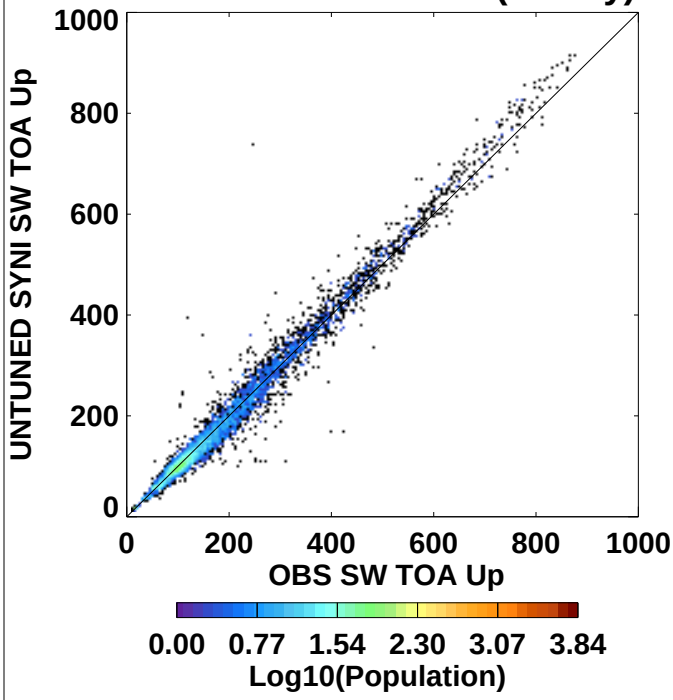
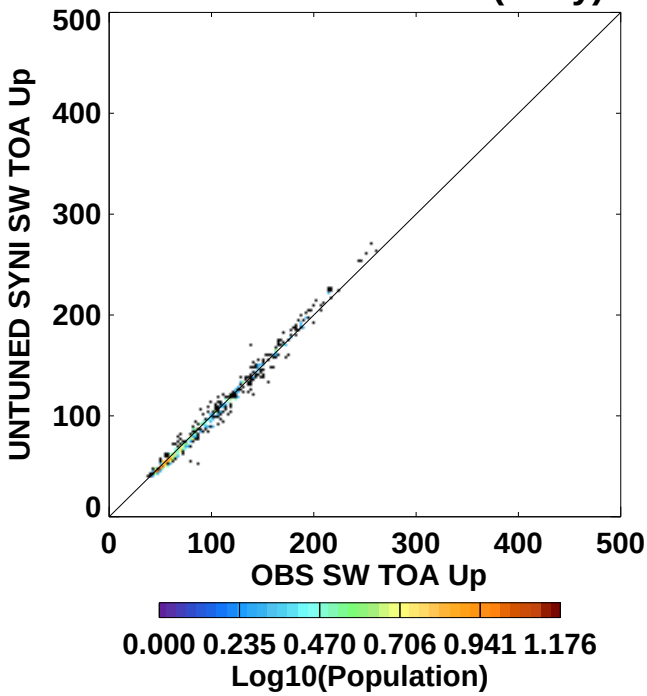
SYNI Beta4 FM1 2000:2005 /Jan,Apr,Jul,Oct: FM1 (STS validation subset)
NAU -0.521 166.916 Nauru (ARM TWP2)

Untuned TOA SW UP(Hourly)



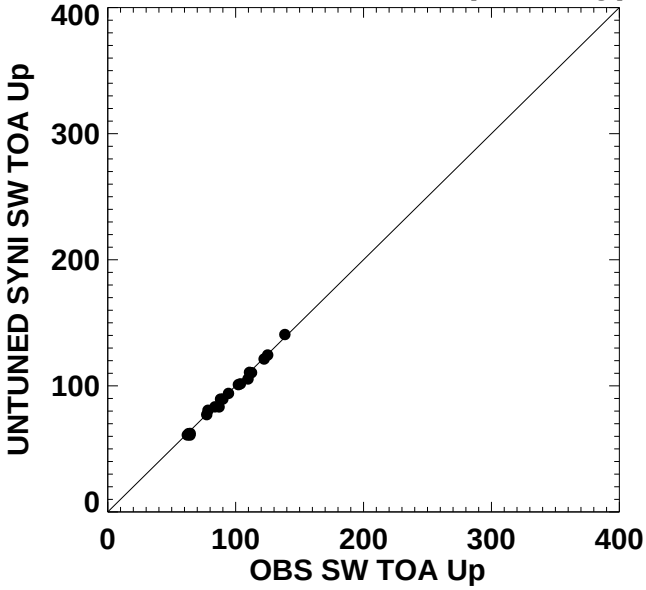
N= 14037.	Mean	(StdDev)
OBS SW TOA Up	93.48	(138.1)
UNTUNED SYNI SW TOA Up	92.68	(140.5)
Y-X	-0.806	(15.47)
RMS(	15.49).....	

Untuned TOA SW UP(Daily)



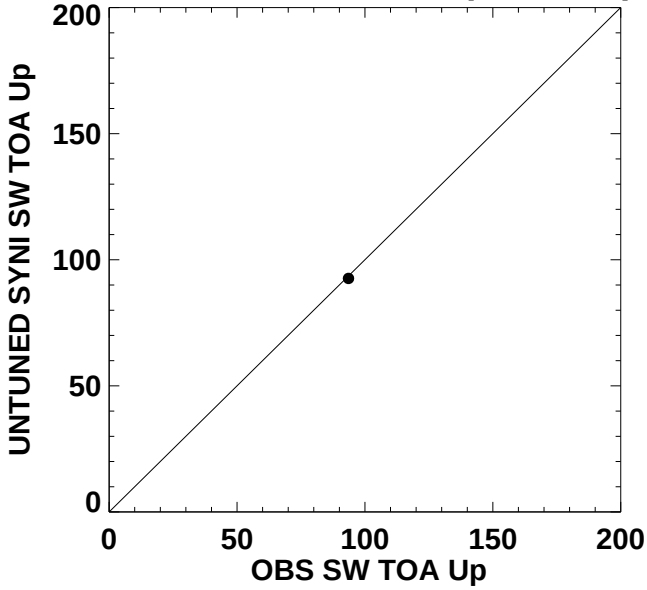
N= 582.	Mean	(StdDev)
OBS SW TOA Up	93.40	(47.52)
UNTUNED SYNI SW TOA Up	92.59	(49.14)
Y-X	-0.811	(5.51)
RMS(	5.56).....	

Untuned TOA SW UP(Monthly)



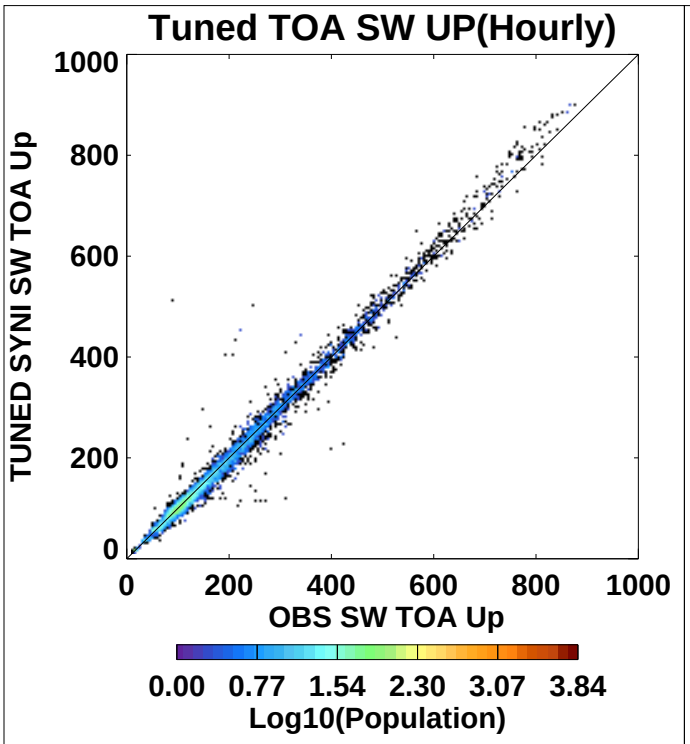
N= 19.	Mean	(StdDev)
OBS SW TOA Up	93.56	(22.60)
UNTUNED SYNI SW TOA Up	92.62	(23.02)
Y-X	-0.943	(1.76)
RMS(	1.96).....	

Untuned TOA SW UP(YEARLY)

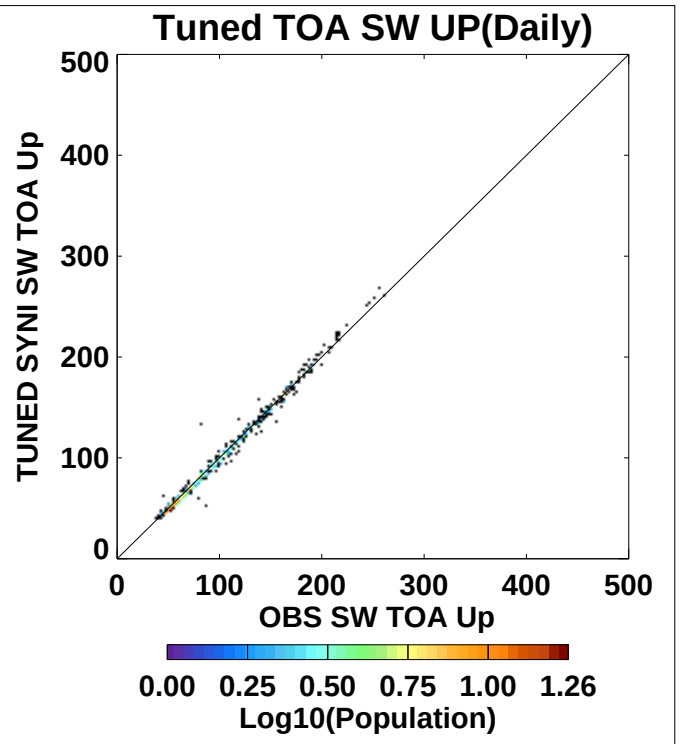


N= 1.	Mean	(StdDev)
OBS SW TOA Up	93.56	(-999.0)
UNTUNED SYNI SW TOA Up	92.62	(-999.0)
Y-X	-0.943	(-999.0)
RMS(	-999.0).....	

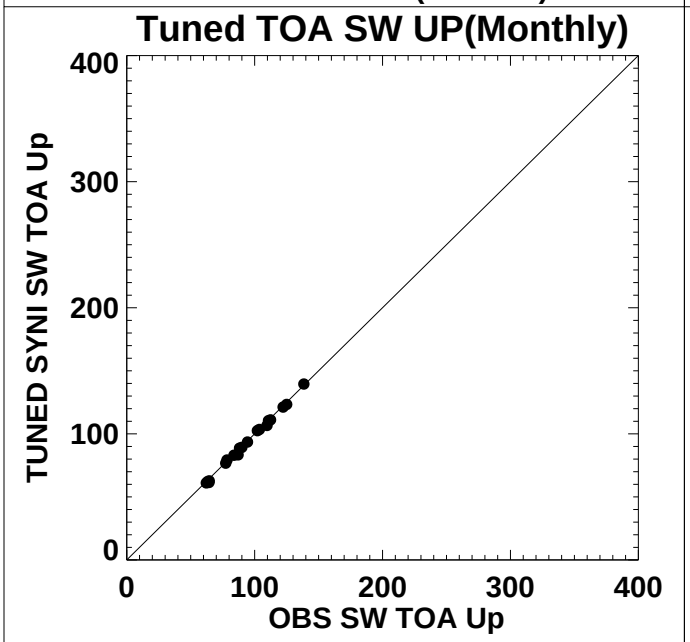
SYNI Beta4 FM1 2000:2005 /Jan,Apr,Jul,Oct: FM1 (STS validation subset)
NAU -0.521 166.916 Nauru (ARM TWP2)



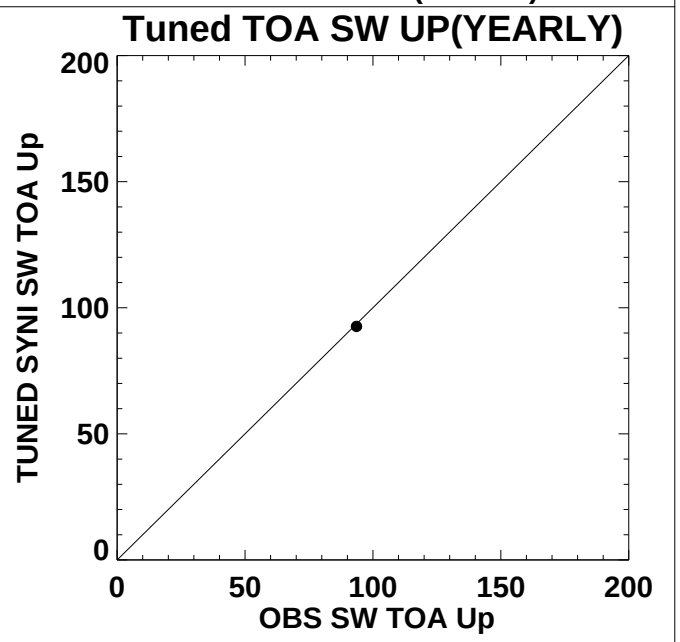
N= 14037.	Mean	(StdDev)
OBS SW TOA Up	93.48	(138.1)
TUNED SYNI SW TOA Up	92.66	(139.2)
Y-X	-0.818	(11.82)
RMS(	11.84).....	



N= 582.	Mean	(StdDev)
OBS SW TOA Up	93.40	(47.52)
TUNED SYNI SW TOA Up	92.58	(48.45)
Y-X	-0.817	(4.61)
RMS(	4.68).....	



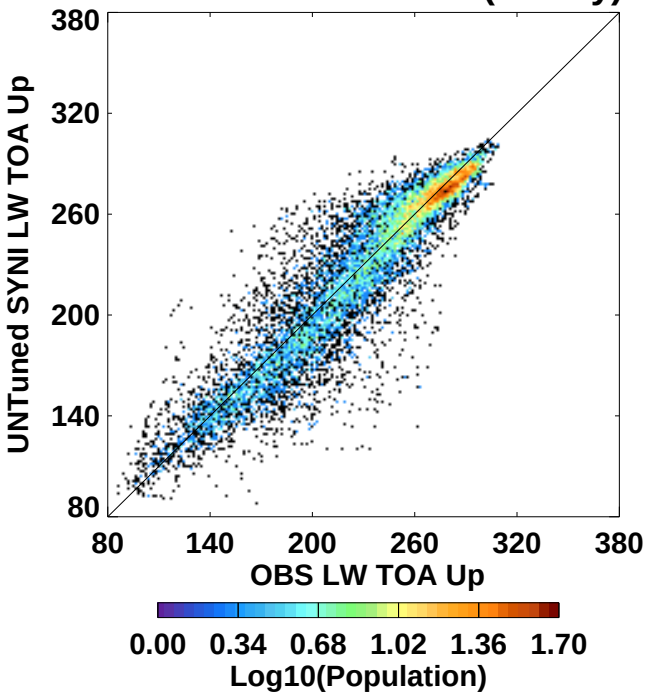
N= 19.	Mean	(StdDev)
OBS SW TOA Up	93.56	(22.60)
TUNED SYNI SW TOA Up	92.62	(22.93)
Y-X	-0.941	(1.27)
RMS(	1.56).....	



N= 1.	Mean	(StdDev)
OBS SW TOA Up	93.56	(-999.0)
TUNED SYNI SW TOA Up	92.62	(-999.0)
Y-X	-0.941	(-999.0)
RMS(	-999.0).....	

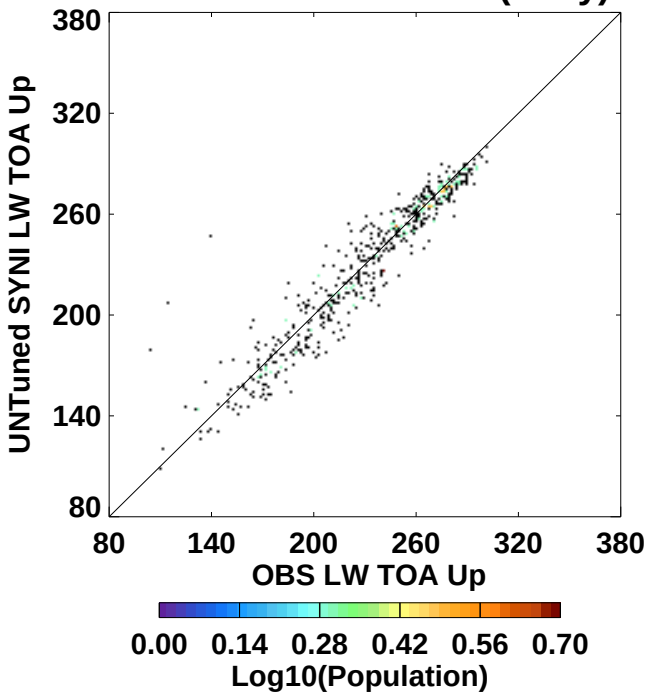
SYNI Beta4 FM1 2000:2005 /Jan,Apr,Jul,Oct: FM1 (STS validation subset)
NAU -0.521 166.916 Nauru (ARM TWP2)

UNTuned TOA LW UP(Hourly)



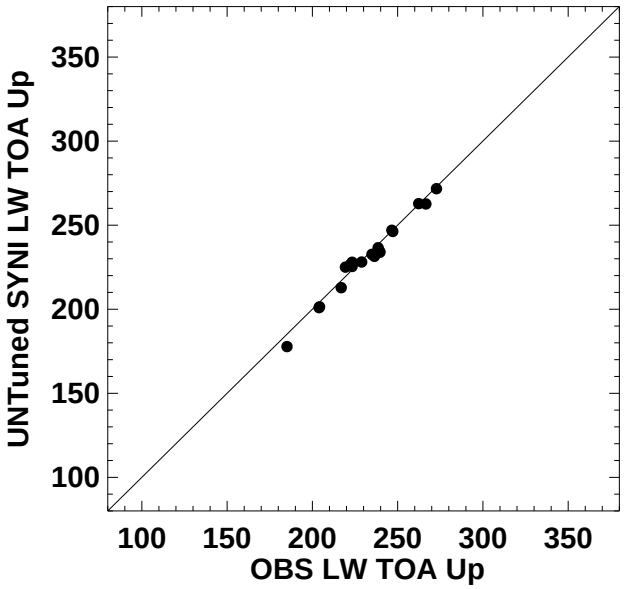
N= 13988.	Mean	(StdDev)
OBS LW TOA Up	232.9(	48.51)
UNTuned SYNI LW TOA Up	230.9(	50.20)
Y-X	-1.98(	17.85)
RMS(	17.96).....	

UNTuned TOA LW UP(Daily)



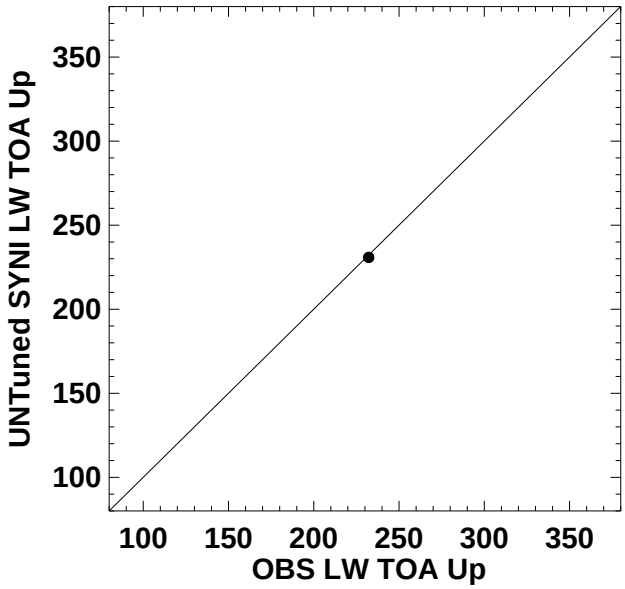
N= 581.	Mean	(StdDev)
OBS LW TOA Up	232.4(	42.60)
UNTuned SYNI LW TOA Up	230.9(	42.81)
Y-X	-1.50(	12.76)
RMS(	12.83).....	

UNTuned TOA LW UP(Monthly)



N= 19.	Mean	(StdDev)
OBS LW TOA Up	232.2(	22.12)
UNTuned SYNI LW TOA Up	230.8(	22.68)
Y-X	-1.37(	3.63)
RMS(	3.79).....	

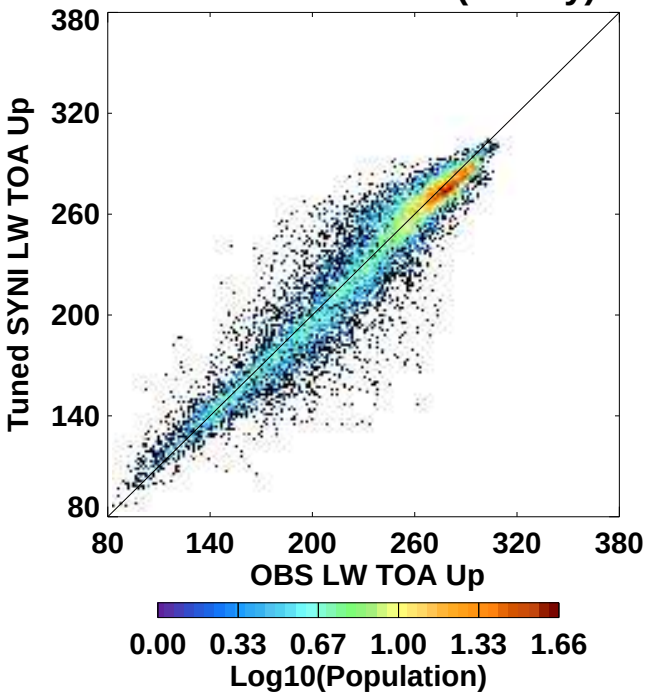
UNTuned TOA LW UP(YEARLY)



N= 1.	Mean	(StdDev)
OBS LW TOA Up	232.2(	-999.0)
UNTuned SYNI LW TOA Up	230.8(	-999.0)
Y-X	-1.37(	-999.0)
RMS(	-999.0).....	

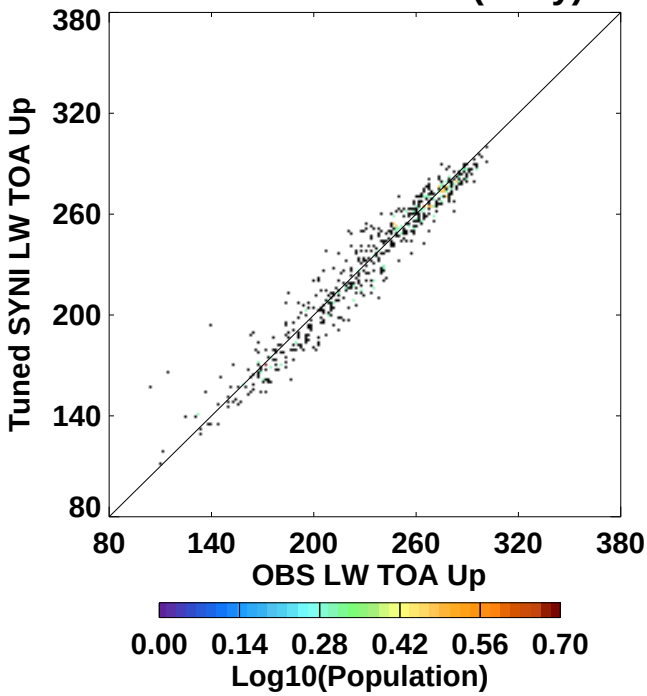
SYNI Beta4 FM1 2000:2005 /Jan,Apr,Jul,Oct: FM1 (STS validation subset)
NAU -0.521 166.916 Nauru (ARM TWP2)

Tuned TOA LW UP(Hourly)



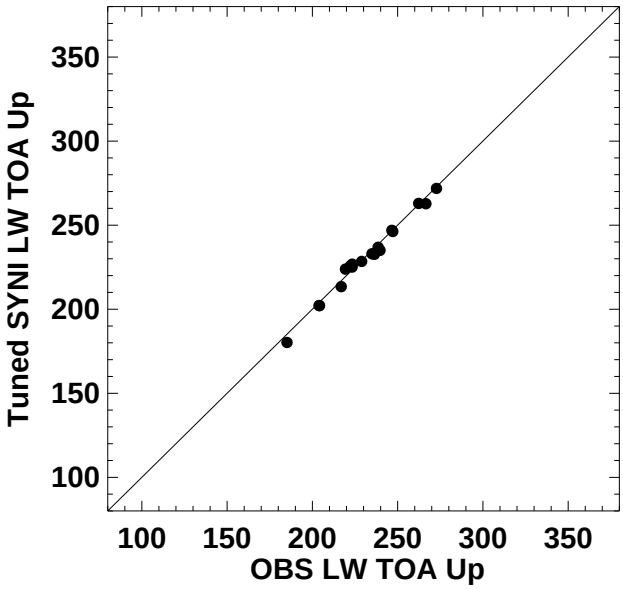
N= 13992.	Mean	(StdDev)
OBS LW TOA Up	232.9	(48.57)
Tuned SYNI LW TOA Up	231.4	(49.17)
Y-X	-1.42	(15.33)
RMS(	15.39).....	

Tuned TOA LW UP(Daily)



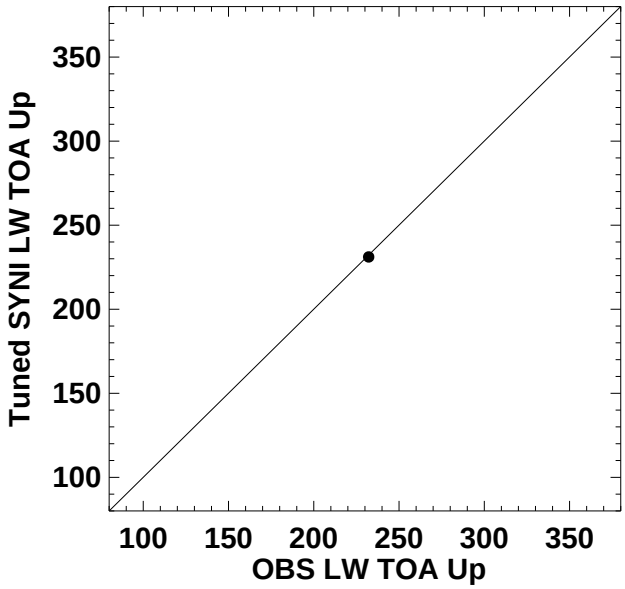
N= 581.	Mean	(StdDev)
OBS LW TOA Up	232.4	(42.60)
Tuned SYNI LW TOA Up	231.3	(42.28)
Y-X	-1.15	(9.97)
RMS(	10.03).....	

Tuned TOA LW UP(Monthly)



N= 19.	Mean	(StdDev)
OBS LW TOA Up	232.2	(22.12)
Tuned SYNI LW TOA Up	231.1	(22.29)
Y-X	-1.07	(2.85)
RMS(	2.97).....	

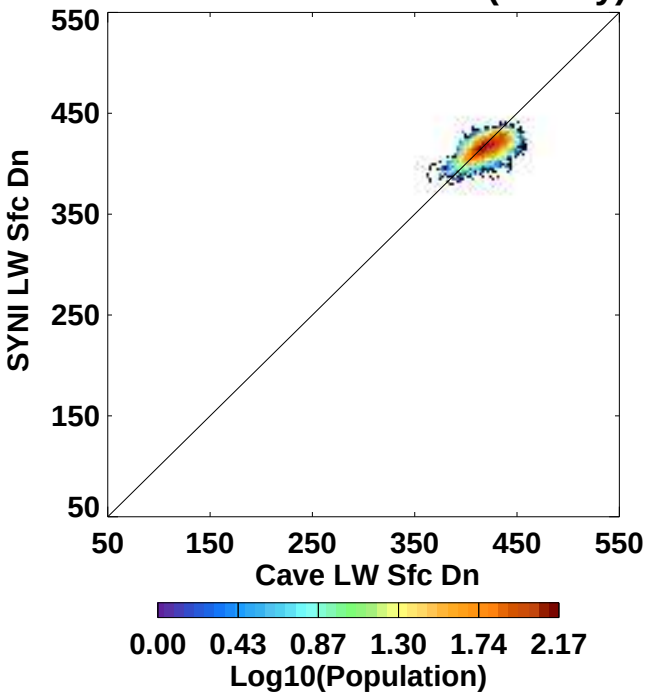
Tuned TOA LW UP(YEARLY)



N= 1.	Mean	(StdDev)
OBS LW TOA Up	232.2	(-999.0)
Tuned SYNI LW TOA Up	231.1	(-999.0)
Y-X	-1.07	(-999.0)
RMS(	-999.0).....	

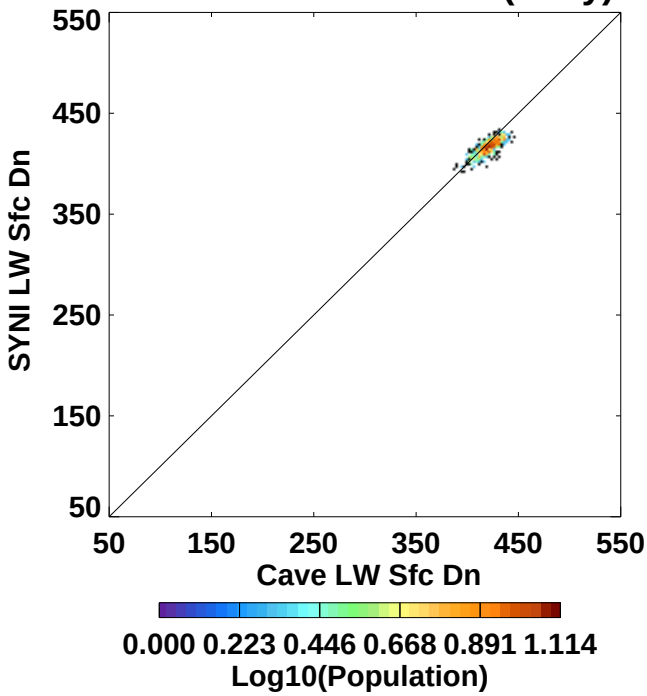
SYNI Beta4 FM1 2000:2005 /Jan,Apr,Jul,Oct: FM1 (STS validation subset)
NAU -0.521 166.916 Nauru (ARM TWP2)

Tuned SFC LW DOWN(Hourly)



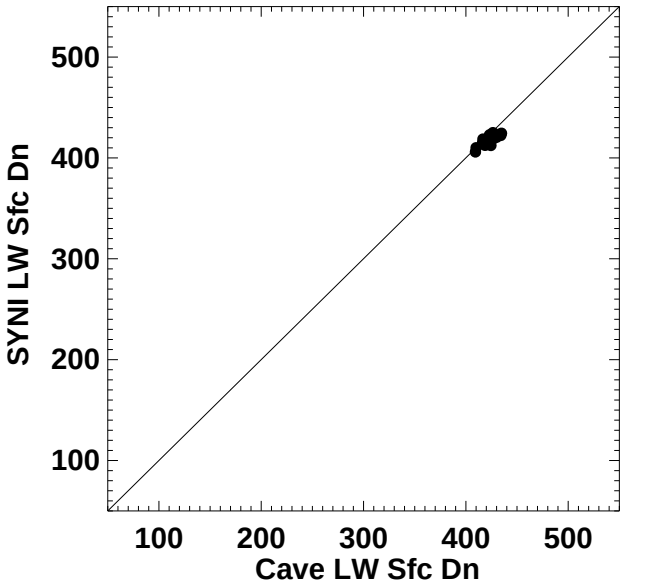
N= 13836.	Mean	(StdDev)
Cave LW Sfc Dn	422.9(	13.51)
SYNI LW Sfc Dn	418.3(	9.04)
Y-X	-4.56(	10.76)
RMS(	11.68).....	

Tuned SFC LW DOWN(Daily)



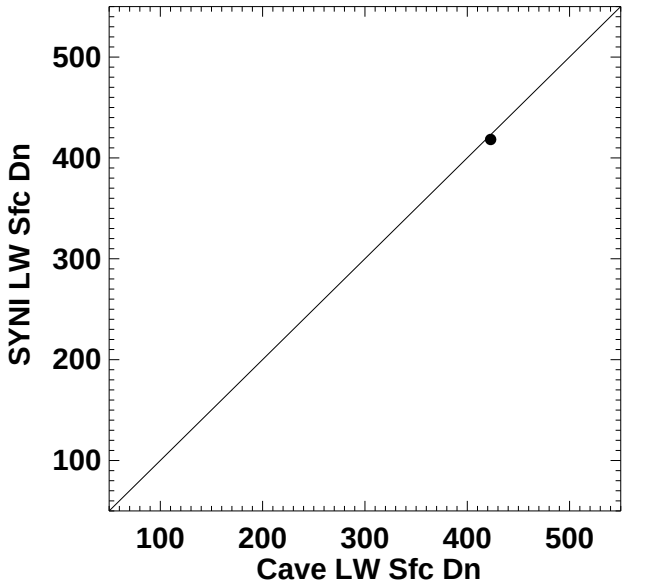
N= 572.	Mean	(StdDev)
Cave LW Sfc Dn	422.9(	10.01)
SYNI LW Sfc Dn	418.3(	7.88)
Y-X	-4.57(	6.19)
RMS(	7.69).....	

Tuned SFC LW DOWN(Monthly)



N= 19.	Mean	(StdDev)
Cave LW Sfc Dn	422.8(	7.05)
SYNI LW Sfc Dn	418.3(	5.30)
Y-X	-4.57(	4.11)
RMS(	6.08).....	

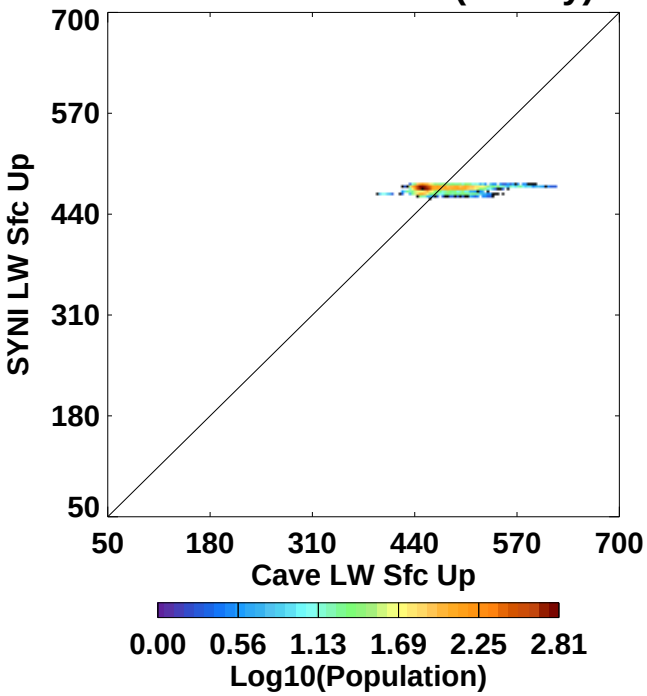
Tuned SFC LW DOWN(YEARLY)



N= 1.	Mean	(StdDev)
Cave LW Sfc Dn	422.8(	-999.0)
SYNI LW Sfc Dn	418.3(	-999.0)
Y-X	-4.57(	-999.0)
RMS(	-999.0).....	

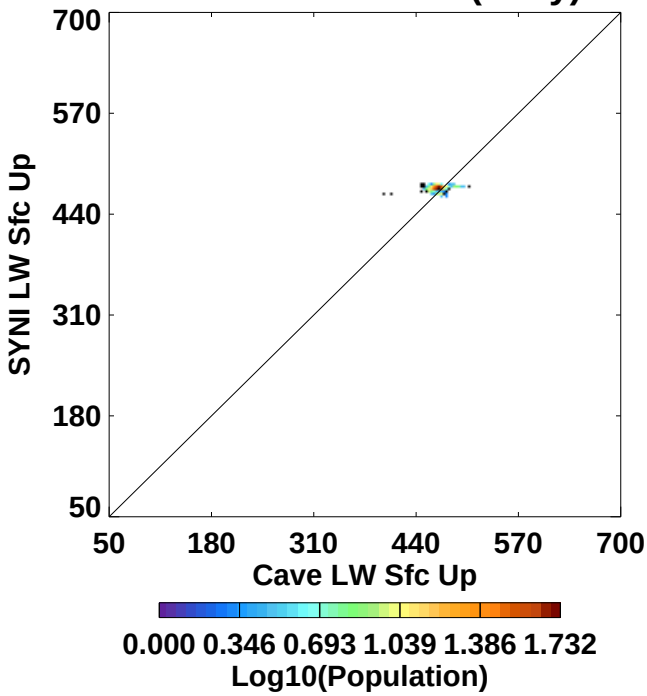
SYNI Beta4 FM1 2000:2005 /Jan,Apr,Jul,Oct: FM1 (STS validation subset)
NAU -0.521 166.916 Nauru (ARM TWP2)

Tuned SFC LW UP(Hourly)



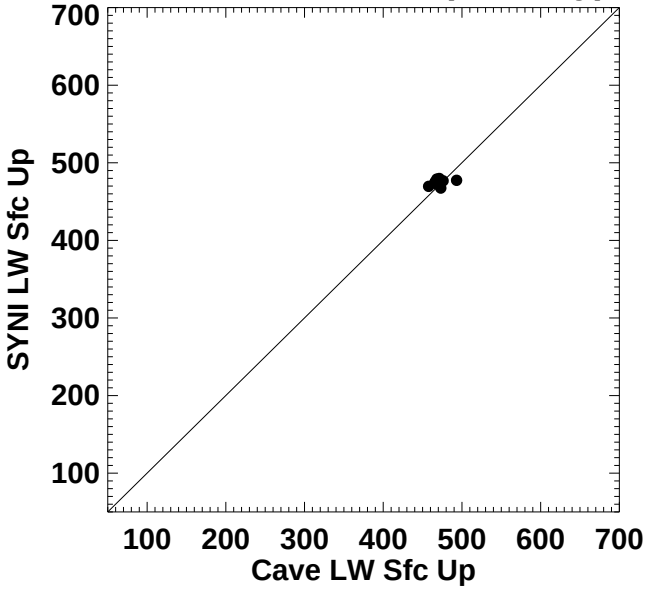
N= 13900.	Mean	(StdDev)
Cave LW Sfc Up	470.1(	28.34)
SYNI LW Sfc Up	475.3(	3.13)
Y-X	5.20(	28.30)
RMS(	28.77).....	

Tuned SFC LW UP(Daily)



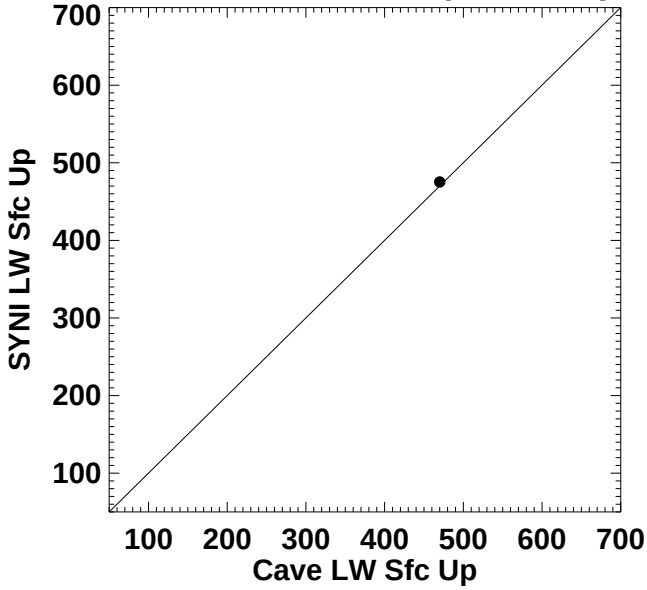
N= 574.	Mean	(StdDev)
Cave LW Sfc Up	470.1(	9.64)
SYNI LW Sfc Up	475.3(	3.10)
Y-X	5.24(	9.52)
RMS(	10.86).....	

Tuned SFC LW UP(Monthly)



N= 19.	Mean	(StdDev)
Cave LW Sfc Up	470.0(	6.67)
SYNI LW Sfc Up	475.2(	3.06)
Y-X	5.24(	6.46)
RMS(	8.18).....	

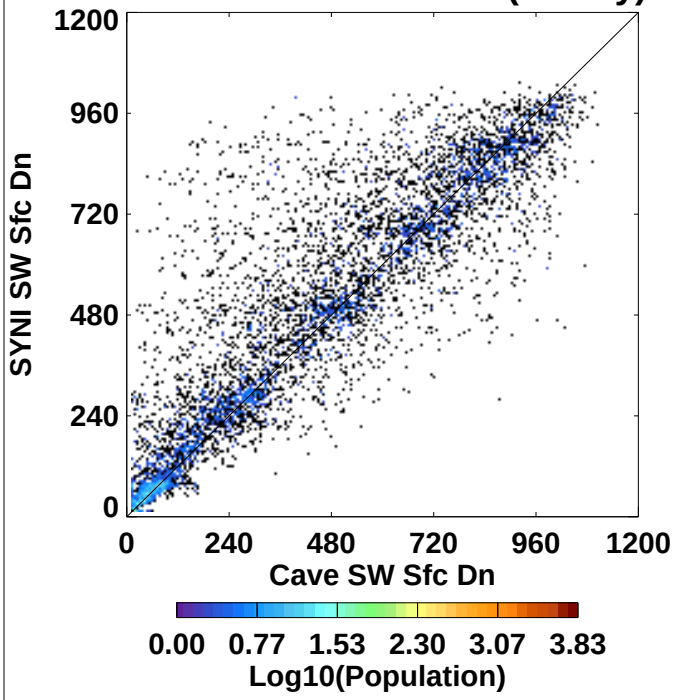
Tuned SFC LW UP(YEARLY)



N= 1.	Mean	(StdDev)
Cave LW Sfc Up	470.0(	-999.0)
SYNI LW Sfc Up	475.2(	-999.0)
Y-X	5.24(	-999.0)
RMS(	-999.0).....	

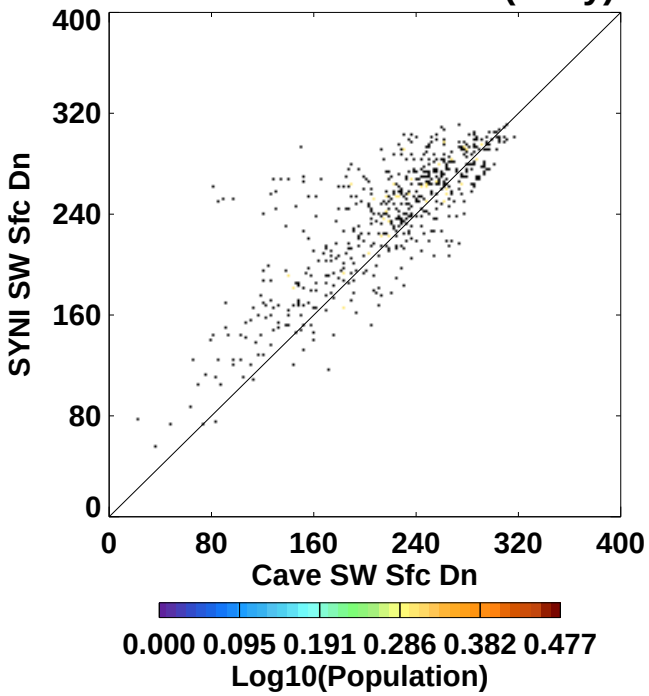
SYNI Beta4 FM1 2000:2005 /Jan,Apr,Jul,Oct: FM1 (STS validation subset)
NAU -0.521 166.916 Nauru (ARM TWP2)

Tuned SFC SW DOWN(Hourly)



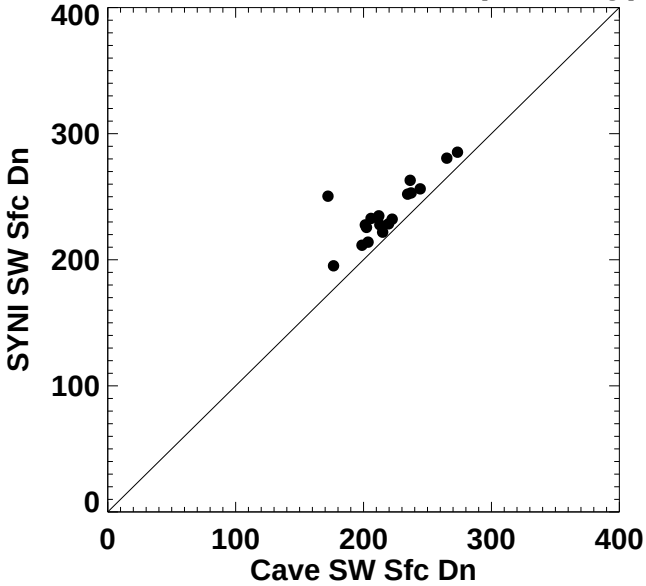
N= 13836.	Mean	(StdDev)
Cave SW Sfc Dn	217.9(	306.8)
SYNI SW Sfc Dn	238.2(	318.5)
Y-X	20.27(	101.7)
RMS(	103.7).....	

Tuned SFC SW DOWN(Daily)



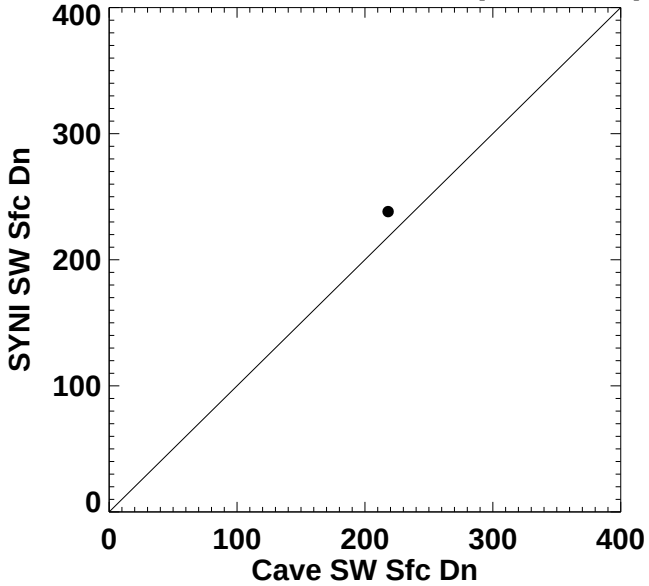
N= 572.	Mean	(StdDev)
Cave SW Sfc Dn	218.0(	57.47)
SYNI SW Sfc Dn	238.3(	50.53)
Y-X	20.28(	33.77)
RMS(	39.36).....	

Tuned SFC SW DOWN(Monthly)



N= 19.	Mean	(StdDev)
Cave SW Sfc Dn	218.1(	26.01)
SYNI SW Sfc Dn	238.2(	22.98)
Y-X	20.12(	15.44)
RMS(	25.11).....	

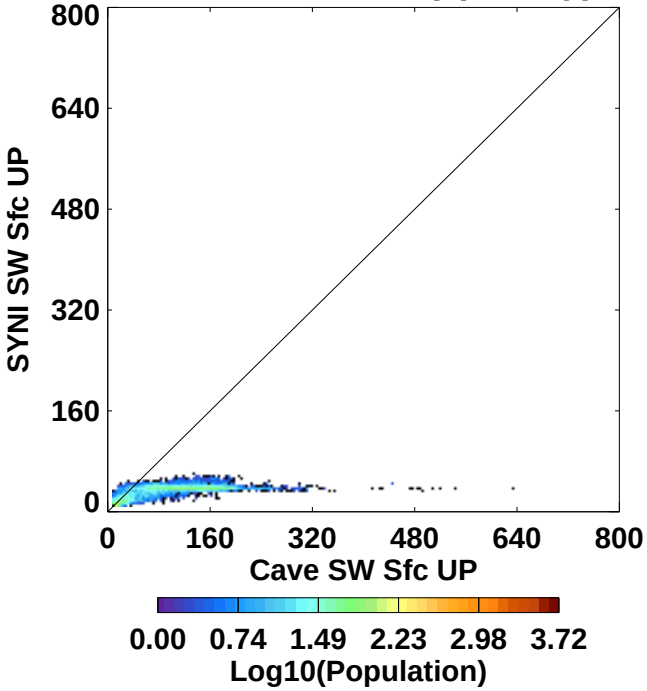
Tuned SFC SW DOWN(YEARLY)



N= 1.	Mean	(StdDev)
Cave SW Sfc Dn	218.1(	-999.0)
SYNI SW Sfc Dn	238.2(	-999.0)
Y-X	20.12(	-999.0)
RMS(	-999.0).....	

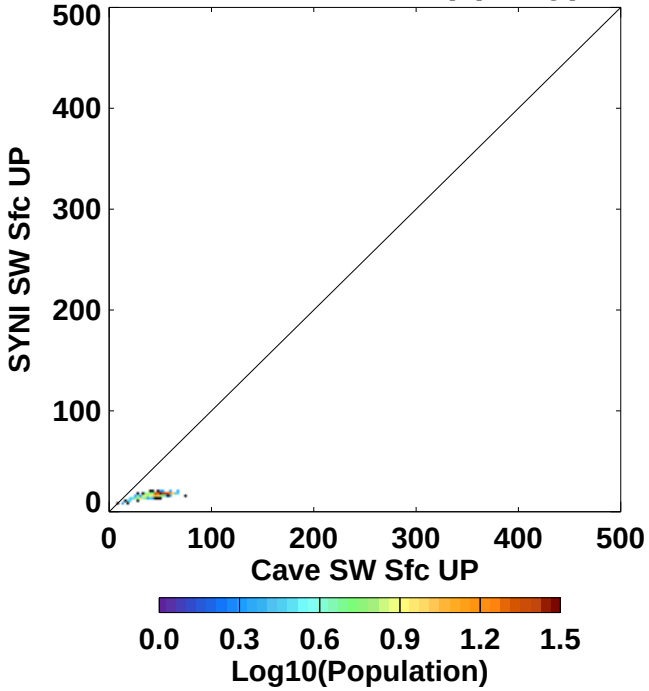
SYNI Beta4 FM1 2000:2005 /Jan,Apr,Jul,Oct: FM1 (STS validation subset)
NAU -0.521 166.916 Nauru (ARM TWP2)

Tuned SFC SW Up(Hourly)



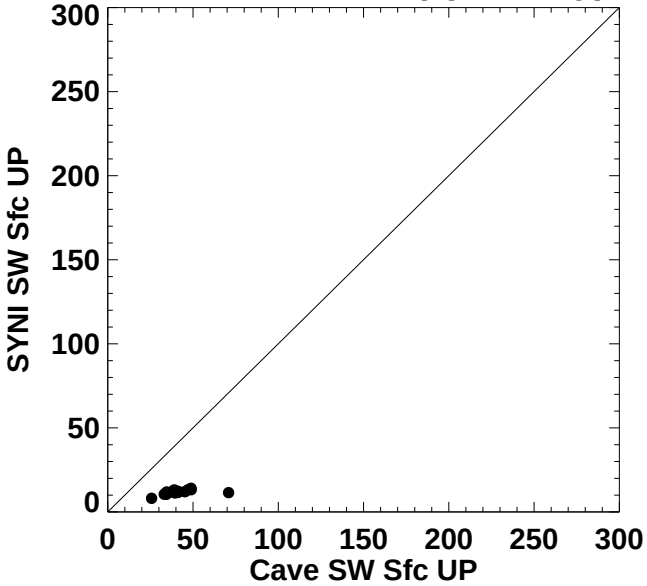
N= 12047.	Mean	(StdDev)
Cave SW Sfc UP	52.50(	67.44)
SYNI SW Sfc UP	14.30(	14.60)
Y-X	-38.20(	56.00)
RMS(	67.78).....	

Tuned SFC SW Up(Daily)



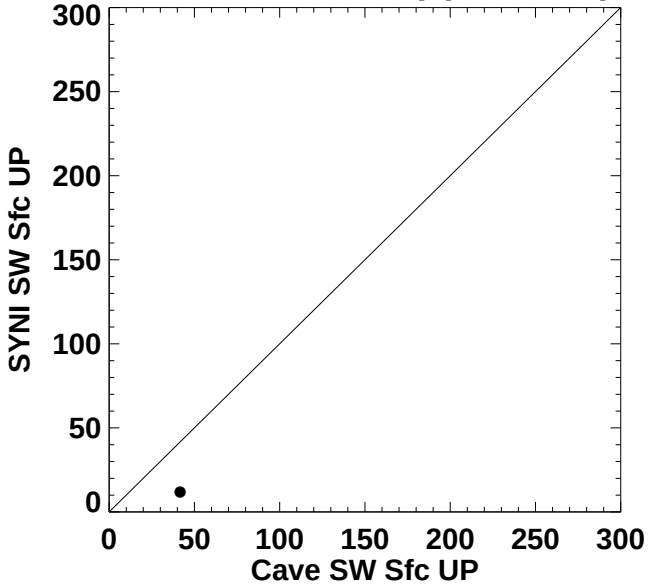
N= 368.	Mean	(StdDev)
Cave SW Sfc UP	41.95(	11.57)
SYNI SW Sfc UP	12.35(	2.25)
Y-X	-29.59(	9.89)
RMS(	31.20).....	

Tuned SFC SW Up(Monthly)



N= 17.	Mean	(StdDev)
Cave SW Sfc UP	41.58(	9.58)
SYNI SW Sfc UP	11.86(	1.35)
Y-X	-29.73(	9.02)
RMS(	30.99).....	

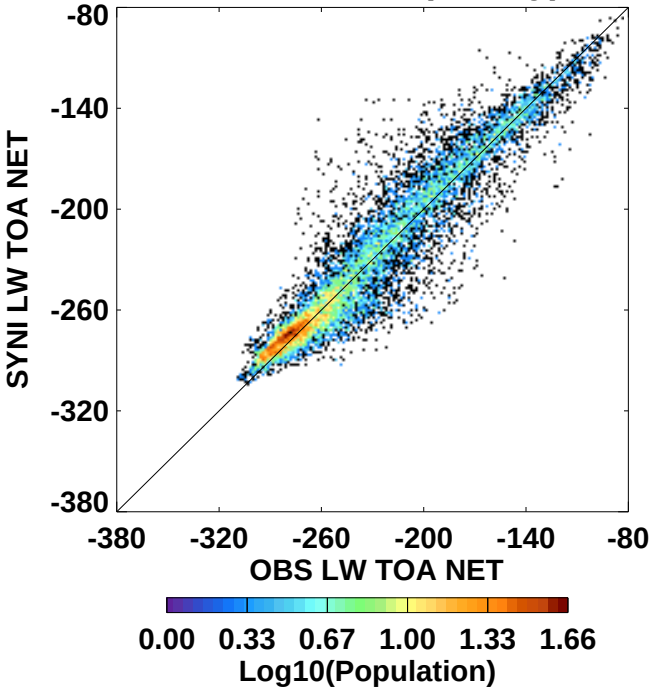
Tuned SFC SW Up(YEARLY)



N= 1.	Mean	(StdDev)
Cave SW Sfc UP	41.58(	-999.0)
SYNI SW Sfc UP	11.86(	-999.0)
Y-X	-29.73(	-999.0)
RMS(	-999.0).....	

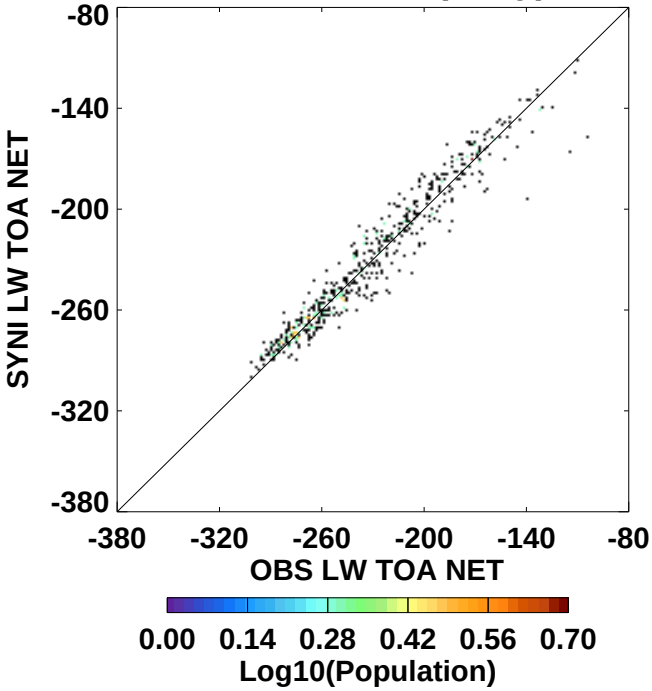
SYNI Beta4 FM1 2000:2005 /Jan,Apr,Jul,Oct: FM1 (STS validation subset)
NAU -0.521 166.916 Nauru (ARM TWP2)

TOA LW NET(Hourly)



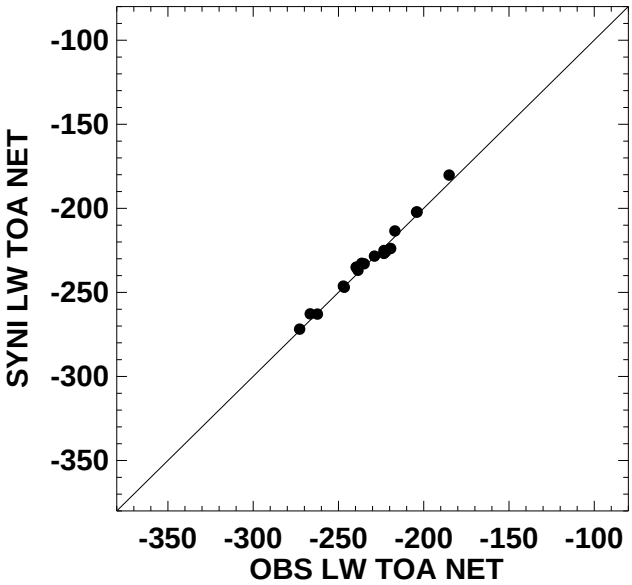
N= 13992.	Mean	(StdDev)
OBS LW TOA NET	-232.9	(48.57)
SYNI LW TOA NET	-231.4	(49.17)
Y-X	1.42	(15.33)
RMS(	15.39).....	

TOA LW NET(Daily)



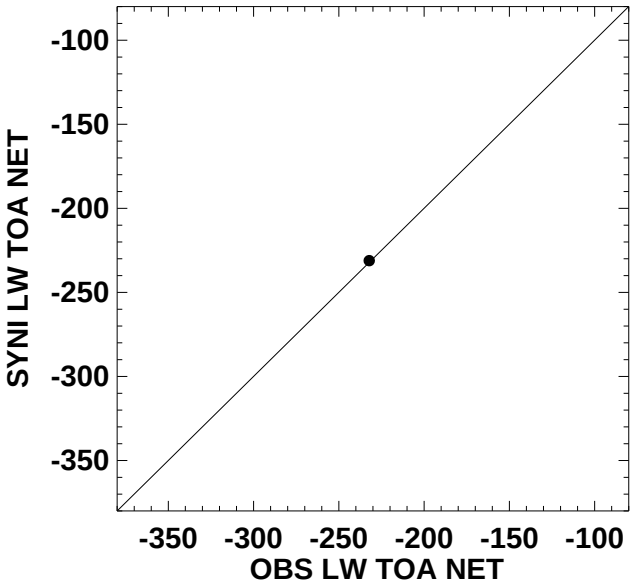
N= 581.	Mean	(StdDev)
OBS LW TOA NET	-232.4	(42.60)
SYNI LW TOA NET	-231.3	(42.28)
Y-X	1.15	(9.97)
RMS(	10.03).....	

TOA LW NET(Monthly)



N= 19.	Mean	(StdDev)
OBS LW TOA NET	-232.2	(22.12)
SYNI LW TOA NET	-231.1	(22.29)
Y-X	1.07	(2.85)
RMS(	2.97).....	

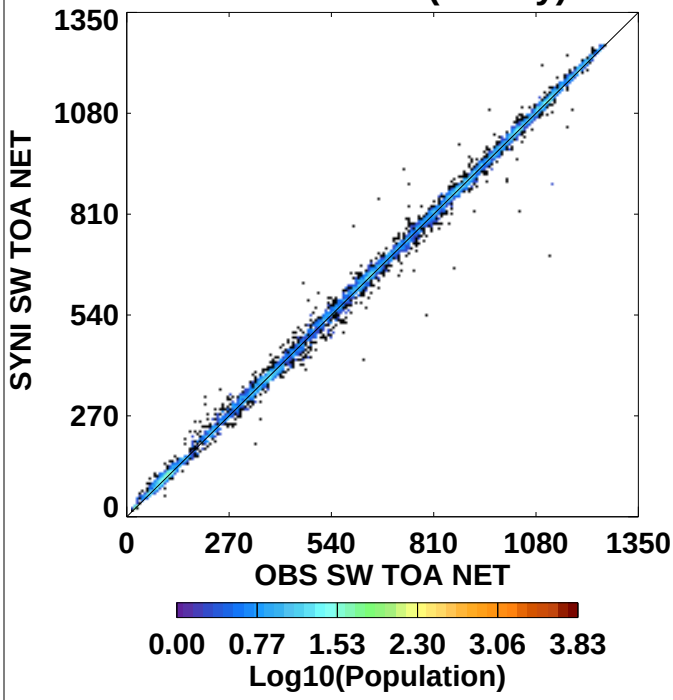
TOA LW NET(YEARLY)



N= 1.	Mean	(StdDev)
OBS LW TOA NET	-232.2	(-999.0)
SYNI LW TOA NET	-231.1	(-999.0)
Y-X	1.07	(-999.0)
RMS(	-999.0).....	

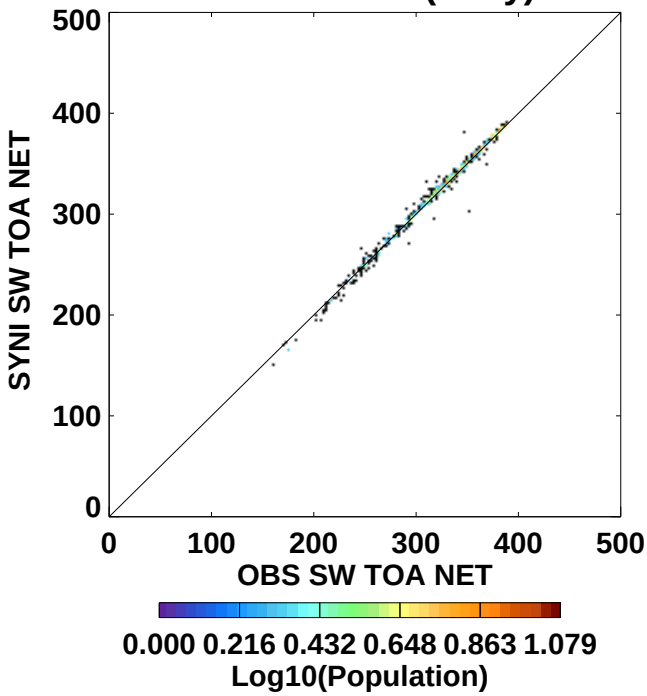
SYNI Beta4 FM1 2000:2005 /Jan,Apr,Jul,Oct: FM1 (STS validation subset)
NAU -0.521 166.916 Nauru (ARM TWP2)

SW TOA NET(Hourly)



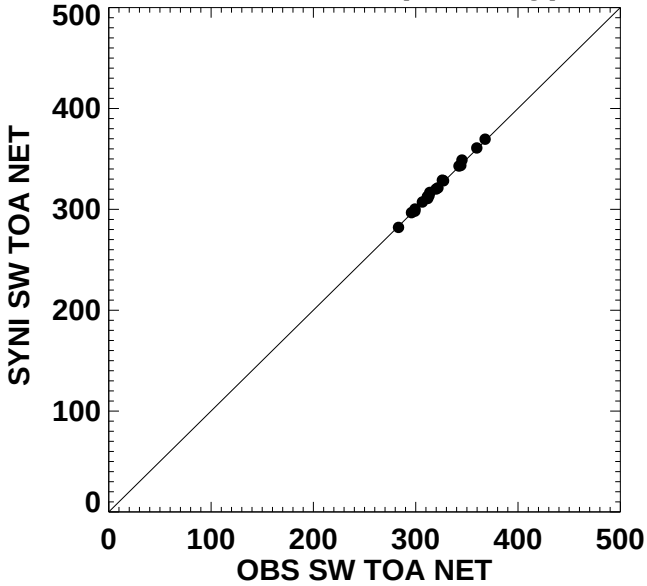
N= 13871.	Mean	(StdDev)
OBS SW TOA NET	324.8	(412.4)
SYNI SW TOA NET	325.6	(413.2)
Y-X	0.828	(11.89)
RMS(	11.91).....	

SW TOA NET(Daily)



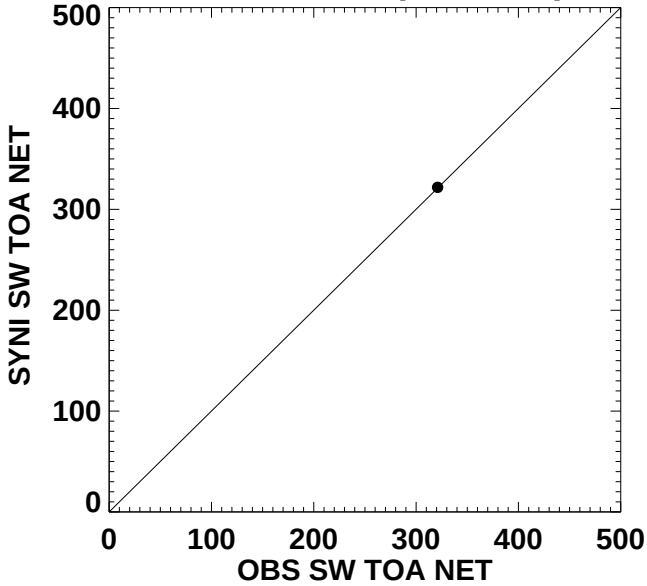
N= 582.	Mean	(StdDev)
OBS SW TOA NET	321.0	(47.38)
SYNI SW TOA NET	321.8	(48.29)
Y-X	0.817	(4.61)
RMS(	4.68).....	

SW TOA NET(Monthly)



N= 19.	Mean	(StdDev)
OBS SW TOA NET	321.0	(22.27)
SYNI SW TOA NET	321.8	(22.85)
Y-X	0.820	(1.35)
RMS(	1.54).....	

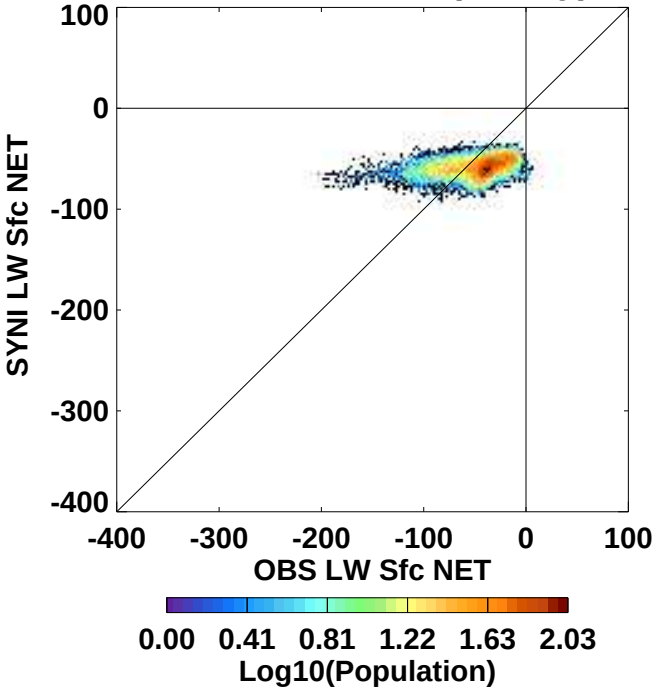
SW TOA NET(YEARLY)



N= 1.	Mean	(StdDev)
OBS SW TOA NET	321.0	(-999.0)
SYNI SW TOA NET	321.8	(-999.0)
Y-X	0.820	(-999.0)
RMS(	-999.0).....	

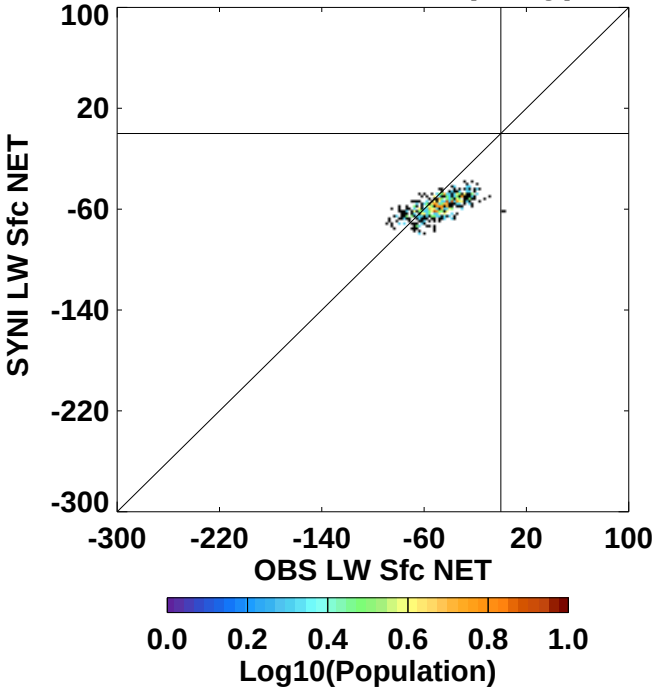
SYNI Beta4 FM1 2000:2005 /Jan,Apr,Jul,Oct: FM1 (STS validation subset)
NAU -0.521 166.916 Nauru (ARM TWP2)

LW Surface NET(Hourly)



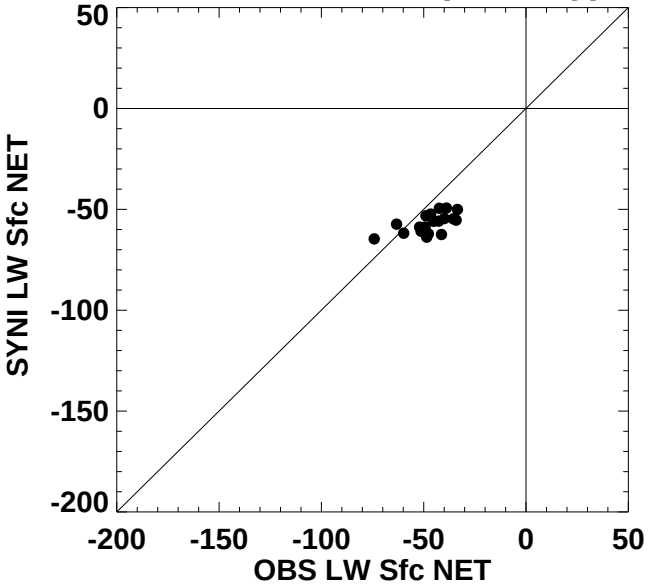
N= 13747.	Mean	(StdDev)
OBS LW Sfc NET	-47.17(	29.60)
SYNI LW Sfc NET	-56.90(	8.81)
Y-X	-9.73(	27.91)
RMS(	29.55).....	

LW Surface NET(Daily)



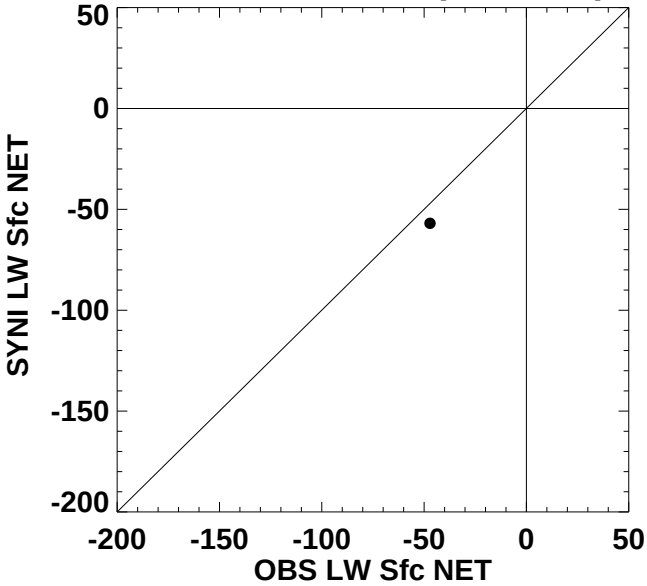
N= 566.	Mean	(StdDev)
OBS LW Sfc NET	-47.15(	15.22)
SYNI LW Sfc NET	-56.93(	7.70)
Y-X	-9.78(	11.71)
RMS(	15.24).....	

LW Surface NET(Monthly)



N= 19.	Mean	(StdDev)
OBS LW Sfc NET	-47.13(	10.25)
SYNI LW Sfc NET	-56.91(	4.83)
Y-X	-9.79(	8.24)
RMS(	12.65).....	

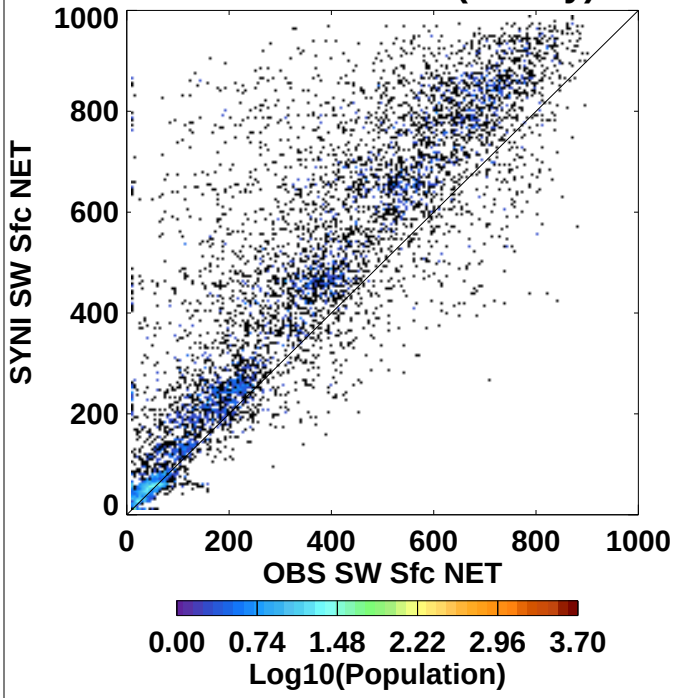
LW Surface NET(YEARLY)



N= 1.	Mean	(StdDev)
OBS LW Sfc NET	-47.13(	-999.0)
SYNI LW Sfc NET	-56.91(	-999.0)
Y-X	-9.79(	-999.0)
RMS(	-999.0).....	

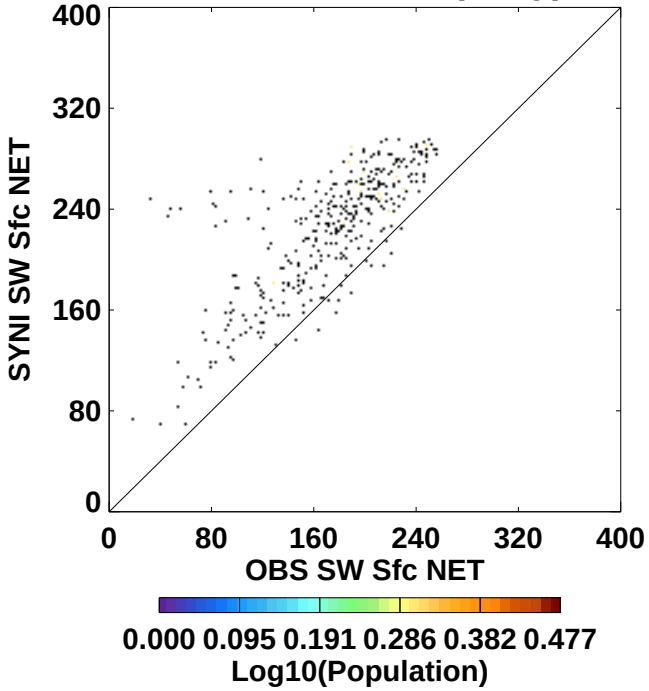
SYNI Beta4 FM1 2000:2005 /Jan,Apr,Jul,Oct: FM1 (STS validation subset)
NAU -0.521 166.916 Nauru (ARM TWP2)

SW Surface NET(Hourly)



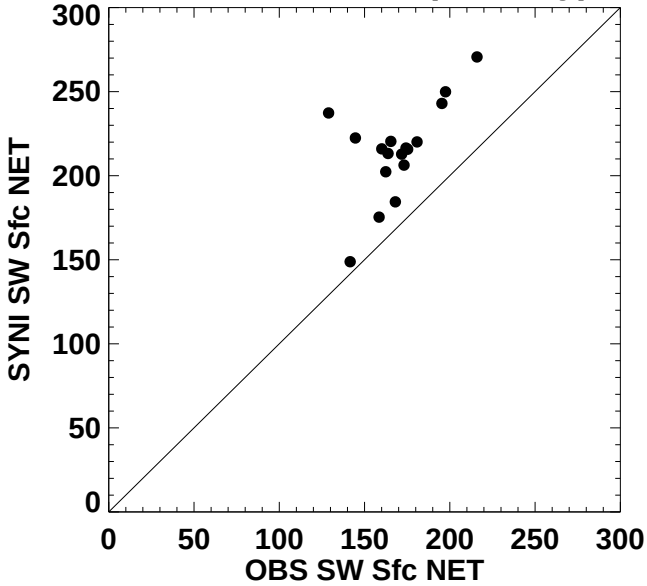
N= 11927.	Mean	(StdDev)
OBS SW Sfc NET	198.2(	252.8)
SYNI SW Sfc NET	259.7(	313.5)
Y-X	61.50(	118.1)
RMS(	133.1).....	

SW Surface NET(Daily)



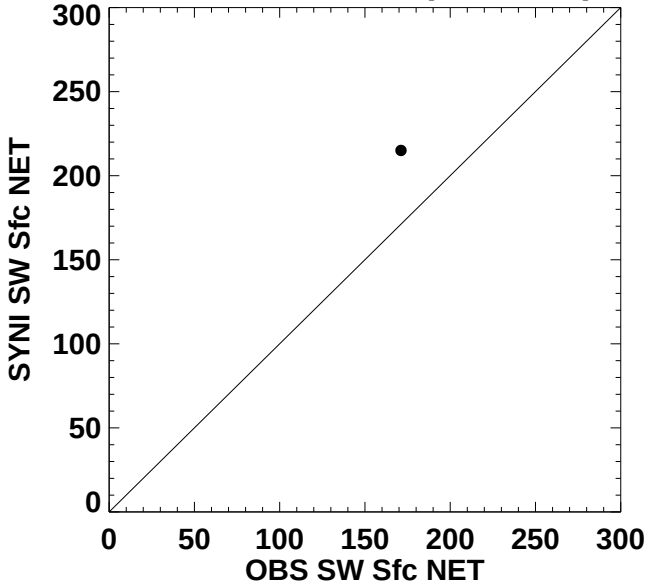
N= 365.	Mean	(StdDev)
OBS SW Sfc NET	172.2(	49.80)
SYNI SW Sfc NET	224.4(	48.75)
Y-X	52.21(	34.09)
RMS(	62.32).....	

SW Surface NET(Monthly)



N= 17.	Mean	(StdDev)
OBS SW Sfc NET	169.3(	21.16)
SYNI SW Sfc NET	215.0(	28.33)
Y-X	45.78(	23.40)
RMS(	51.10).....	

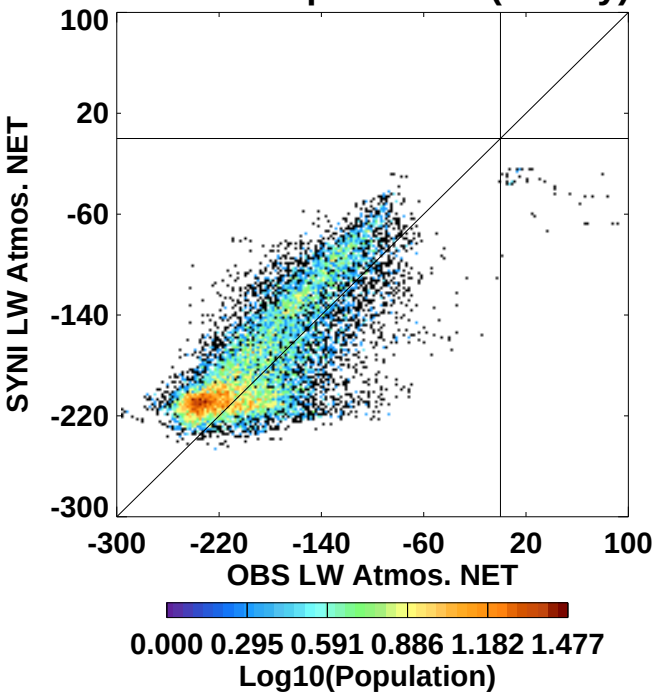
SW Surface NET(YEARLY)



N= 1.	Mean	(StdDev)
OBS SW Sfc NET	171.1(	-999.0)
SYNI SW Sfc NET	215.0(	-999.0)
Y-X	43.91(	-999.0)
RMS(	-999.0).....	

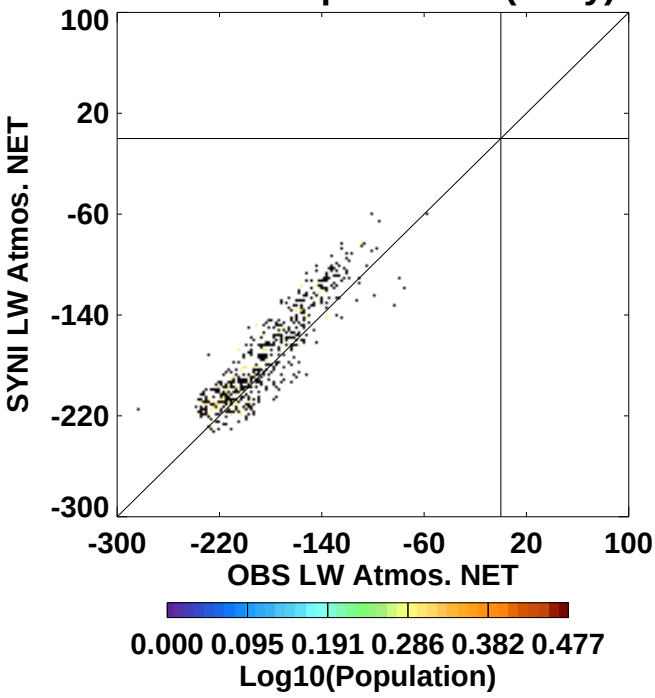
SYNI Beta4 FM1 2000:2005 /Jan,Apr,Jul,Oct: FM1 (STS validation subset)
NAU -0.521 166.916 Nauru (ARM TWP2)

LW Atmosphere NET(Hourly)



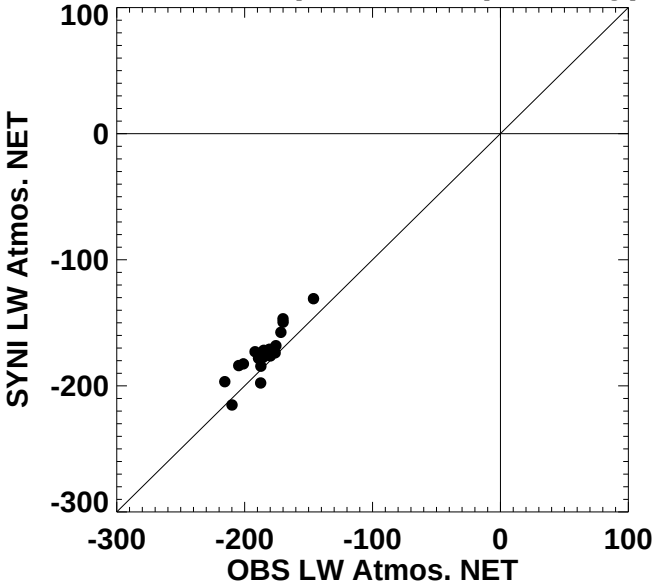
N= 13743.	Mean	(StdDev)
OBS LW Atmos. NET	-184.7(	46.23)
SYNI LW Atmos. NET	-173.9(	45.28)
Y-X	10.80(	31.36)
RMS(	33.17).....	

LW Atmosphere NET(Daily)



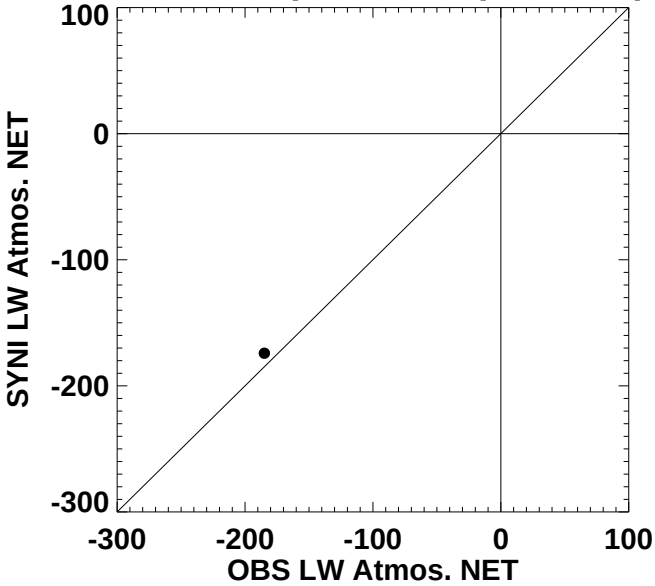
N= 566.	Mean	(StdDev)
OBS LW Atmos. NET	-184.6(	34.20)
SYNI LW Atmos. NET	-173.8(	38.00)
Y-X	10.80(	16.18)
RMS(	19.44).....	

LW Atmosphere NET(Monthly)



N= 19.	Mean	(StdDev)
OBS LW Atmos. NET	-184.9(	16.02)
SYNI LW Atmos. NET	-174.1(	19.16)
Y-X	10.81(	9.07)
RMS(	13.96).....	

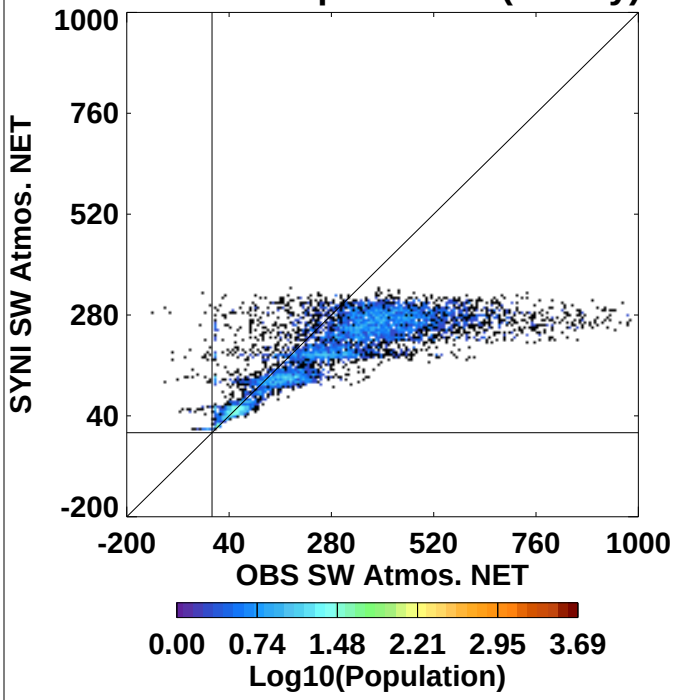
LW Atmosphere NET(YEARLY)



N= 1.	Mean	(StdDev)
OBS LW Atmos. NET	-184.9(	-999.0)
SYNI LW Atmos. NET	-174.1(	-999.0)
Y-X	10.81(	-999.0)
RMS(	-999.0).....	

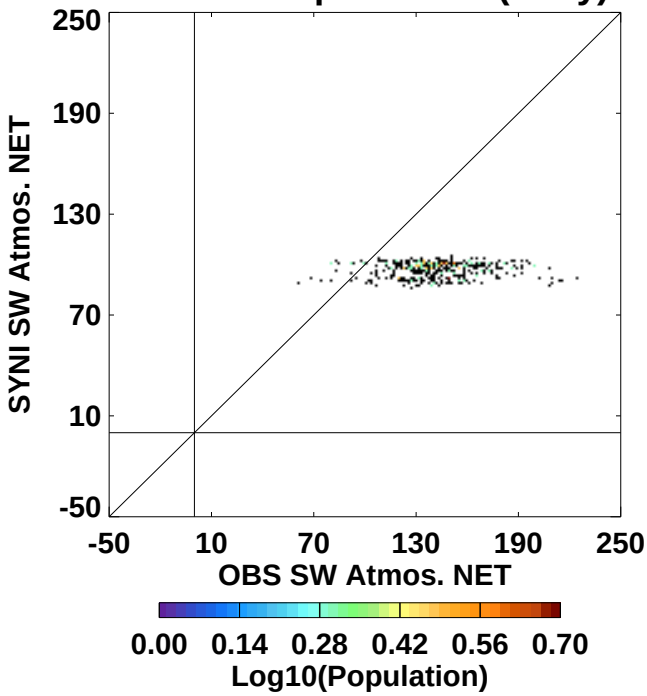
SYNI Beta4 FM1 2000:2005 /Jan,Apr,Jul,Oct: FM1 (STS validation subset)
NAU -0.521 166.916 Nauru (ARM TWP2)

SW Atmosphere NET(Hourly)



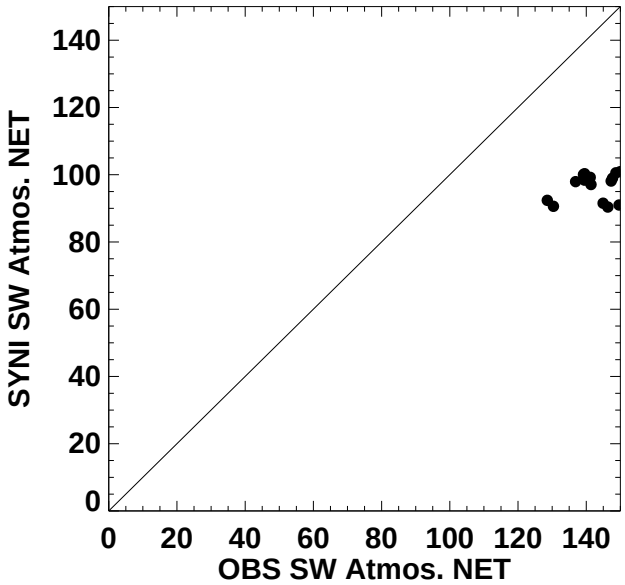
N= 11924.	Mean	(StdDev)
OBS SW Atmos. NET	168.3(	202.7)
SYNI SW Atmos. NET	111.2(	114.6)
Y-X	-57.15(	113.7)
RMS(	127.2).....	

SW Atmosphere NET(Daily)



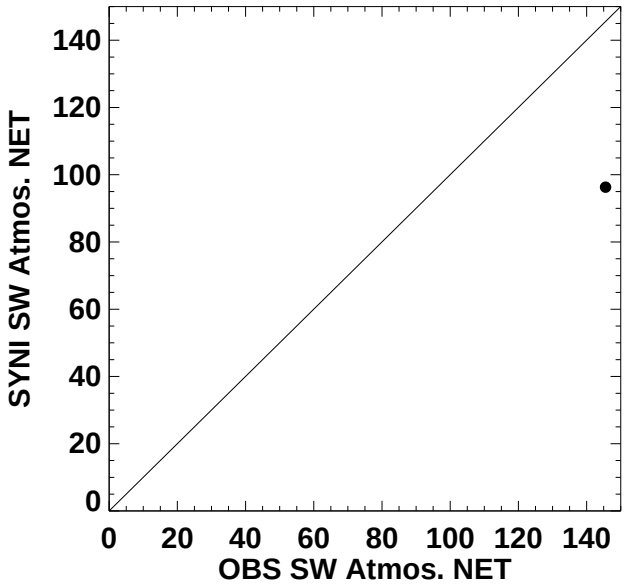
N= 363.	Mean	(StdDev)
OBS SW Atmos. NET	143.2(	26.41)
SYNI SW Atmos. NET	96.77(	4.44)
Y-X	-46.44(	26.65)
RMS(	53.52).....	

SW Atmosphere NET(Monthly)



N= 15.	Mean	(StdDev)
OBS SW Atmos. NET	142.1(	6.64)
SYNI SW Atmos. NET	96.50(	4.05)
Y-X	-45.58(	6.89)
RMS(	46.06).....	

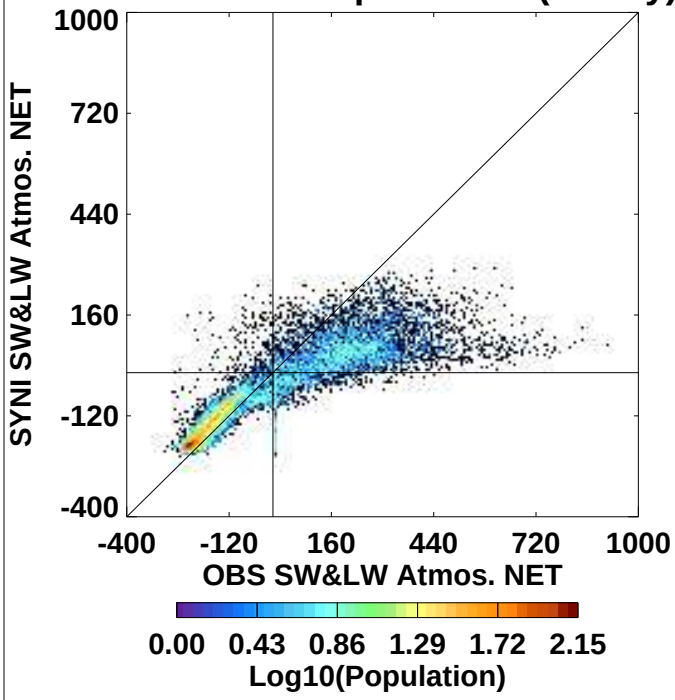
SW Atmosphere NET(YEARLY)



N= 1.	Mean	(StdDev)
OBS SW Atmos. NET	145.5(	-999.0)
SYNI SW Atmos. NET	96.30(	-999.0)
Y-X	-49.25(	-999.0)
RMS(	-999.0).....	

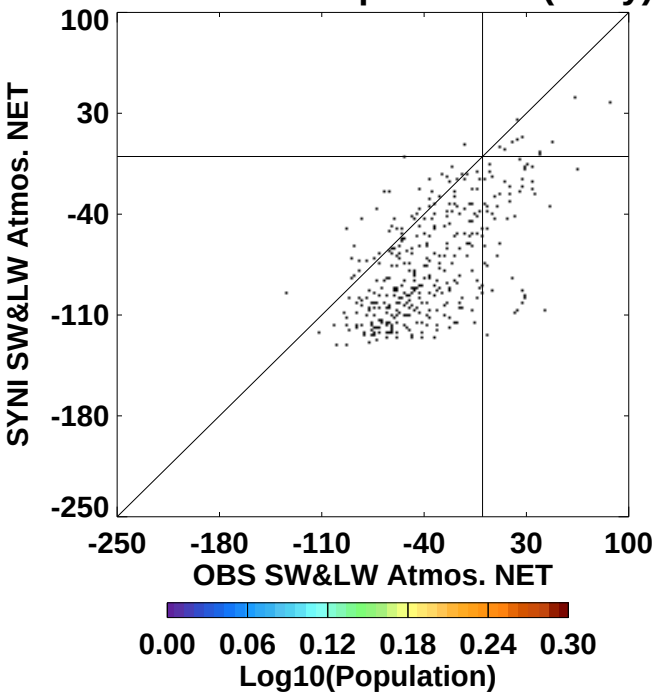
SYNI Beta4 FM1 2000:2005 /Jan,Apr,Jul,Oct: FM1 (STS validation subset)
NAU -0.521 166.916 Nauru (ARM TWP2)

SW&LW Atmosphere NET(Hourly)



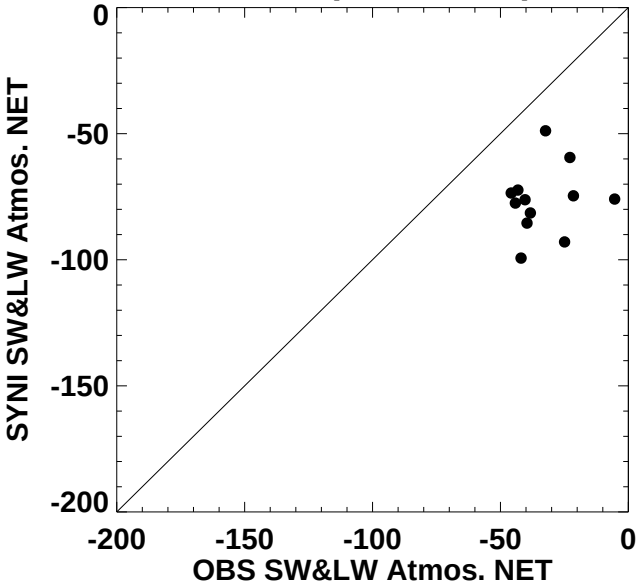
N= 11915.	Mean	(StdDev)
OBS SW&LW Atmos. NET	-8.79	(217.5)
SYNI SW&LW Atmos. NET	-61.05	(122.0)
Y-X	-52.26	(126.0)
RMS(	136.4).....	

SW&LW Atmosphere NET(Daily)



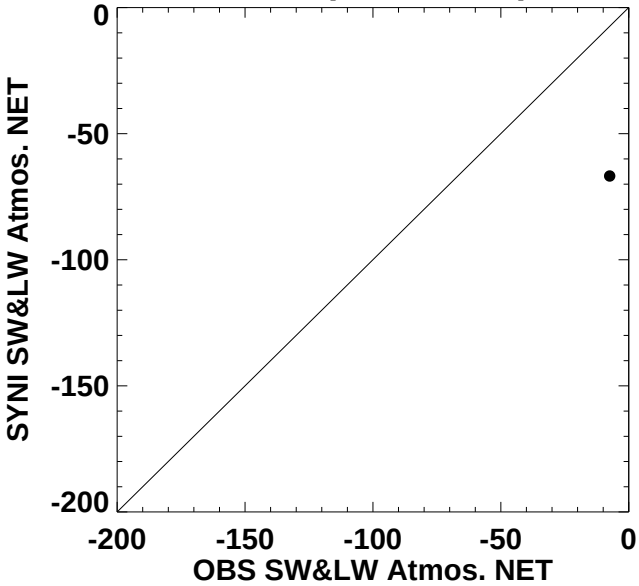
N= 363.	Mean	(StdDev)
OBS SW&LW Atmos. NET	-34.91	(35.79)
SYNI SW&LW Atmos. NET	-73.85	(38.47)
Y-X	-38.94	(32.49)
RMS(	50.68).....	

SW&LW Atmosphere NET(Monthly)



N= 12.	Mean	(StdDev)
OBS SW&LW Atmos. NET	-33.37	(12.29)
SYNI SW&LW Atmos. NET	-76.46	(13.43)
Y-X	-43.09	(16.56)
RMS(	45.92).....	

SW&LW Atmosphere NET(YEARLY)



N= 1.	Mean	(StdDev)
OBS SW&LW Atmos. NET	-7.45	(-999.0)
SYNI SW&LW Atmos. NET	-66.77	(-999.0)
Y-X	-59.32	(-999.0)
RMS(	-999.0).....	