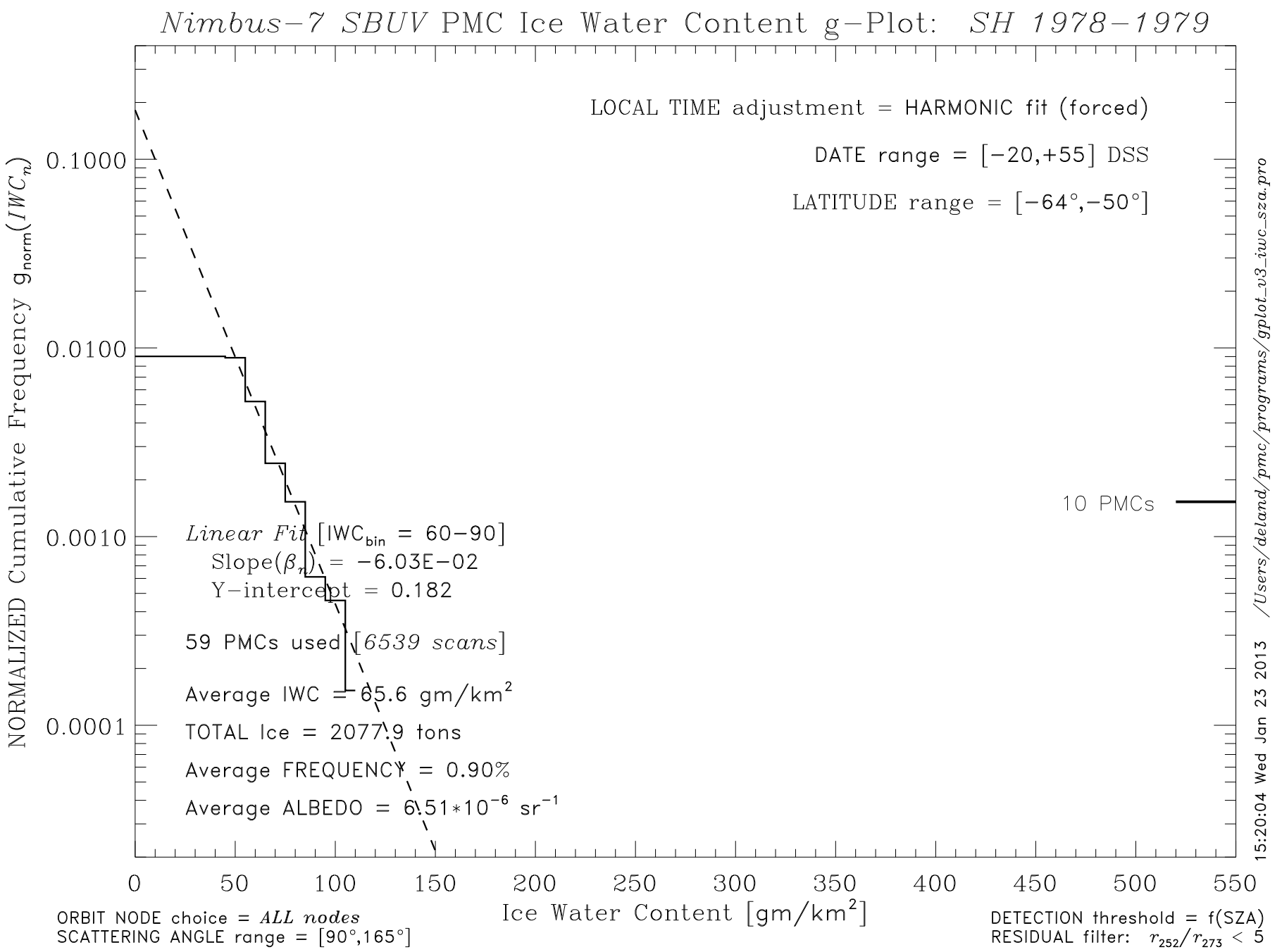
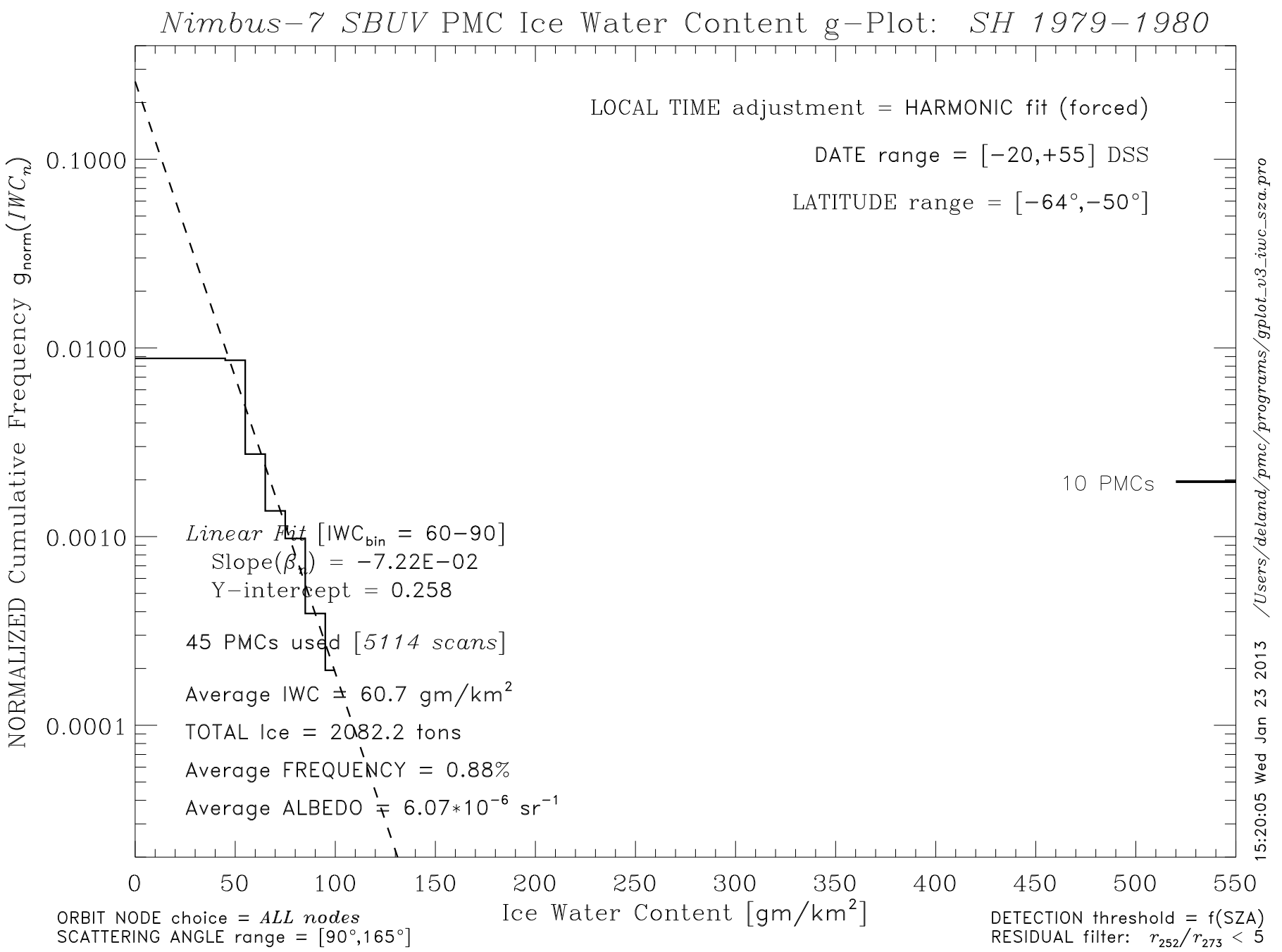
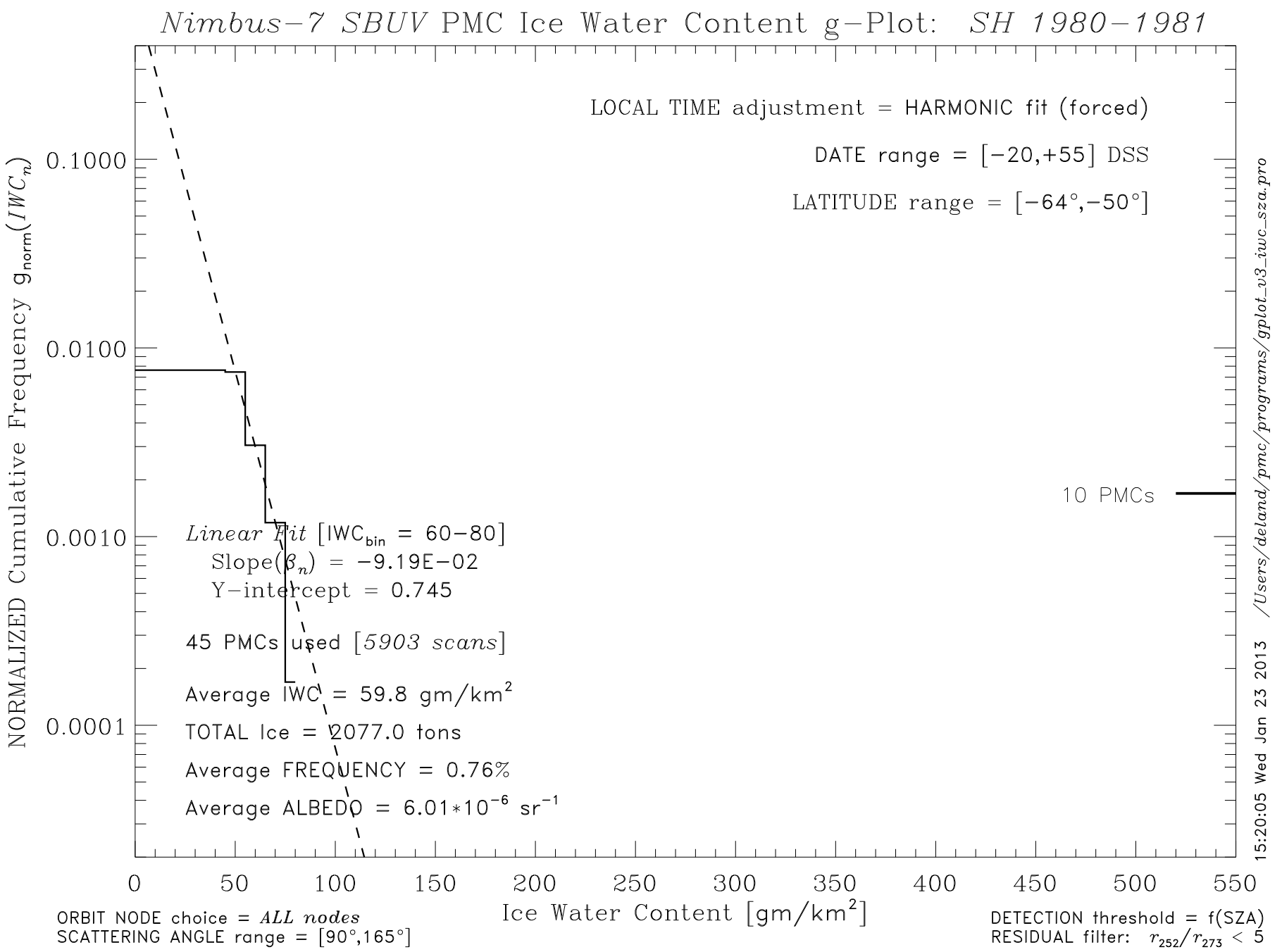
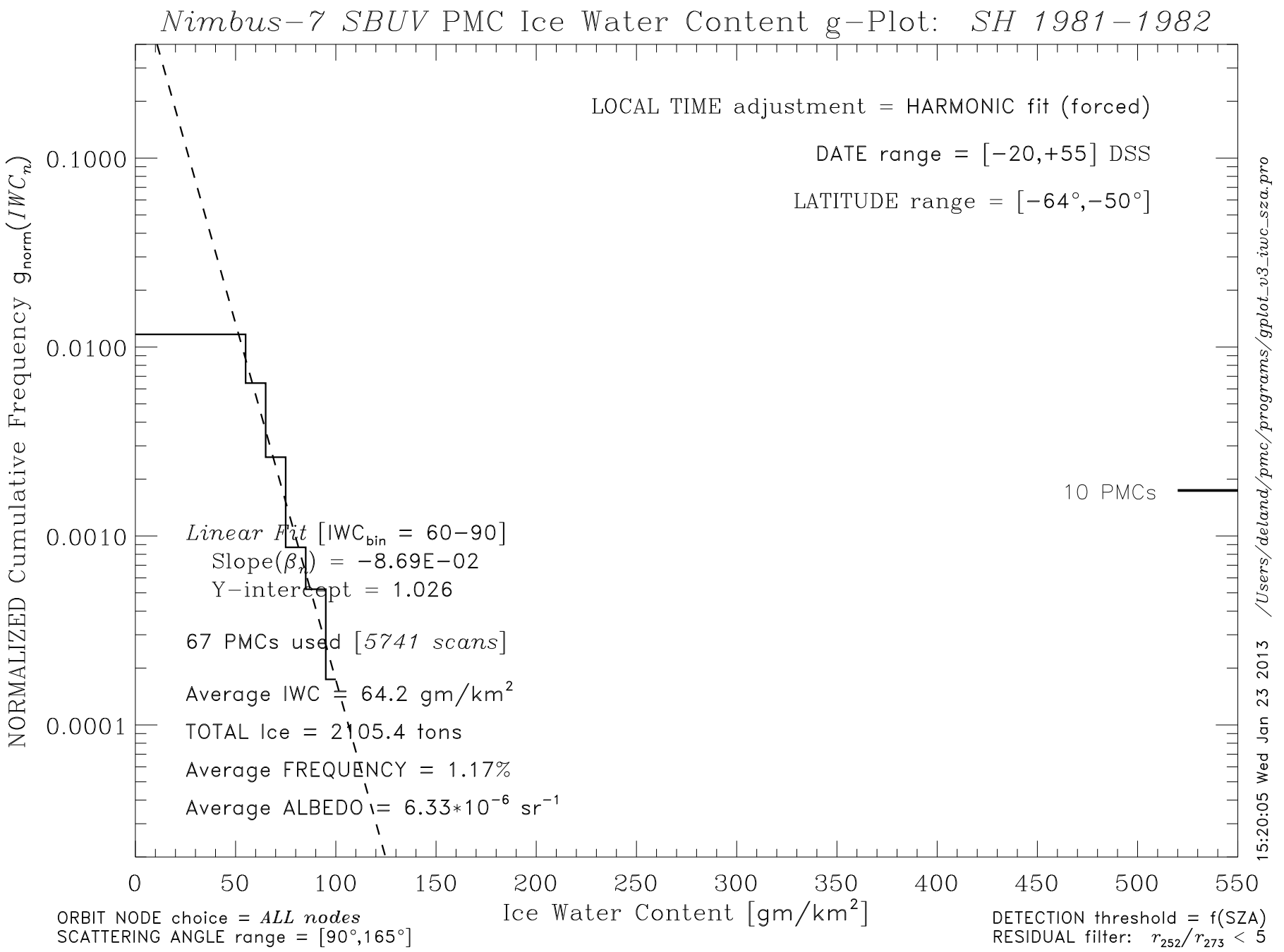
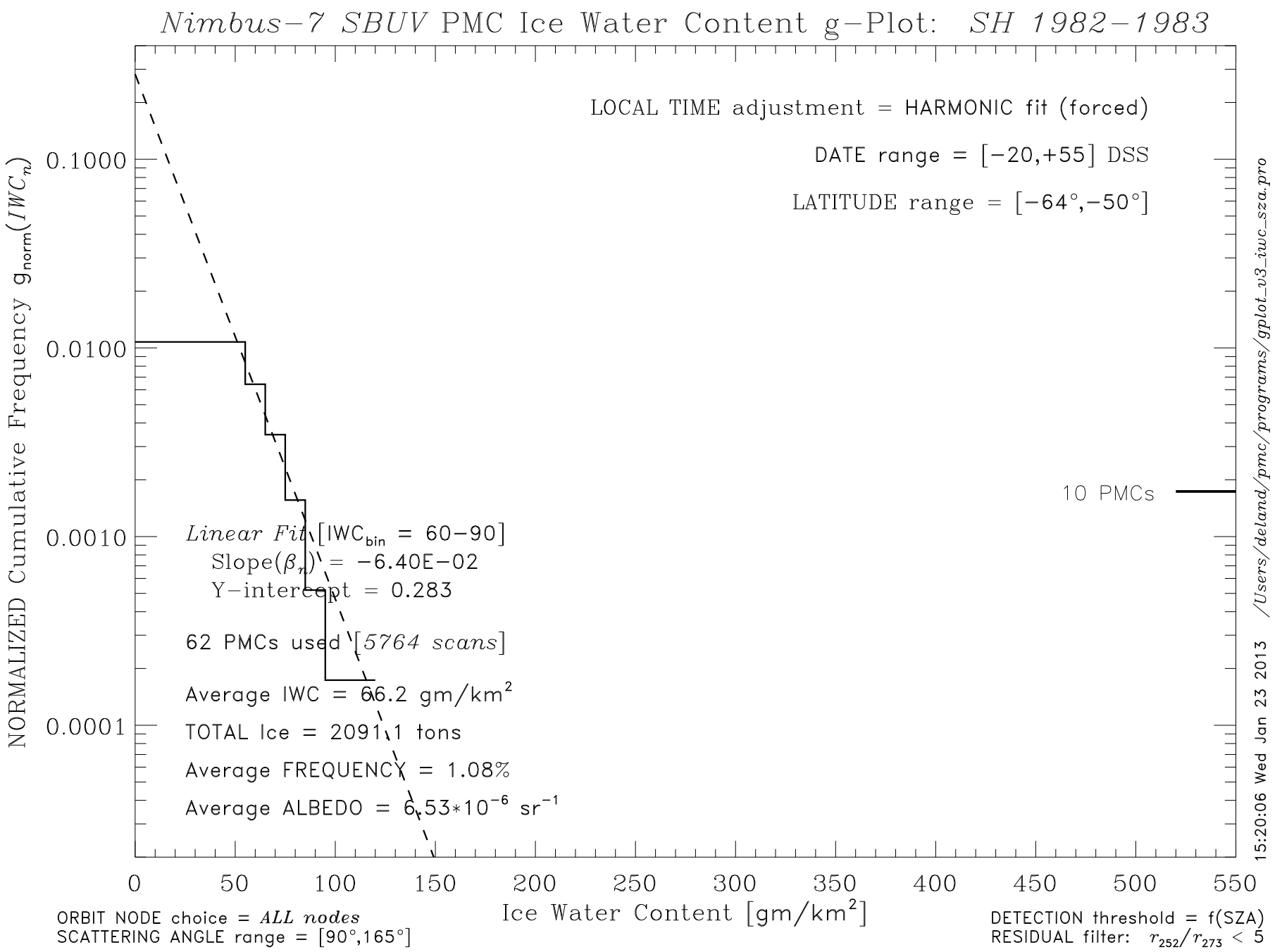
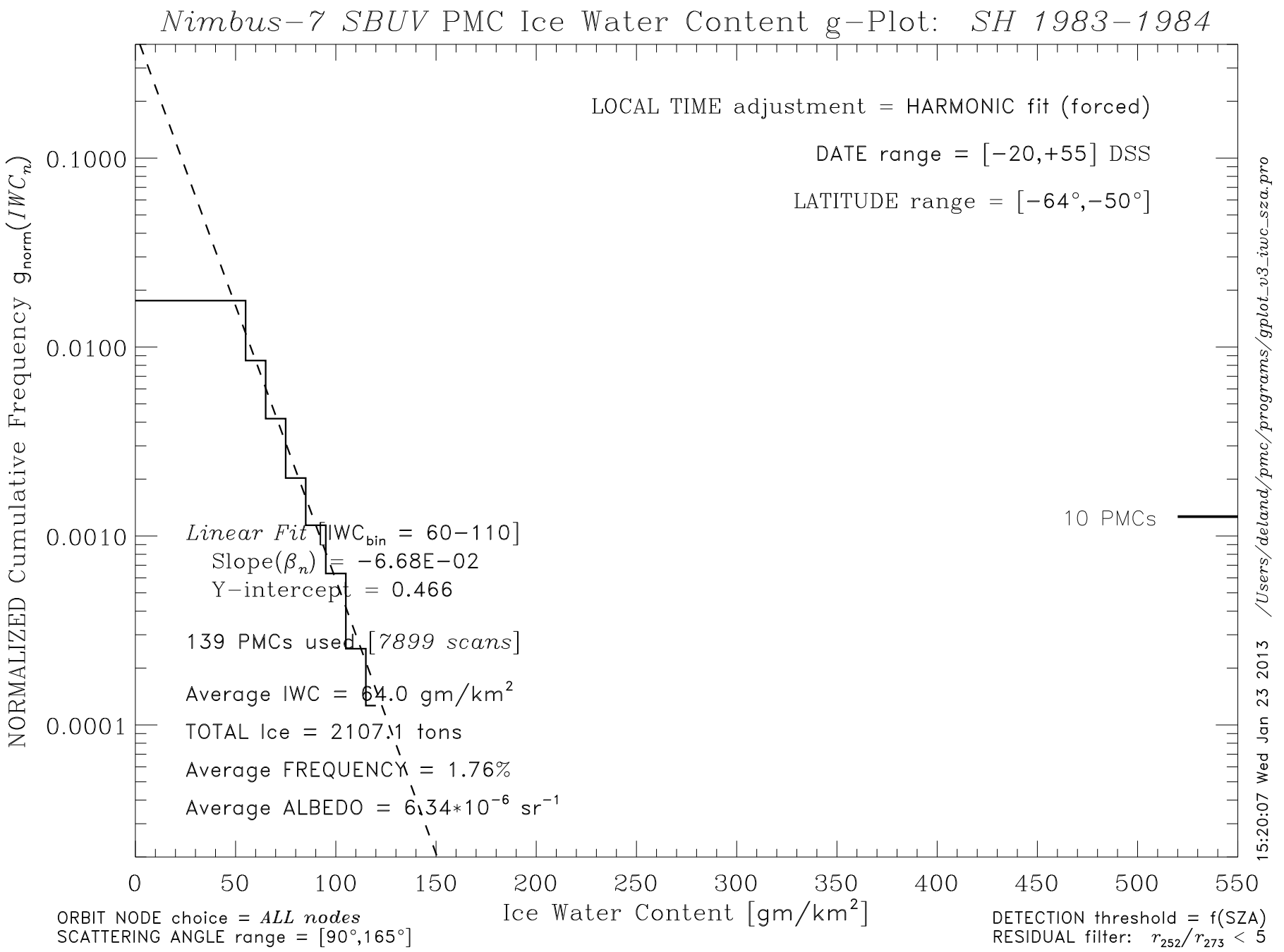

Nimbus-7 SBUV PMC Ice Water Content g-Plot: SH 1978-1979
LOCAL TIME adjustment = HARMONIC fit (forced)
DATE range = [-20,+55] DSS
LATITUDE range = [-64°,-50°]
10 PMCs
Linear Fit [IWC_bin = 60-90]
Slope(β_n) = -6.03E-02
Y-intercept = 0.182
59 PMCs used [6539 scans]
Average IWC = 65.6 gm/km²
TOTAL Ice = 2077.9 tons
Average FREQUENCY = 0.90%
Average ALBEDO = 6.51*10⁻⁶ sr⁻¹
NORMALIZED Cumulative Frequency g_norm(IWC_n)
0.1000
0.0100
0.0010
0.0001
0
50
100
150
200
250
300
350
400
450
500
550
Ice Water Content [gm/km²]
ORBIT NODE choice = ALL nodes
SCATTERING ANGLE range = [90°,165°]
DETECTION threshold = f(SZA)
RESIDUAL filter: r_252/r_273 < 5
15:20:04 Wed Jan 23 2013 /Users/deland/pmc/programs/gplot_v3_iwc_sza.pro

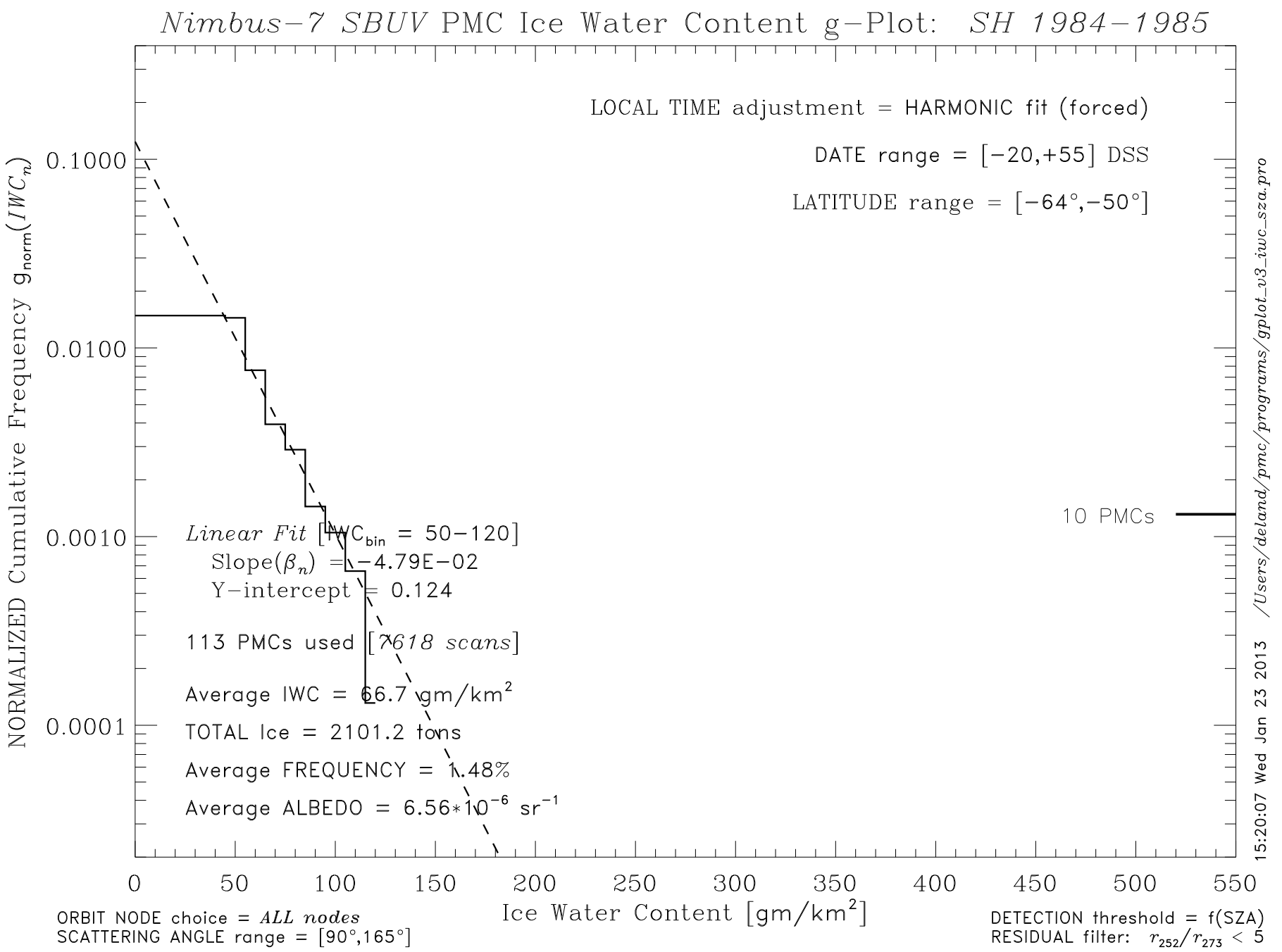

Nimbus-7 SBUV PMC Ice Water Content g-Plot: SH 1979-1980
LOCAL TIME adjustment = HARMONIC fit (forced)
DATE range = [-20,+55] DSS
LATITUDE range = [-64°,-50°]
10 PMCs
Linear Fit [IWC_bin = 60-90]
Slope(β1) = -7.22E-02
Y-intercept = 0.258
45 PMCs used [5114 scans]
Average IWC = 60.7 gm/km²
TOTAL Ice = 2082.2 tons
Average FREQUENCY = 0.88%
Average ALBEDO = 6.07*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
15:20:05 Wed Jan 23 2013 /Users/deland/pmc/programs/gplot_v3_iwc_sza.pro

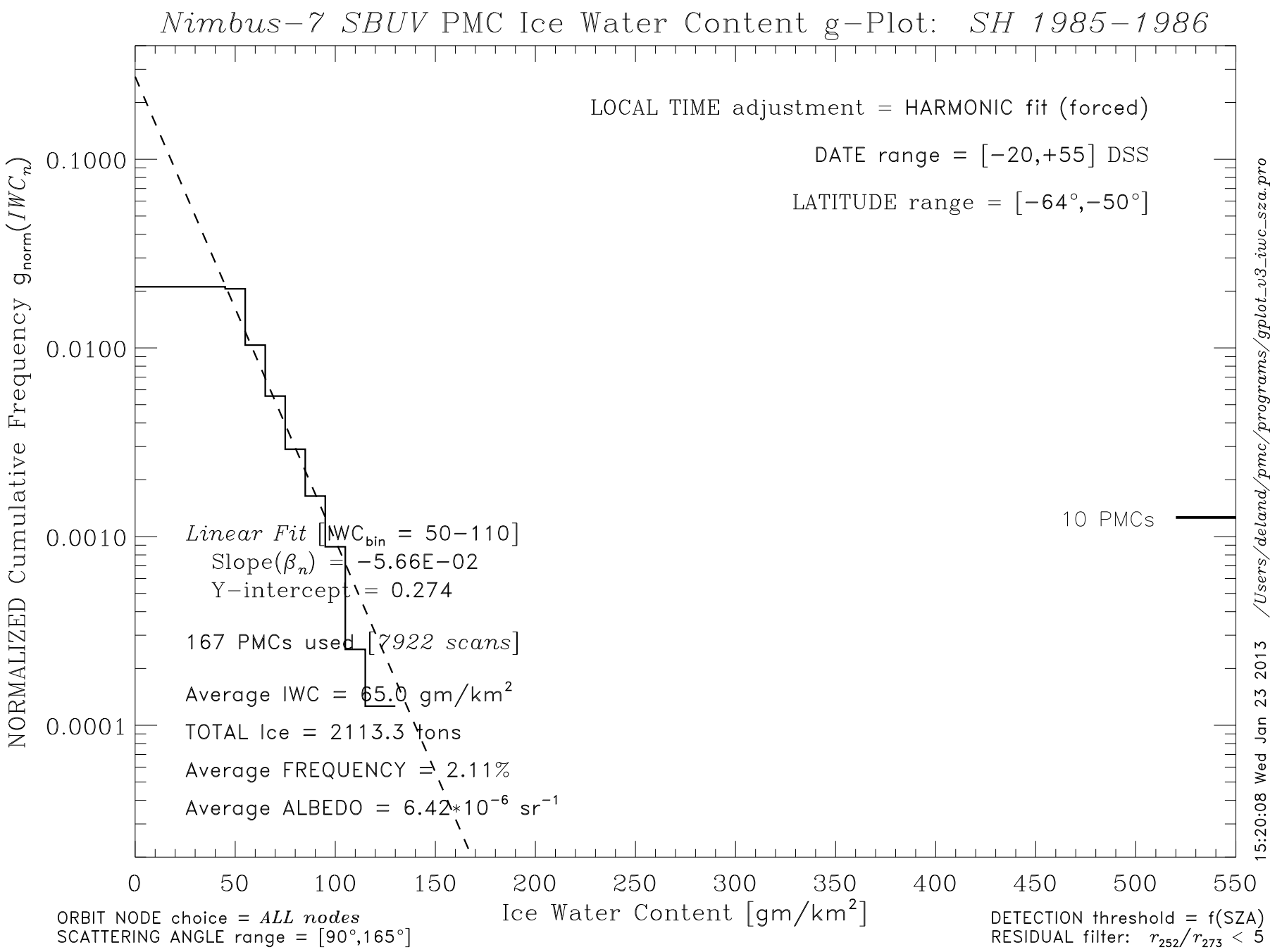

Nimbus−7 SBUV PMC Ice Water Content g−Plot: SH 1980−1981
LOCAL TIME adjustment = HARMONIC fit (forced)
DATE range = [−20,+55] DSS
LATITUDE range = [−64°,−50°]
10 PMCs
Linear Fit [IWC_bin = 60−80]
Slope(β_n) = −9.19E−02
Y−intercept = 0.745
45 PMCs used [5903 scans]
Average IWC = 59.8 gm/km²
TOTAL Ice = 2077.0 tons
Average FREQUENCY = 0.76%
Average ALBEDO = 6.01∗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: r_252/r_273 < 5
15:20:05 Wed Jan 23 2013 /Users/deland/pmc/programs/gplot_v3_iwc_sza.pro

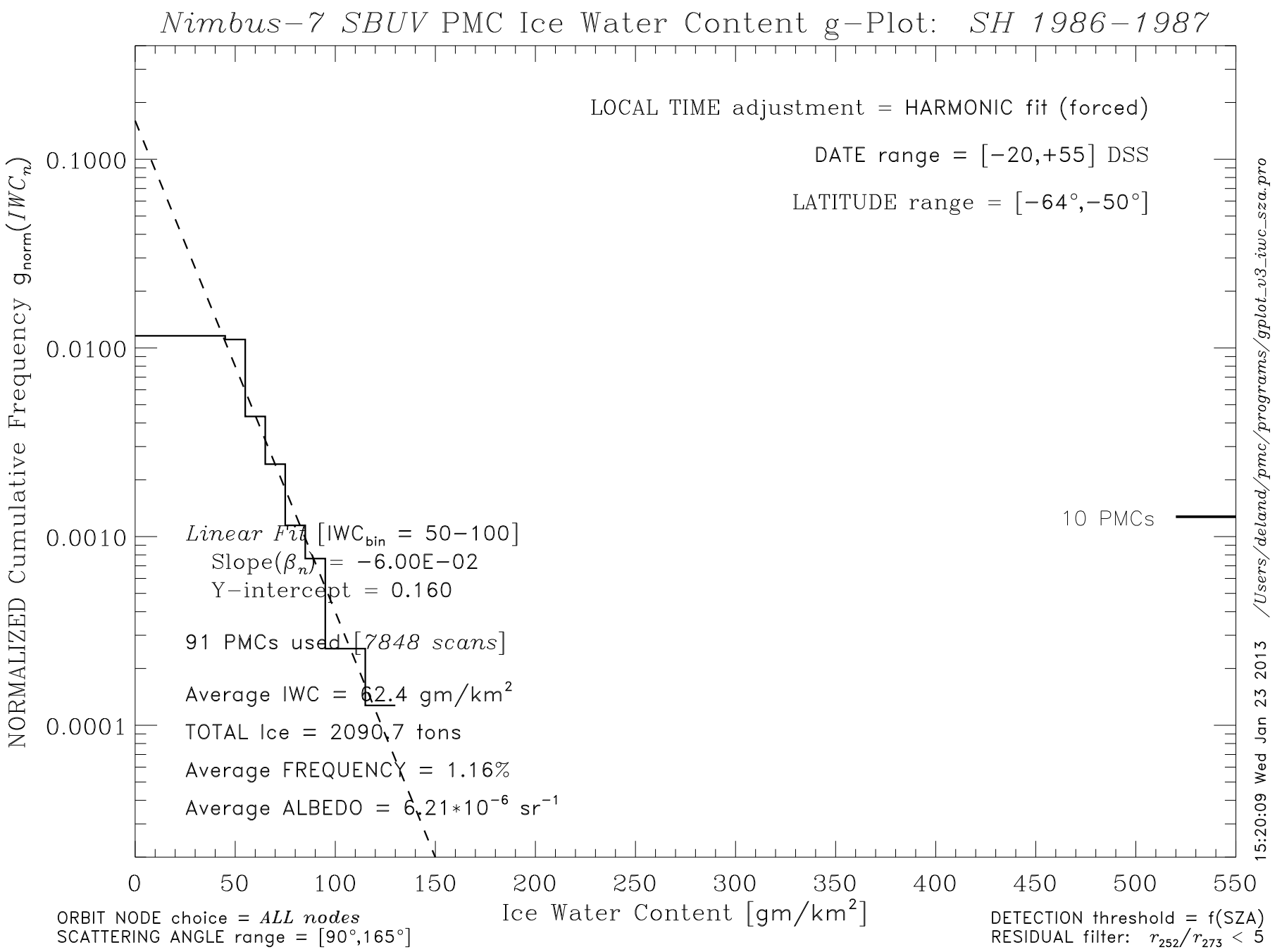

Nimbus−7 SBUV PMC Ice Water Content g−Plot: SH 1981−1982
LOCAL TIME adjustment = HARMONIC fit (forced)
DATE range = [−20,+55] DSS
LATITUDE range = [−64°,−50°]
10 PMCs
Linear Fit [IWC_bin = 60−90]
Slope(β1) = −8.69E−02
Y−intercept = 1.026
67 PMCs used [5741 scans]
Average IWC = 64.2 gm/km²
TOTAL Ice = 2105.4 tons
Average FREQUENCY = 1.17%
Average ALBEDO = 6.33*10⁻⁶ sr⁻¹
NORMALIZED Cumulative Frequency g_norm(IWC_n)
0.1000
0.0100
0.0010
0.0001
0
50
100
150
200
250
300
350
400
450
500
550
Ice Water Content [gm/km²]
ORBIT NODE choice = ALL nodes
SCATTERING ANGLE range = [90°,165°]
DETECTION threshold = f(SZA)
RESIDUAL filter: r252/r273 < 5
15:20:05 Wed Jan 23 2013 /Users/deland/pmc/programs/gplot_v3_iwc_sza.pro

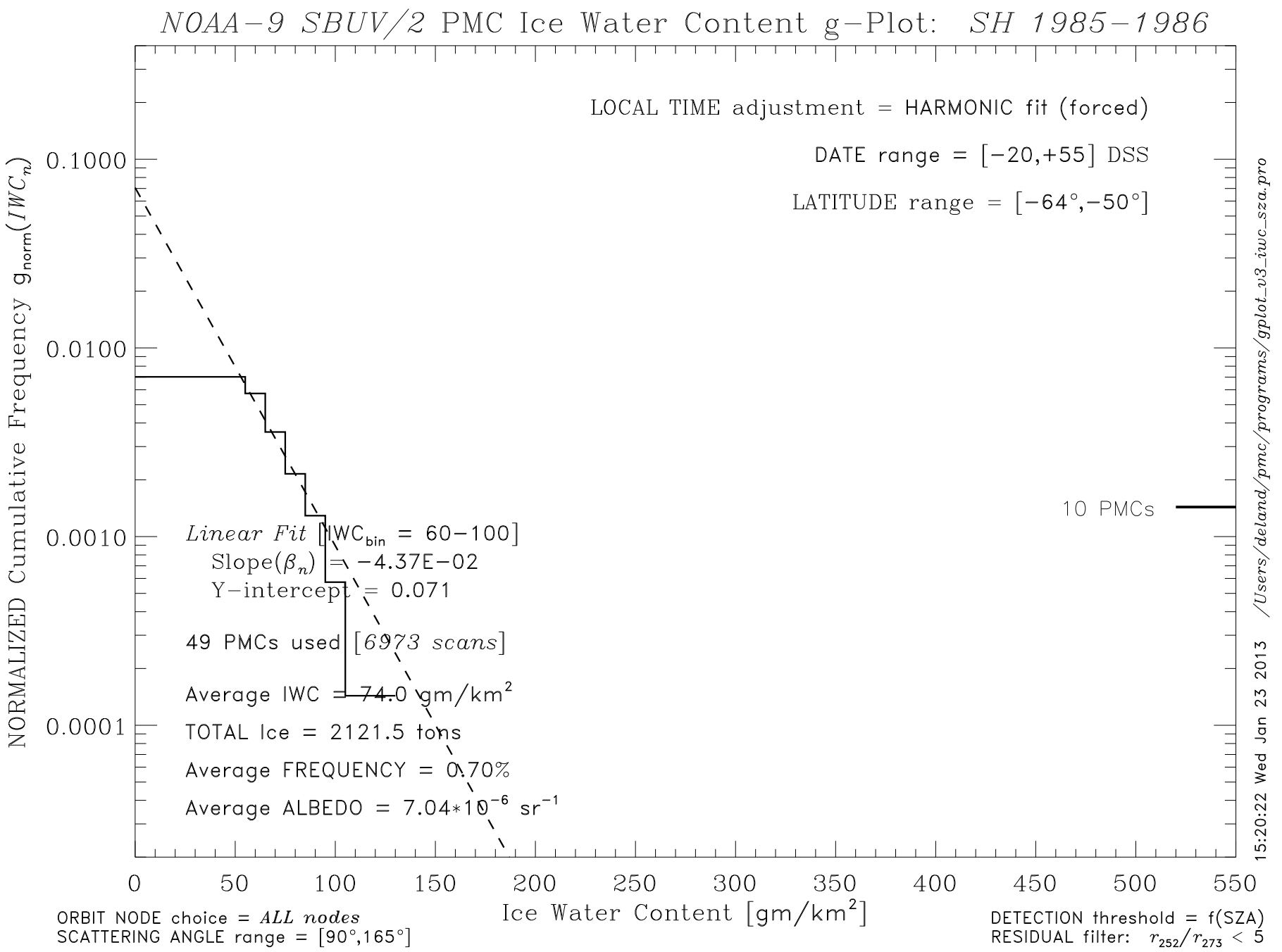

Nimbus-7 SBUV PMC Ice Water Content g-Plot: SH 1982-1983
LOCAL TIME adjustment = HARMONIC fit (forced)
DATE range = [-20,+55] DSS
LATITUDE range = [-64°,-50°]
10 PMCs
Linear Fit [IWC_bin = 60-90]
Slope(β_n) = -6.40E-02
Y-intercept = 0.283
62 PMCs used [5764 scans]
Average IWC = 66.2 gm/km²
TOTAL Ice = 2091.1 tons
Average FREQUENCY = 1.08%
Average ALBEDO = 6.53*10⁻⁶ sr⁻¹
NORMALIZED Cumulative Frequency g_norm(IWC_n)
0.1000
0.0100
0.0010
0.0001
0
50
100
150
200
250
300
350
400
450
500
550
Ice Water Content [gm/km²]
ORBIT NODE choice = ALL nodes
SCATTERING ANGLE range = [90°,165°]
DETECTION threshold = f(SZA)
RESIDUAL filter: r_252/r_273 < 5
15:20:06 Wed Jan 23 2013 /Users/deland/pmc/programs/gplot_v3_iwc_sza.pro

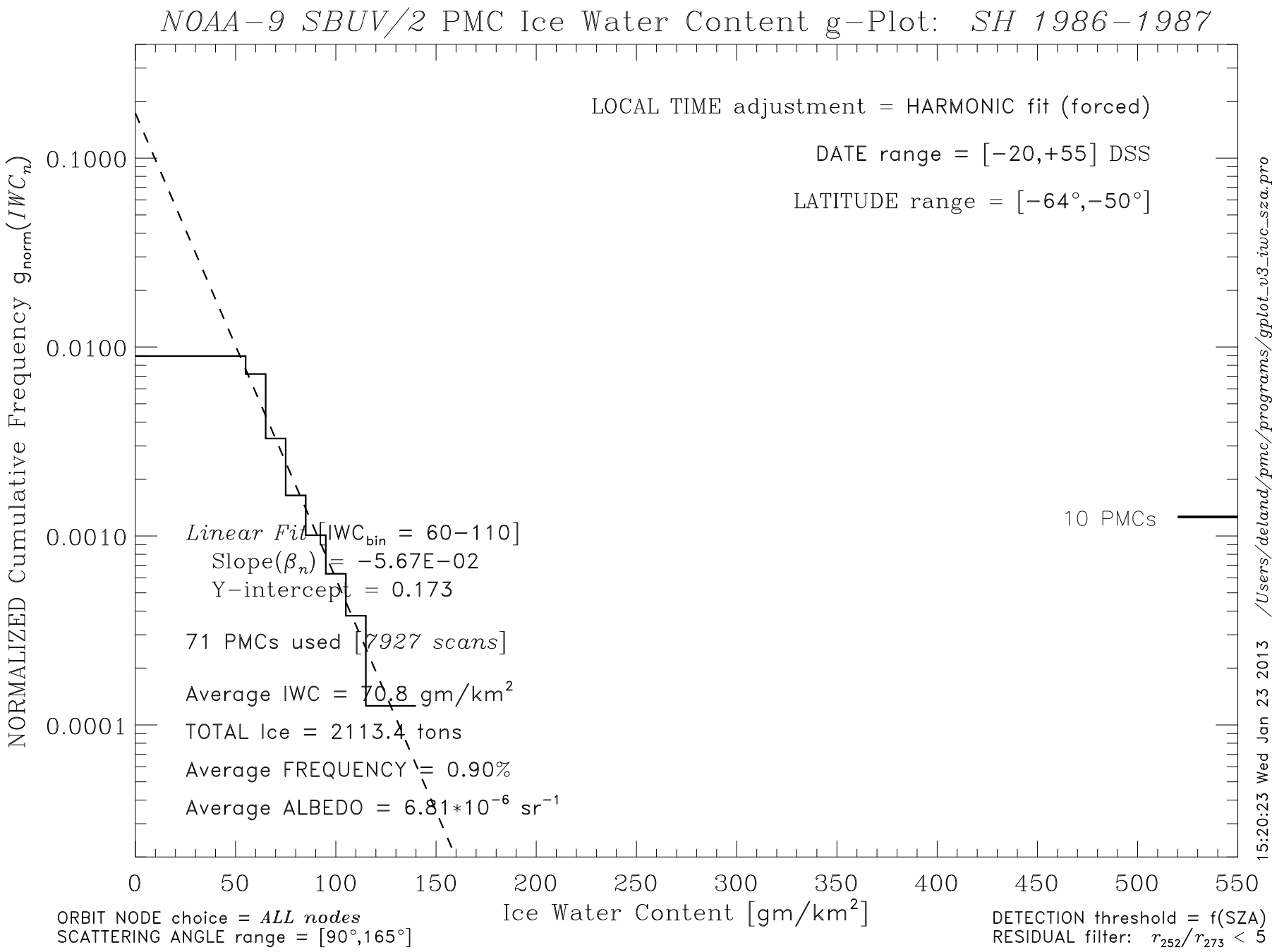

Nimbus-7 SBUV PMC Ice Water Content g-Plot: SH 1983-1984
LOCAL TIME adjustment = HARMONIC fit (forced)
DATE range = [-20,+55] DSS
LATITUDE range = [-64°,-50°]
10 PMCs
Linear Fit [IWC_bin = 60-110]
Slope(β_n) = -6.68E-02
Y-intercept = 0.466
139 PMCs used [7899 scans]
Average IWC = 64.0 gm/km²
TOTAL Ice = 2107.1 tons
Average FREQUENCY = 1.76%
Average ALBEDO = 6.34*10⁻⁶ sr⁻¹
NORMALIZED Cumulative Frequency g_norm(IWC_n)
0.1000
0.0100
0.0010
0.0001
0
50
100
150
200
250
300
350
400
450
500
550
Ice Water Content [gm/km²]
ORBIT NODE choice = ALL nodes
SCATTERING ANGLE range = [90°,165°]
DETECTION threshold = f(SZA)
RESIDUAL filter: r_252/r_273 < 5
15:20:07 Wed Jan 23 2013 /Users/deland/pmc/programs/gplot_v3_iwc_sza.pro

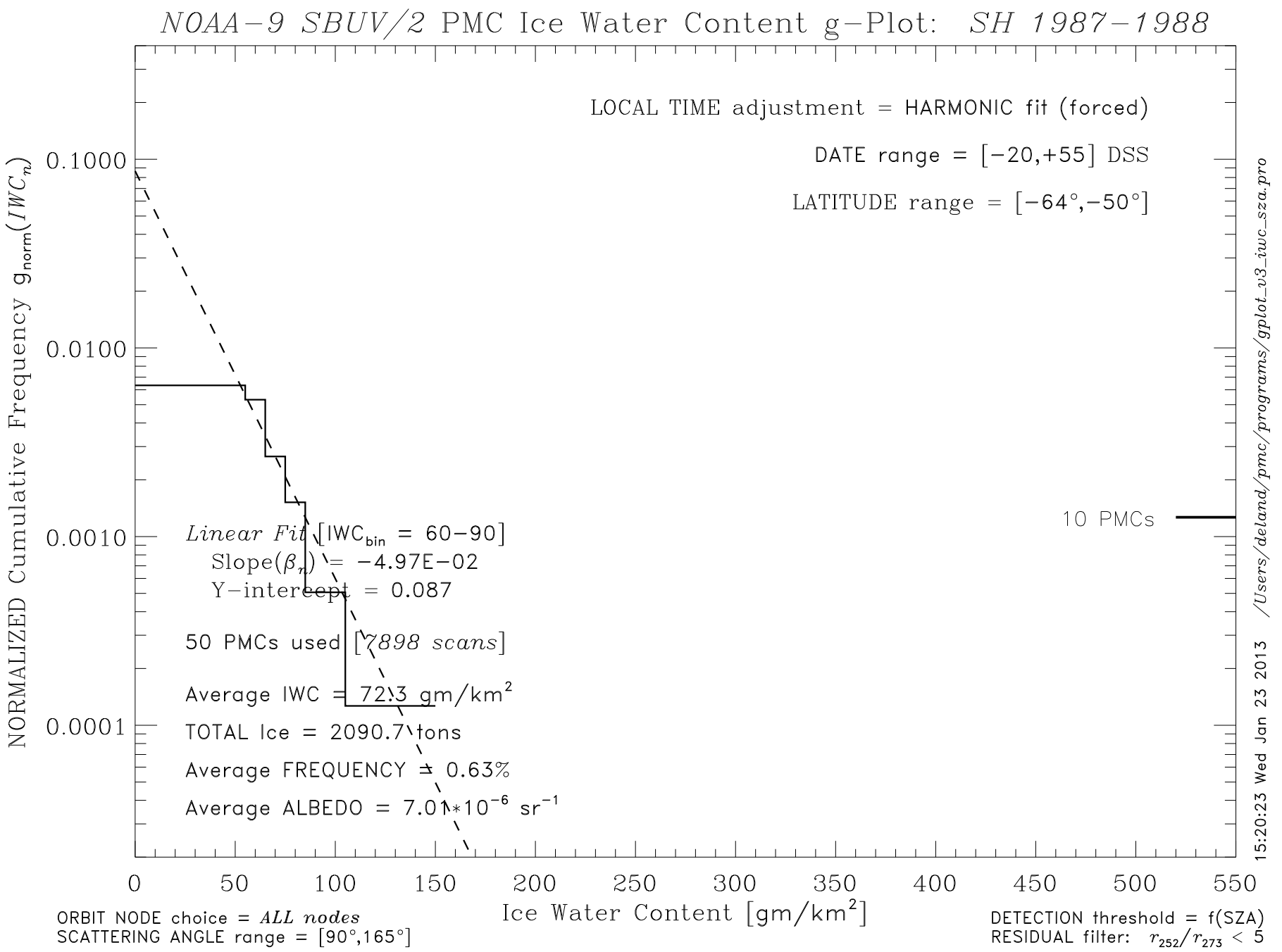

Nimbus-7 SBUV PMC Ice Water Content g-Plot: SH 1984-1985
LOCAL TIME adjustment = HARMONIC fit (forced)
DATE range = [-20,+55] DSS
LATITUDE range = [-64°,-50°]
10 PMCs
Linear Fit [IWC_bin = 50-120]
Slope(β_n) = -4.79E-02
Y-intercept = 0.124
113 PMCs used [7618 scans]
Average IWC = 66.7 gm/km²
TOTAL Ice = 2101.2 tons
Average FREQUENCY = 1.48%
Average ALBEDO = 6.56*10⁻⁶ sr⁻¹
NORMALIZED Cumulative Frequency g_norm(IWC_n)
0.1000
0.0100
0.0010
0.0001
0
50
100
150
200
250
300
350
400
450
500
550
Ice Water Content [gm/km²]
ORBIT NODE choice = ALL nodes
SCATTERING ANGLE range = [90°,165°]
DETECTION threshold = f(SZA)
RESIDUAL filter: r_252/r_273 < 5
15:20:07 Wed Jan 23 2013 /Users/deland/pmc/programs/gplot_v3_iwc_sza.pro

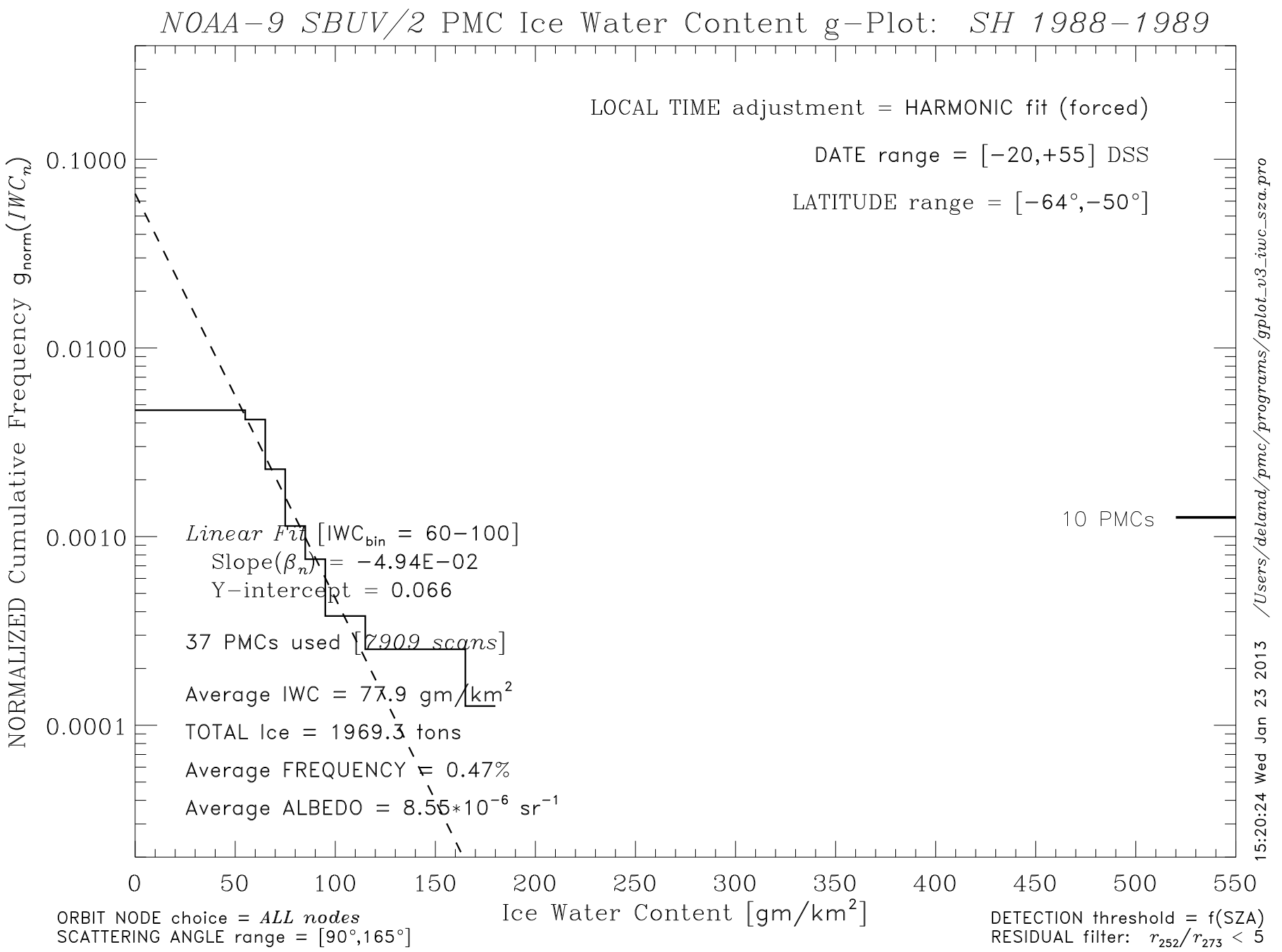

Nimbus-7 SBUV PMC Ice Water Content g-Plot: SH 1985-1986
LOCAL TIME adjustment = HARMONIC fit (forced)
DATE range = [-20,+55] DSS
LATITUDE range = [-64°,-50°]
10 PMCs
Linear Fit [IWC_bin = 50-110]
Slope(β_n) = -5.66E-02
Y-intercept = 0.274
167 PMCs used [7922 scans]
Average IWC = 65.0 gm/km²
TOTAL Ice = 2113.3 tons
Average FREQUENCY = 2.11%
Average ALBEDO = 6.42*10⁻⁶ sr⁻¹
NORMALIZED Cumulative Frequency g_norm(IWC_n)
0.1000
0.0100
0.0010
0.0001
0
50
100
150
200
250
300
350
400
450
500
550
Ice Water Content [gm/km²]
ORBIT NODE choice = ALL nodes
SCATTERING ANGLE range = [90°,165°]
DETECTION threshold = f(SZA)
RESIDUAL filter: r_252/r_273 < 5
15:20:08 Wed Jan 23 2013 /Users/deland/pmc/programs/gplot_v3_iwc_sza.pro

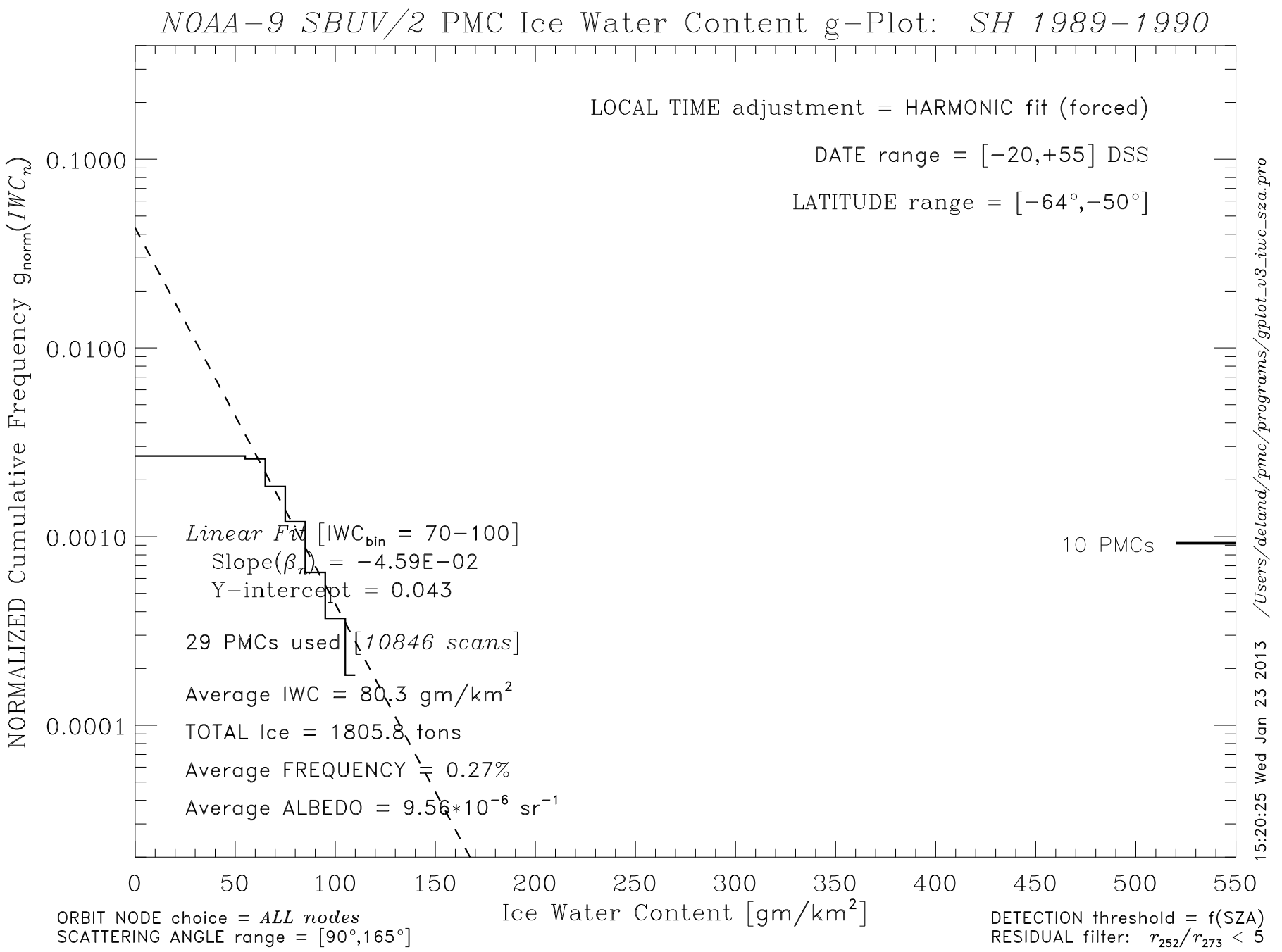

Nimbus−7 SBUV PMC Ice Water Content g−Plot: SH 1986−1987
LOCAL TIME adjustment = HARMONIC fit (forced)
DATE range = [−20,+55] DSS
LATITUDE range = [−64°,−50°]
10 PMCs
Linear Fit [IWC_bin = 50−100]
Slope(β_n) = −6.00E−02
Y−intercept = 0.160
91 PMCs used [7848 scans]
Average IWC = 62.4 gm/km²
TOTAL Ice = 2090.7 tons
Average FREQUENCY = 1.16%
Average ALBEDO = 6.21∗10⁻⁶ sr⁻¹
NORMALIZED Cumulative Frequency g_norm(IWC_n)
0.1000
0.0100
0.0010
0.0001
0
50
100
150
200
250
300
350
400
450
500
550
Ice Water Content [gm/km²]
ORBIT NODE choice = ALL nodes
SCATTERING ANGLE range = [90°,165°]
DETECTION threshold = f(SZA)
RESIDUAL filter: r_252/r_273 < 5
15:20:09 Wed Jan 23 2013 /Users/deland/pmc/programs/gplot_v3_iwc_sza.pro

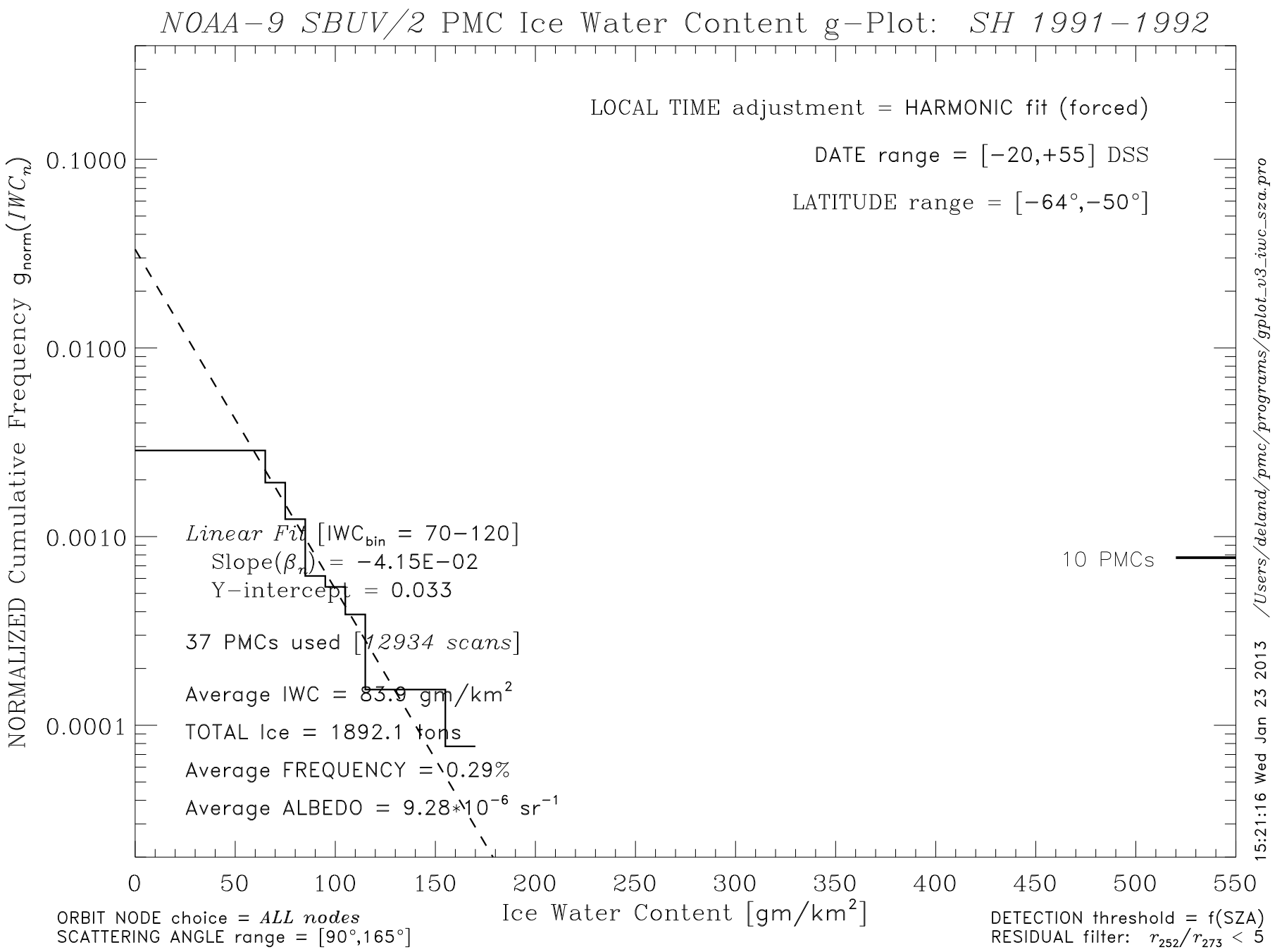

NOAA-9 SBUV/2 PMC Ice Water Content g-Plot: SH 1985-1986
LOCAL TIME adjustment = HARMONIC fit (forced)
DATE range = [-20,+55] DSS
LATITUDE range = [-64°,-50°]
10 PMCs
Linear Fit [IWC_bin = 60-100]
Slope(β_n) = -4.37E-02
Y-intercept = 0.071
49 PMCs used [6973 scans]
Average IWC = 74.0 gm/km²
TOTAL Ice = 2121.5 tons
Average FREQUENCY = 0.70%
Average ALBEDO = 7.04*10⁻⁶ sr⁻¹
NORMALIZED Cumulative Frequency g_norm(IWC_n)
0.1000
0.0100
0.0010
0.0001
0
50
100
150
200
250
300
350
400
450
500
550
Ice Water Content [gm/km²]
ORBIT NODE choice = ALL nodes
SCATTERING ANGLE range = [90°,165°]
DETECTION threshold = f(SZA)
RESIDUAL filter: r_252/r_273 < 5
15:20:22 Wed Jan 23 2013 /Users/deland/pmc/programs/gplot_v3_iwc_sza.pro

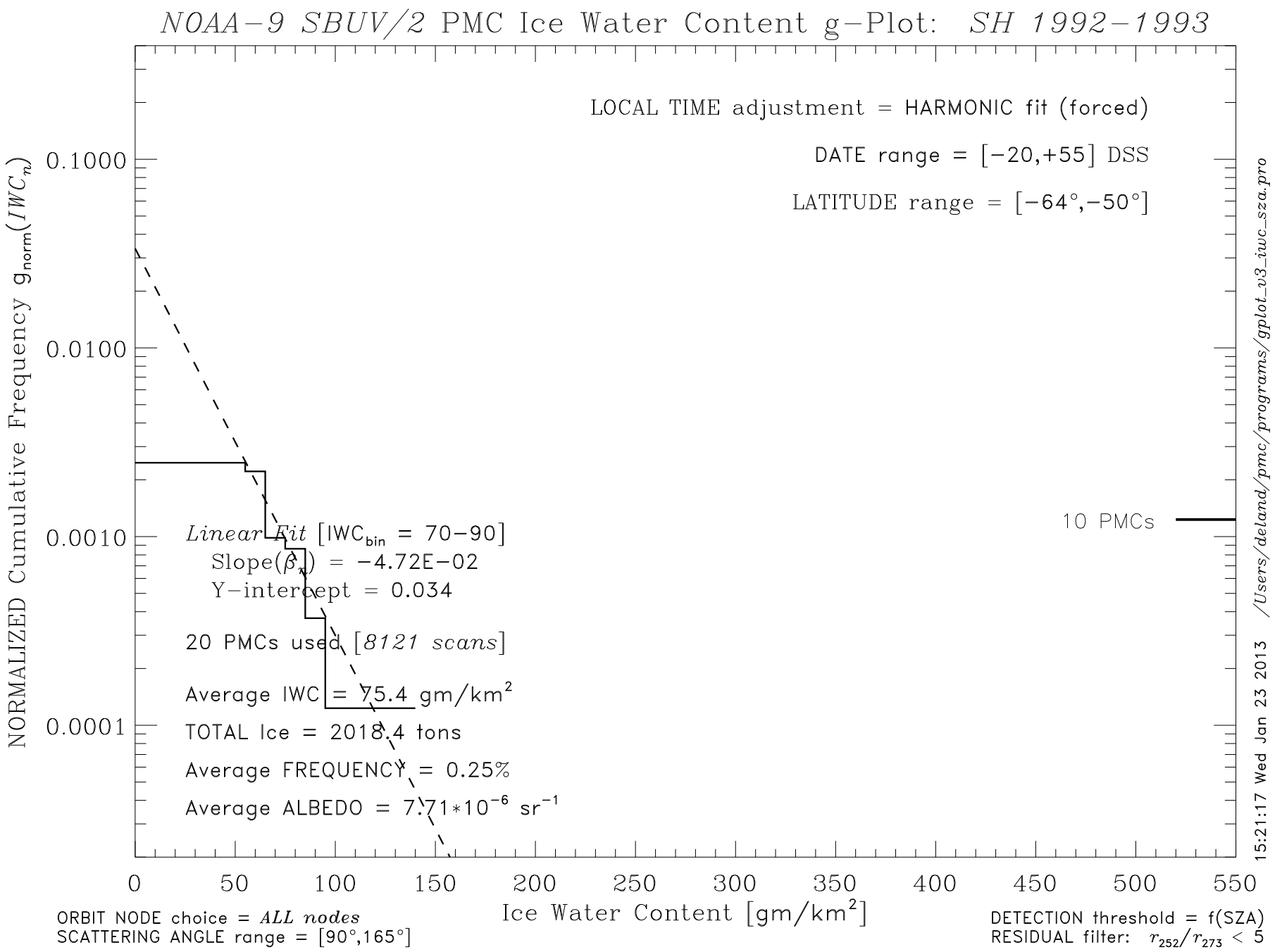

NOAA-9 SBUV/2 PMC Ice Water Content g-Plot: SH 1986-1987
LOCAL TIME adjustment = HARMONIC fit (forced)
DATE range = [-20,+55] DSS
LATITUDE range = [-64°,-50°]
NORMALIZED Cumulative Frequency $g_{norm}(IWC_n)$
0.1000
0.0100
0.0010
0.0001
10 PMCs
Linear Fit [IWC_bin = 60-110]
Slope(β_n) = -5.67E-02
Y-intercept = 0.173
71 PMCs used [7927 scans]
Average IWC = 70.8 gm/km^2
TOTAL Ice = 2113.4 tons
Average FREQUENCY = 0.90%
Average ALBEDO = 6.81*10^{-6} sr^{-1}
0
50
100
150
200
250
300
350
400
450
500
550
Ice Water Content [gm/km^2]
15:20:23 Wed Jan 23 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: $r_{252}/r_{273} < 5$

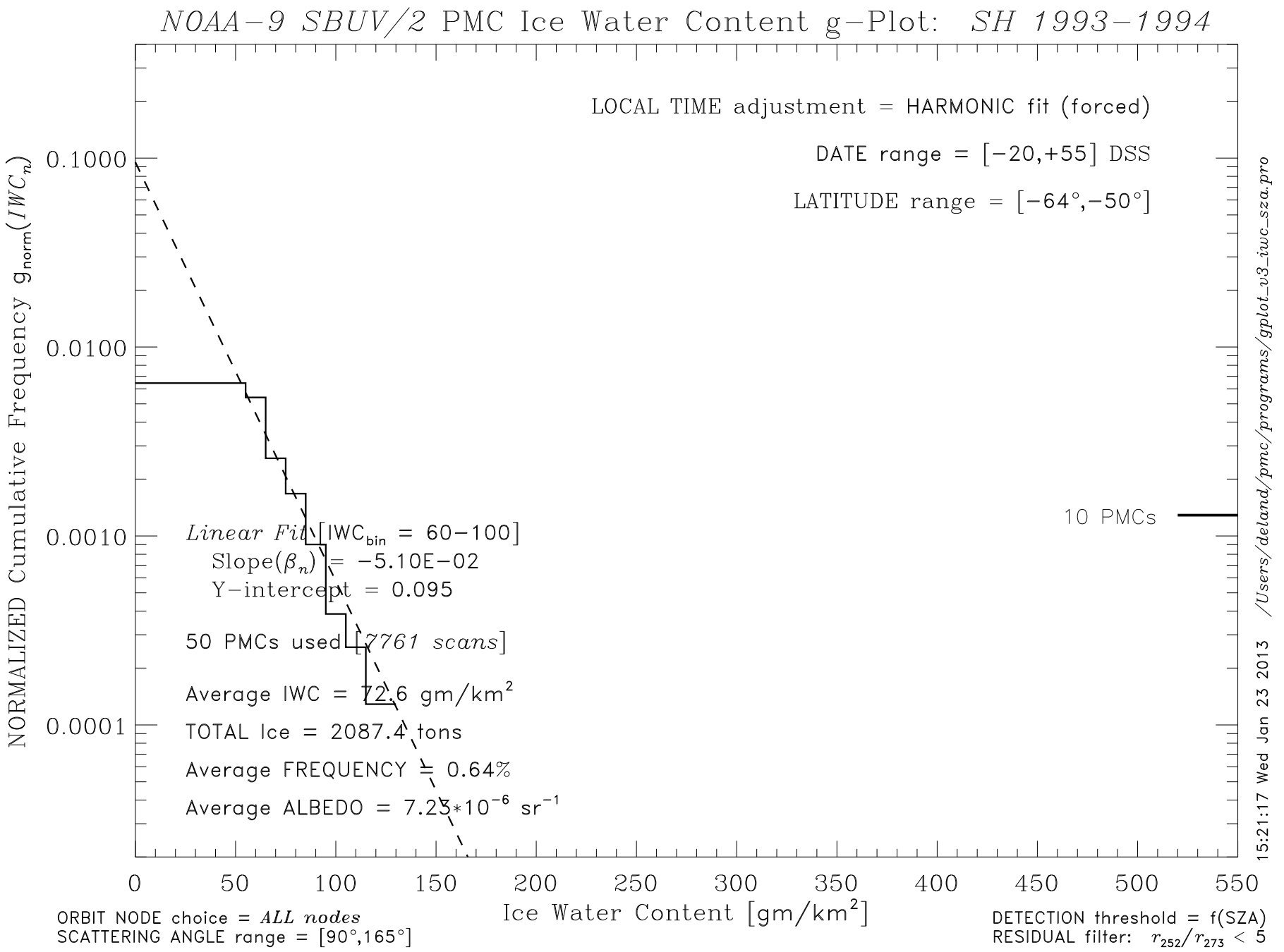

NOAA-9 SBUV/2 PMC Ice Water Content g-Plot: SH 1987-1988
LOCAL TIME adjustment = HARMONIC fit (forced)
DATE range = [-20,+55] DSS
LATITUDE range = [-64°,-50°]
NORMALIZED Cumulative Frequency $g_{norm}(IWC_n)$
0.1000
0.0100
0.0010
0.0001
Linear Fit [IWC_bin = 60-90]
Slope(β_n) = -4.97E-02
Y-intercept = 0.087
50 PMCs used [7898 scans]
Average IWC = 72.3 gm/km^2
TOTAL Ice = 2090.7 tons
Average FREQUENCY = 0.63%
Average ALBEDO = 7.01*10^{-6} sr^{-1}
10 PMCs
0
50
100
150
200
250
300
350
400
450
500
550
Ice Water Content [gm/km^2]
ORBIT NODE choice = ALL nodes
SCATTERING ANGLE range = [90°,165°]
DETECTION threshold = f(SZA)
RESIDUAL filter: $r_{252}/r_{273} < 5$
15:20:23 Wed Jan 23 2013 /Users/deland/pmc/programs/gplot_v3_iwc_sza.pro

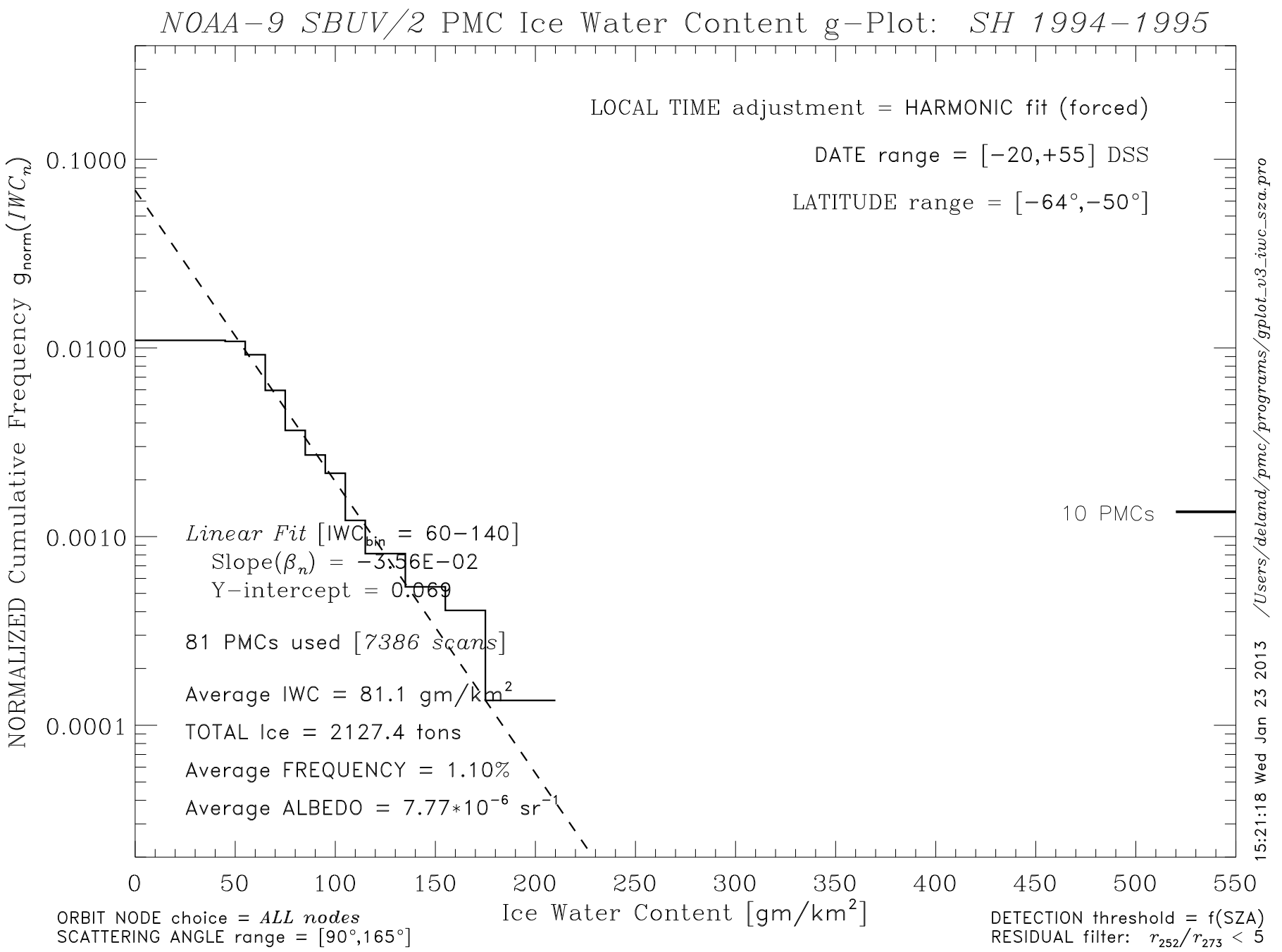

NOAA-9 SBUV/2 PMC Ice Water Content g-Plot: SH 1988-1989
LOCAL TIME adjustment = HARMONIC fit (forced)
DATE range = [-20,+55] DSS
LATITUDE range = [-64°,-50°]
NORMALIZED Cumulative Frequency $g_{norm}(IWC_n)$
0.1000
0.0100
0.0010
0.0001
Linear Fit [IWC_{bin} = 60-100]
Slope(β_n) = -4.94E-02
Y-intercept = 0.066
R
37 PMCs used [7909 scans]
Average IWC = 77.9 gm/km^2
TOTAL Ice = 1969.3 tons
Average FREQUENCY = 0.47%
Average ALBEDO = 8.55*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: $r_{252}/r_{273} < 5$
15:20:24 Wed Jan 23 2013 /Users/deland/pmc/programs/gplot_v3_iwc_sza.pro

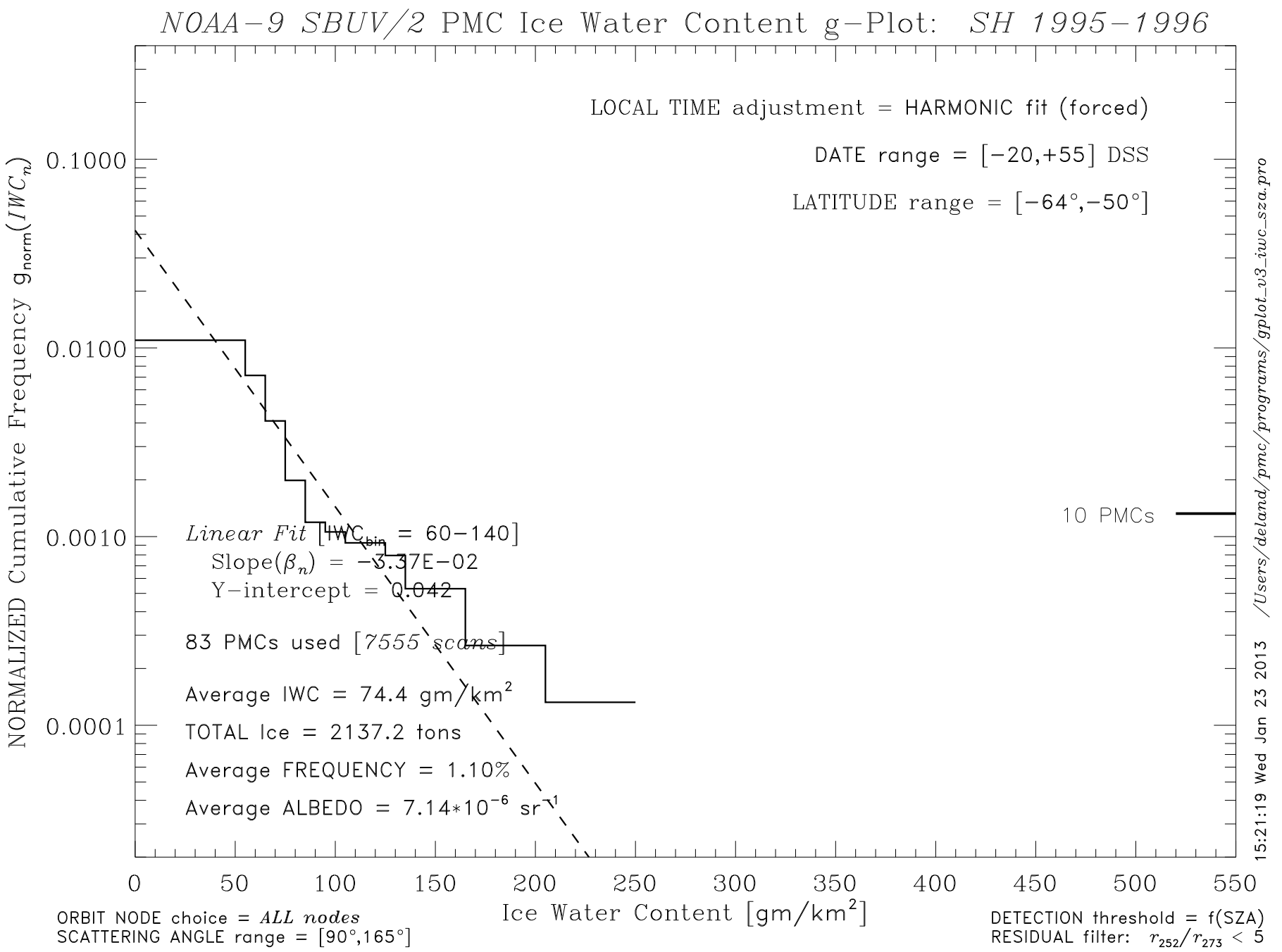

NOAA−9 SBUV/2 PMC Ice Water Content g−Plot: SH 1989−1990
LOCAL TIME adjustment = HARMONIC fit (forced)
DATE range = [−20,+55] DSS
LATITUDE range = [−64°,−50°]
NORMALIZED Cumulative Frequency $g_{norm}(IWC_n)$
0.1000
0.0100
0.0010
0.0001
Linear Fit [IWC_bin = 70−100]
Slope(β_n) = −4.59E−02
Y−intercept = 0.043
29 PMCs used [10846 scans]
Average IWC = 80.3 gm/km²
TOTAL Ice = 1805.8 tons
Average FREQUENCY = 0.27%
Average ALBEDO = 9.56*10⁻⁶ sr⁻¹
10 PMCs
0
50
100
150
200
250
300
350
400
450
500
550
Ice Water Content [gm/km²]
ORBIT NODE choice = ALL nodes
SCATTERING ANGLE range = [90°,165°]
DETECTION threshold = f(SZA)
RESIDUAL filter: $r_{252}/r_{273} < 5$
15:20:25 Wed Jan 23 2013 /Users/deland/pmc/programs/gplot_v3_iwc_sza.pro

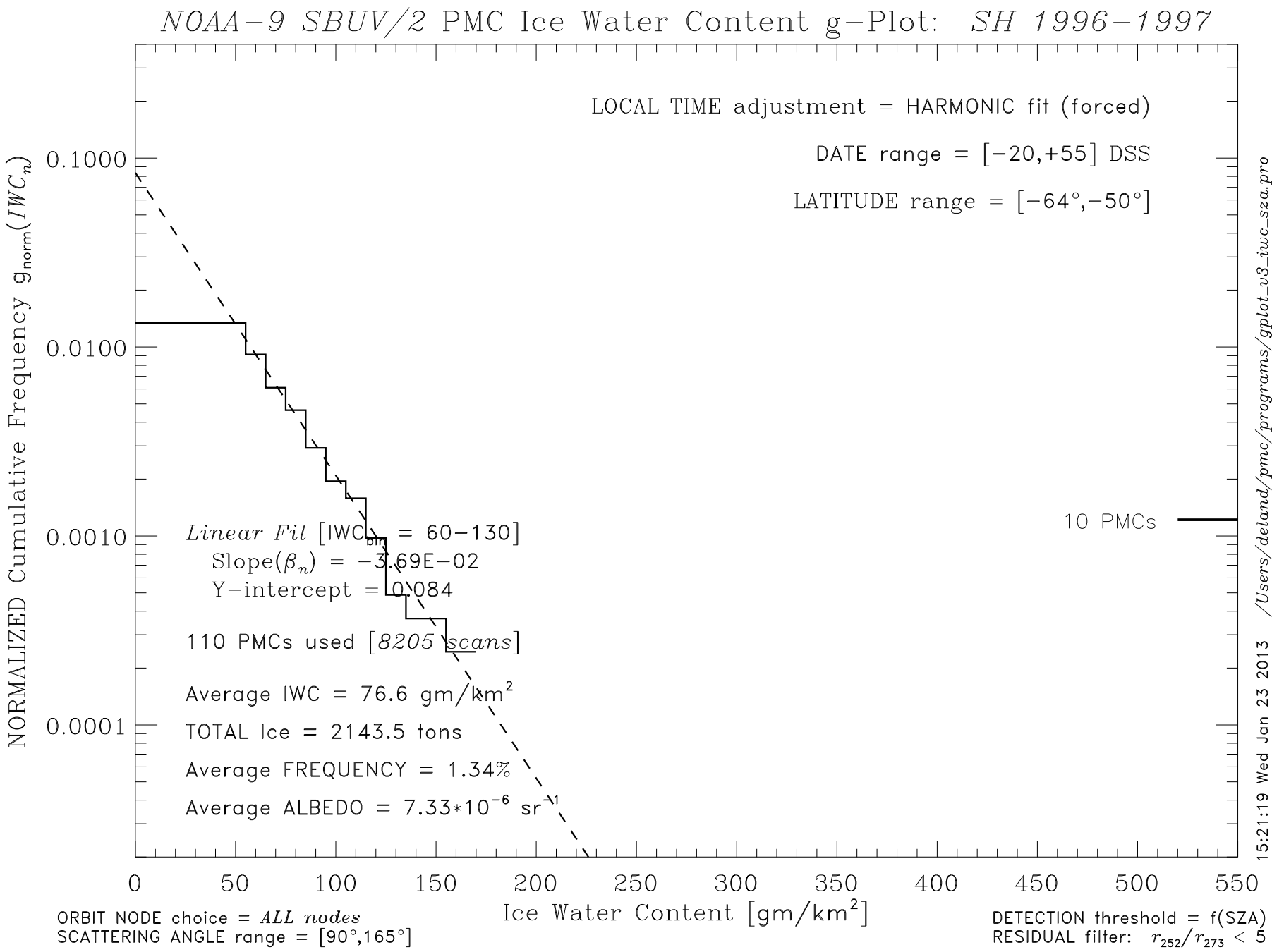

NOAA-9 SBUV/2 PMC Ice Water Content g-Plot: SH 1991-1992
LOCAL TIME adjustment = HARMONIC fit (forced)
DATE range = [-20,+55] DSS
LATITUDE range = [-64°,-50°]
NORMALIZED Cumulative Frequency $g_{norm}(IWC_n)$
0.1000
0.0100
0.0010
0.0001
Linear Fit [IWC_{bin} = 70-120]
Slope(β_n) = -4.15E-02
Y-intercept = 0.033
37 PMCs used [12934 scans]
Average IWC = 83.9 gm/km^2
TOTAL Ice = 1892.1 tons
Average FREQUENCY = 0.29%
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]
15:21:16 Wed Jan 23 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: $r_{252}/r_{273} < 5$

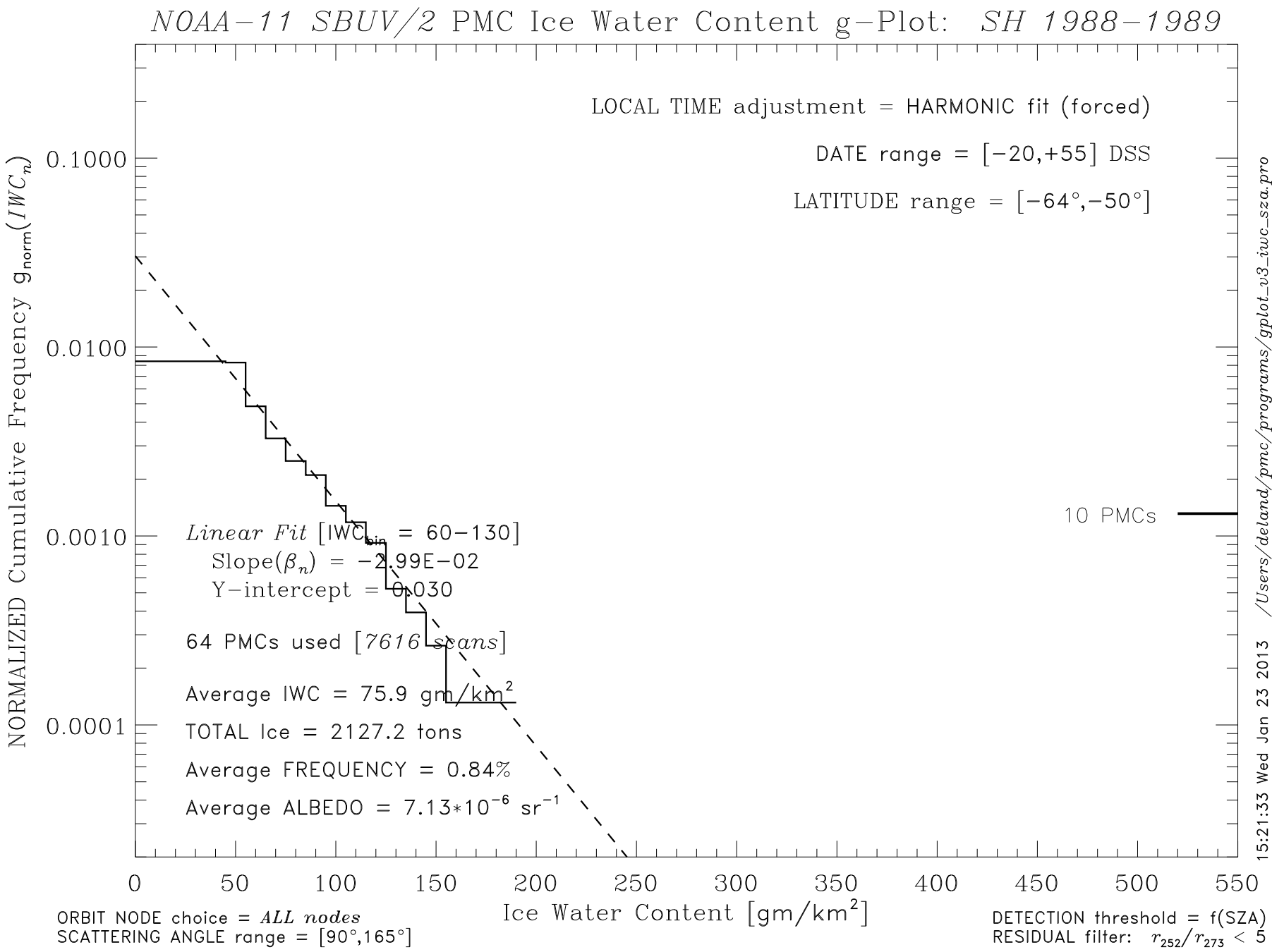

NOAA-9 SBUV/2 PMC Ice Water Content g-Plot: SH 1992-1993
LOCAL TIME adjustment = HARMONIC fit (forced)
DATE range = [-20,+55] DSS
LATITUDE range = [-64°,-50°]
NORMALIZED Cumulative Frequency $g_{norm}(IWC_n)$
0.1000
0.0100
0.0010
0.0001
Linear Fit [IWC_bin = 70-90]
Slope(β_1) = -4.72E-02
Y-intercept = 0.034
20 PMCs used [8121 scans]
Average IWC = 75.4 gm/km^2
TOTAL Ice = 2018.4 tons
Average FREQUENCY = 0.25%
Average ALBEDO = 7.71*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: $r_{252}/r_{273} < 5$
15:21:17 Wed Jan 23 2013 /Users/deland/pmc/programs/gplot_v3_iwc_sza.pro

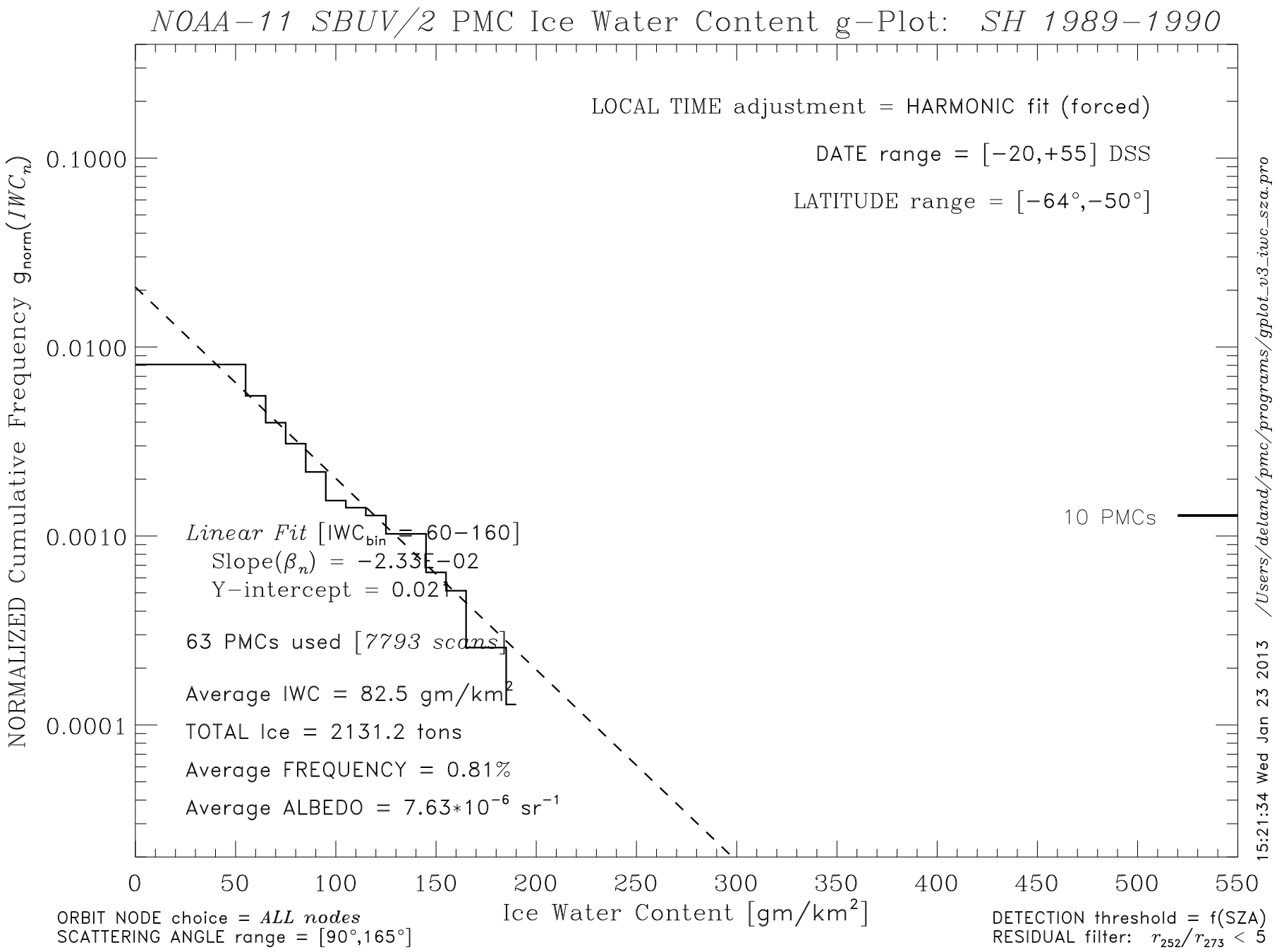

NOAA-9 SBUV/2 PMC Ice Water Content g-Plot: SH 1993-1994
LOCAL TIME adjustment = HARMONIC fit (forced)
DATE range = [-20,+55] DSS
LATITUDE range = [-64°,-50°]
NORMALIZED Cumulative Frequency $g_{norm}(IWC_n)$
0.1000
0.0100
0.0010
0.0001
Linear Fit [IWC_bin = 60-100]
Slope(β_n) = -5.10E-02
Y-intercept = 0.095
50 PMCs used [7761 scans]
Average IWC = 72.6 gm/km^2
TOTAL Ice = 2087.4 tons
Average FREQUENCY = 0.64%
Average ALBEDO = 7.23*10^{-6} sr^{-1}
10 PMCs
0
50
100
150
200
250
300
350
400
450
500
550
Ice Water Content [gm/km^2]
ORBIT NODE choice = ALL nodes
SCATTERING ANGLE range = [90°,165°]
DETECTION threshold = f(SZA)
RESIDUAL filter: $r_{252}/r_{273} < 5$
15:21:17 Wed Jan 23 2013 /Users/deland/pmc/programs/gplot_v3_iwc_sza.pro

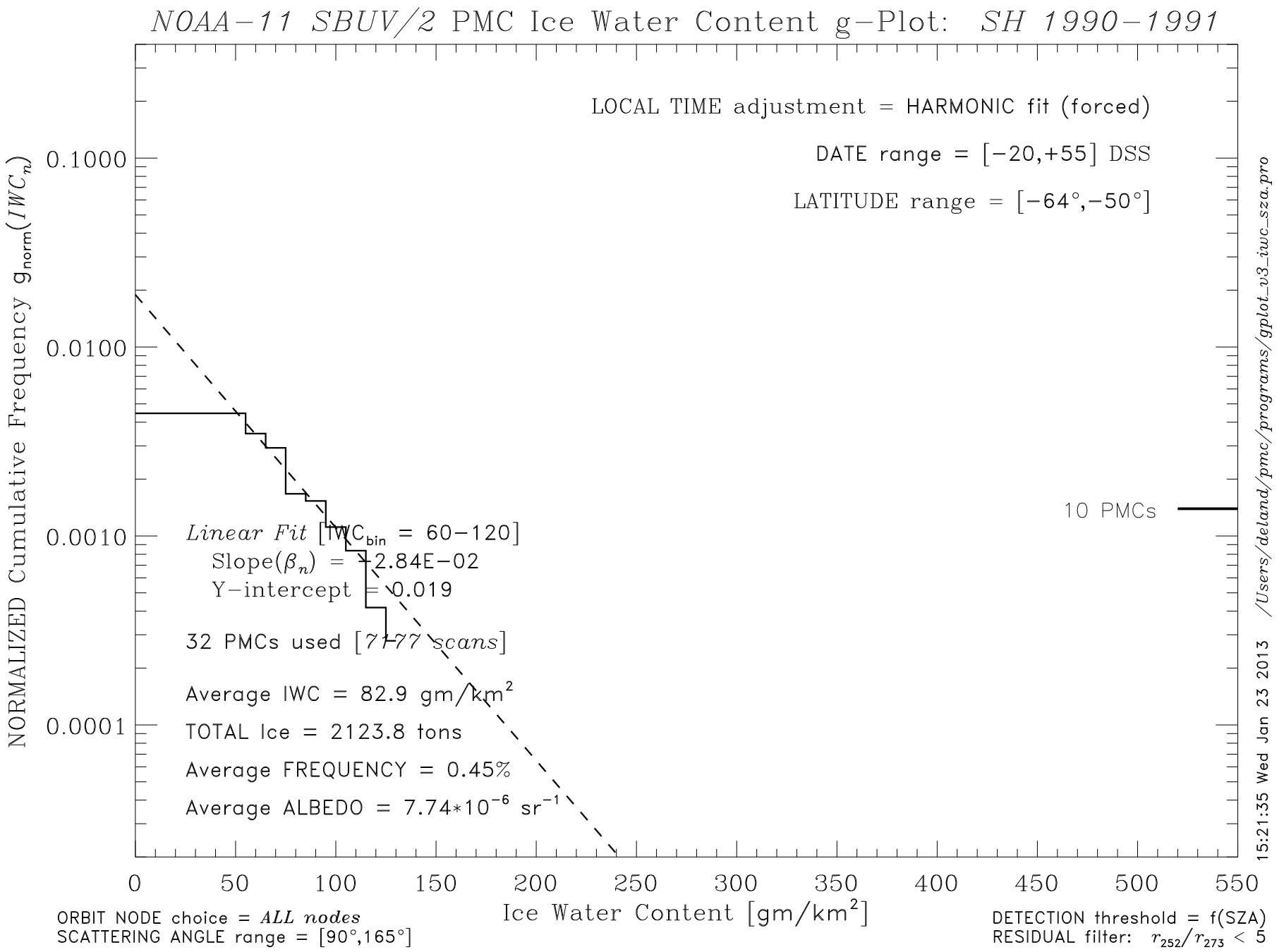

NOAA-9 SBUV/2 PMC Ice Water Content g-Plot: SH 1994-1995
LOCAL TIME adjustment = HARMONIC fit (forced)
DATE range = [-20,+55] DSS
LATITUDE range = [-64°,-50°]
NORMALIZED Cumulative Frequency $g_{norm}(IWC_n)$
0.1000
0.0100
0.0010
0.0001
Linear Fit [IWC_{bin} = 60-140]
Slope(β_n) = -3.56E-02
Y-intercept = 0.069
81 PMCs used [7386 scans]
Average IWC = 81.1 gm/km^2
TOTAL Ice = 2127.4 tons
Average FREQUENCY = 1.10%
Average ALBEDO = 7.77*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: $r_{252}/r_{273} < 5$
15:21:18 Wed Jan 23 2013 /Users/deland/pmc/programs/gplot_v3_iwc_sza.pro

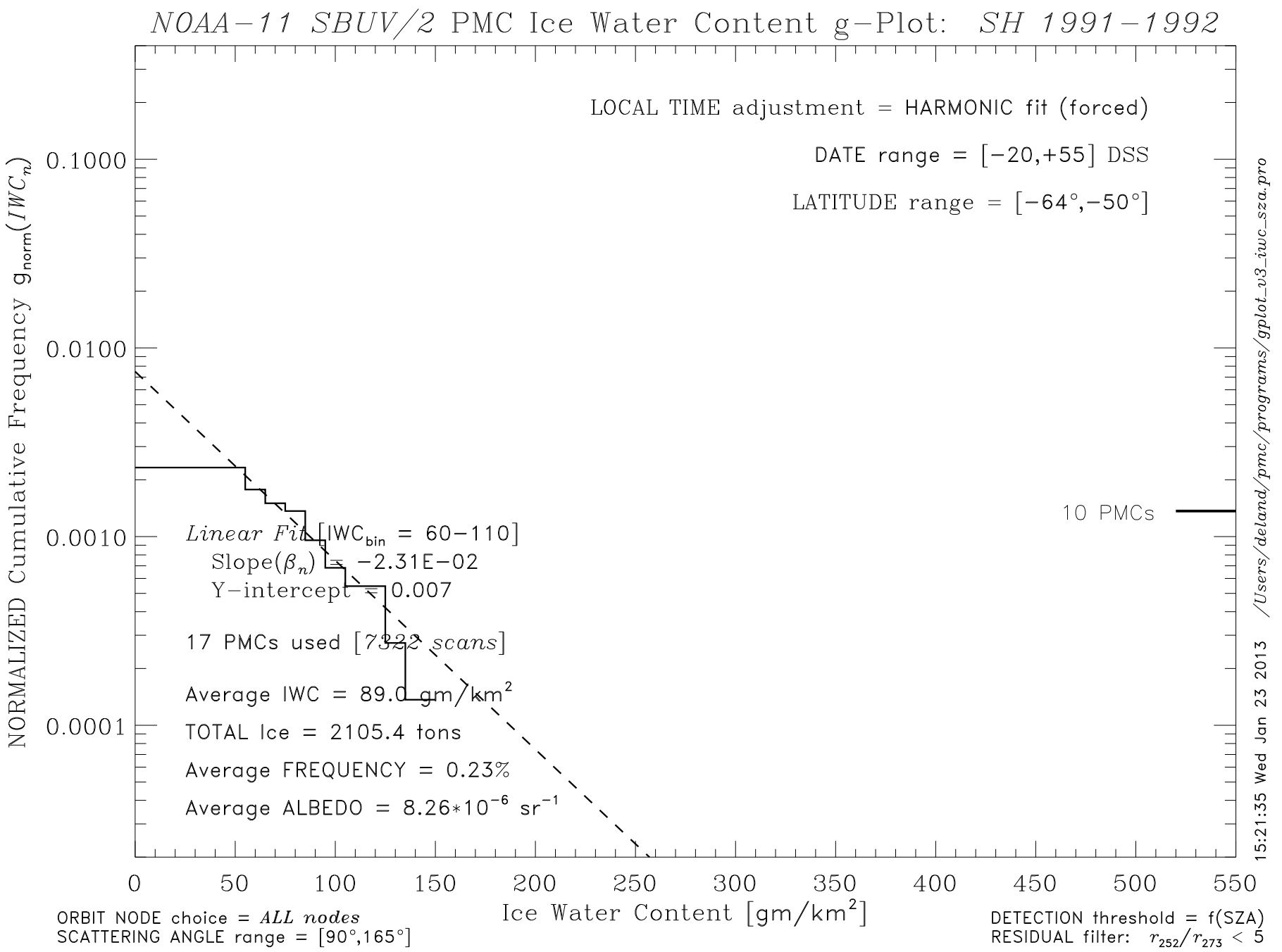

NOAA-9 SBUV/2 PMC Ice Water Content g-Plot: SH 1995-1996
LOCAL TIME adjustment = HARMONIC fit (forced)
DATE range = [-20,+55] DSS
LATITUDE range = [-64°,-50°]
NORMALIZED Cumulative Frequency $g_{norm}(IWC_n)$
0.1000
0.0100
0.0010
0.0001
Linear Fit [IWC_{bin} = 60-140]
Slope(β_n) = -3.37E-02
Y-intercept = 0.042
83 PMCs used [7555 scans]
Average IWC = 74.4 gm/km^2
TOTAL Ice = 2137.2 tons
Average FREQUENCY = 1.10%
Average ALBEDO = 7.14*10^{-6} sr^{-1}
10 PMCs
0
50
100
150
200
250
300
350
400
450
500
550
Ice Water Content [gm/km^2]
ORBIT NODE choice = ALL nodes
SCATTERING ANGLE range = [90°,165°]
DETECTION threshold = f(SZA)
RESIDUAL filter: $r_{252}/r_{273} < 5$
15:21:19 Wed Jan 23 2013 /Users/deland/pmc/programs/gplot_v3_iwc_sza.pro

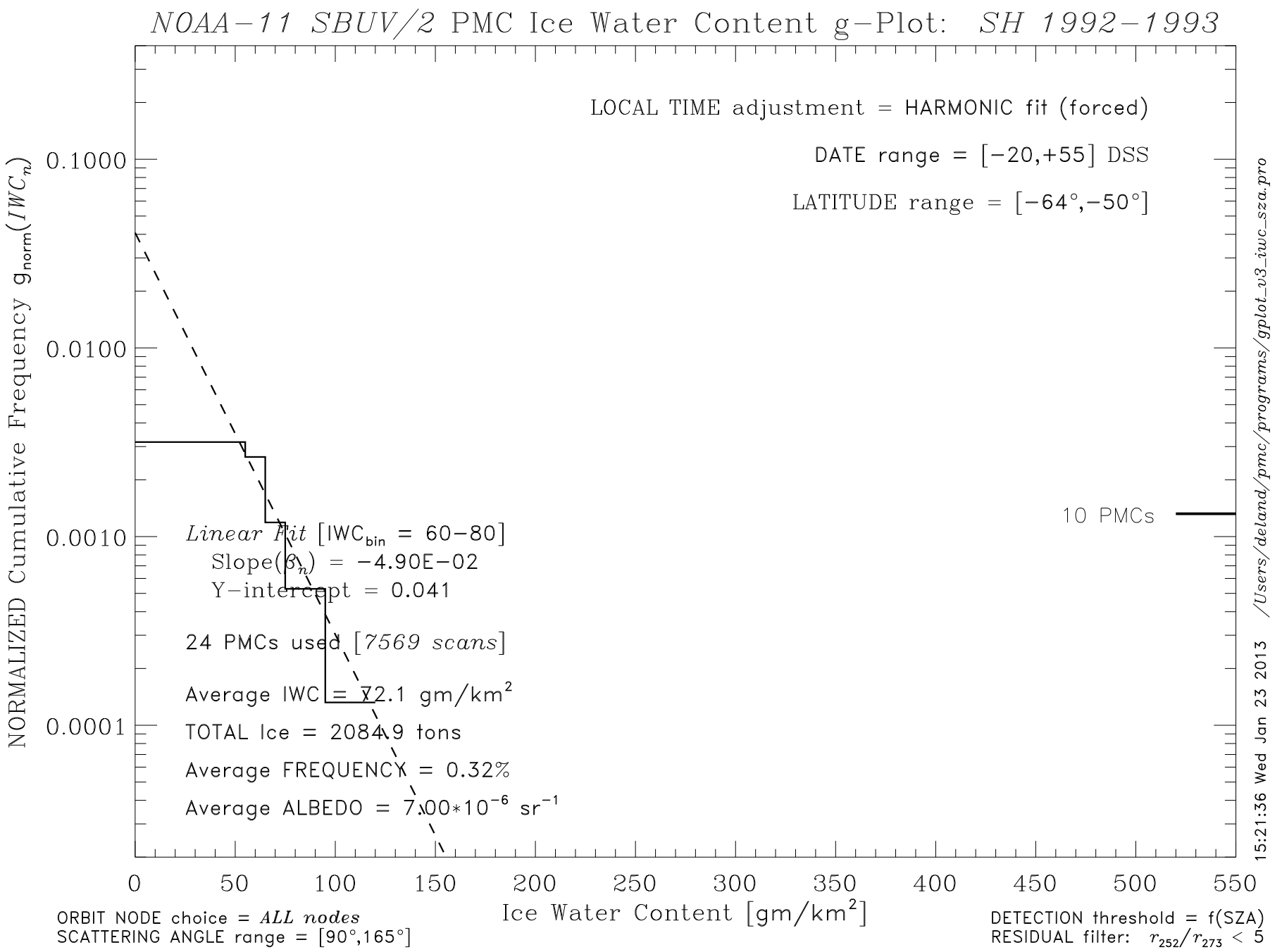

NOAA−9 SBUV/2 PMC Ice Water Content g−Plot: SH 1996−1997
LOCAL TIME adjustment = HARMONIC fit (forced)
DATE range = [−20,+55] DSS
LATITUDE range = [−64°,−50°]
NORMALIZED Cumulative Frequency $g_{norm}(IWC_n)$
0.1000
0.0100
0.0010
0.0001
Linear Fit [IWC_{bin} = 60−130]
Slope(β_n) = −3.69E−02
Y−intercept = 0.084
110 PMCs used [8205 scans]
Average IWC = 76.6 gm/km^2
TOTAL Ice = 2143.5 tons
Average FREQUENCY = 1.34%
Average ALBEDO = 7.33∗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: $r_{252}/r_{273} < 5$
15:21:19 Wed Jan 23 2013 /Users/deland/pmc/programs/gplot_v3_iwc_sza.pro

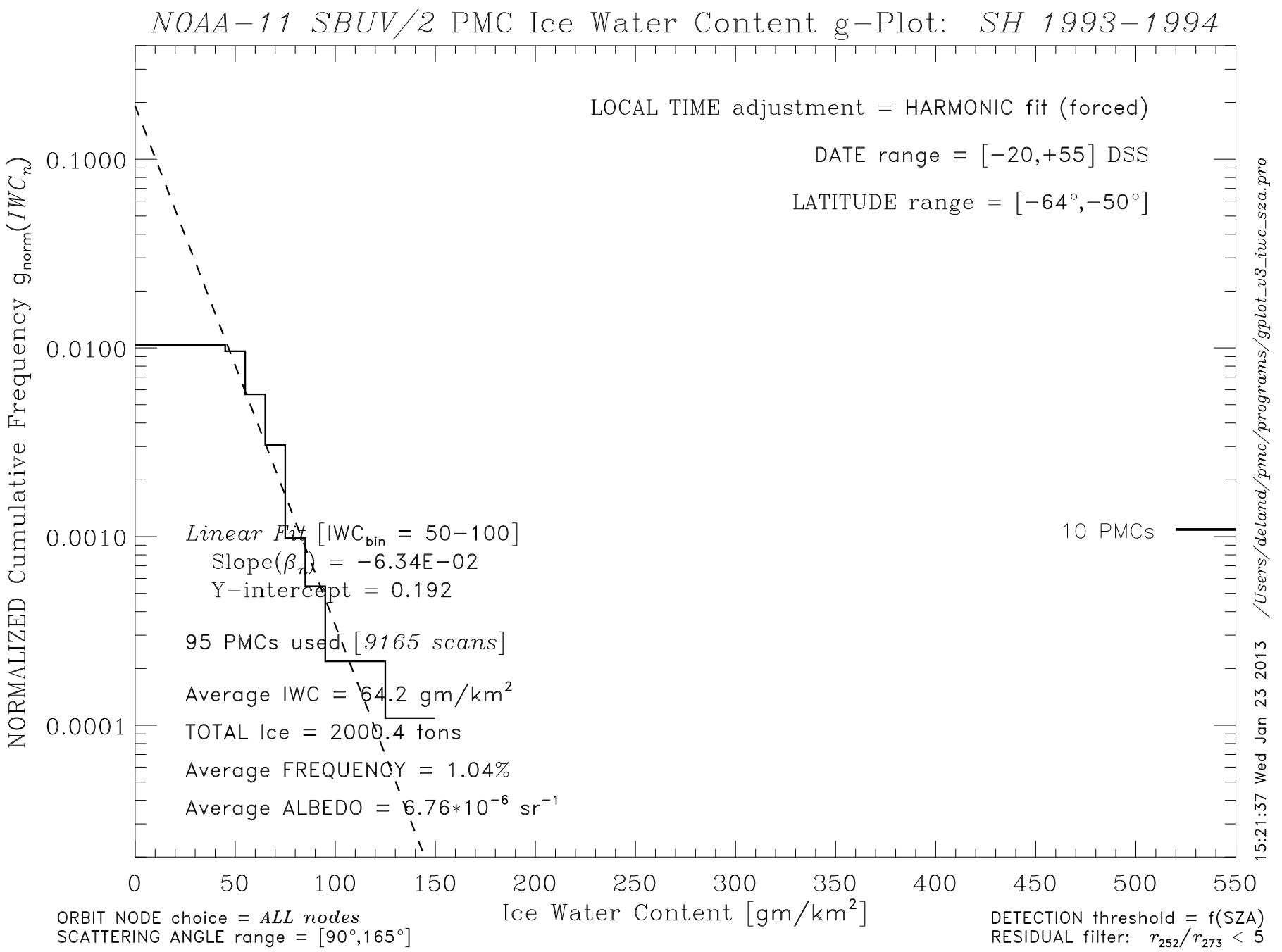

NOAA−11 SBUV/2 PMC Ice Water Content g−Plot: SH 1988−1989
LOCAL TIME adjustment = HARMONIC fit (forced)
DATE range = [−20,+55] DSS
LATITUDE range = [−64°,−50°]
NORMALIZED Cumulative Frequency $g_{norm}(IWC_n)$
0.1000
0.0100
0.0010
0.0001
Linear Fit [IWC_{bin} = 60−130]
Slope(β_n) = −2.99E−02
Y−intercept = 0.030
64 PMCs used [7616 scans]
Average IWC = 75.9 gm/km^2
TOTAL Ice = 2127.2 tons
Average FREQUENCY = 0.84%
Average ALBEDO = 7.13∗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: $r_{252}/r_{273} < 5$
15:21:33 Wed Jan 23 2013 /Users/deland/pmc/programs/gplot_v3_iwc_sza.pro

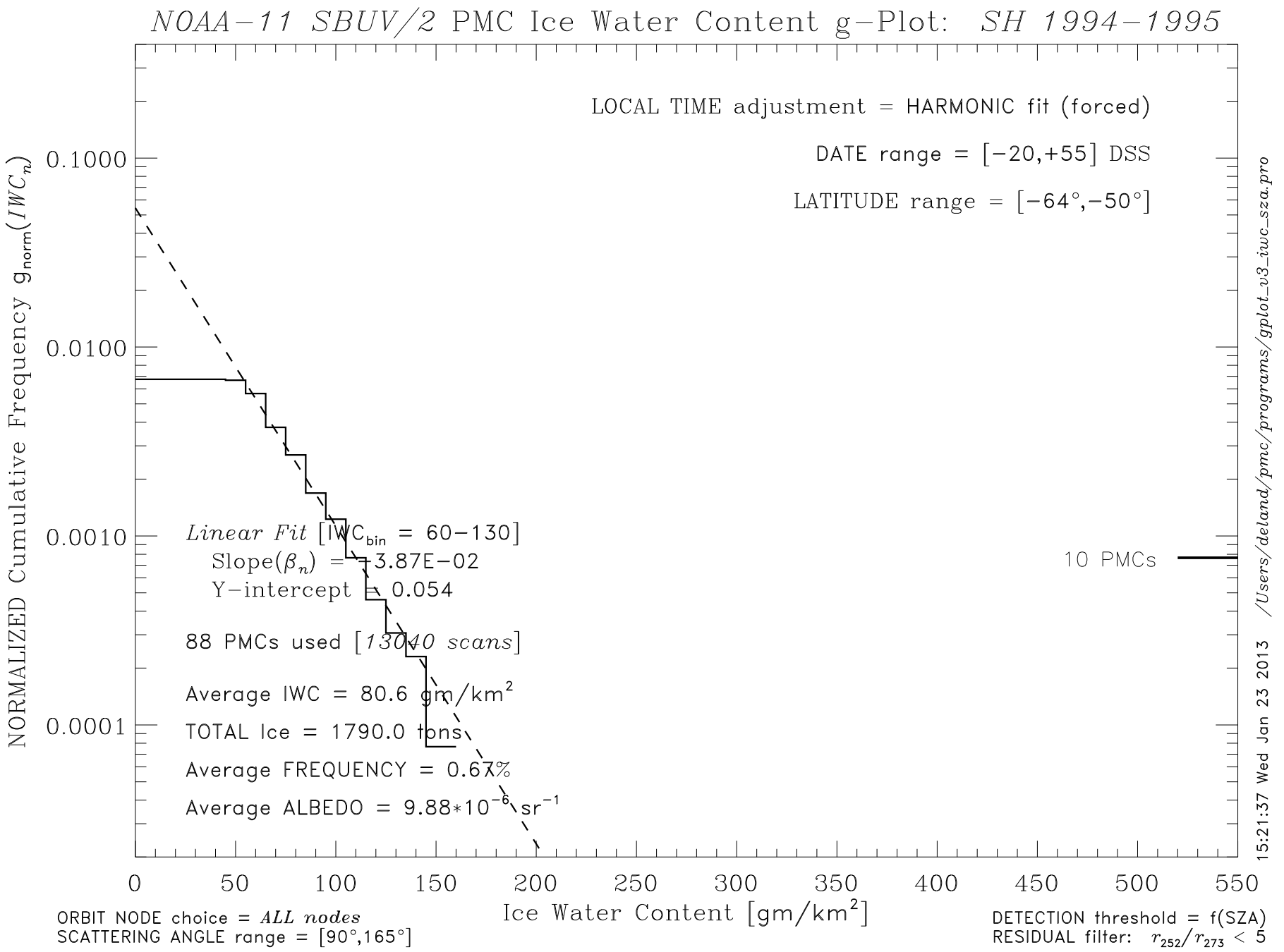

NOAA-11 SBUV/2 PMC Ice Water Content g-Plot: SH 1989-1990
LOCAL TIME adjustment = HARMONIC fit (forced)
DATE range = [-20,+55] DSS
LATITUDE range = [-64°,-50°]
NORMALIZED Cumulative Frequency $g_{norm}(IWC_n)$
0.1000
0.0100
0.0010
0.0001
10 PMCs
Linear Fit [IWC_{bin} = 60-160]
Slope(β_n) = -2.33E-02
Y-intercept = 0.021
63 PMCs used [7793 scans]
Average IWC = 82.5 gm/km^2
TOTAL Ice = 2131.2 tons
Average FREQUENCY = 0.81%
Average ALBEDO = 7.63*10^{-6} sr^{-1}
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: $r_{252}/r_{273} < 5$
15:21:34 Wed Jan 23 2013 /Users/deland/pmc/programs/gplot_v3_iwc_sza.pro

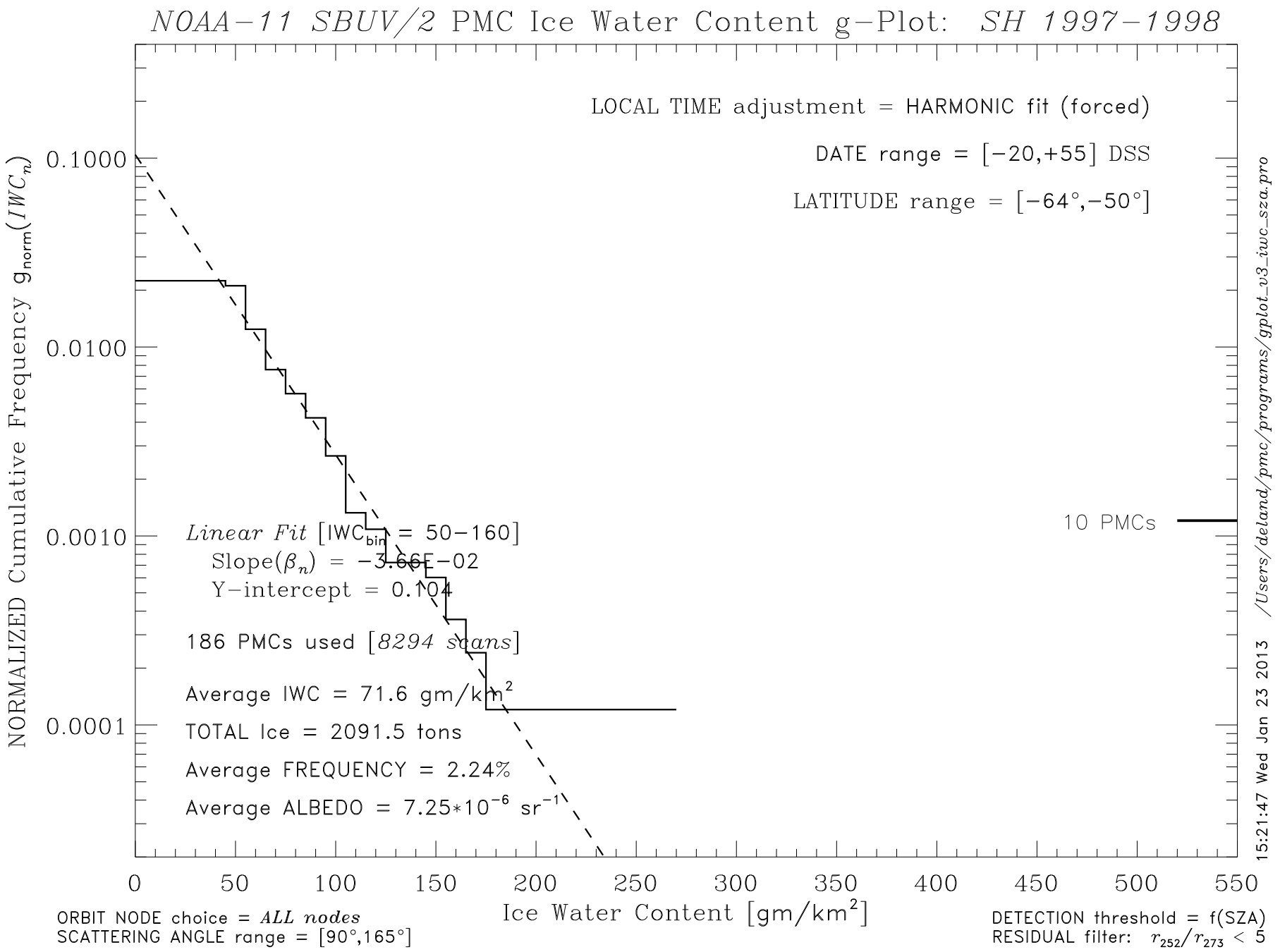

NOAA−11 SBUV/2 PMC Ice Water Content g−Plot: SH 1990−1991
LOCAL TIME adjustment = HARMONIC fit (forced)
DATE range = [−20,+55] DSS
LATITUDE range = [−64°,−50°]
NORMALIZED Cumulative Frequency $g_{norm}(IWC_n)$
0.1000
0.0100
0.0010
0.0001
10 PMCs
Linear Fit [IWC_{bin} = 60−120]
Slope(β_n) = −2.84E−02
Y−intercept = 0.019
32 PMCs used [7177 scans]
Average IWC = 82.9 gm/km^2
TOTAL Ice = 2123.8 tons
Average FREQUENCY = 0.45%
Average ALBEDO = 7.74∗10^{-6} sr^{-1}
0
50
100
150
200
250
300
350
400
450
500
550
Ice Water Content [gm/km^2]
15:21:35 Wed Jan 23 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: $r_{252}/r_{273} < 5$

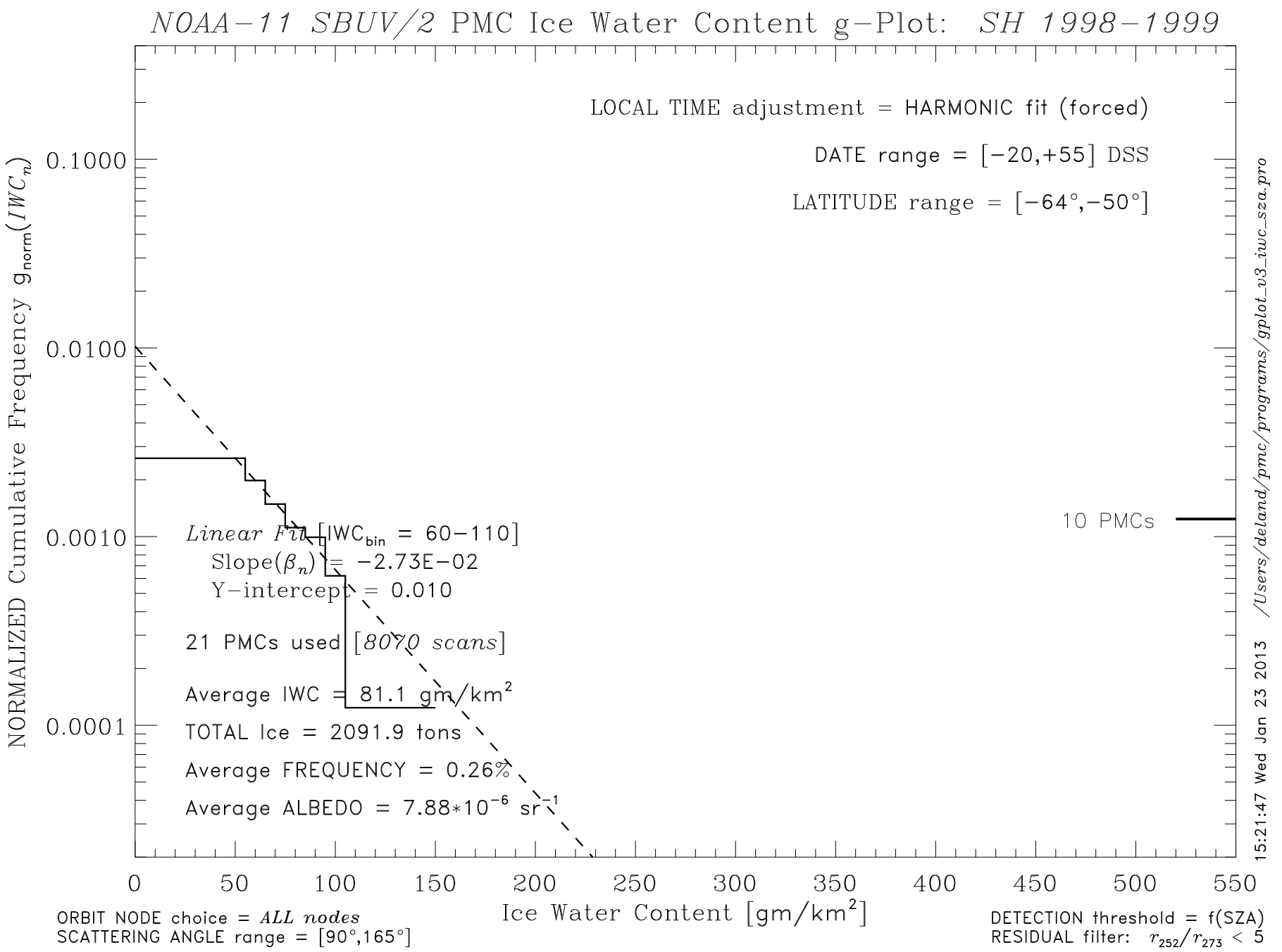

NOAA−11 SBUV/2 PMC Ice Water Content g−Plot: SH 1991−1992
LOCAL TIME adjustment = HARMONIC fit (forced)
DATE range = [−20,+55] DSS
LATITUDE range = [−64°,−50°]
NORMALIZED Cumulative Frequency $g_{norm}(IWC_n)$
0.1000
0.0100
0.0010
0.0001
10 PMCs
Linear Fit [IWC_bin = 60−110]
Slope(β_n) = −2.31E−02
Y−intercept = 0.007
17 PMCs used [7322 scans]
Average IWC = 89.0 gm/km^2
TOTAL Ice = 2105.4 tons
Average FREQUENCY = 0.23%
Average ALBEDO = 8.26*10^{-6} sr^{-1}
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: $r_{252}/r_{273} < 5$
15:21:35 Wed Jan 23 2013 /Users/deland/pmc/programs/gplot_v3_iwc_sza.pro

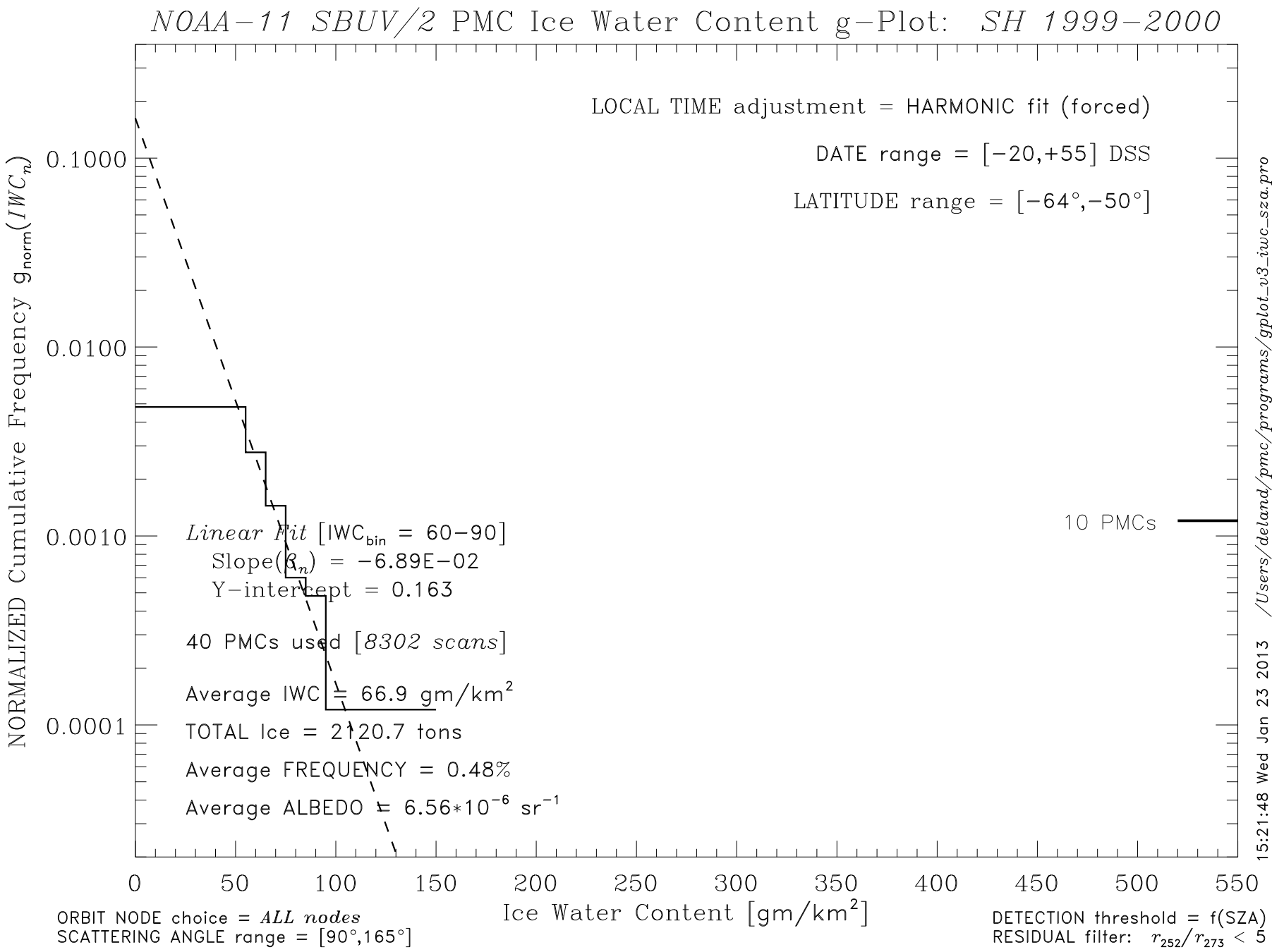

NOAA−11 SBUV/2 PMC Ice Water Content g−Plot: SH 1992−1993
LOCAL TIME adjustment = HARMONIC fit (forced)
DATE range = [−20,+55] DSS
LATITUDE range = [−64°,−50°]
NORMALIZED Cumulative Frequency $g_{norm}(IWC_n)$
0.1000
0.0100
0.0010
0.0001
Linear Fit [IWC_{bin} = 60−80]
Slope(θ_n) = −4.90E−02
Y−intercept = 0.041
24 PMCs used [7569 scans]
Average IWC = 72.1 gm/km^2
TOTAL Ice = 2084.9 tons
Average FREQUENCY = 0.32%
Average ALBEDO = 7.00*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
15:21:36 Wed Jan 23 2013 /Users/deland/pmc/programs/gplot_v3_iwc_sza.pro

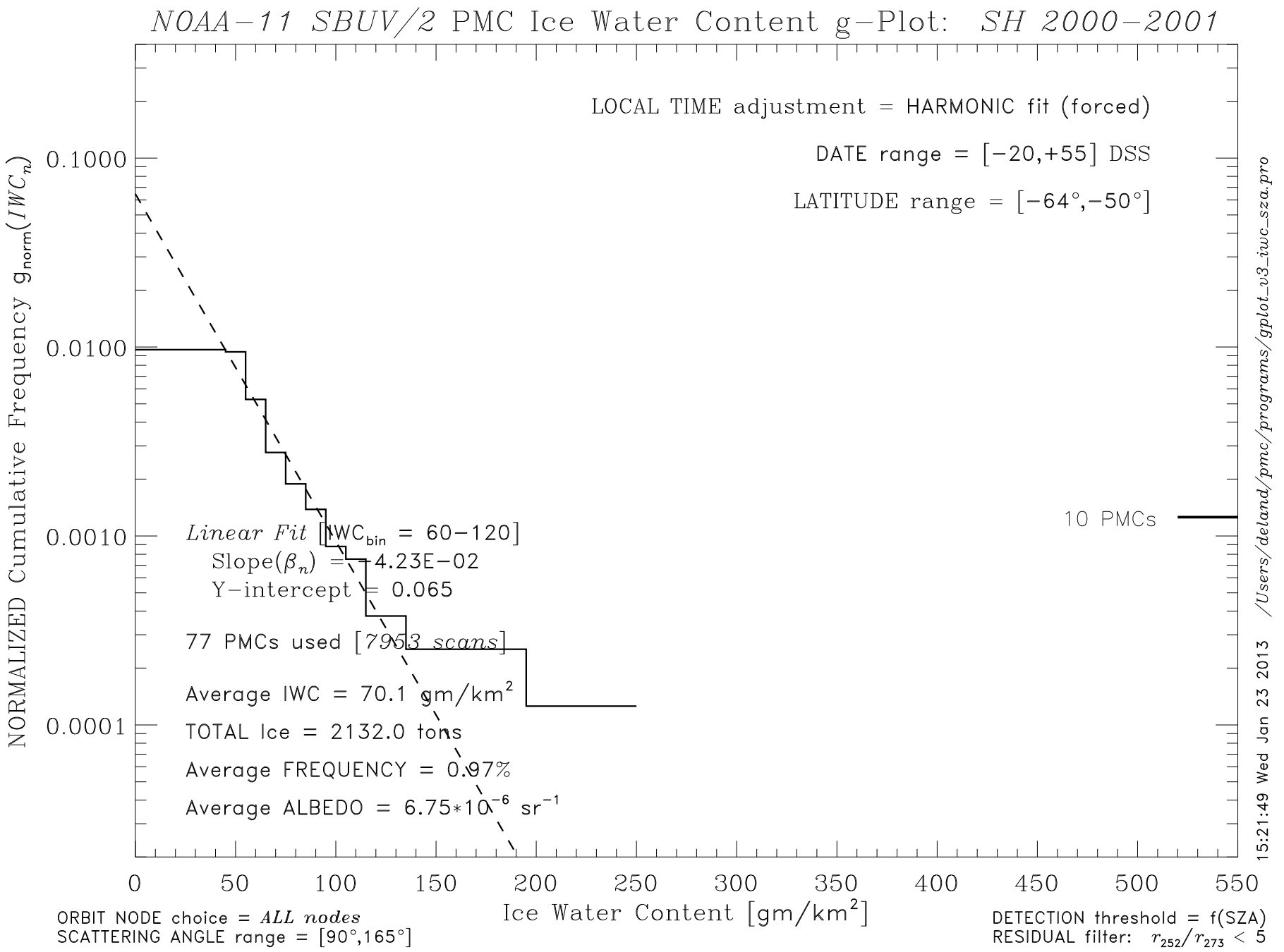

NOAA−11 SBUV/2 PMC Ice Water Content g−Plot: SH 1993−1994
LOCAL TIME adjustment = HARMONIC fit (forced)
DATE range = [−20,+55] DSS
LATITUDE range = [−64°,−50°]
NORMALIZED Cumulative Frequency $g_{norm}(IWC_n)$
0.1000
0.0100
0.0010
0.0001
Linear Fit [IWC_{bin} = 50−100]
Slope(β_n) = −6.34E−02
Y−intercept = 0.192
95 PMCs used [9165 scans]
Average IWC = 64.2 gm/km^2
TOTAL Ice = 2000.4 tons
Average FREQUENCY = 1.04%
Average ALBEDO = 6.76∗10^{-6} sr^{-1}
10 PMCs
0
50
100
150
200
250
300
350
400
450
500
550
Ice Water Content [gm/km^2]
ORBIT NODE choice = ALL nodes
SCATTERING ANGLE range = [90°,165°]
DETECTION threshold = f(SZA)
RESIDUAL filter: $r_{252}/r_{273} < 5$
15:21:37 Wed Jan 23 2013 /Users/deland/pmc/programs/gplot_v3_iwc_sza.pro

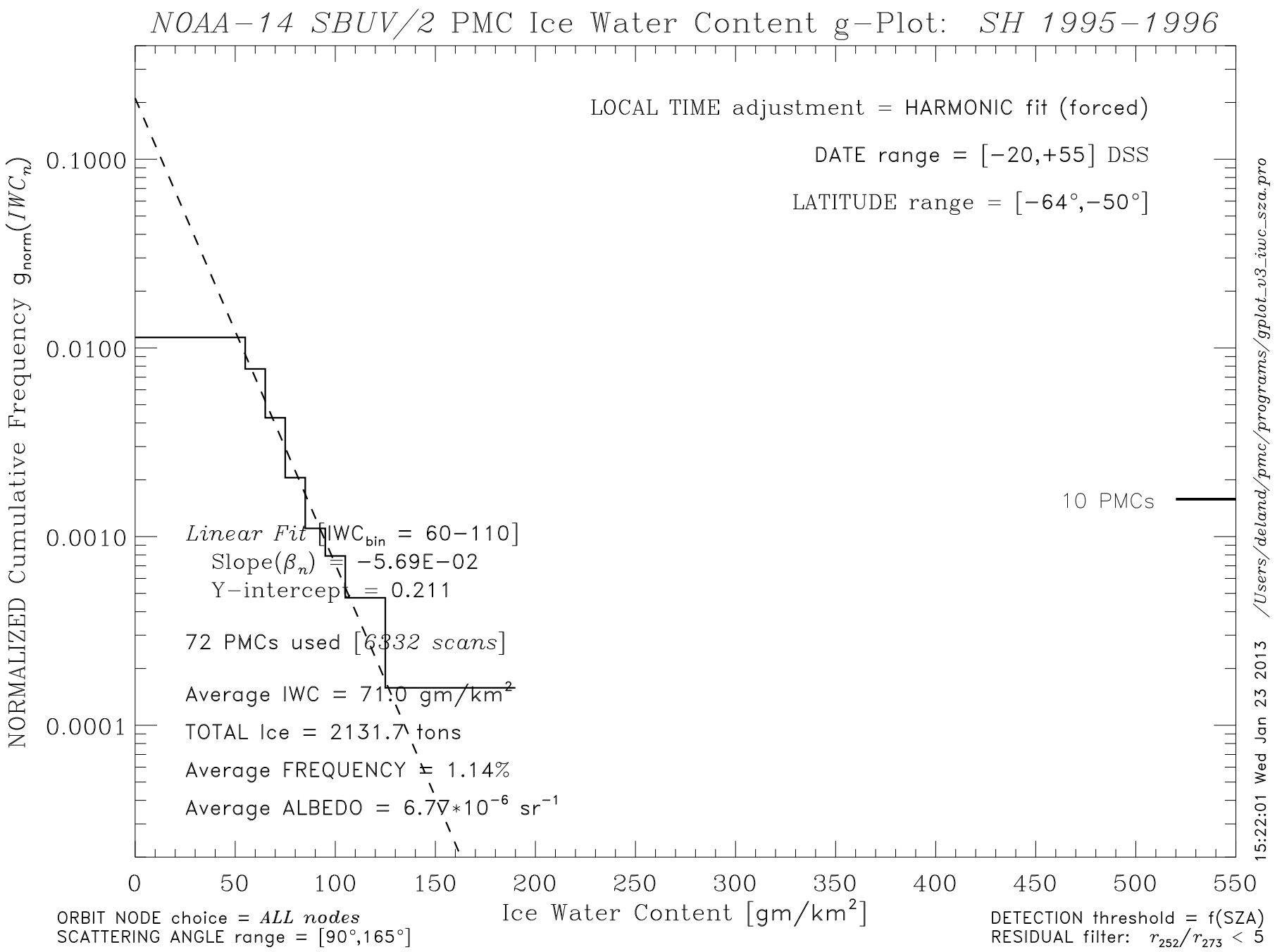

NOAA−11 SBUV/2 PMC Ice Water Content g−Plot: SH 1994−1995
LOCAL TIME adjustment = HARMONIC fit (forced)
DATE range = [−20,+55] DSS
LATITUDE range = [−64°,−50°]
NORMALIZED Cumulative Frequency $g_{norm}(IWC_n)$
0.1000
0.0100
0.0010
0.0001
Linear Fit [IWC_{bin} = 60−130]
Slope(β_n) = −3.87E−02
Y−intercept = 0.054
88 PMCs used [1304 scans]
Average IWC = 80.6 gm/km^2
TOTAL Ice = 1790.0 tons
Average FREQUENCY = 0.67%
Average ALBEDO = 9.88∗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: $r_{252}/r_{273} < 5$
15:21:37 Wed Jan 23 2013 /Users/deland/pmc/programs/gplot_v3_iwc_sza.pro

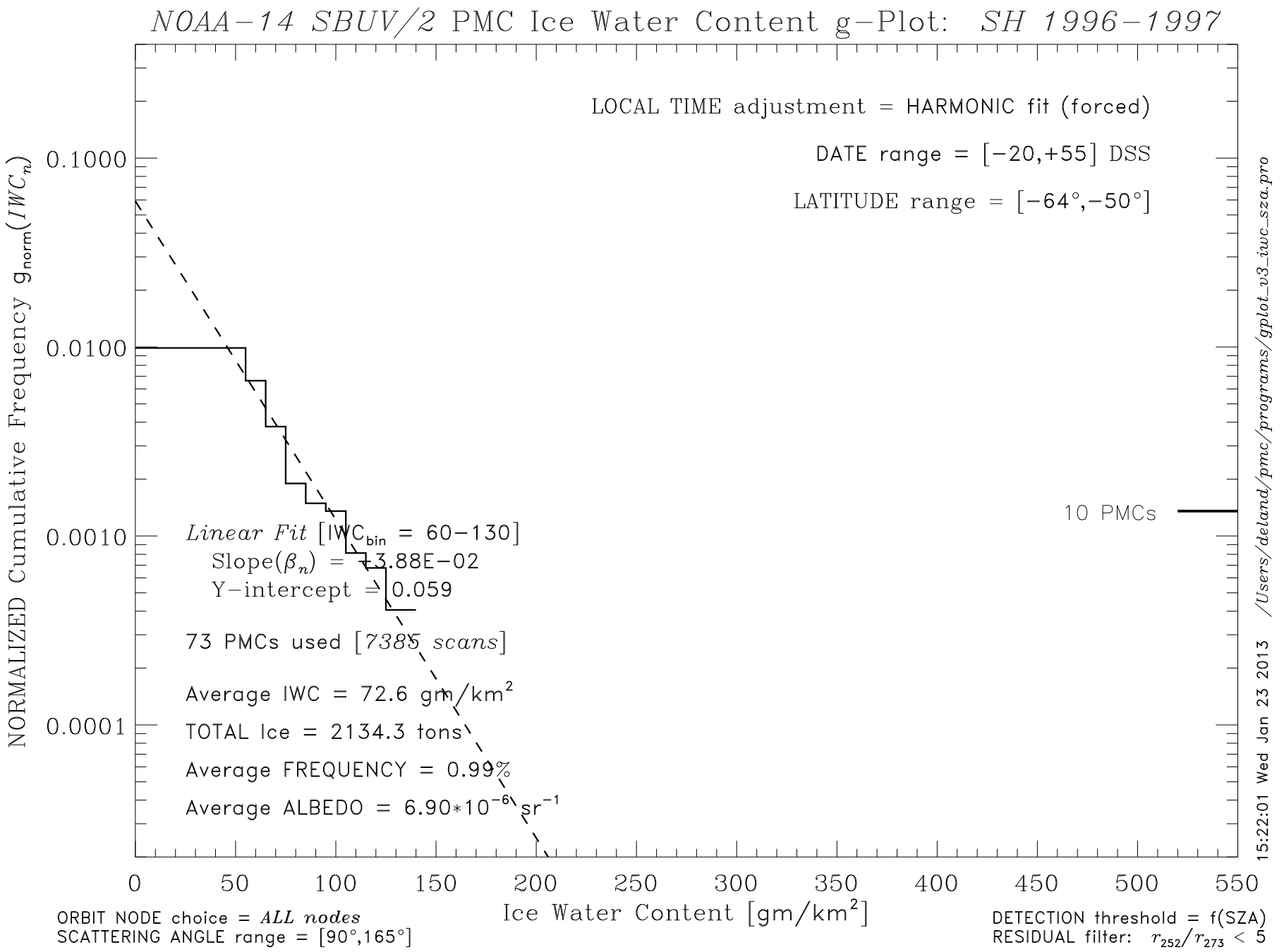

NOAA−11 SBUV/2 PMC Ice Water Content g−Plot: SH 1997−1998
LOCAL TIME adjustment = HARMONIC fit (forced)
DATE range = [−20,+55] DSS
LATITUDE range = [−64°,−50°]
NORMALIZED Cumulative Frequency $g_{norm}(IWC_n)$
0.1000
0.0100
0.0010
0.0001
Linear Fit [IWC_{bin} = 50−160]
Slope(β_n) = −3.66E−02
Y−intercept = 0.104
186 PMCs used [8294 scans]
Average IWC = 71.6 gm/km^2
TOTAL Ice = 2091.5 tons
Average FREQUENCY = 2.24%
Average ALBEDO = 7.25∗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: $r_{252}/r_{273} < 5$
15:21:47 Wed Jan 23 2013 /Users/deland/pmc/programs/gplot_v3_iwc_sza.pro

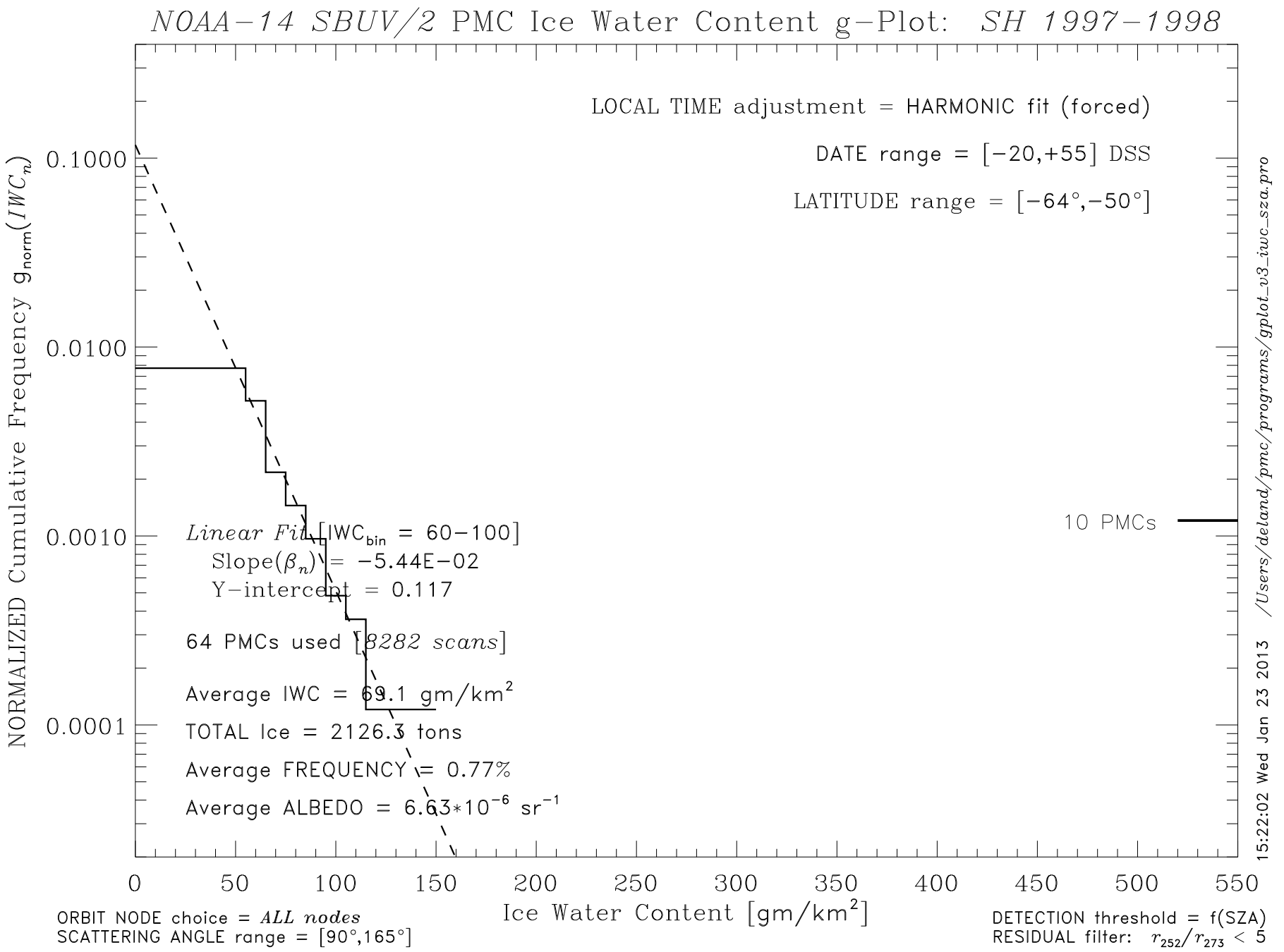

NOAA-11 SBUV/2 PMC Ice Water Content g-Plot: SH 1998-1999
LOCAL TIME adjustment = HARMONIC fit (forced)
DATE range = [-20,+55] DSS
LATITUDE range = [-64°,-50°]
NORMALIZED Cumulative Frequency $g_{norm}(IWC_n)$
0.1000
0.0100
0.0010
0.0001
Linear Fit [IWC_bin = 60-110]
Slope(β_n) = -2.73E-02
Y-intercept = 0.010
21 PMCs used [807.0 scans]
Average IWC = 81.1 gm/km^2
TOTAL Ice = 2091.9 tons
Average FREQUENCY = 0.26%
Average ALBEDO = 7.88*10^{-6} sr^{-1}
10 PMCs
0
50
100
150
200
250
300
350
400
450
500
550
Ice Water Content [gm/km^2]
15:21:47 Wed Jan 23 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: $r_{252}/r_{273} < 5$

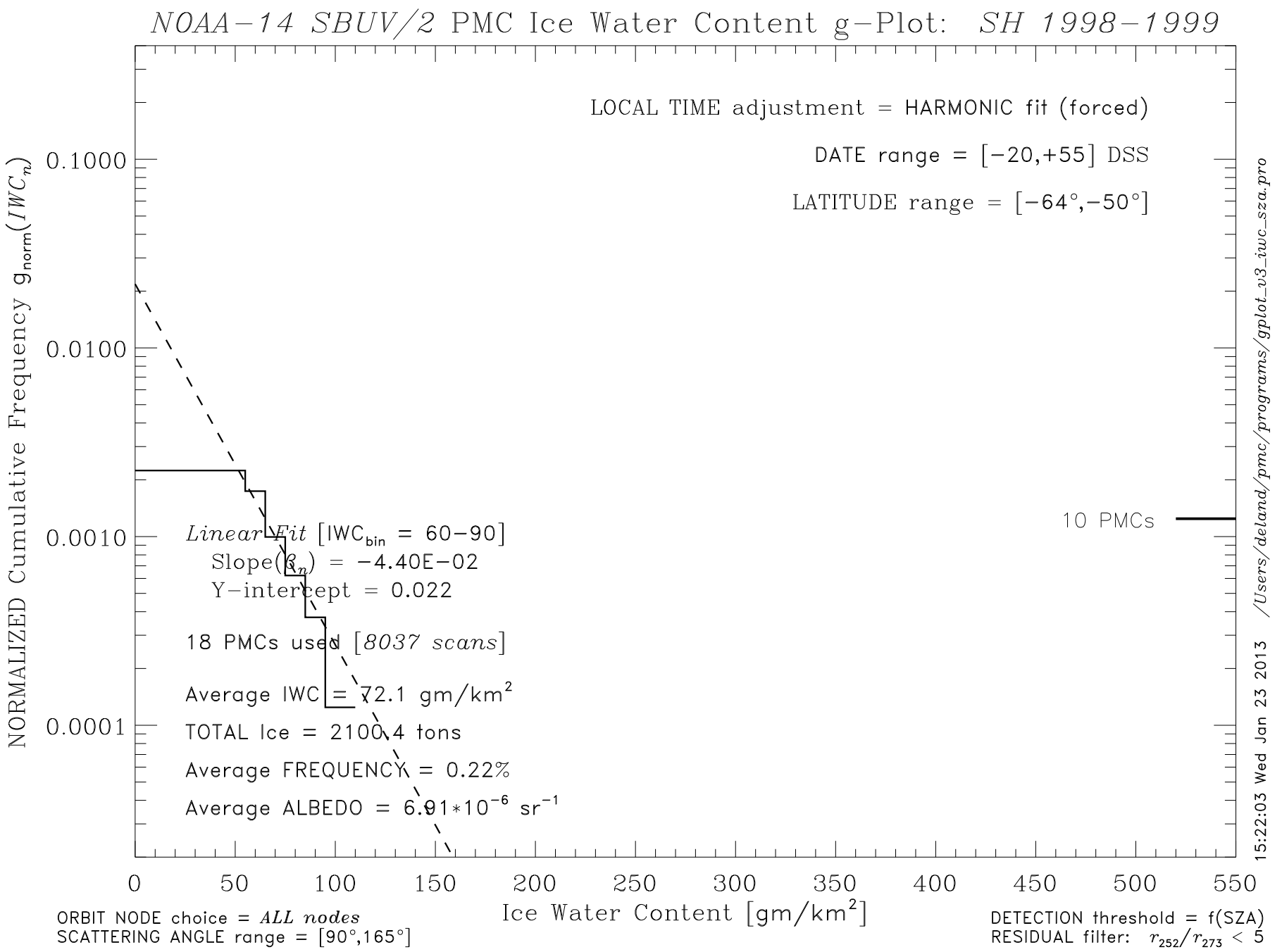

NOAA−11 SBUV/2 PMC Ice Water Content g−Plot: SH 1999−2000
LOCAL TIME adjustment = HARMONIC fit (forced)
DATE range = [−20,+55] DSS
LATITUDE range = [−64°,−50°]
NORMALIZED Cumulative Frequency $g_{norm}(IWC_n)$
0.1000
0.0100
0.0010
0.0001
10 PMCs
Linear Fit [IWC$_{bin}$ = 60−90]
Slope(β_n) = −6.89E−02
Y−intercept = 0.163
40 PMCs used [8302 scans]
Average IWC = 66.9 gm/km^2
TOTAL Ice = 2120.7 tons
Average FREQUENCY = 0.48%
Average ALBEDO = 6.56∗10^{-6} sr^{-1}
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: $r_{252}/r_{273} < 5$
15:21:48 Wed Jan 23 2013 /Users/deland/pmc/programs/gplot_v3_iwc_sza.pro

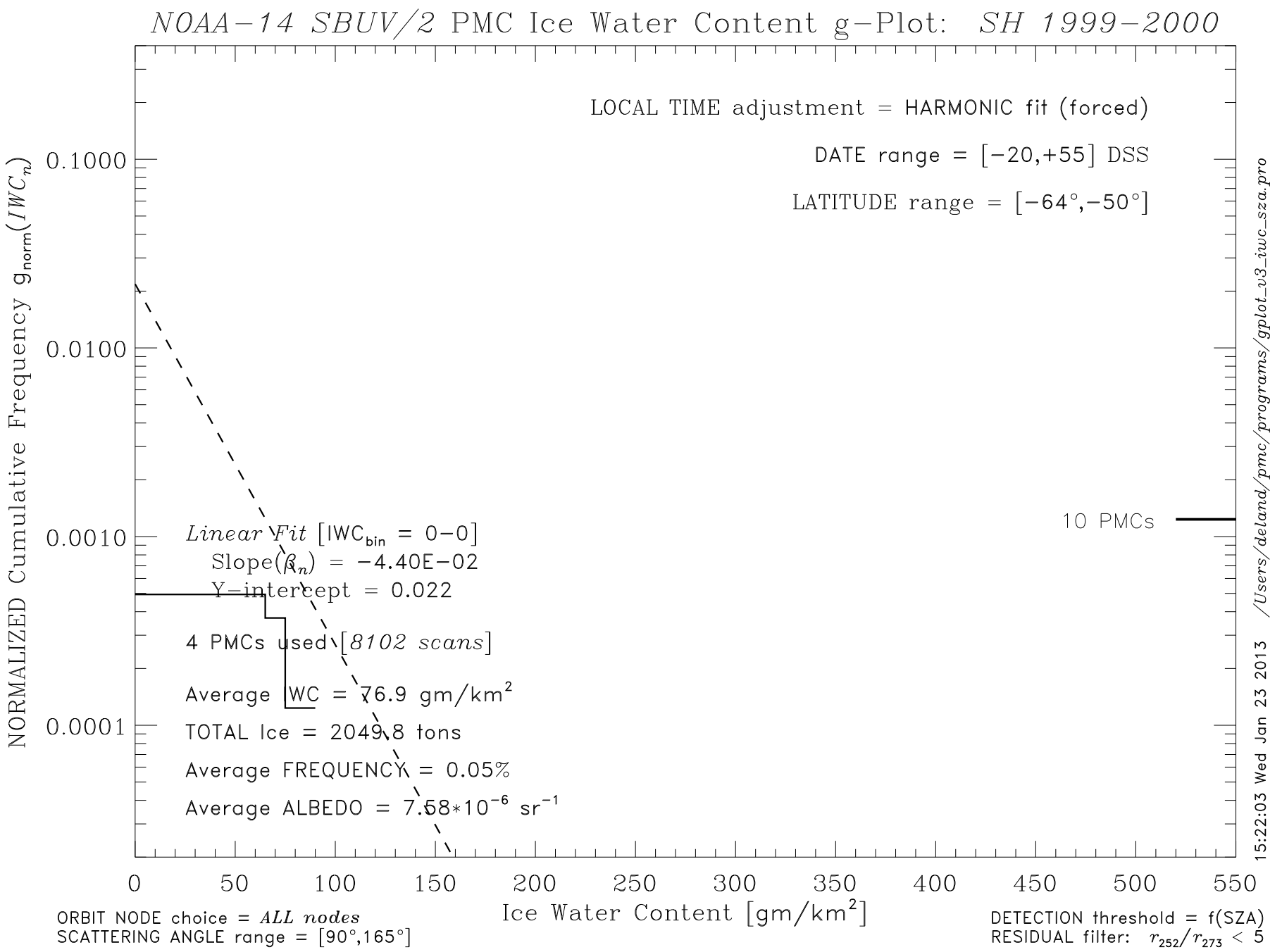

NOAA−11 SBUV/2 PMC Ice Water Content g−Plot: SH 2000−2001
LOCAL TIME adjustment = HARMONIC fit (forced)
DATE range = [−20,+55] DSS
LATITUDE range = [−64°,−50°]
NORMALIZED Cumulative Frequency $g_{norm}(IWC_n)$
0.1000
0.0100
0.0010
0.0001
10 PMCs
Linear Fit [IWC_{bin} = 60−120]
Slope(β_n) = −4.23E−02
Y−intercept = 0.065
77 PMCs used [7953 scans]
Average IWC = 70.1 gm/km^2
TOTAL Ice = 2132.0 tons
Average FREQUENCY = 0.97%
Average ALBEDO = 6.75∗10^{-6} sr^{-1}
0
50
100
150
200
250
300
350
400
450
500
550
Ice Water Content [gm/km^2]
15:21:49 Wed Jan 23 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: $r_{252}/r_{273} < 5$

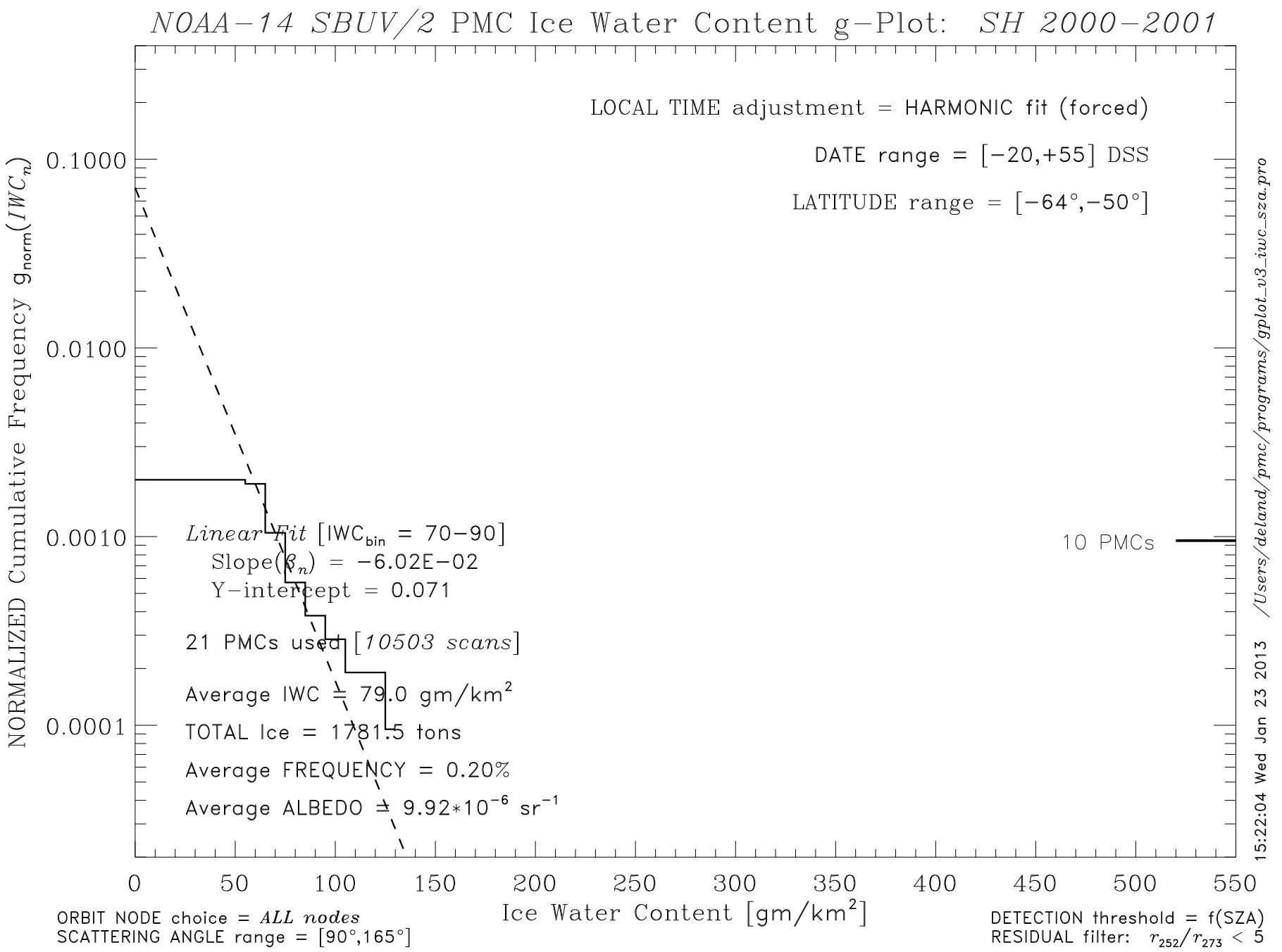

NOAA−14 SBUV/2 PMC Ice Water Content g−Plot: SH 1995−1996
LOCAL TIME adjustment = HARMONIC fit (forced)
DATE range = [−20,+55] DSS
LATITUDE range = [−64°,−50°]
10 PMCs
Linear Fit [IWC_bin = 60−110]
Slope(β_n) = −5.69E−02
Y−intercept = 0.211
72 PMCs used [6332 scans]
Average IWC = 71.0 gm/km²
TOTAL Ice = 2131.7 tons
Average FREQUENCY = 1.14%
Average ALBEDO = 6.70*10⁻⁶ sr⁻¹
NORMALIZED Cumulative Frequency g_norm(IWC_n)
0.1000
0.0100
0.0010
0.0001
0
50
100
150
200
250
300
350
400
450
500
550
Ice Water Content [gm/km²]
ORBIT NODE choice = ALL nodes
SCATTERING ANGLE range = [90°,165°]
DETECTION threshold = f(SZA)
RESIDUAL filter: r_252/r_273 < 5
15:22:01 Wed Jan 23 2013 /Users/deland/pmc/programs/gplot_v3_iwc_sza.pro

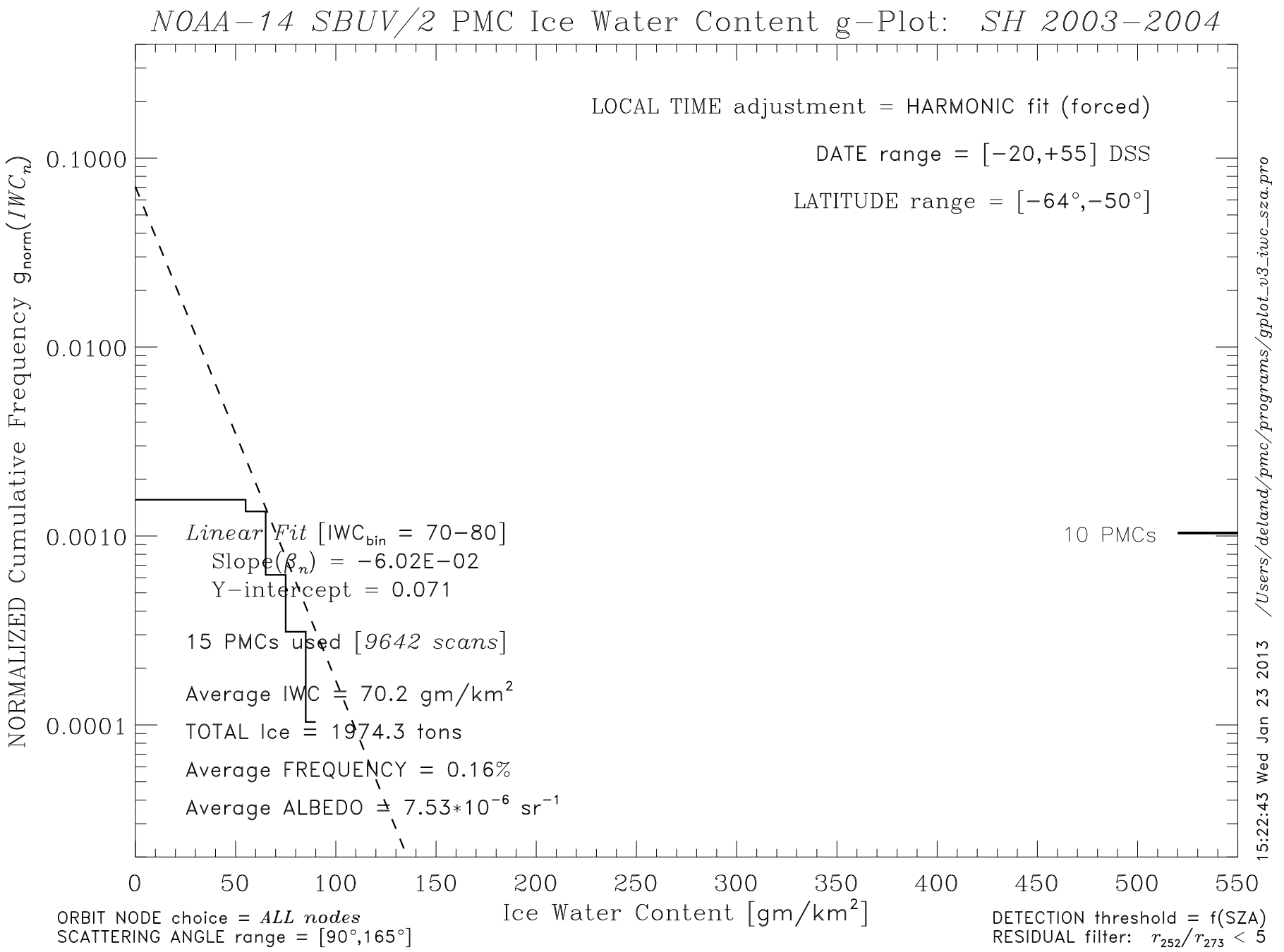

NOAA−14 SBUV/2 PMC Ice Water Content g−Plot: SH 1996−1997
LOCAL TIME adjustment = HARMONIC fit (forced)
DATE range = [−20,+55] DSS
LATITUDE range = [−64°,−50°]
NORMALIZED Cumulative Frequency $g_{norm}(IWC_n)$
0.1000
0.0100
0.0010
0.0001
Linear Fit [IWC_{bin} = 60−130]
Slope(β_n) = −3.88E−02
Y−intercept = 0.059
73 PMCs used [7385 scans]
Average IWC = 72.6 gm/km^2
TOTAL Ice = 2134.3 tons
Average FREQUENCY = 0.99%
Average ALBEDO = 6.90∗10^{-6} sr^{-1}
10 PMCs
0
50
100
150
200
250
300
350
400
450
500
550
Ice Water Content [gm/km^2]
ORBIT NODE choice = ALL nodes
SCATTERING ANGLE range = [90°,165°]
DETECTION threshold = f(SZA)
RESIDUAL filter: $r_{252}/r_{273} < 5$
15:22:01 Wed Jan 23 2013 /Users/deland/pmc/programs/gplot_v3_iwc_sza.pro

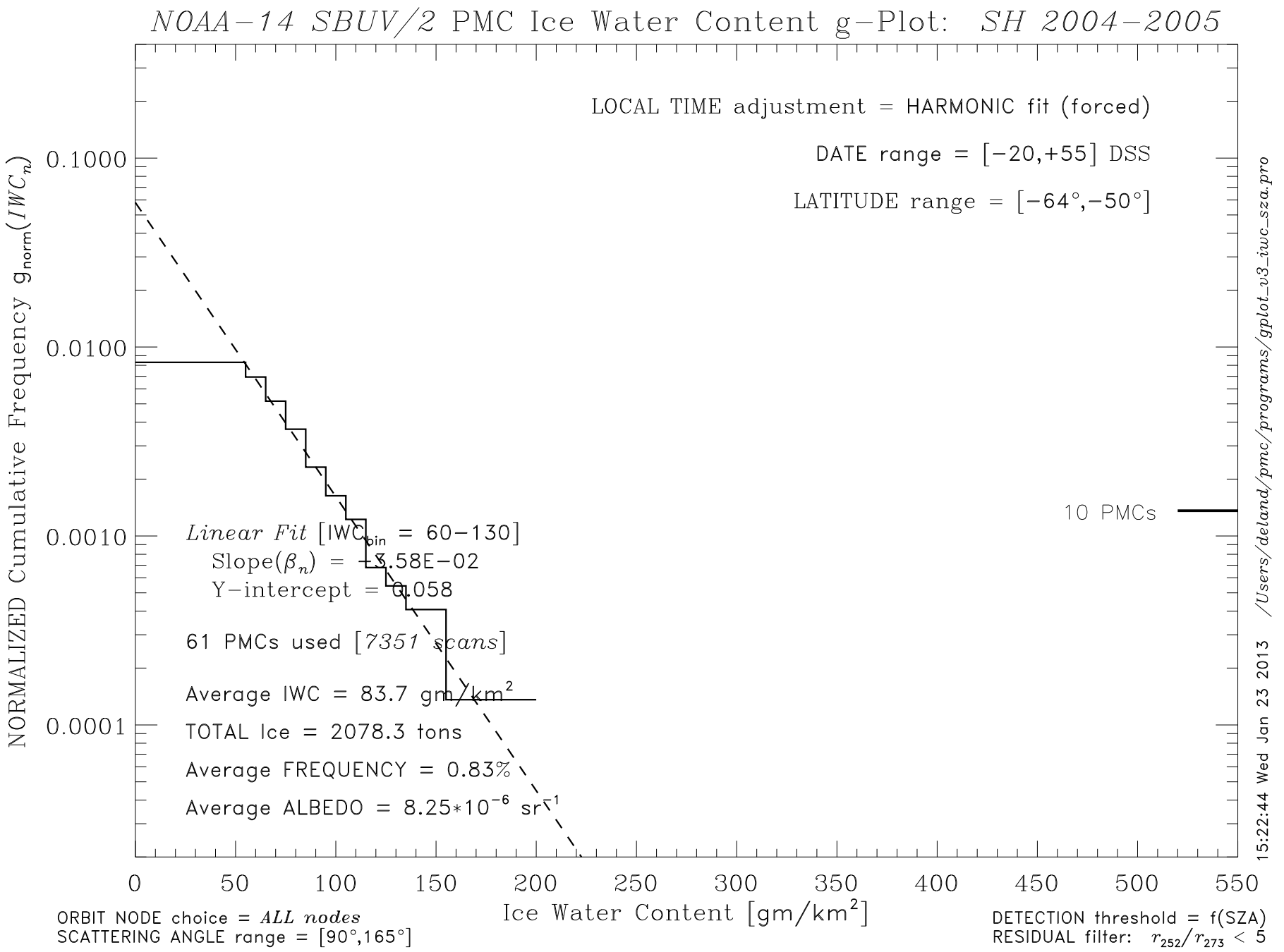

NOAA−14 SBUV/2 PMC Ice Water Content g−Plot: SH 1997−1998
LOCAL TIME adjustment = HARMONIC fit (forced)
DATE range = [−20,+55] DSS
LATITUDE range = [−64°,−50°]
NORMALIZED Cumulative Frequency $g_{norm}(IWC_n)$
0.1000
0.0100
0.0010
0.0001
Linear Fit [IWC_{bin} = 60−100]
Slope(β_n) = −5.44E−02
Y−intercept = 0.117
64 PMCs used [8282 scans]
Average IWC = 69.1 gm/km^2
TOTAL Ice = 2126.3 tons
Average FREQUENCY = 0.77%
Average ALBEDO = 6.63∗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: $r_{252}/r_{273} < 5$
15:22:02 Wed Jan 23 2013 /Users/deland/pmc/programs/gplot_v3_iwc_sza.pro

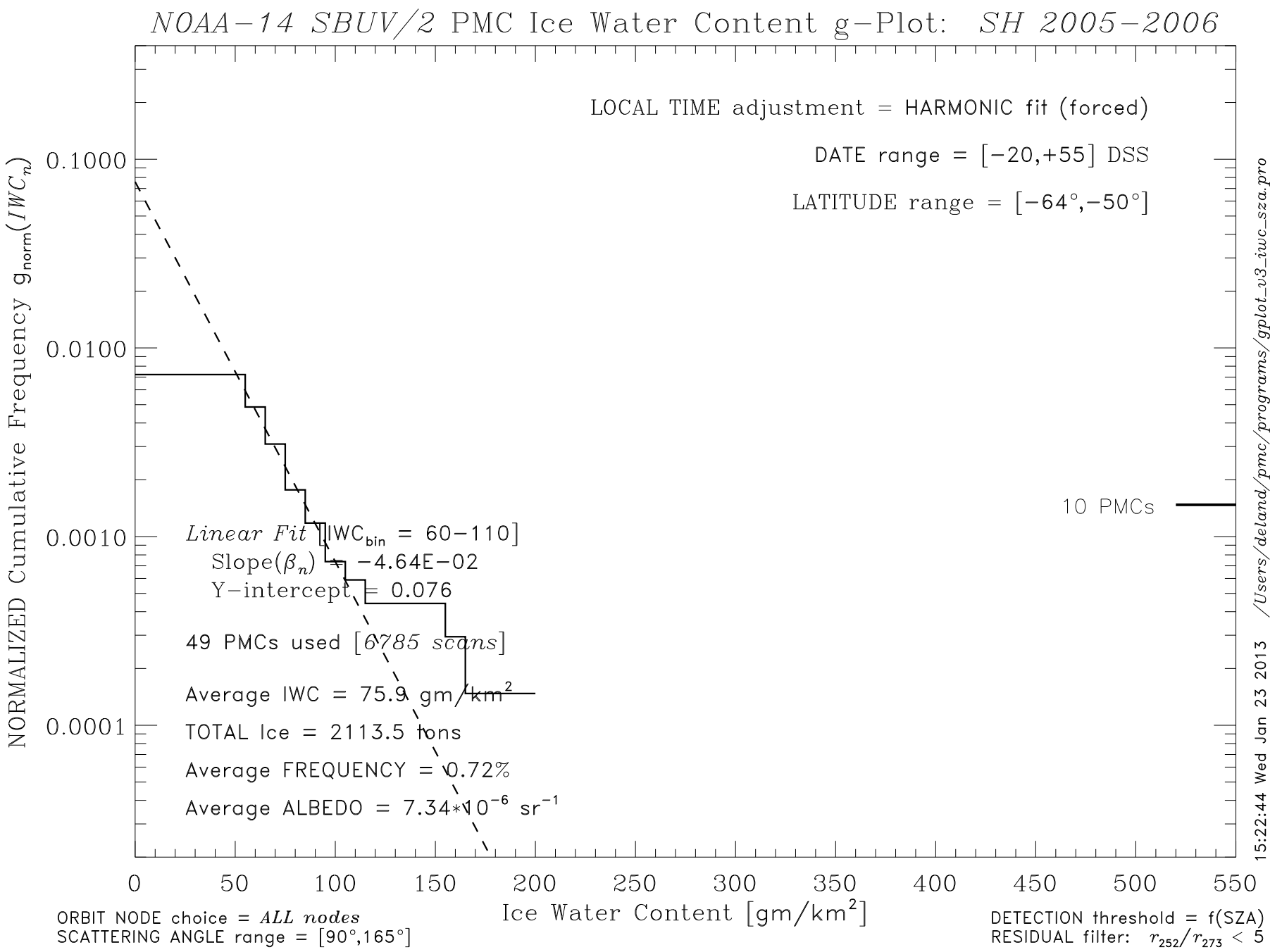

NOAA−14 SBUV/2 PMC Ice Water Content g−Plot: SH 1998−1999
LOCAL TIME adjustment = HARMONIC fit (forced)
DATE range = [−20,+55] DSS
LATITUDE range = [−64°,−50°]
NORMALIZED Cumulative Frequency $g_{norm}(IWC_n)$
0.1000
0.0100
0.0010
0.0001
Linear Fit [IWC_{bin} = 60−90]
Slope(β_n) = −4.40E−02
Y−intercept = 0.022
18 PMCs used [8037 scans]
Average IWC = 72.1 gm/km^2
TOTAL Ice = 2100.4 tons
Average FREQUENCY = 0.22%
Average ALBEDO = 6.91∗10^{-6} sr^{-1}
10 PMCs
0
50
100
150
200
250
300
350
400
450
500
550
Ice Water Content [gm/km^2]
ORBIT NODE choice = ALL nodes
SCATTERING ANGLE range = [90°,165°]
DETECTION threshold = f(SZA)
RESIDUAL filter: $r_{252}/r_{273} < 5$
15:22:03 Wed Jan 23 2013 /Users/deland/pmc/programs/gplot_v3_iwc_sza.pro

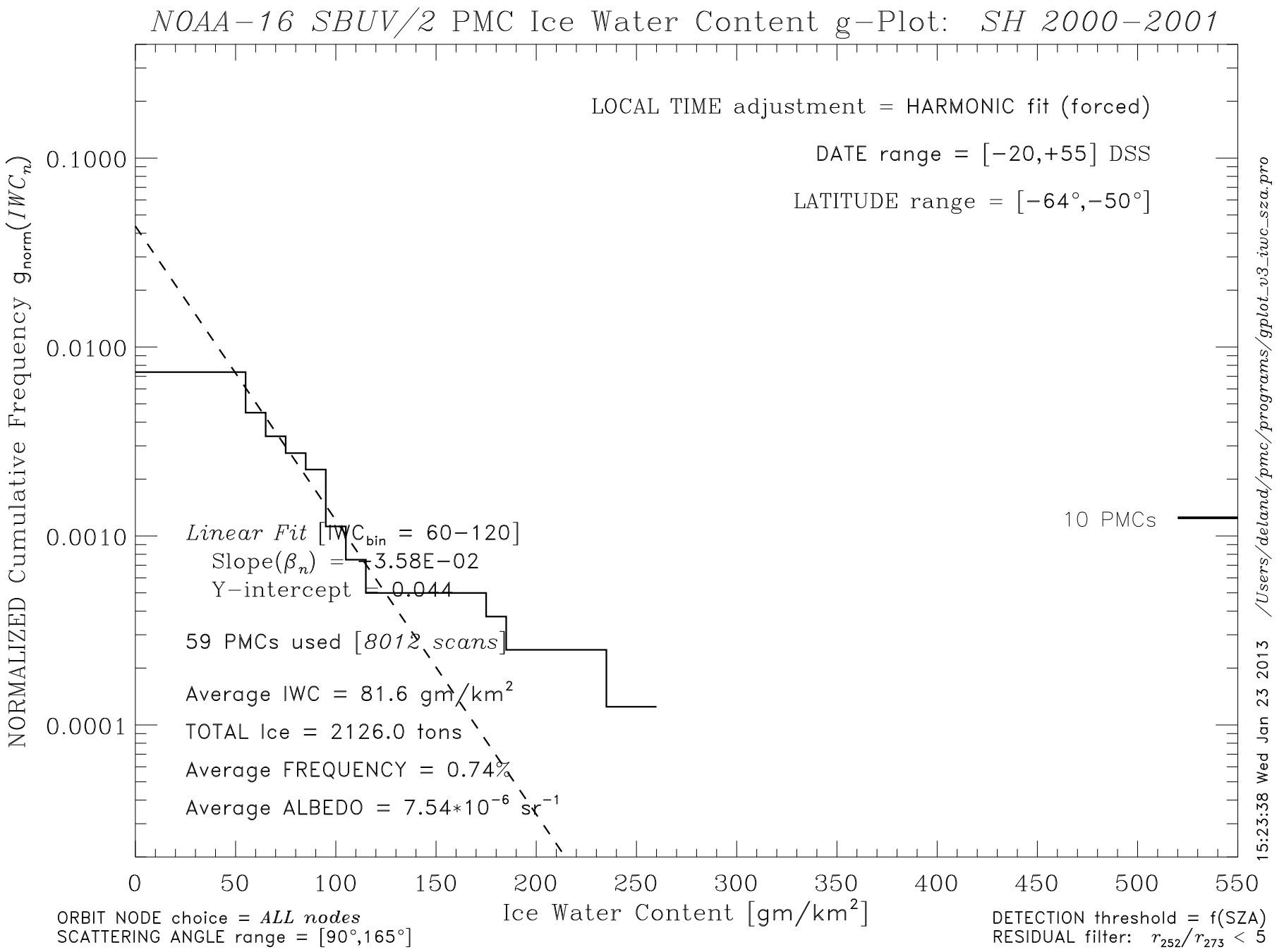

NOAA−14 SBUV/2 PMC Ice Water Content g−Plot: SH 1999−2000
LOCAL TIME adjustment = HARMONIC fit (forced)
DATE range = [−20,+55] DSS
LATITUDE range = [−64°,−50°]
NORMALIZED Cumulative Frequency $g_{norm}(IWC_n)$
0.1000
0.0100
0.0010
0.0001
Linear Fit [IWC_bin = 0−0]
Slope(β_n) = −4.40E−02
Y−intercept = 0.022
4 PMCs used [8102 scans]
Average IWC = 76.9 gm/km²
TOTAL Ice = 2049.8 tons
Average FREQUENCY = 0.05%
Average ALBEDO = 7.58*10⁻⁶ sr⁻¹
10 PMCs
0
50
100
150
200
250
300
350
400
450
500
550
Ice Water Content [gm/km²]
ORBIT NODE choice = ALL nodes
SCATTERING ANGLE range = [90°,165°]
DETECTION threshold = f(SZA)
RESIDUAL filter: $r_{252}/r_{273} < 5$
15:22:03 Wed Jan 23 2013 /Users/deland/pmc/programs/gplot_v3_iwc_sza.pro

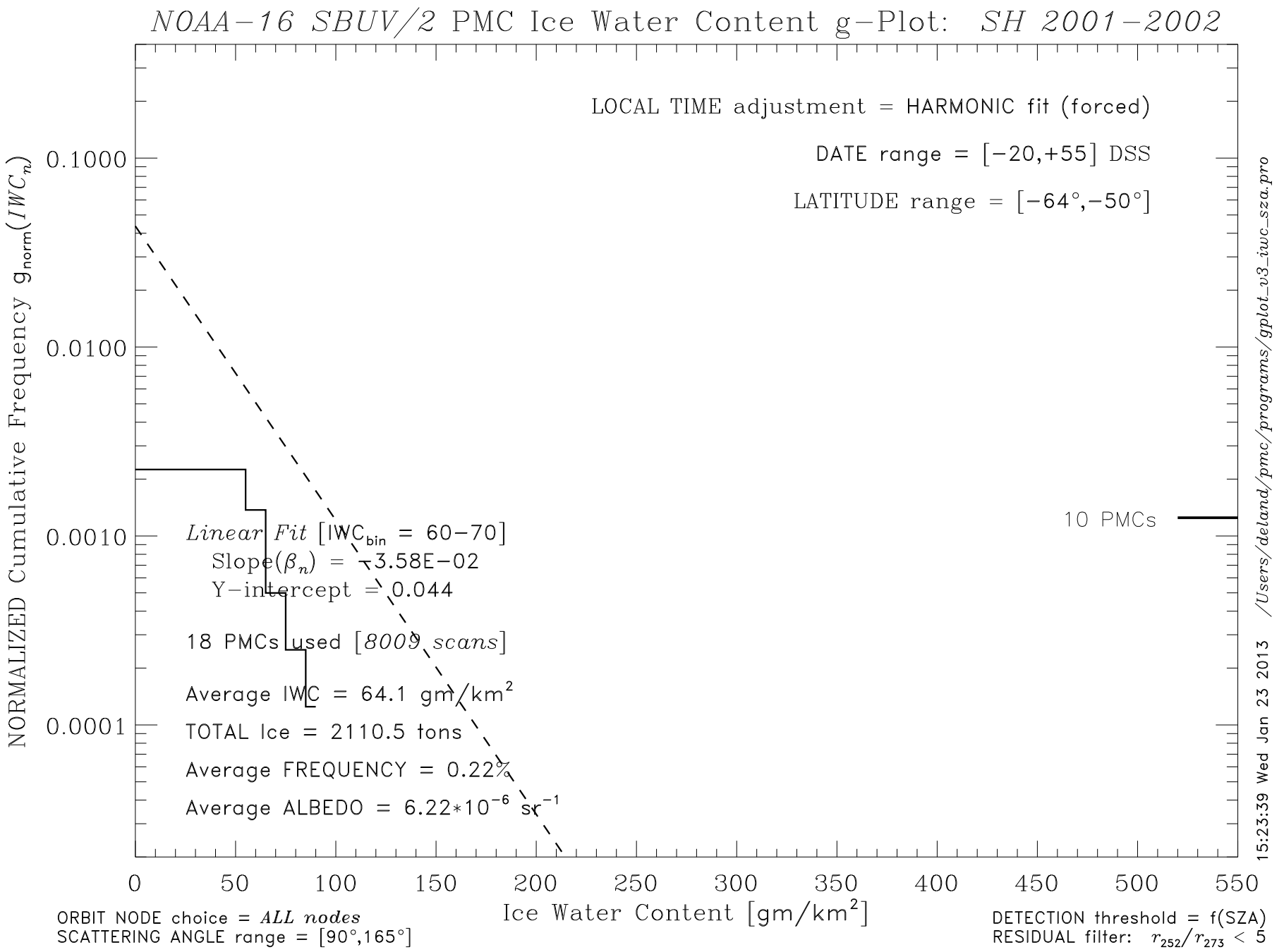

NOAA−14 SBUV/2 PMC Ice Water Content g−Plot: SH 2000−2001
LOCAL TIME adjustment = HARMONIC fit (forced)
DATE range = [−20,+55] DSS
LATITUDE range = [−64°,−50°]
NORMALIZED Cumulative Frequency $g_{norm}(IWC_n)$
0.1000
0.0100
0.0010
0.0001
Linear Fit [IWC$_{bin}$ = 70−90]
Slope(β_n) = −6.02E−02
Y−intercept = 0.071
21 PMCs used [10503 scans]
Average IWC = 79.0 gm/km^2
TOTAL Ice = 1781.5 tons
Average FREQUENCY = 0.20%
Average ALBEDO = 9.92∗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: $r_{252}/r_{273} < 5$
15:22:04 Wed Jan 23 2013 /Users/deland/pmc/programs/gplot_v3_iwc_sza.pro

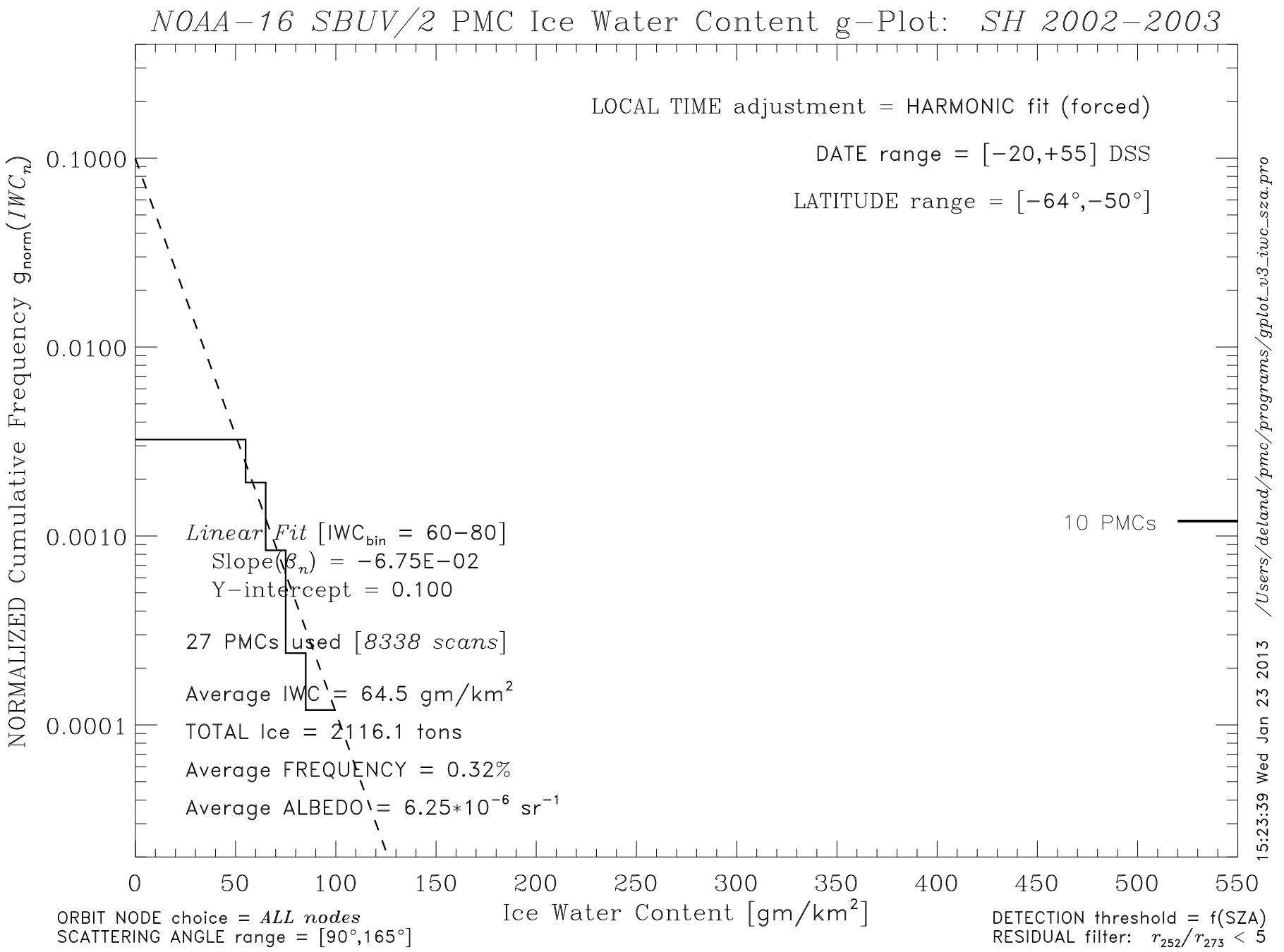

NOAA−14 SBUV/2 PMC Ice Water Content g−Plot: SH 2003−2004
LOCAL TIME adjustment = HARMONIC fit (forced)
DATE range = [−20,+55] DSS
LATITUDE range = [−64°,−50°]
NORMALIZED Cumulative Frequency $g_{norm}(IWC_n)$
0.1000
0.0100
0.0010
0.0001
Linear Fit [IWC_{bin} = 70−80]
Slope(β_n) = −6.02E−02
Y−intercept = 0.071
15 PMCs used [9642 scans]
Average IWC = 70.2 gm/km^2
TOTAL Ice = 1974.3 tons
Average FREQUENCY = 0.16%
Average ALBEDO = 7.53∗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: $r_{252}/r_{273} < 5$
15:22:43 Wed Jan 23 2013 /Users/deland/pmc/programs/gplot_v3_iwc_sza.pro

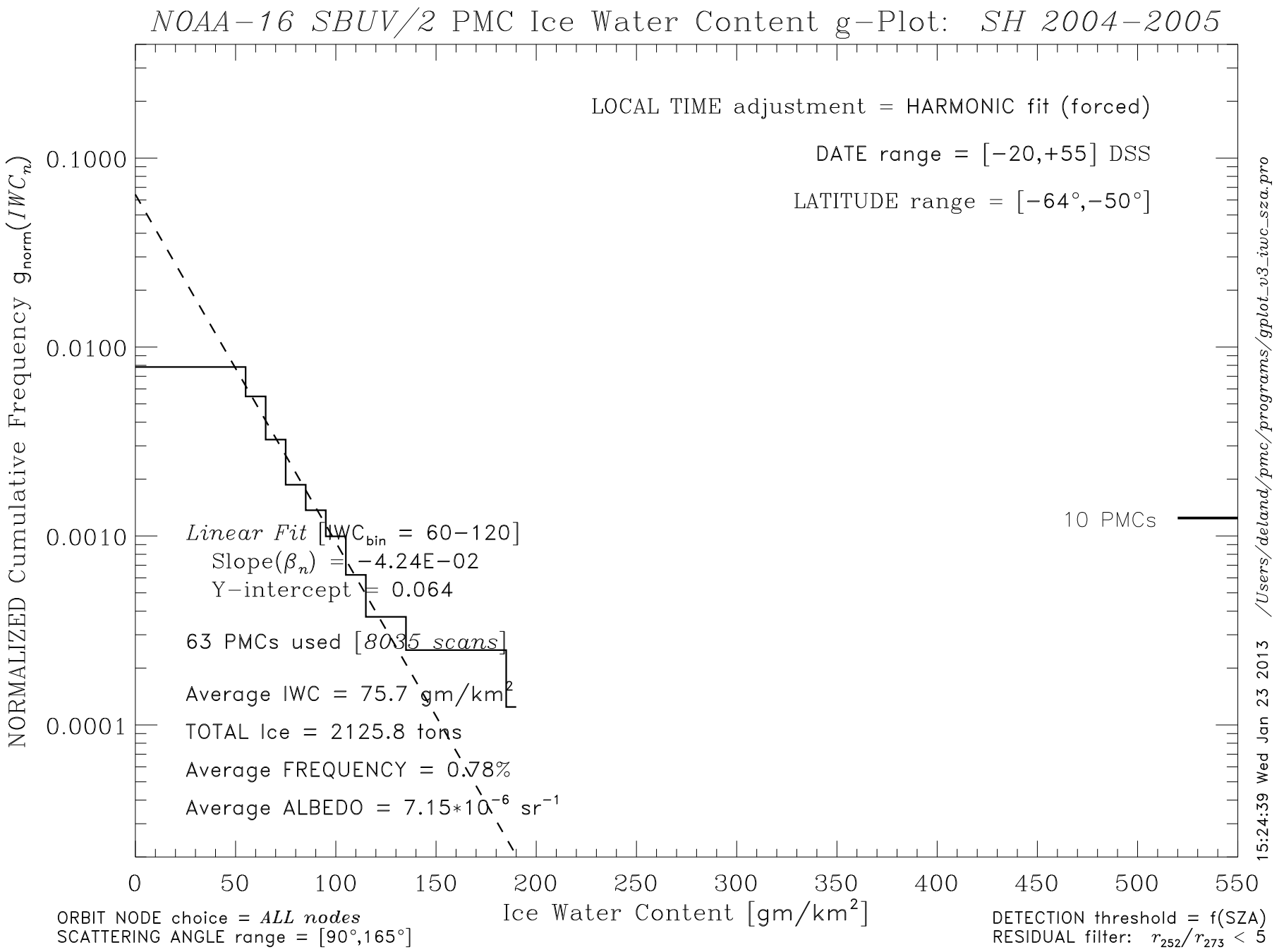

NOAA−14 SBUV/2 PMC Ice Water Content g−Plot: SH 2004−2005
LOCAL TIME adjustment = HARMONIC fit (forced)
DATE range = [−20,+55] DSS
LATITUDE range = [−64°,−50°]
NORMALIZED Cumulative Frequency $g_{norm}(IWC_n)$
0.1000
0.0100
0.0010
0.0001
Linear Fit [IWC_{bin} = 60−130]
Slope(β_n) = −3.58E−02
Y−intercept = 0.058
61 PMCs used [7351 scans]
Average IWC = 83.7 gm/km^2
TOTAL Ice = 2078.3 tons
Average FREQUENCY = 0.83%
Average ALBEDO = 8.25∗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: $r_{252}/r_{273} < 5$
15:22:44 Wed Jan 23 2013 /Users/deland/pmc/programs/gplot_v3_iwc_sza.pro

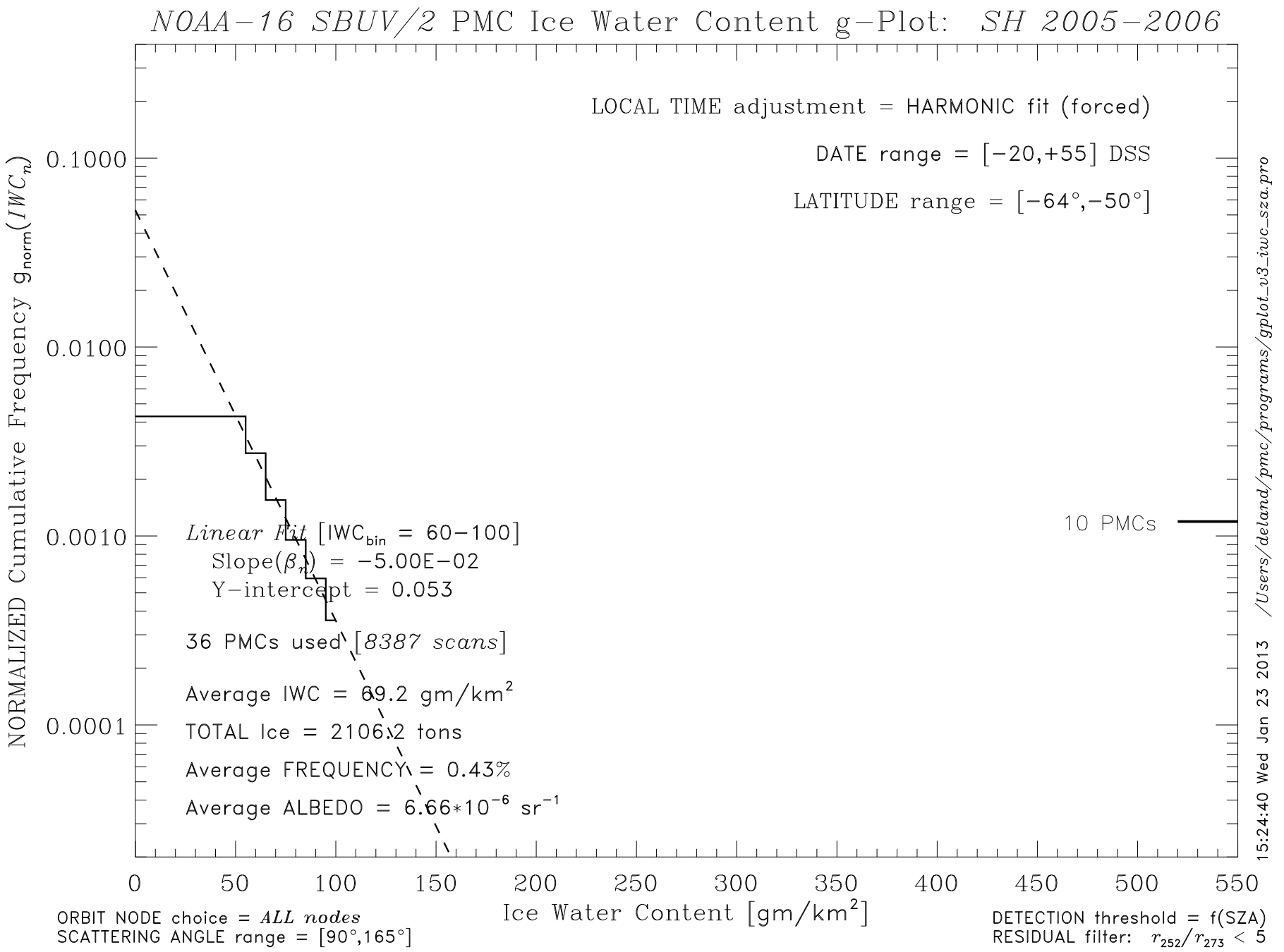

NOAA−14 SBUV/2 PMC Ice Water Content g−Plot: SH 2005−2006
LOCAL TIME adjustment = HARMONIC fit (forced)
DATE range = [−20,+55] DSS
LATITUDE range = [−64°,−50°]
NORMALIZED Cumulative Frequency $g_{norm}(IWC_n)$
0.1000
0.0100
0.0010
0.0001
Linear Fit [IWC$_{bin}$ = 60−110]
Slope(β_n) = −4.64E−02
Y−intercept = 0.076
49 PMCs used [6785 scans]
Average IWC = 75.9 gm/km^2
TOTAL Ice = 2113.5 tons
Average FREQUENCY = 0.72%
Average ALBEDO = 7.34*10^{-6} sr^{-1}
10 PMCs
0
50
100
150
200
250
300
350
400
450
500
550
Ice Water Content [gm/km^2]
15:22:44 Wed Jan 23 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: $r_{252}/r_{273} < 5$

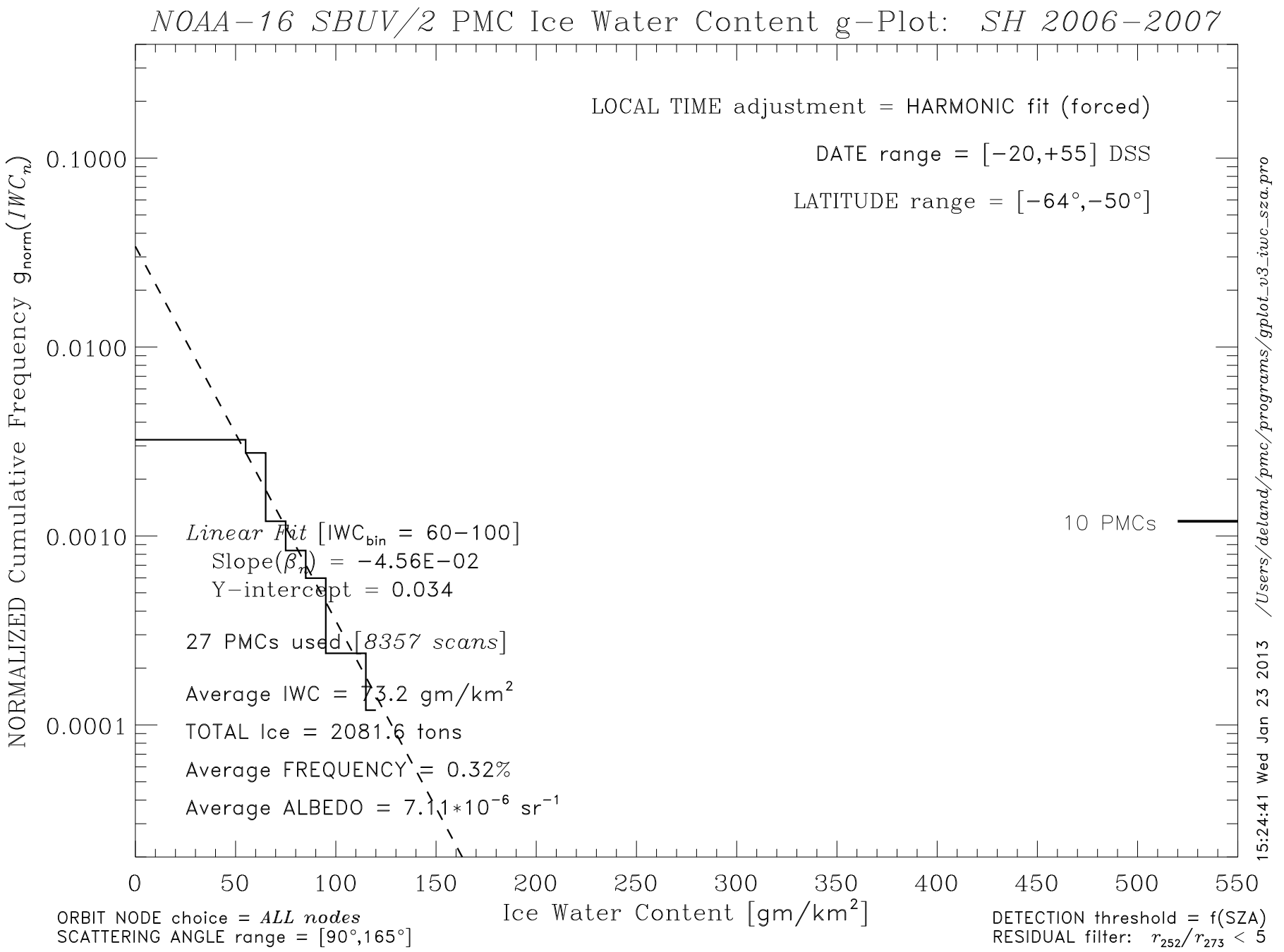

NOAA−16 SBUV/2 PMC Ice Water Content g−Plot: SH 2000−2001
LOCAL TIME adjustment = HARMONIC fit (forced)
DATE range = [−20,+55] DSS
LATITUDE range = [−64°,−50°]
NORMALIZED Cumulative Frequency $g_{norm}(IWC_n)$
0.1000
0.0100
0.0010
0.0001
Linear Fit [IWC_{bin} = 60−120]
Slope(β_n) = −3.58E−02
Y−intercept = 0.044
59 PMCs used [8012 scans]
Average IWC = 81.6 gm/km^2
TOTAL Ice = 2126.0 tons
Average FREQUENCY = 0.74%
Average ALBEDO = 7.54∗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: $r_{252}/r_{273} < 5$
15:23:38 Wed Jan 23 2013 /Users/deland/pmc/programs/gplot_v3_iwc_sza.pro

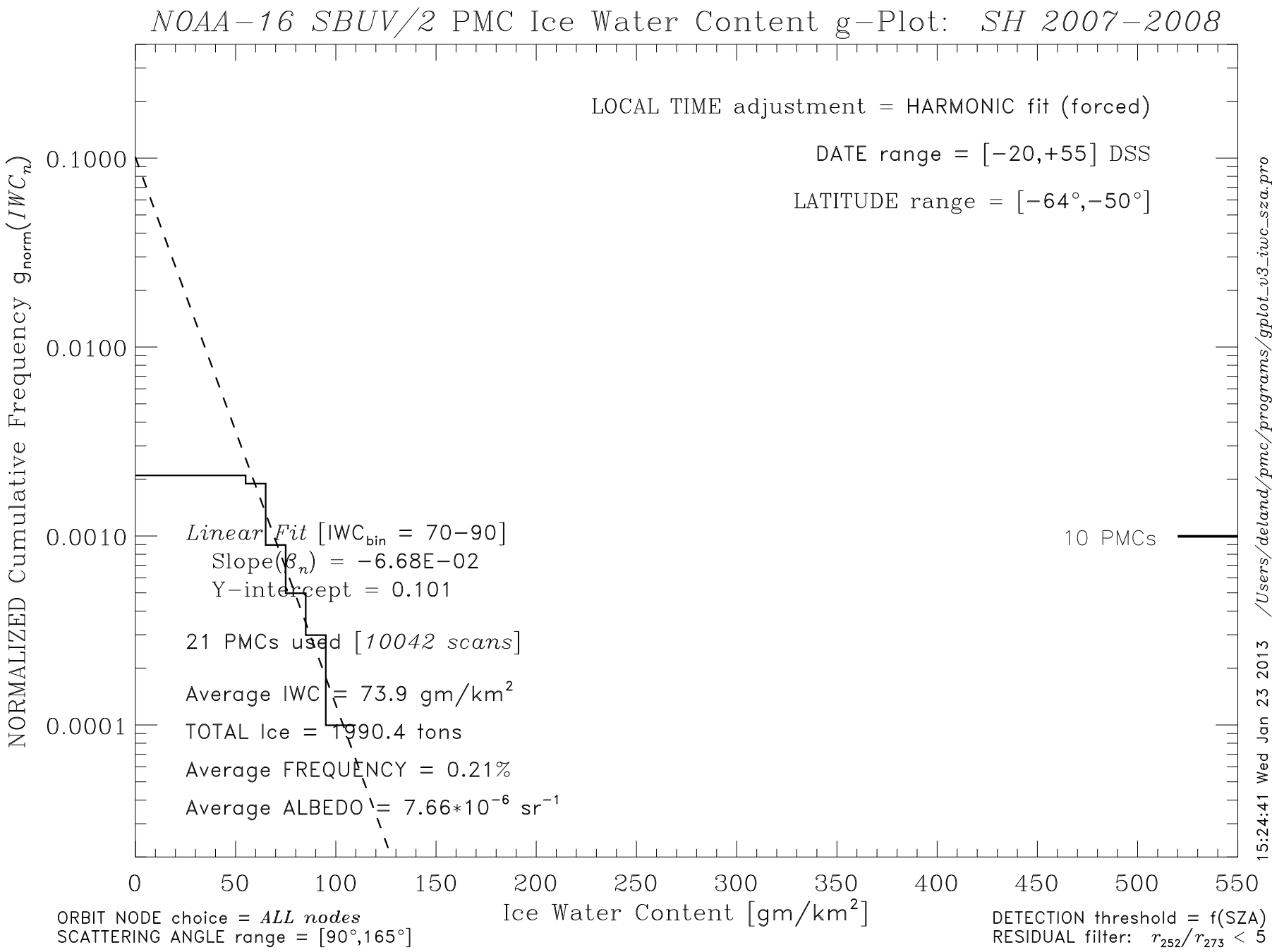

NOAA−16 SBUV/2 PMC Ice Water Content g−Plot: SH 2001−2002
LOCAL TIME adjustment = HARMONIC fit (forced)
DATE range = [−20,+55] DSS
LATITUDE range = [−64°,−50°]
NORMALIZED Cumulative Frequency $g_{norm}(IWC_n)$
0.1000
0.0100
0.0010
0.0001
Linear Fit [IWC_{bin} = 60−70]
Slope(β_n) = −3.58E−02
Y−intercept = 0.044
18 PMCs used [8009 scans]
Average IWC = 64.1 gm/km^2
TOTAL Ice = 2110.5 tons
Average FREQUENCY = 0.22%
Average ALBEDO = 6.22∗10^{-6} sr^{-1}
10 PMCs
0
50
100
150
200
250
300
350
400
450
500
550
Ice Water Content [gm/km^2]
15:23:39 Wed Jan 23 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: $r_{252}/r_{273} < 5$

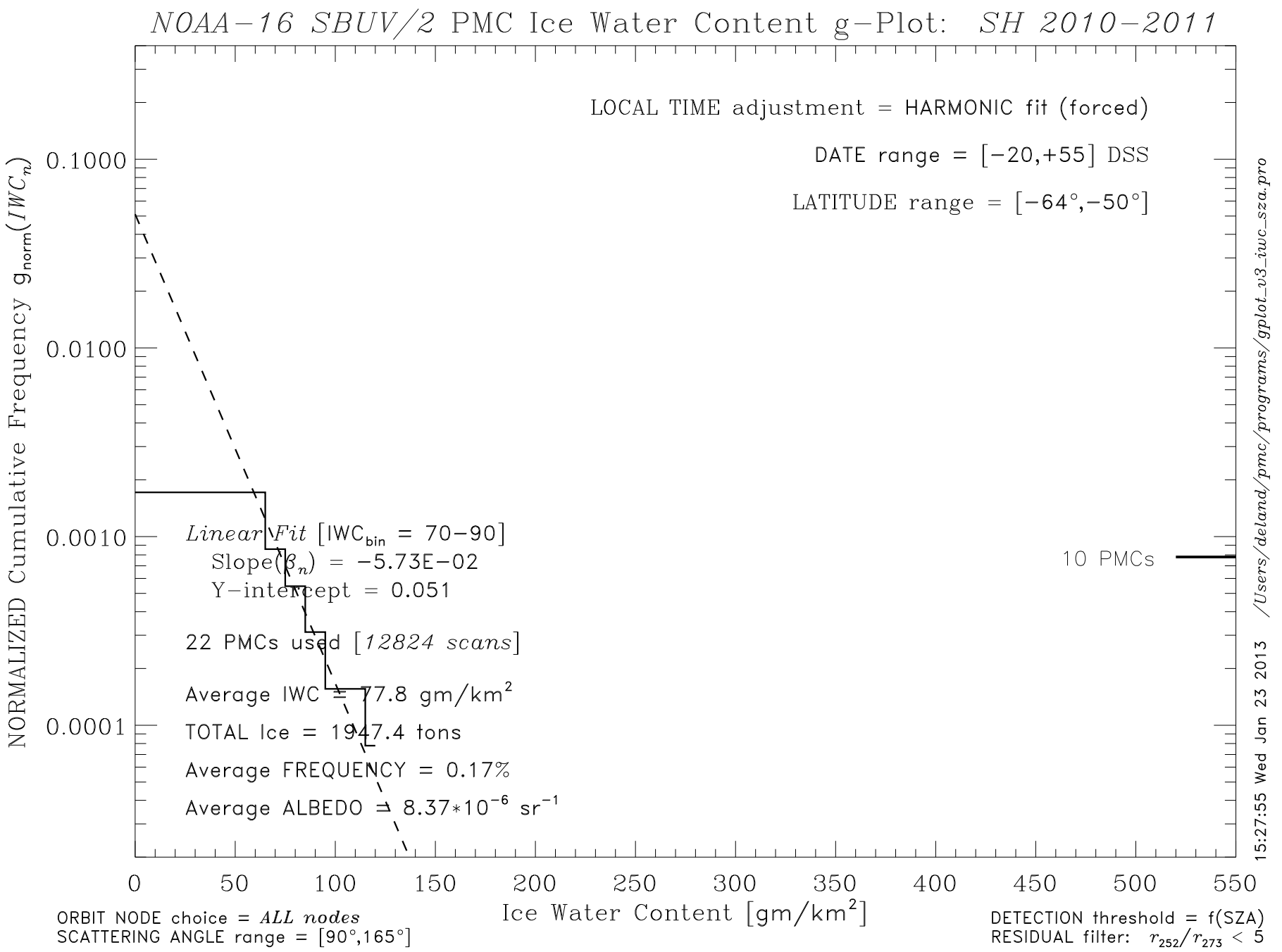

NOAA−16 SBUV/2 PMC Ice Water Content g−Plot: SH 2002−2003
LOCAL TIME adjustment = HARMONIC fit (forced)
DATE range = [−20,+55] DSS
LATITUDE range = [−64°,−50°]
NORMALIZED Cumulative Frequency $g_{norm}(IWC_n)$
0.1000
0.0100
0.0010
0.0001
Linear Fit [IWC_bin = 60−80]
Slope(β_n) = −6.75E−02
Y−intercept = 0.100
27 PMCs used [8338 scans]
Average IWC = 64.5 gm/km²
TOTAL Ice = 2116.1 tons
Average FREQUENCY = 0.32%
Average ALBEDO = 6.25∗10⁻⁶ sr⁻¹
10 PMCs
0
50
100
150
200
250
300
350
400
450
500
550
Ice Water Content [gm/km²]
ORBIT NODE choice = ALL nodes
SCATTERING ANGLE range = [90°,165°]
DETECTION threshold = f(SZA)
RESIDUAL filter: $r_{252}/r_{273} < 5$
15:23:39 Wed Jan 23 2013 /Users/deland/pmc/programs/gplot_v3_iwc_sza.pro

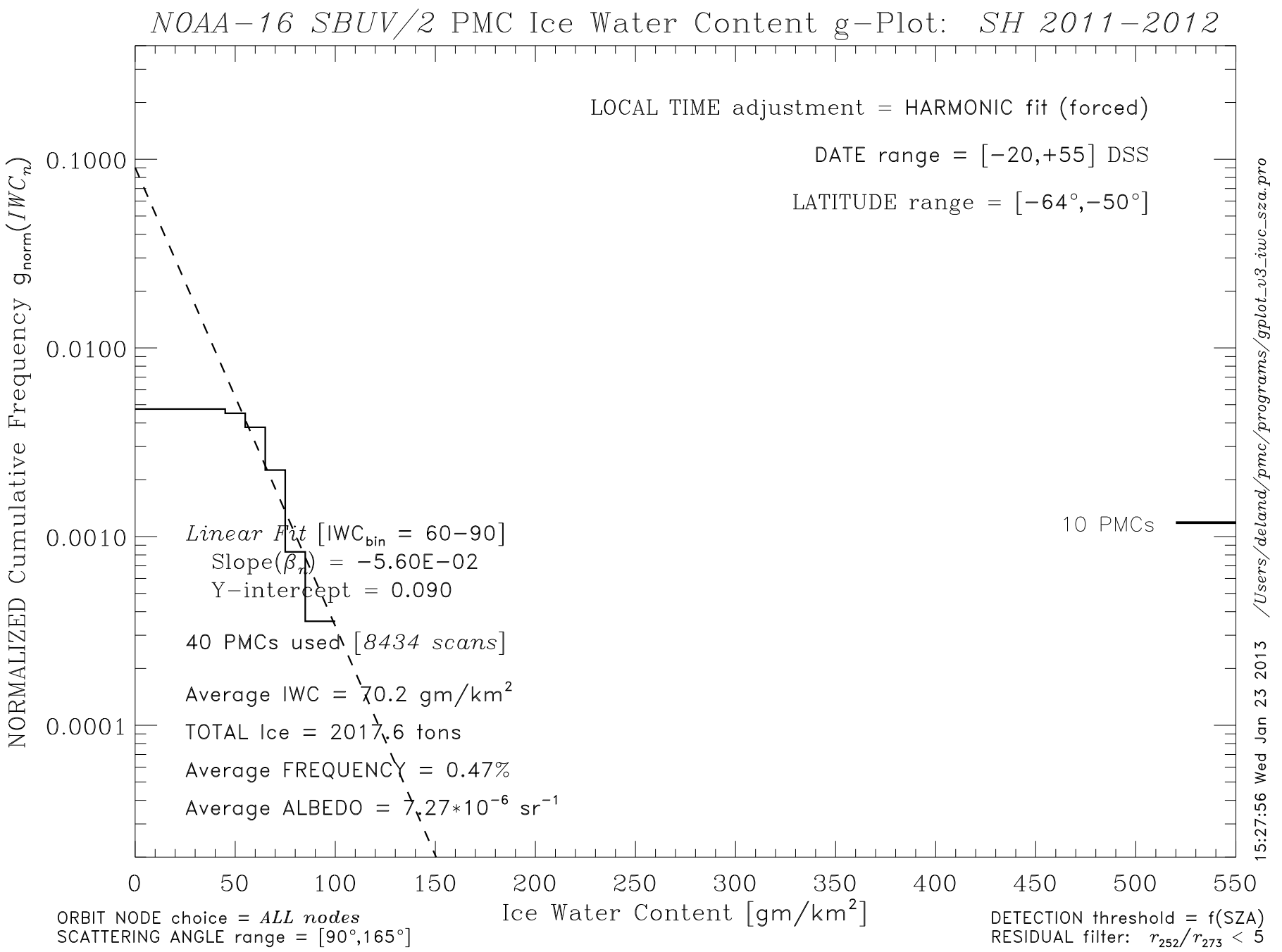

NOAA−16 SBUV/2 PMC Ice Water Content g−Plot: SH 2004−2005
LOCAL TIME adjustment = HARMONIC fit (forced)
DATE range = [−20,+55] DSS
LATITUDE range = [−64°,−50°]
NORMALIZED Cumulative Frequency $g_{norm}(IWC_n)$
0.1000
0.0100
0.0010
0.0001
Linear Fit [IWC$_{bin}$ = 60−120]
Slope(β_n) = −4.24E−02
Y−intercept = 0.064
63 PMCs used [8035 scans]
Average IWC = 75.7 gm/km^2
TOTAL Ice = 2125.8 tons
Average FREQUENCY = 0.78%
Average ALBEDO = 7.15∗10^{-6} sr^{-1}
10 PMCs
0
50
100
150
200
250
300
350
400
450
500
550
Ice Water Content [gm/km^2]
ORBIT NODE choice = ALL nodes
SCATTERING ANGLE range = [90°,165°]
DETECTION threshold = f(SZA)
RESIDUAL filter: $r_{252}/r_{273} < 5$
15:24:39 Wed Jan 23 2013 /Users/deland/pmc/programs/gplot_v3_iwc_sza.pro

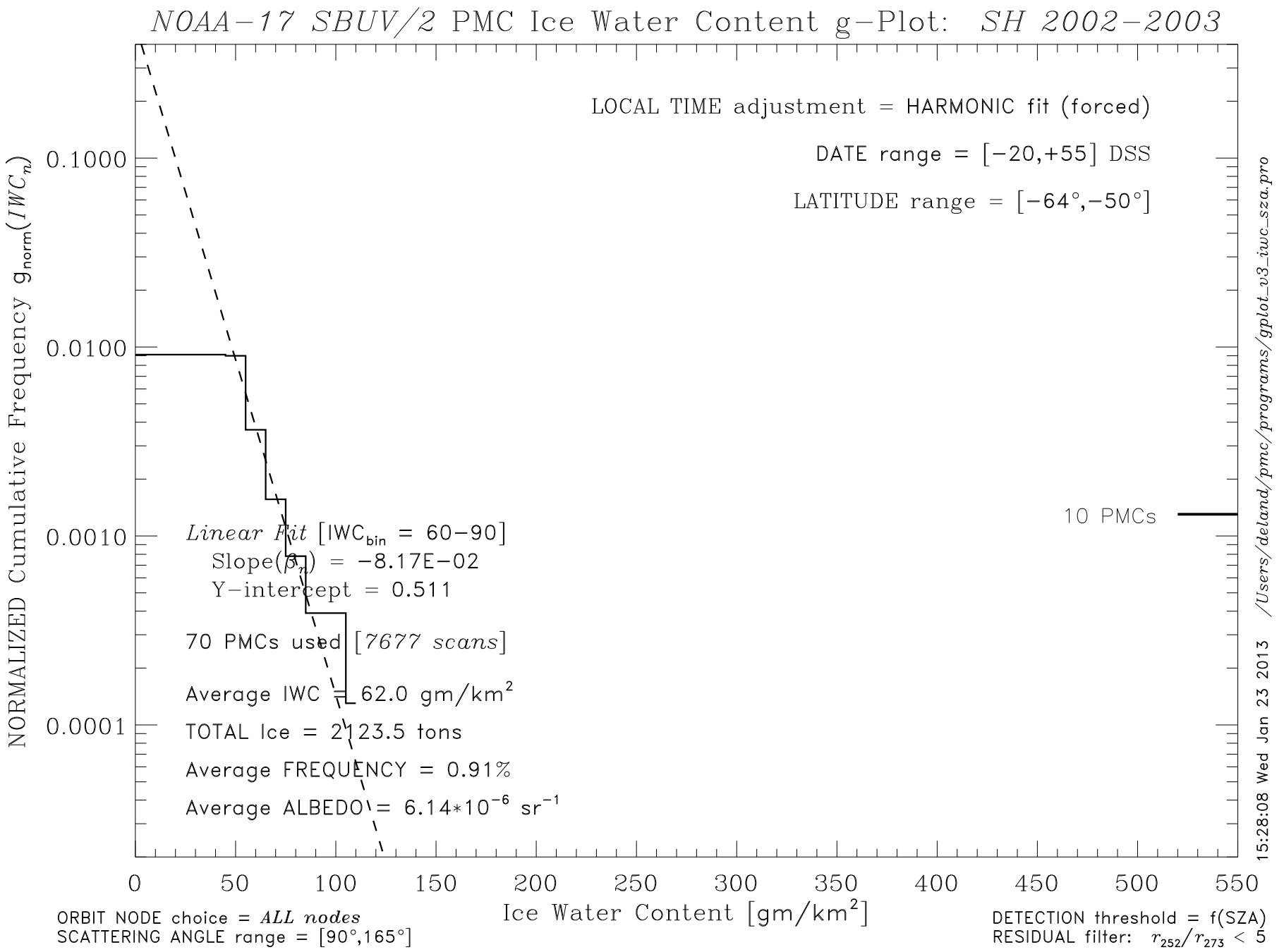

NOAA−16 SBUV/2 PMC Ice Water Content g−Plot: SH 2005−2006
LOCAL TIME adjustment = HARMONIC fit (forced)
DATE range = [−20,+55] DSS
LATITUDE range = [−64°,−50°]
NORMALIZED Cumulative Frequency $g_{norm}(IWC_n)$
0.1000
0.0100
0.0010
0.0001
Linear Fit [IWC_{bin} = 60−100]
Slope(β_1) = −5.00E−02
Y−intercept = 0.053
36 PMCs used [8387 scans]
Average IWC = 69.2 gm/km^2
TOTAL Ice = 2106.2 tons
Average FREQUENCY = 0.43%
Average ALBEDO = 6.66∗10^{-6} sr^{-1}
10 PMCs
0
50
100
150
200
250
300
350
400
450
500
550
Ice Water Content [gm/km^2]
ORBIT NODE choice = ALL nodes
SCATTERING ANGLE range = [90°,165°]
DETECTION threshold = f(SZA)
RESIDUAL filter: $r_{252}/r_{273} < 5$
15:24:40 Wed Jan 23 2013 /Users/deland/pmc/programs/gplot_v3_iwc_sza.pro

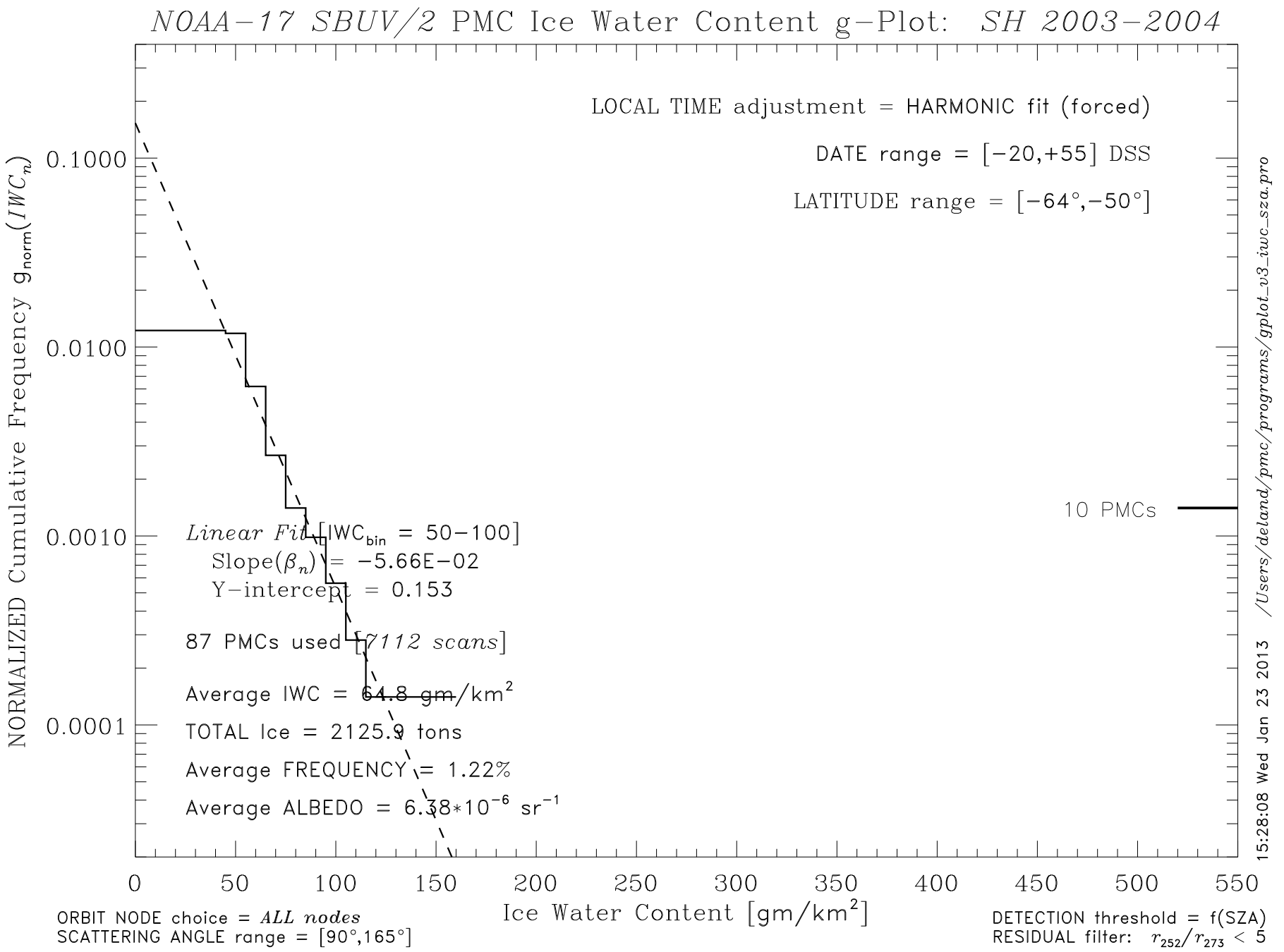

NOAA−16 SBUV/2 PMC Ice Water Content g−Plot: SH 2006−2007
LOCAL TIME adjustment = HARMONIC fit (forced)
DATE range = [−20,+55] DSS
LATITUDE range = [−64°,−50°]
NORMALIZED Cumulative Frequency $g_{norm}(IWC_n)$
0.1000
0.0100
0.0010
0.0001
Linear Fit [IWC_{bin} = 60−100]
Slope(β_n) = −4.56E−02
Y−intercept = 0.034
27 PMCs used [8357 scans]
Average IWC = 73.2 gm/km^2
TOTAL Ice = 2081.6 tons
Average FREQUENCY = 0.32%
Average ALBEDO = 7.11*10^{-6} sr^{-1}
10 PMCs
0
50
100
150
200
250
300
350
400
450
500
550
Ice Water Content [gm/km^2]
ORBIT NODE choice = ALL nodes
SCATTERING ANGLE range = [90°,165°]
DETECTION threshold = f(SZA)
RESIDUAL filter: $r_{252}/r_{273} < 5$
15:24:41 Wed Jan 23 2013 /Users/deland/pmc/programs/gplot_v3_iwc_sza.pro

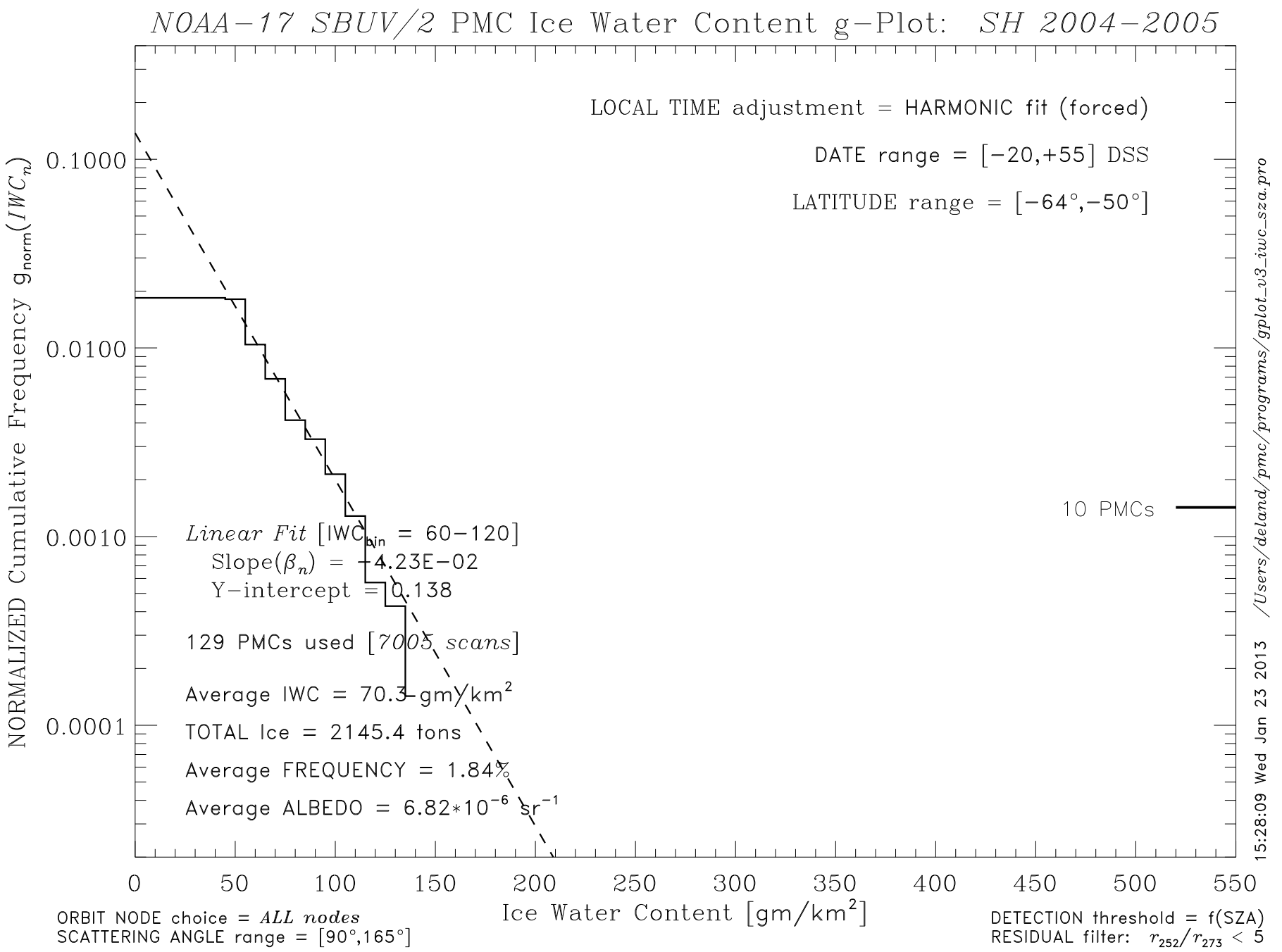

NOAA−16 SBUV/2 PMC Ice Water Content g−Plot: SH 2007−2008
LOCAL TIME adjustment = HARMONIC fit (forced)
DATE range = [−20,+55] DSS
LATITUDE range = [−64°,−50°]
NORMALIZED Cumulative Frequency $g_{norm}(IWC_n)$
0.1000
0.0100
0.0010
0.0001
Linear Fit [IWC$_{bin}$ = 70−90]
Slope(β_n) = −6.68E−02
Y−intercept = 0.101
21 PMCs used [10042 scans]
Average IWC = 73.9 gm/km^2
TOTAL Ice = 1990.4 tons
Average FREQUENCY = 0.21%
Average ALBEDO = 7.66∗10^{-6} sr^{-1}
10 PMCs
0
50
100
150
200
250
300
350
400
450
500
550
Ice Water Content [gm/km^2]
ORBIT NODE choice = ALL nodes
SCATTERING ANGLE range = [90°,165°]
DETECTION threshold = f(SZA)
RESIDUAL filter: $r_{252}/r_{273} < 5$
15:24:41 Wed Jan 23 2013 /Users/deland/pmc/programs/gplot_v3_iwc_sza.pro

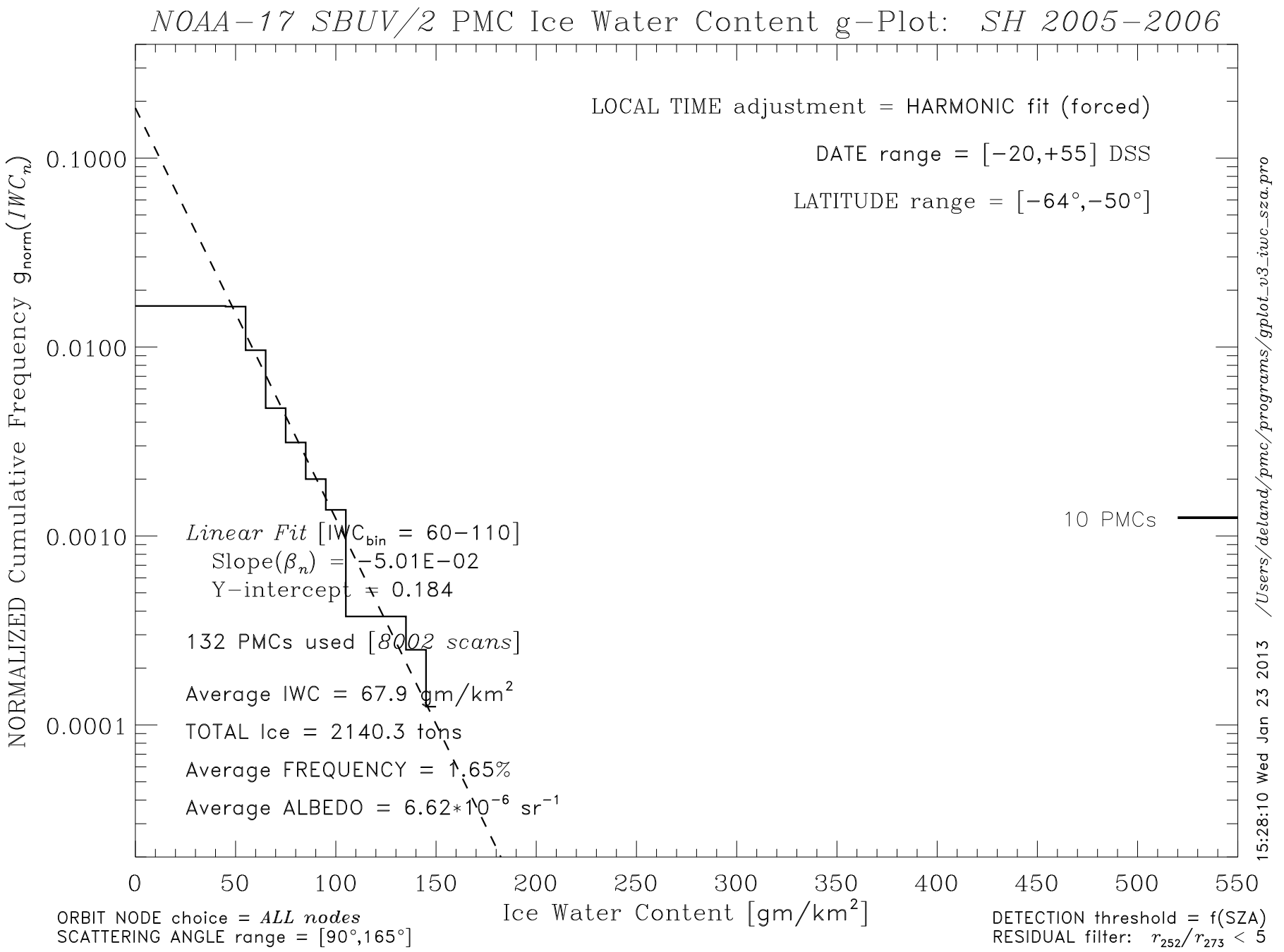

NOAA−16 SBUV/2 PMC Ice Water Content g−Plot: SH 2010−2011
LOCAL TIME adjustment = HARMONIC fit (forced)
DATE range = [−20,+55] DSS
LATITUDE range = [−64°,−50°]
NORMALIZED Cumulative Frequency $g_{norm}(IWC_n)$
0.1000
0.0100
0.0010
0.0001
Linear Fit [IWC_{bin} = 70−90]
Slope(β_n) = −5.73E−02
Y−intercept = 0.051
22 PMCs used [12824 scans]
Average IWC = 77.8 gm/km^2
TOTAL Ice = 1947.4 tons
Average FREQUENCY = 0.17%
Average ALBEDO = 8.37∗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: $r_{252}/r_{273} < 5$
15:27:55 Wed Jan 23 2013 /Users/deland/pmc/programs/gplot_v3_iwc_sza.pro

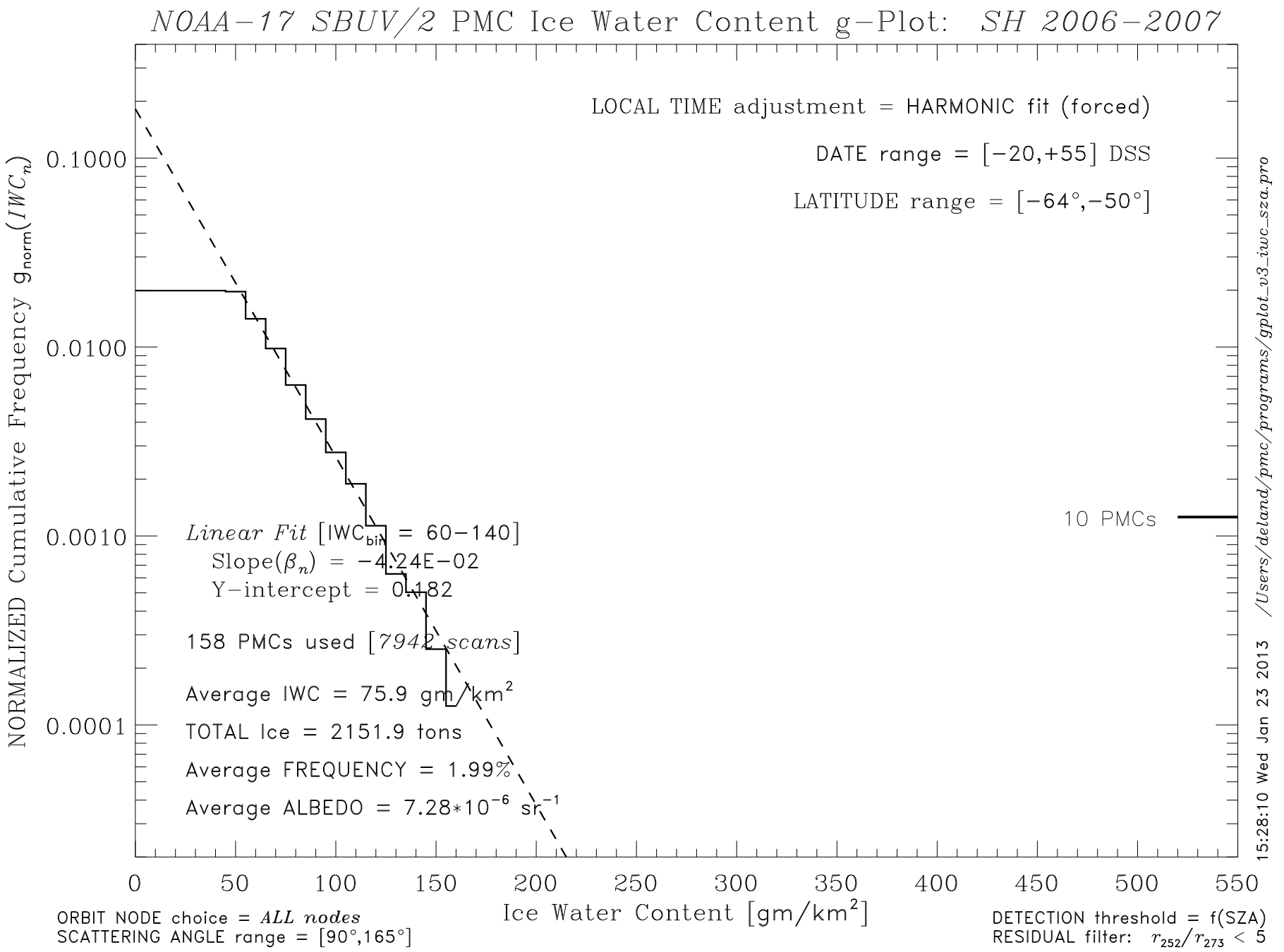

NOAA−16 SBUV/2 PMC Ice Water Content g−Plot: SH 2011−2012
LOCAL TIME adjustment = HARMONIC fit (forced)
DATE range = [−20,+55] DSS
LATITUDE range = [−64°,−50°]
NORMALIZED Cumulative Frequency $g_{norm}(IWC_n)$
0.1000
0.0100
0.0010
0.0001
Linear Fit [IWC_bin = 60−90]
Slope(β_n) = −5.60E−02
Y−intercept = 0.090
40 PMCs used [8434 scans]
Average IWC = 70.2 gm/km^2
TOTAL Ice = 2017.6 tons
Average FREQUENCY = 0.47%
Average ALBEDO = 7.27*10^{-6} sr^{-1}
10 PMCs
0
50
100
150
200
250
300
350
400
450
500
550
Ice Water Content [gm/km^2]
ORBIT NODE choice = ALL nodes
SCATTERING ANGLE range = [90°,165°]
DETECTION threshold = f(SZA)
RESIDUAL filter: $r_{252}/r_{273} < 5$
15:27:56 Wed Jan 23 2013 /Users/deland/pmc/programs/gplot_v3_iwc_sza.pro

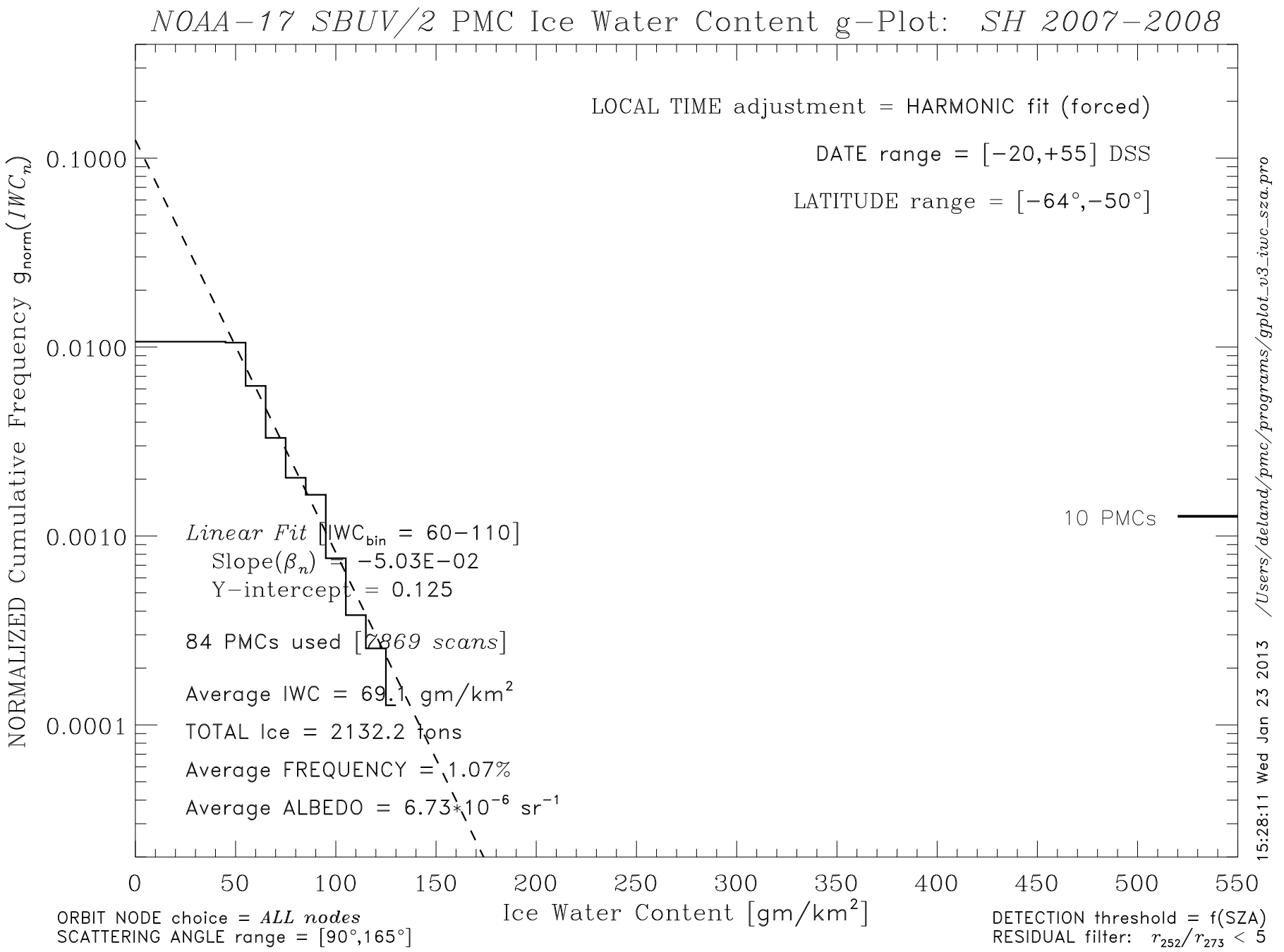

NOAA−17 SBUV/2 PMC Ice Water Content g−Plot: SH 2002−2003
LOCAL TIME adjustment = HARMONIC fit (forced)
DATE range = [−20,+55] DSS
LATITUDE range = [−64°,−50°]
NORMALIZED Cumulative Frequency $g_{norm}(IWC_n)$
0.1000
0.0100
0.0010
0.0001
10 PMCs
Linear Fit [IWC$_{bin}$ = 60−90]
Slope(β_n) = −8.17E−02
Y−intercept = 0.511
70 PMCs used [7677 scans]
Average IWC = 62.0 gm/km^2
TOTAL Ice = 2123.5 tons
Average FREQUENCY = 0.91%
Average ALBEDO = 6.14∗10^{-6} sr^{-1}
0
50
100
150
200
250
300
350
400
450
500
550
Ice Water Content [gm/km^2]
15:28:08 Wed Jan 23 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: $r_{252}/r_{273} < 5$

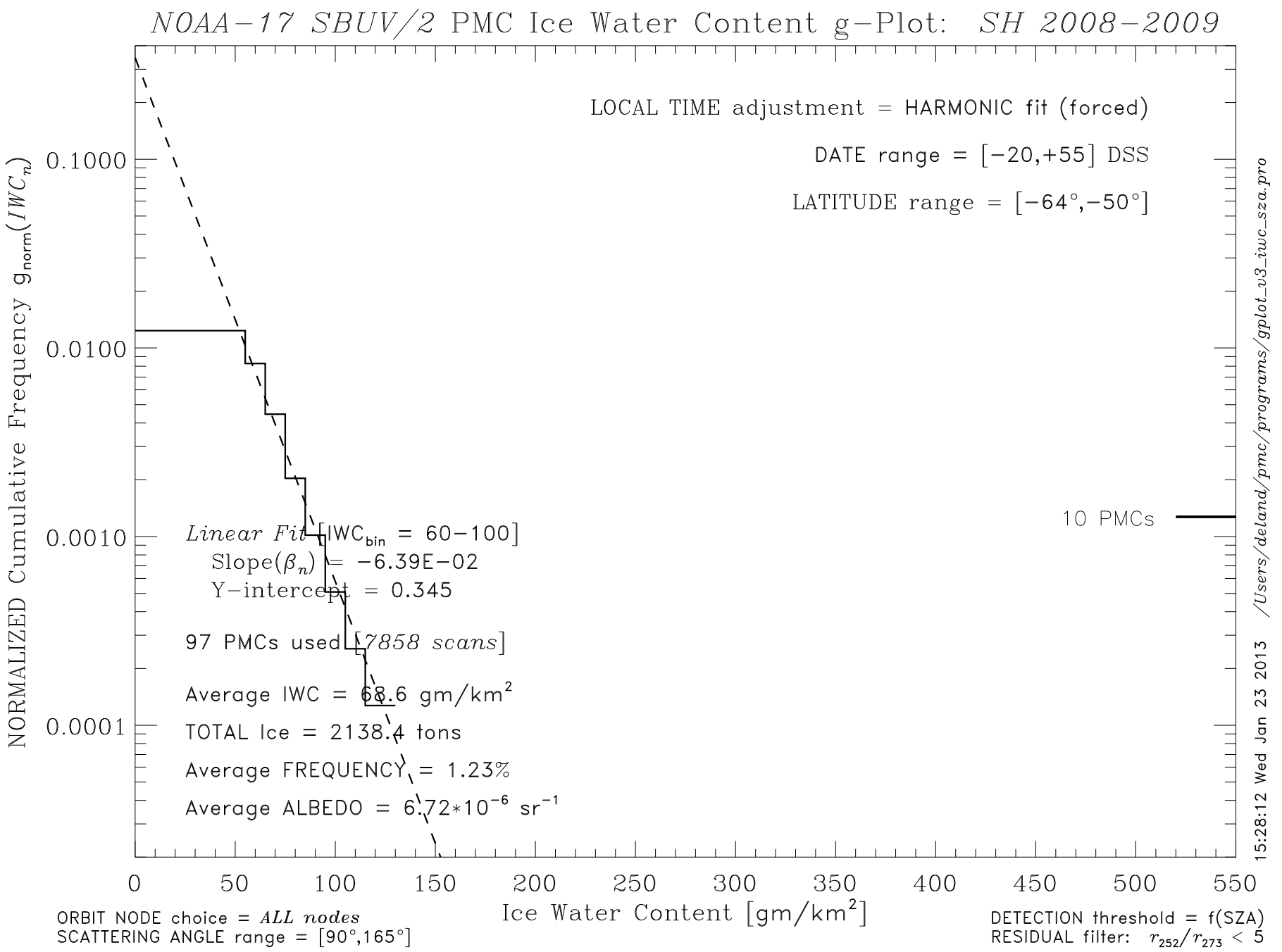

NOAA−17 SBUV/2 PMC Ice Water Content g−Plot: SH 2003−2004
LOCAL TIME adjustment = HARMONIC fit (forced)
DATE range = [−20,+55] DSS
LATITUDE range = [−64°,−50°]
10 PMCs
Linear Fit [IWC_bin = 50−100]
Slope(β_n) = −5.66E−02
Y−intercept = 0.153
87 PMCs used [7112 scans]
Average IWC = 64.8 gm/km²
TOTAL Ice = 2125.9 tons
Average FREQUENCY = 1.22%
Average ALBEDO = 6.38*10⁻⁶ sr⁻¹
NORMALIZED Cumulative Frequency g_norm(IWC_n)
0.1000
0.0100
0.0010
0.0001
0
50
100
150
200
250
300
350
400
450
500
550
Ice Water Content [gm/km²]
ORBIT NODE choice = ALL nodes
SCATTERING ANGLE range = [90°,165°]
DETECTION threshold = f(SZA)
RESIDUAL filter: r_252/r_273 < 5
15:28:08 Wed Jan 23 2013 /Users/deland/pmc/programs/gplot_v3_iwc_sza.pro

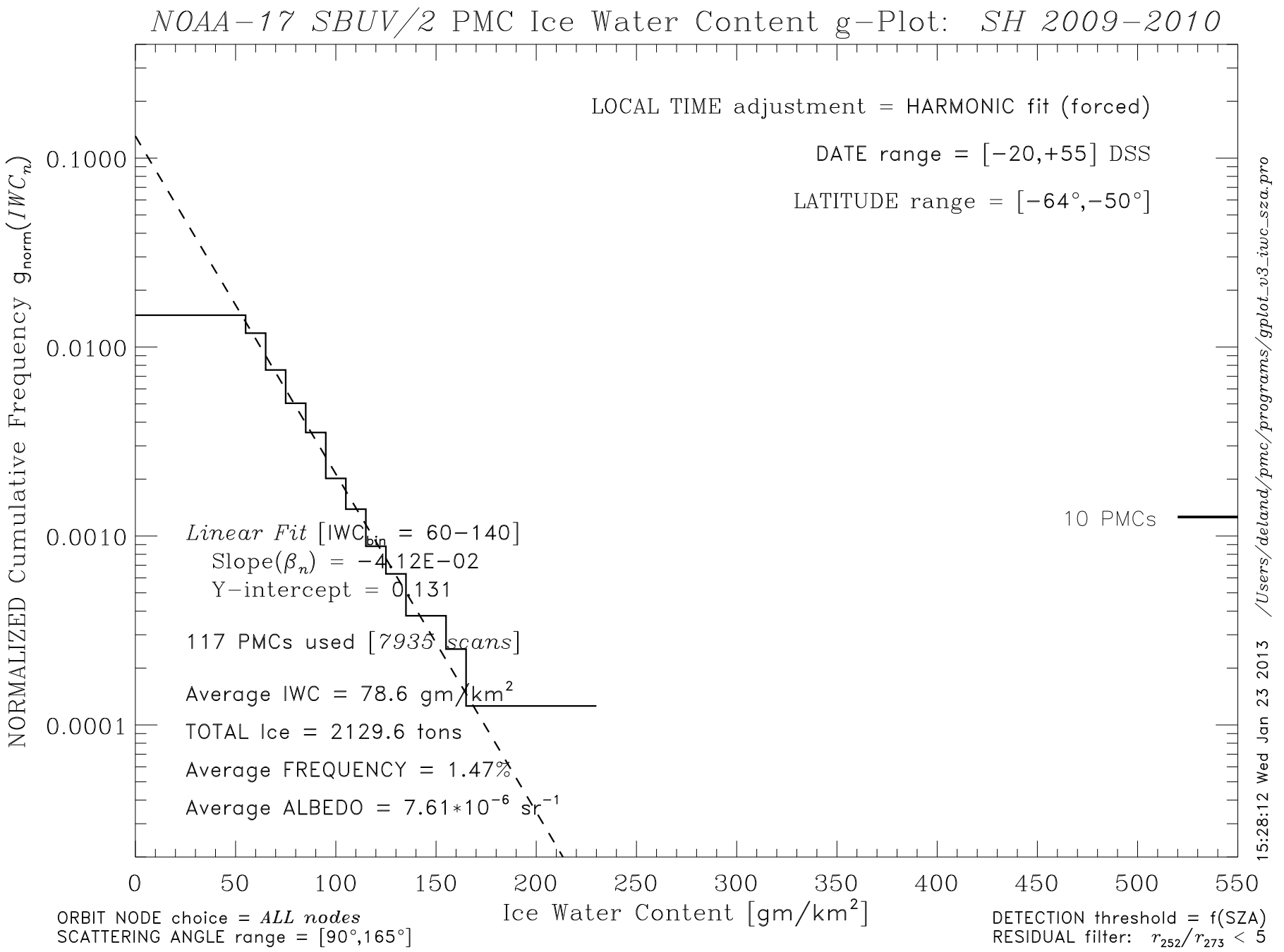

NOAA−17 SBUV/2 PMC Ice Water Content g−Plot: SH 2004−2005
LOCAL TIME adjustment = HARMONIC fit (forced)
DATE range = [−20,+55] DSS
LATITUDE range = [−64°,−50°]
NORMALIZED Cumulative Frequency $g_{norm}(IWC_n)$
0.1000
0.0100
0.0010
0.0001
10 PMCs
Linear Fit [IWC_{bin} = 60−120]
Slope(β_n) = −4.23E−02
Y−intercept = 0.138
129 PMCs used [7005 scans]
Average IWC = 70.3 gm/km^2
TOTAL Ice = 2145.4 tons
Average FREQUENCY = 1.84%
Average ALBEDO = 6.82∗10^{-6} sr^{-1}
0
50
100
150
200
250
300
350
400
450
500
550
Ice Water Content [gm/km^2]
15:28:09 Wed Jan 23 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: $r_{252}/r_{273} < 5$

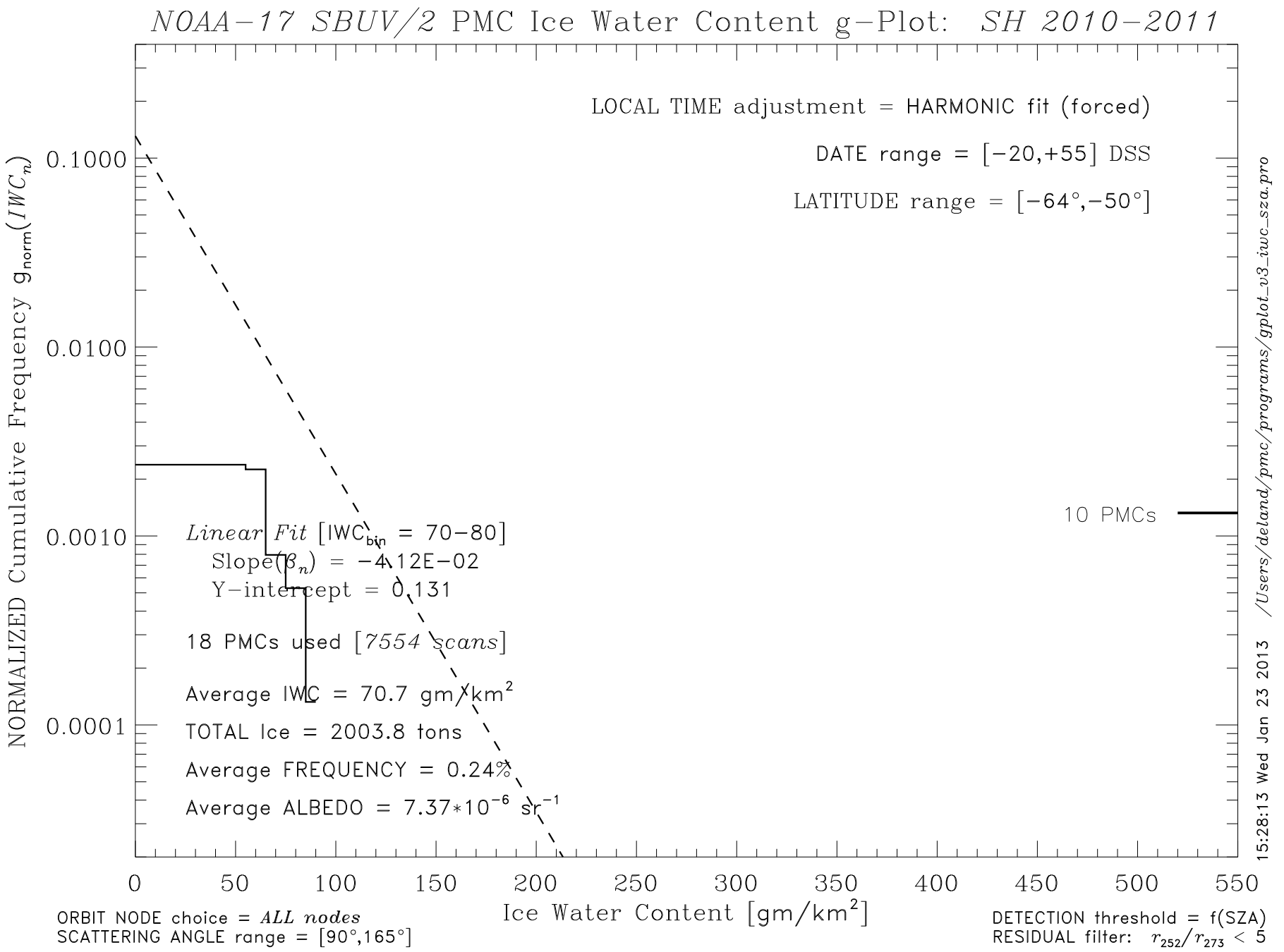

NOAA−17 SBUV/2 PMC Ice Water Content g−Plot: SH 2005−2006
LOCAL TIME adjustment = HARMONIC fit (forced)
DATE range = [−20,+55] DSS
LATITUDE range = [−64°,−50°]
10 PMCs
Linear Fit [IWC_bin = 60−110]
Slope(β_n) = −5.01E−02
Y−intercept = 0.184
132 PMCs used [8002 scans]
Average IWC = 67.9 gm/km²
TOTAL Ice = 2140.3 tons
Average FREQUENCY = 1.65%
Average ALBEDO = 6.62*10⁻⁶ sr⁻¹
NORMALIZED Cumulative Frequency g_norm(IWC_n)
0.1000
0.0100
0.0010
0.0001
0
50
100
150
200
250
300
350
400
450
500
550
Ice Water Content [gm/km²]
ORBIT NODE choice = ALL nodes
SCATTERING ANGLE range = [90°,165°]
DETECTION threshold = f(SZA)
RESIDUAL filter: r_252/r_273 < 5
15:28:10 Wed Jan 23 2013 /Users/deland/pmc/programs/gplot_v3_iwc_sza.pro

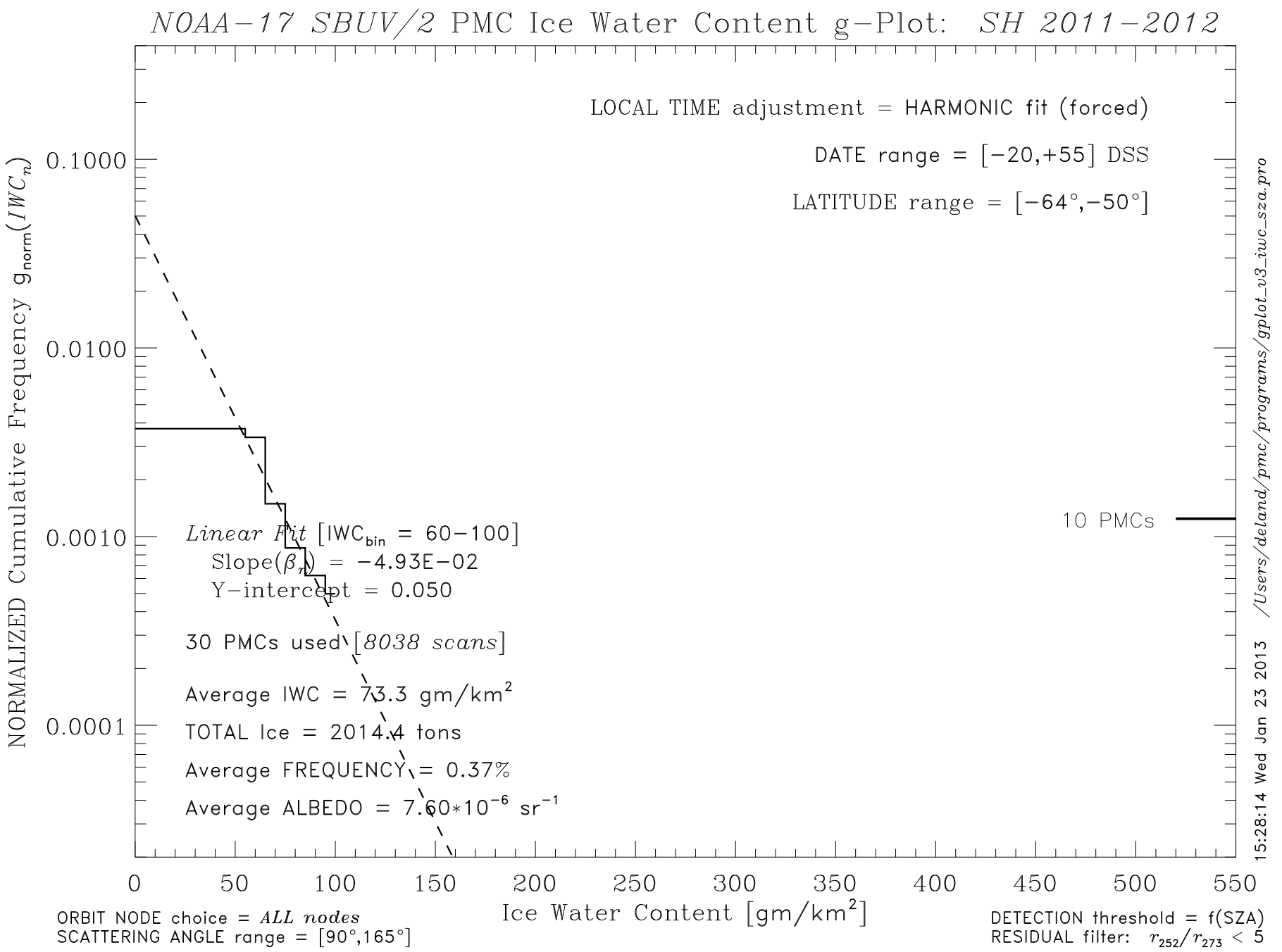

NOAA−17 SBUV/2 PMC Ice Water Content g−Plot: SH 2006−2007
LOCAL TIME adjustment = HARMONIC fit (forced)
DATE range = [−20,+55] DSS
LATITUDE range = [−64°,−50°]
10 PMCs
Linear Fit [IWC_bin = 60−140]
Slope(β_n) = −4.24E−02
Y−intercept = 0.182
158 PMCs used [7942 scans]
Average IWC = 75.9 gm/km²
TOTAL Ice = 2151.9 tons
Average FREQUENCY = 1.99%
Average ALBEDO = 7.28*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
15:28:10 Wed Jan 23 2013 /Users/deland/pmc/programs/gplot_v3_iwc_sza.pro

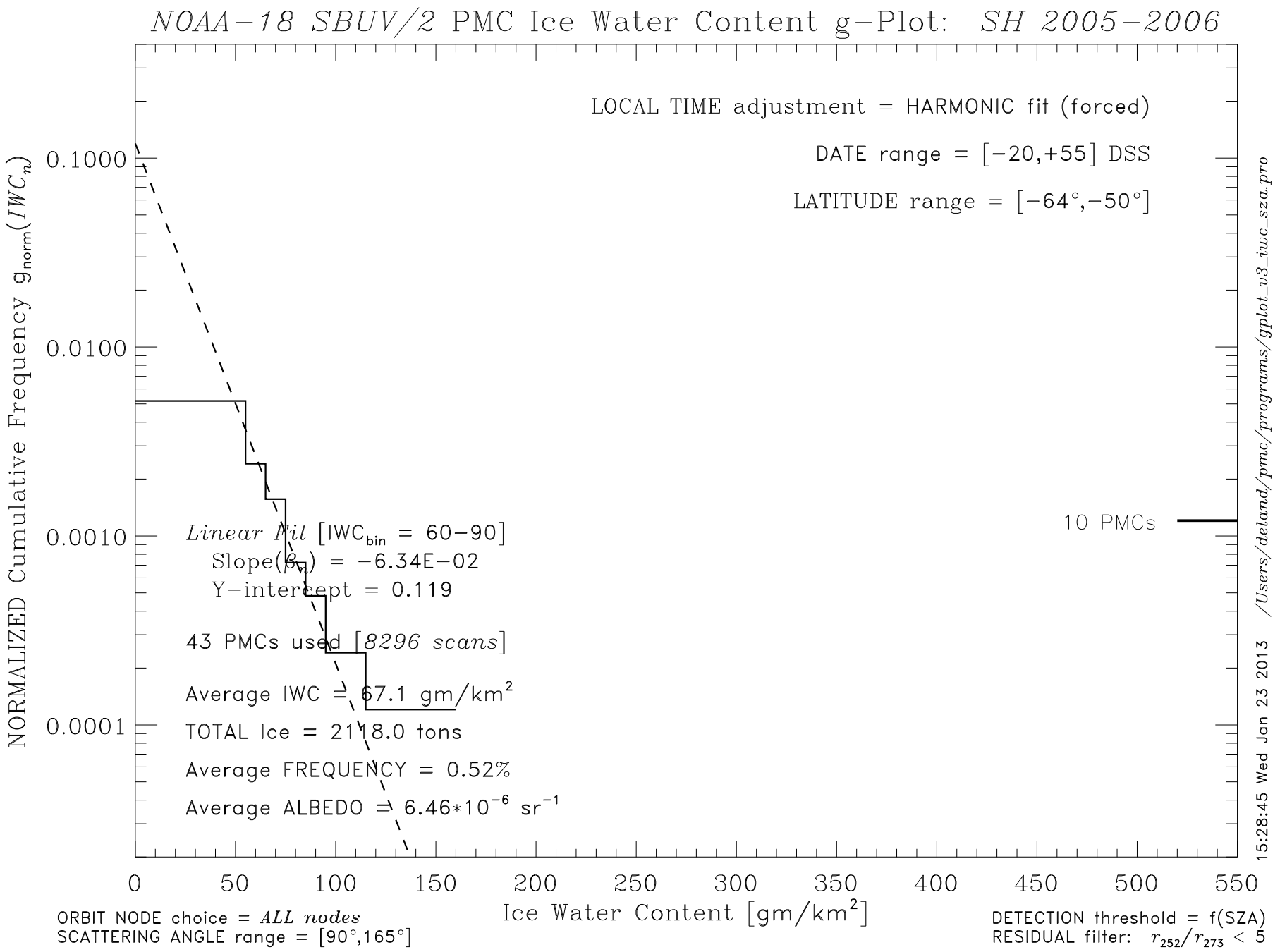

NOAA−17 SBUV/2 PMC Ice Water Content g−Plot: SH 2007−2008
LOCAL TIME adjustment = HARMONIC fit (forced)
DATE range = [−20,+55] DSS
LATITUDE range = [−64°,−50°]
NORMALIZED Cumulative Frequency $g_{norm}(IWC_n)$
0.1000
0.0100
0.0010
0.0001
Linear Fit [IWC_{bin} = 60−110]
Slope(β_n) = −5.03E−02
Y−intercept = 0.125
84 PMCs used [7869 scans]
Average IWC = 69.1 gm/km^2
TOTAL Ice = 2132.2 tons
Average FREQUENCY = 1.07%
Average ALBEDO = 6.73*10^{-6} sr^{-1}
10 PMCs
0
50
100
150
200
250
300
350
400
450
500
550
Ice Water Content [gm/km^2]
15:28:11 Wed Jan 23 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: $r_{252}/r_{273} < 5$

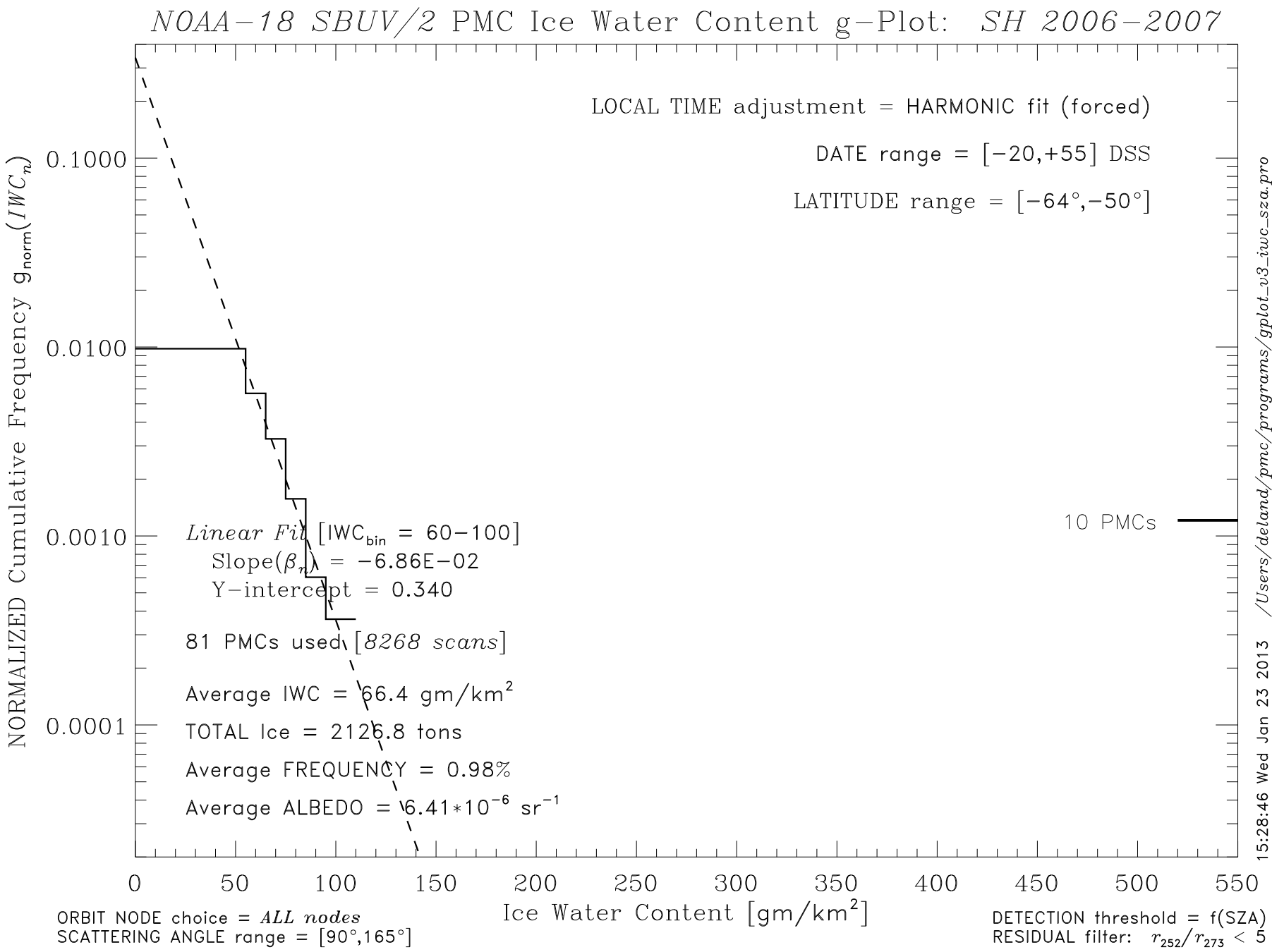

NOAA−17 SBUV/2 PMC Ice Water Content g−Plot: SH 2008−2009
LOCAL TIME adjustment = HARMONIC fit (forced)
DATE range = [−20,+55] DSS
LATITUDE range = [−64°,−50°]
NORMALIZED Cumulative Frequency $g_{norm}(IWC_n)$
0.1000
0.0100
0.0010
0.0001
Linear Fit [IWC_bin = 60−100]
Slope(β_n) = −6.39E−02
Y−intercept = 0.345
97 PMCs used [7858 scans]
Average IWC = 68.6 gm/km^2
TOTAL Ice = 2138.4 tons
Average FREQUENCY = 1.23%
Average ALBEDO = 6.72∗10^{-6} sr^{-1}
10 PMCs
0
50
100
150
200
250
300
350
400
450
500
550
Ice Water Content [gm/km^2]
ORBIT NODE choice = ALL nodes
SCATTERING ANGLE range = [90°,165°]
DETECTION threshold = f(SZA)
RESIDUAL filter: $r_{252}/r_{273} < 5$
15:28:12 Wed Jan 23 2013 /Users/deland/pmc/programs/gplot_v3_iwc_sza.pro

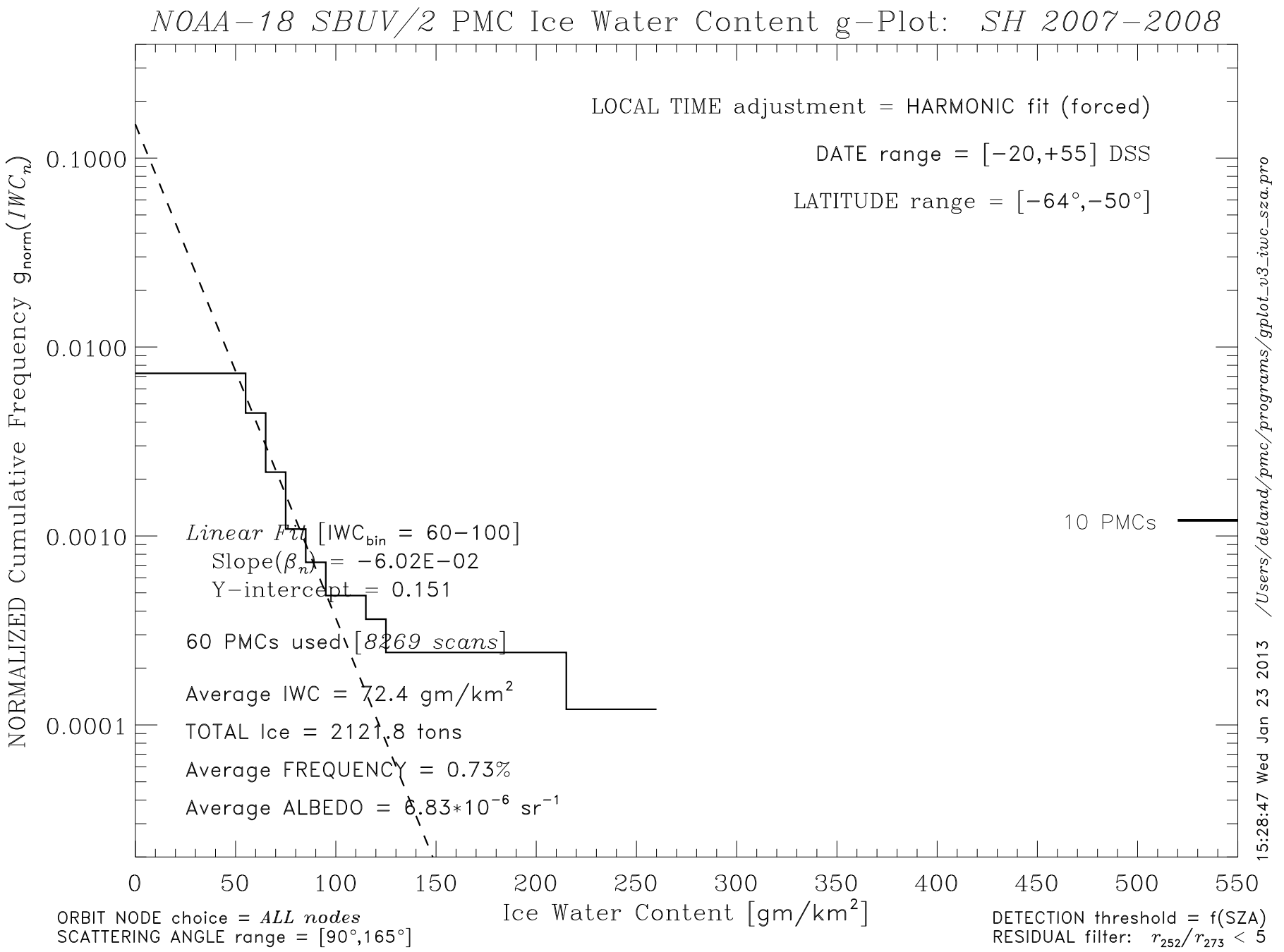

NOAA−17 SBUV/2 PMC Ice Water Content g−Plot: SH 2009−2010
LOCAL TIME adjustment = HARMONIC fit (forced)
DATE range = [−20,+55] DSS
LATITUDE range = [−64°,−50°]
NORMALIZED Cumulative Frequency $g_{norm}(IWC_n)$
0.1000
0.0100
0.0010
0.0001
10 PMCs
Linear Fit [IWC_{bin} = 60−140]
Slope(β_n) = −4.12E−02
Y−intercept = 0.131
117 PMCs used [7935 scans]
Average IWC = 78.6 gm/km^2
TOTAL Ice = 2129.6 tons
Average FREQUENCY = 1.47%
Average ALBEDO = 7.61∗10^{-6} sr^{-1}
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: $r_{252}/r_{273} < 5$
15:28:12 Wed Jan 23 2013 /Users/deland/pmc/programs/gplot_v3_iwc_sza.pro

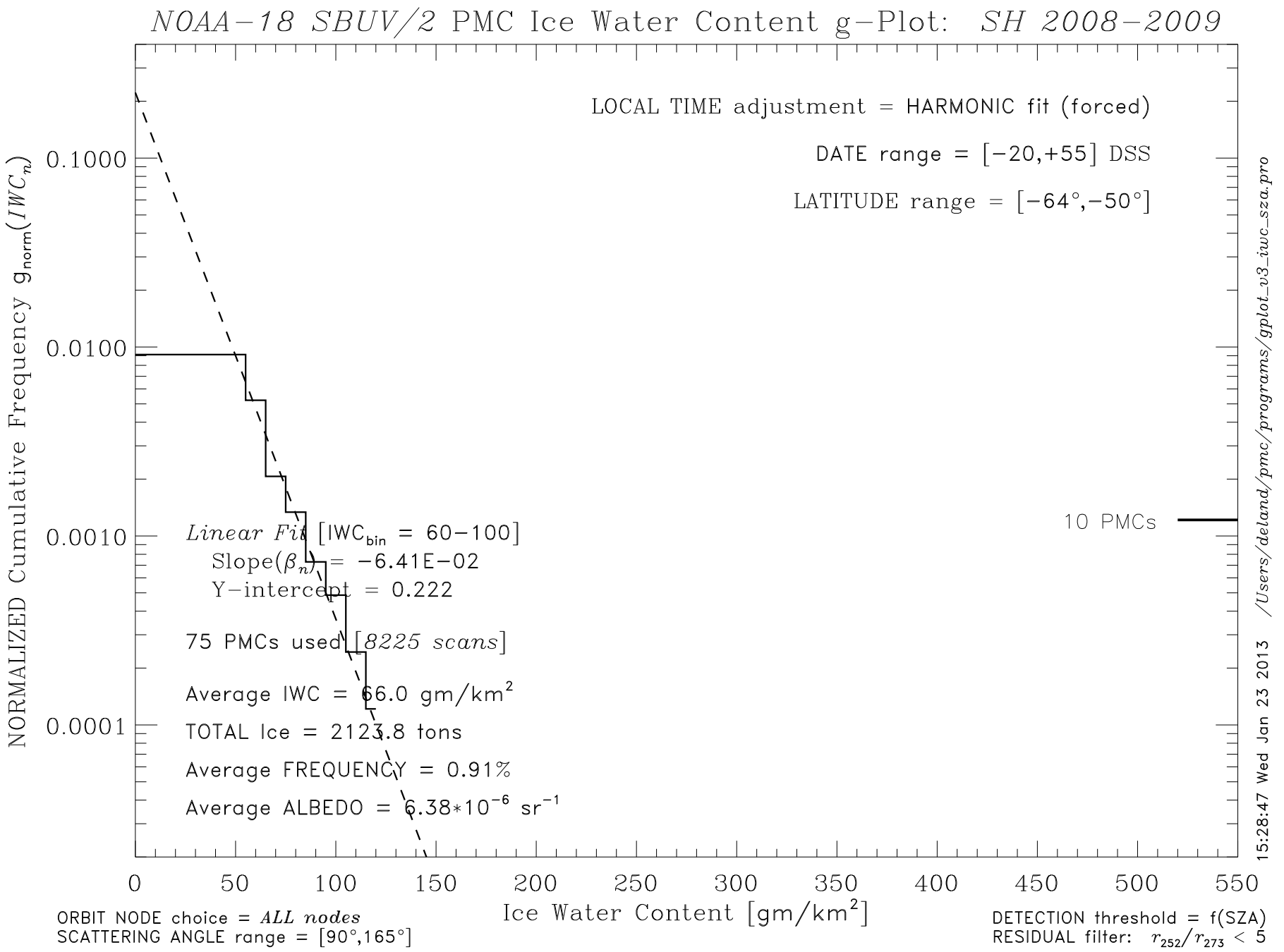

NOAA−17 SBUV/2 PMC Ice Water Content g−Plot: SH 2010−2011
LOCAL TIME adjustment = HARMONIC fit (forced)
DATE range = [−20,+55] DSS
LATITUDE range = [−64°,−50°]
NORMALIZED Cumulative Frequency $g_{norm}(IWC_n)$
0.1000
0.0100
0.0010
0.0001
Linear Fit [IWC_{bin} = 70−80]
Slope(β_n) = −4.12E−02
Y−intercept = 0.131
18 PMCs used [7554 scans]
Average IWC = 70.7 gm/km^2
TOTAL Ice = 2003.8 tons
Average FREQUENCY = 0.24%
Average ALBEDO = 7.37∗10^{-6} sr^{-1}
10 PMCs
0
50
100
150
200
250
300
350
400
450
500
550
Ice Water Content [gm/km^2]
15:28:13 Wed Jan 23 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: $r_{252}/r_{273} < 5$

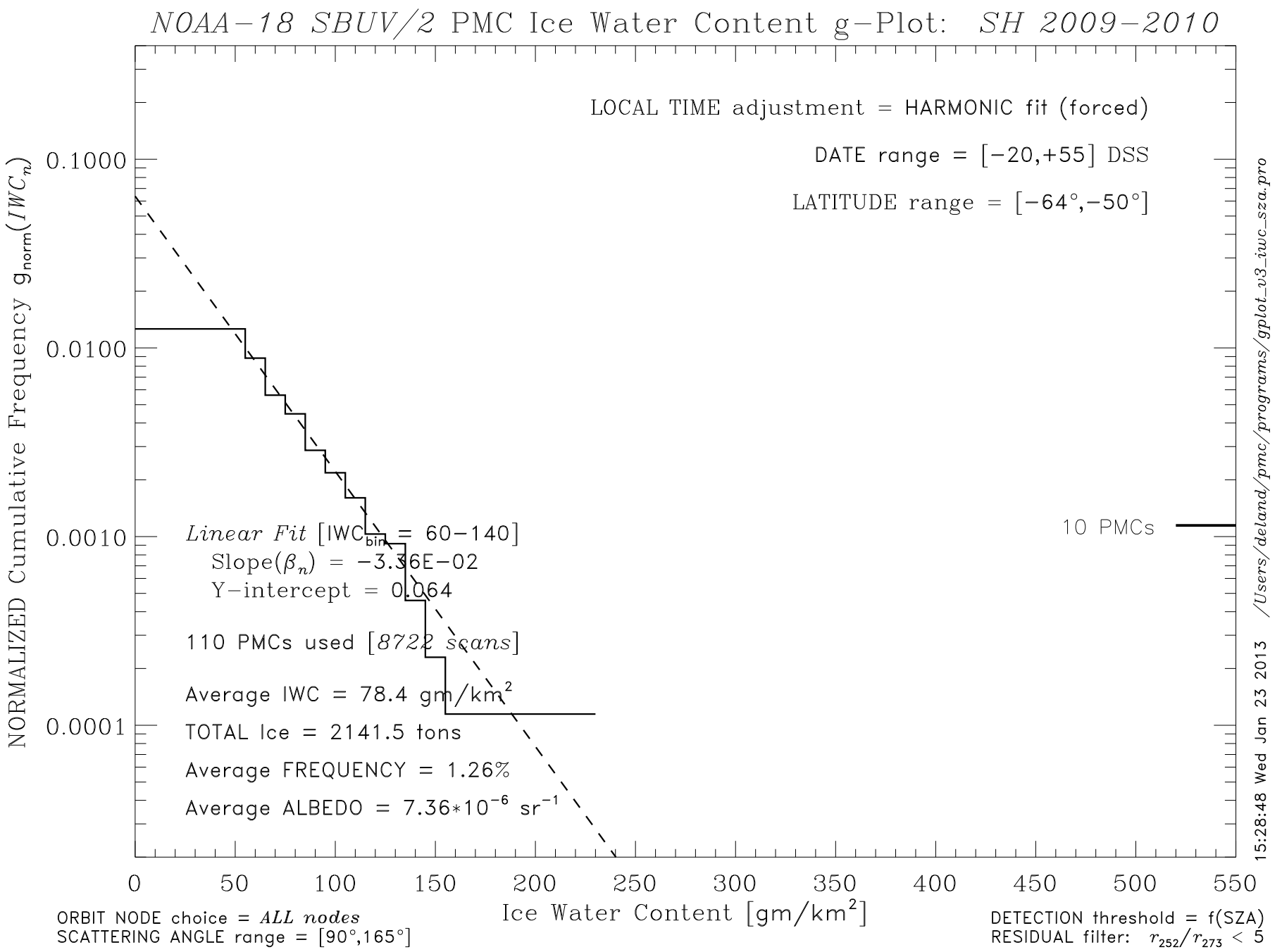

NOAA−17 SBUV/2 PMC Ice Water Content g−Plot: SH 2011−2012
LOCAL TIME adjustment = HARMONIC fit (forced)
DATE range = [−20,+55] DSS
LATITUDE range = [−64°,−50°]
NORMALIZED Cumulative Frequency $g_{norm}(IWC_n)$
0.1000
0.0100
0.0010
0.0001
Linear Fit [IWC_{bin} = 60−100]
Slope(β_n) = −4.93E−02
Y−intercept = 0.050
30 PMCs used [8038 scans]
Average IWC = 73.3 gm/km^2
TOTAL Ice = 2014.4 tons
Average FREQUENCY = 0.37%
Average ALBEDO = 7.60∗10^{-6} sr^{-1}
10 PMCs
0
50
100
150
200
250
300
350
400
450
500
550
Ice Water Content [gm/km^2]
ORBIT NODE choice = ALL nodes
SCATTERING ANGLE range = [90°,165°]
DETECTION threshold = f(SZA)
RESIDUAL filter: $r_{252}/r_{273} < 5$
15:28:14 Wed Jan 23 2013 /Users/deland/pmc/programs/gplot_v3_iwc_sza.pro

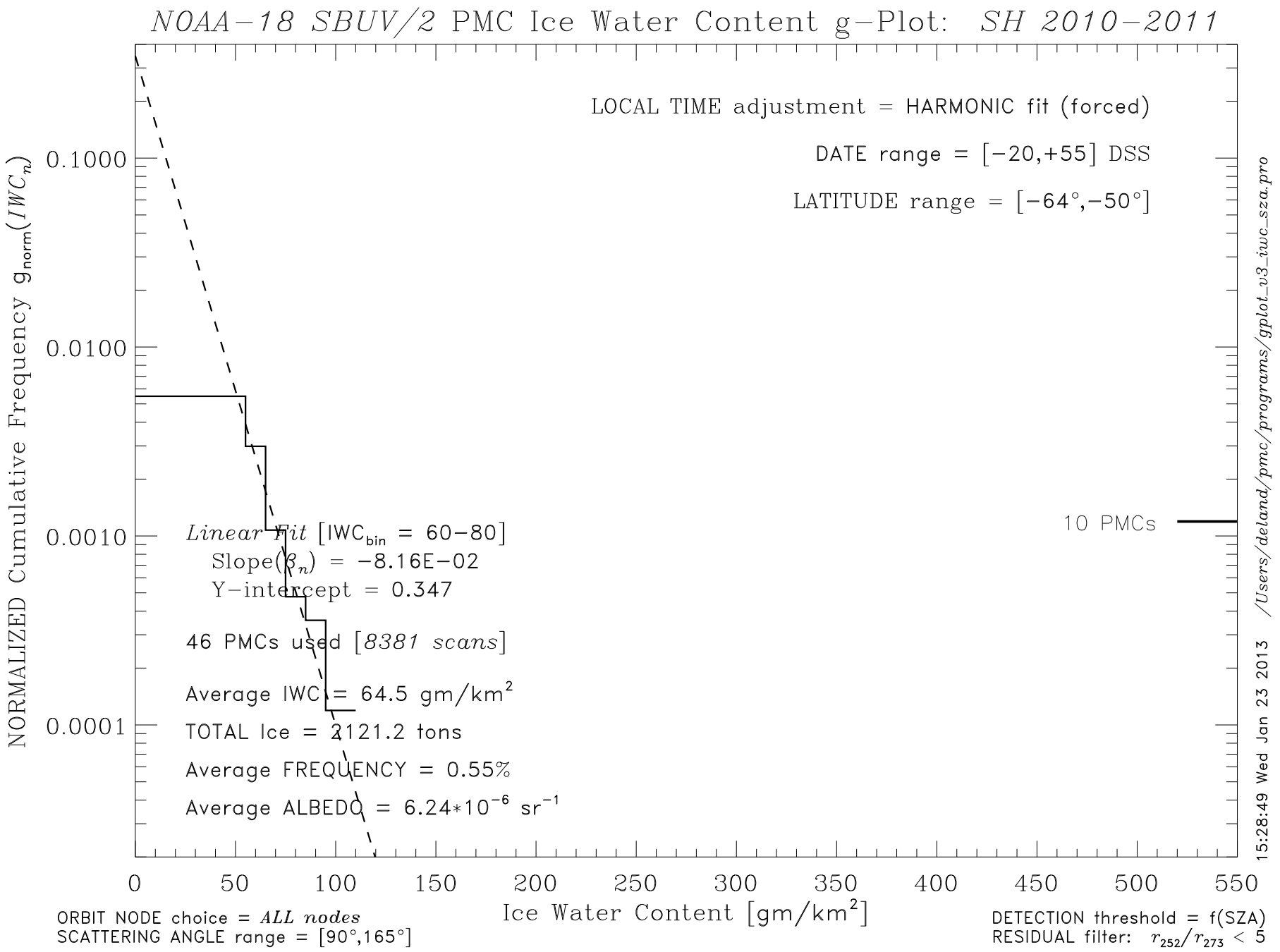

NOAA−18 SBUV/2 PMC Ice Water Content g−Plot: SH 2005−2006
LOCAL TIME adjustment = HARMONIC fit (forced)
DATE range = [−20,+55] DSS
LATITUDE range = [−64°,−50°]
NORMALIZED Cumulative Frequency $g_{norm}(IWC_n)$
0.1000
0.0100
0.0010
0.0001
Linear Fit [IWC_{bin} = 60−90]
Slope(β_1) = −6.34E−02
Y−intercept = 0.119
43 PMCs used [8296 scans]
Average IWC = 67.1 gm/km^2
TOTAL Ice = 2118.0 tons
Average FREQUENCY = 0.52%
Average ALBEDO = 6.46∗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: $r_{252}/r_{273} < 5$
15:28:45 Wed Jan 23 2013 /Users/deland/pmc/programs/gplot_v3_iwc_sza.pro

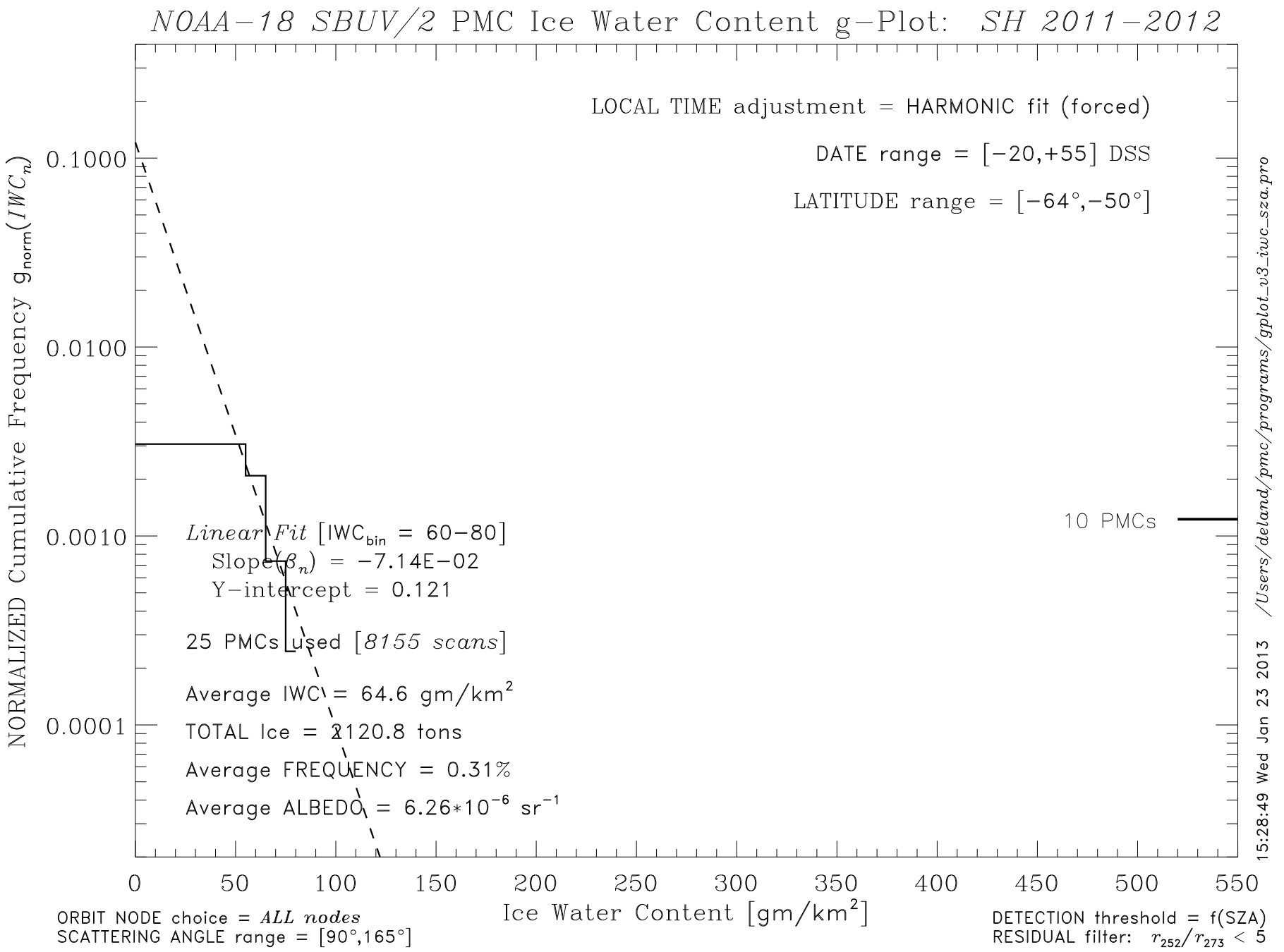

NOAA−18 SBUV/2 PMC Ice Water Content g−Plot: SH 2006−2007
LOCAL TIME adjustment = HARMONIC fit (forced)
DATE range = [−20,+55] DSS
LATITUDE range = [−64°,−50°]
NORMALIZED Cumulative Frequency $g_{norm}(IWC_n)$
0.1000
0.0100
0.0010
0.0001
Linear Fit [IWC_bin = 60−100]
Slope(β_n) = −6.86E−02
Y−intercept = 0.340
81 PMCs used [8268 scans]
Average IWC = 66.4 gm/km^2
TOTAL Ice = 2126.8 tons
Average FREQUENCY = 0.98%
Average ALBEDO = 6.41∗10^{-6} sr^{-1}
10 PMCs
0
50
100
150
200
250
300
350
400
450
500
550
Ice Water Content [gm/km^2]
ORBIT NODE choice = ALL nodes
SCATTERING ANGLE range = [90°,165°]
DETECTION threshold = f(SZA)
RESIDUAL filter: $r_{252}/r_{273} < 5$
15:28:46 Wed Jan 23 2013 /Users/deland/pmc/programs/gplot_v3_iwc_sza.pro

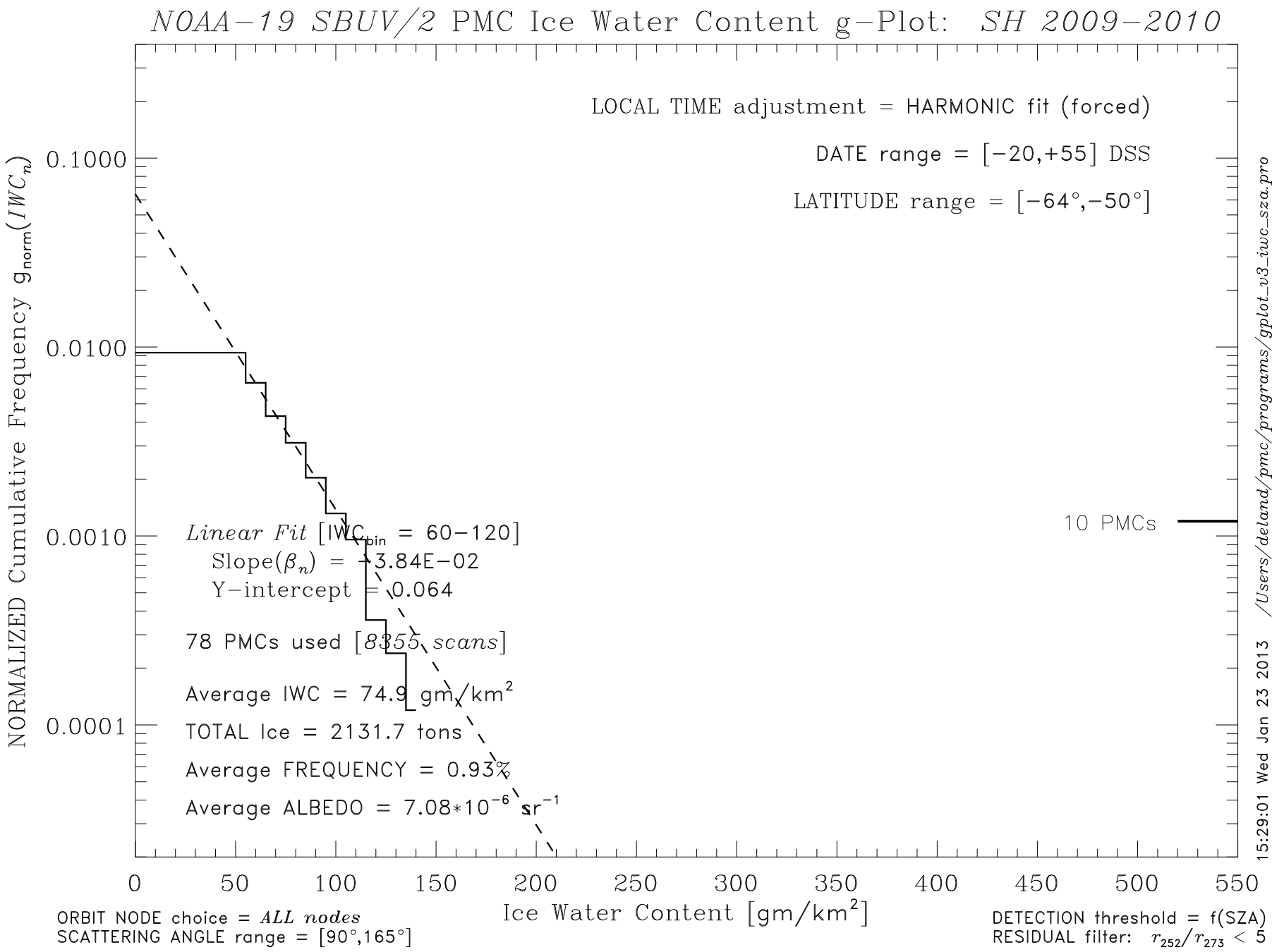

NOAA−18 SBUV/2 PMC Ice Water Content g−Plot: SH 2007−2008
LOCAL TIME adjustment = HARMONIC fit (forced)
DATE range = [−20,+55] DSS
LATITUDE range = [−64°,−50°]
NORMALIZED Cumulative Frequency $g_{norm}(IWC_n)$
0.1000
0.0100
0.0010
0.0001
Linear Fit [IWC_bin = 60−100]
Slope(β_n) = −6.02E−02
Y−intercept = 0.151
60 PMCs used [8269 scans]
Average IWC = 72.4 gm/km^2
TOTAL Ice = 2121.8 tons
Average FREQUENCY = 0.73%
Average ALBEDO = 6.83∗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: $r_{252}/r_{273} < 5$
15:28:47 Wed Jan 23 2013 /Users/deland/pmc/programs/gplot_v3_iwc_sza.pro

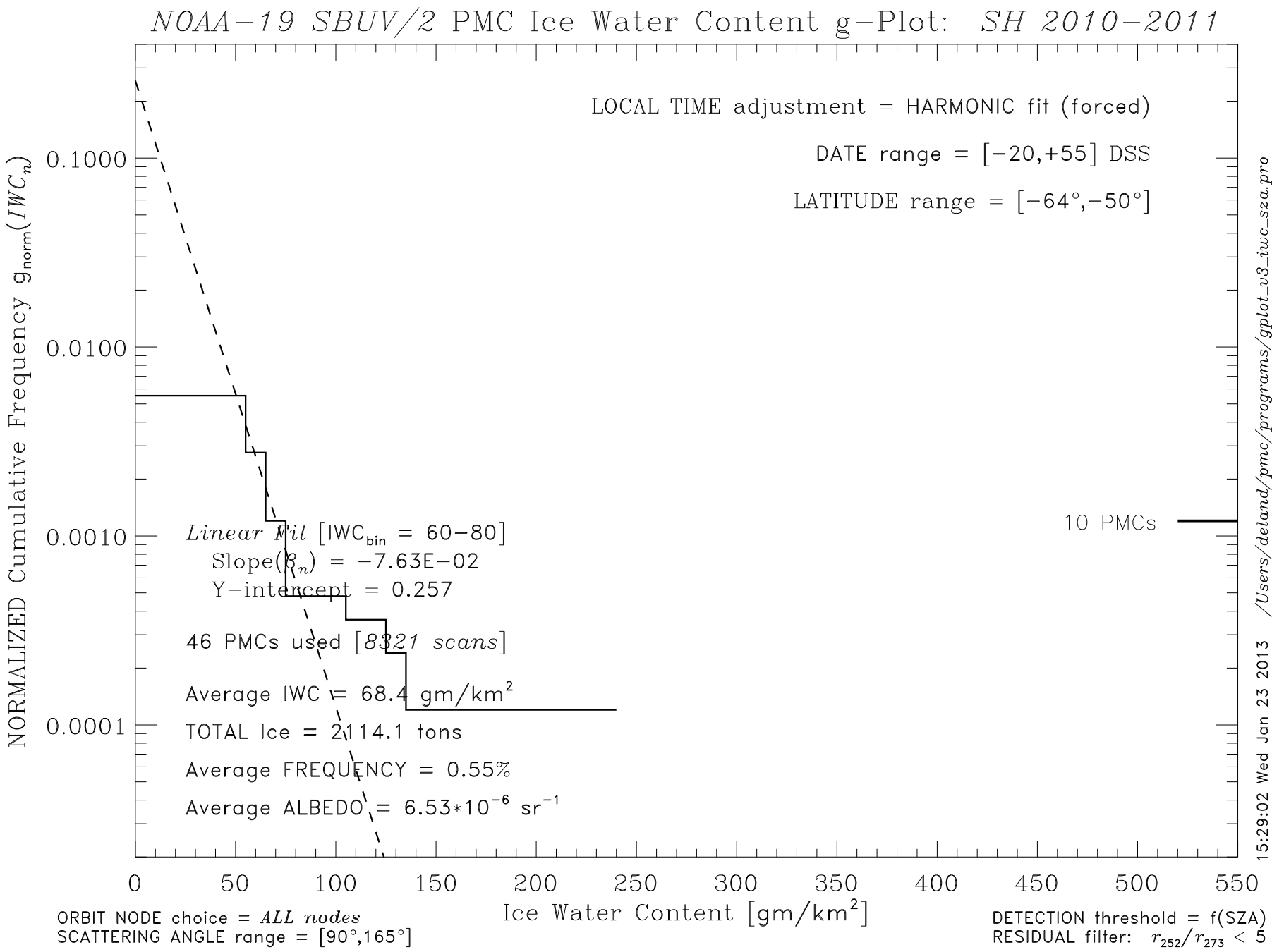

NOAA−18 SBUV/2 PMC Ice Water Content g−Plot: SH 2008−2009
LOCAL TIME adjustment = HARMONIC fit (forced)
DATE range = [−20,+55] DSS
LATITUDE range = [−64°,−50°]
NORMALIZED Cumulative Frequency $g_{norm}(IWC_n)$
0.1000
0.0100
0.0010
0.0001
Linear Fit [IWC_bin = 60−100]
Slope(β_n) = −6.41E−02
Y−intercept = 0.222
75 PMCs used [8225 scans]
Average IWC = 66.0 gm/km^2
TOTAL Ice = 2123.8 tons
Average FREQUENCY = 0.91%
Average ALBEDO = 6.38∗10^{-6} sr^{-1}
10 PMCs
0
50
100
150
200
250
300
350
400
450
500
550
Ice Water Content [gm/km^2]
ORBIT NODE choice = ALL nodes
SCATTERING ANGLE range = [90°,165°]
DETECTION threshold = f(SZA)
RESIDUAL filter: $r_{252}/r_{273} < 5$
15:28:47 Wed Jan 23 2013 /Users/deland/pmc/programs/gplot_v3_iwc_sza.pro

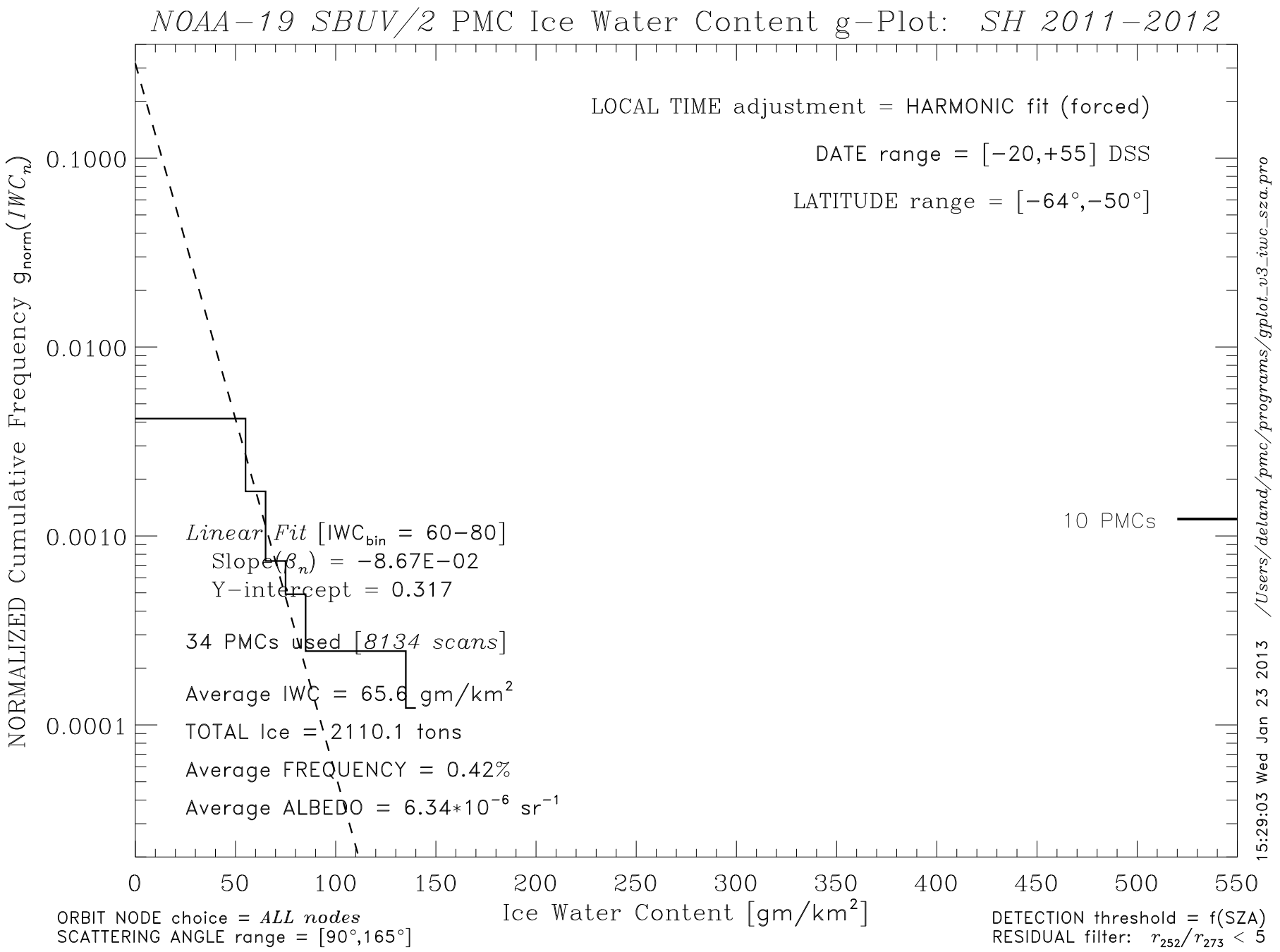

NOAA−18 SBUV/2 PMC Ice Water Content g−Plot: SH 2009−2010
LOCAL TIME adjustment = HARMONIC fit (forced)
DATE range = [−20,+55] DSS
LATITUDE range = [−64°,−50°]
NORMALIZED Cumulative Frequency $g_{norm}(IWC_n)$
0.1000
0.0100
0.0010
0.0001
Linear Fit [IWC$_{bin}$ = 60−140]
Slope(β_n) = −3.36E−02
Y−intercept = 0.064
110 PMCs used [8722 scans]
Average IWC = 78.4 gm/km^2
TOTAL Ice = 2141.5 tons
Average FREQUENCY = 1.26%
Average ALBEDO = 7.36∗10^{-6} sr^{-1}
10 PMCs
0
50
100
150
200
250
300
350
400
450
500
550
Ice Water Content [gm/km^2]
ORBIT NODE choice = ALL nodes
SCATTERING ANGLE range = [90°,165°]
DETECTION threshold = f(SZA)
RESIDUAL filter: $r_{252}/r_{273} < 5$
15:28:48 Wed Jan 23 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 = HARMONIC fit (forced)
DATE range = [−20,+55] DSS
LATITUDE range = [−64°,−50°]
NORMALIZED Cumulative Frequency $g_{norm}(IWC_n)$
0.1000
0.0100
0.0010
0.0001
Linear Fit [IWC_bin = 60−80]
Slope(β_n) = −8.16E−02
Y−intercept = 0.347
46 PMCs used [8381 scans]
Average IWC = 64.5 gm/km²
TOTAL Ice = 2121.2 tons
Average FREQUENCY = 0.55%
Average ALBEDO = 6.24∗10⁻⁶ sr⁻¹
10 PMCs
0
50
100
150
200
250
300
350
400
450
500
550
Ice Water Content [gm/km²]
ORBIT NODE choice = ALL nodes
SCATTERING ANGLE range = [90°,165°]
DETECTION threshold = f(SZA)
RESIDUAL filter: $r_{252}/r_{273} < 5$
15:28:49 Wed Jan 23 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 = HARMONIC fit (forced)
DATE range = [−20,+55] DSS
LATITUDE range = [−64°,−50°]
NORMALIZED Cumulative Frequency $g_{norm}(IWC_n)$
0.1000
0.0100
0.0010
0.0001
Linear Fit [IWC$_{bin}$ = 60−80]
Slope(β_n) = −7.14E−02
Y−intercept = 0.121
25 PMCs used [8155 scans]
Average IWC = 64.6 gm/km^2
TOTAL Ice = 2120.8 tons
Average FREQUENCY = 0.31%
Average ALBEDO = 6.26∗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: $r_{252}/r_{273} < 5$
15:28:49 Wed Jan 23 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 = HARMONIC fit (forced)
DATE range = [−20,+55] DSS
LATITUDE range = [−64°,−50°]
NORMALIZED Cumulative Frequency $g_{norm}(IWC_n)$
0.1000
0.0100
0.0010
0.0001
Linear Fit [IWC_{bin} = 60−120]
Slope(β_n) = −3.84E−02
Y−intercept = 0.064
78 PMCs used [8355 scans]
Average IWC = 74.9 gm/km^2
TOTAL Ice = 2131.7 tons
Average FREQUENCY = 0.93%
Average ALBEDO = 7.08∗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: $r_{252}/r_{273} < 5$
15:29:01 Wed Jan 23 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 = HARMONIC fit (forced)
DATE range = [−20,+55] DSS
LATITUDE range = [−64°,−50°]
NORMALIZED Cumulative Frequency $g_{norm}(IWC_n)$
0.1000
0.0100
0.0010
0.0001
Linear Fit [IWC_{bin} = 60−80]
Slope(β_n) = −7.63E−02
Y−intercept = 0.257
46 PMCs used [8321 scans]
Average IWC = 68.4 gm/km^2
TOTAL Ice = 2114.1 tons
Average FREQUENCY = 0.55%
Average ALBEDO = 6.53∗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: $r_{252}/r_{273} < 5$
15:29:02 Wed Jan 23 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 = HARMONIC fit (forced)
DATE range = [−20,+55] DSS
LATITUDE range = [−64°,−50°]
NORMALIZED Cumulative Frequency $g_{norm}(IWC_n)$
0.1000
0.0100
0.0010
0.0001
Linear Fit [IWC$_{bin}$ = 60−80]
Slope(β_n) = −8.67E−02
Y−intercept = 0.317
34 PMCs used [8134 scans]
Average IWC = 65.6 gm/km^2
TOTAL Ice = 2110.1 tons
Average FREQUENCY = 0.42%
Average ALBEDO = 6.34∗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: $r_{252}/r_{273} < 5$
15:29:03 Wed Jan 23 2013 /Users/deland/pmc/programs/gplot_v3_iwc_sza.pro