.097
577 PMCs used [31819 scans]
Average IWC = 95.1 gm/km²
TOTAL Ice = 3394.4 tons
Average FREQUENCY = 1.81%
Average ALBEDO = 10.33*10⁻⁶ sr⁻¹
10 PMCs
NORMALIZED Cumulative Frequency g_norm(IWC_n)
0.1000
0.0100
0.0010
0.0001
0
50
100
150
200
250
300
350
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
15:26:07 Tue Feb 12 2013 /Users/deland/pmc/programs/gplot_v3_iwc_sza.pro

NOAA−19 SBUV/2 PMC Ice Water Content g−Plot: SH 2011−2012
LOCAL TIME adjustment = NONE
DATE range = [−20,+55] DSS
LATITUDE range = [−82°,−50°]
Linear Fit [IWC$_{bin}$ = 60−230]
Slope(β_n) = −3.07E−02
Y−intercept = 0.173
804 PMCs used [31079 scans]
Average IWC = 96.6 gm/km^2
TOTAL Ice = 3400.3 tons
Average FREQUENCY = 2.59%
Average ALBEDO = 10.52*10^{-6} sr^{-1}
10 PMCs
NORMALIZED Cumulative Frequency g$_{norm}$(IWC$_n$)
0.1000
0.0100
0.0010
0.0001
0
50
100
150
200
250
300
350
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: $r_{252}/r_{273} < 5$
15:26:08 Tue Feb 12 2013 /Users/deland/pmc/programs/gplot_v3_iwc_sza.pro