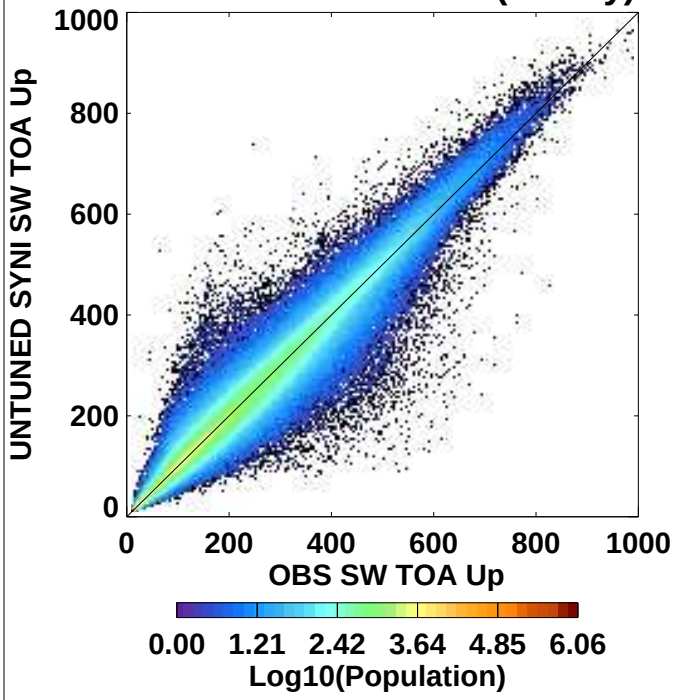
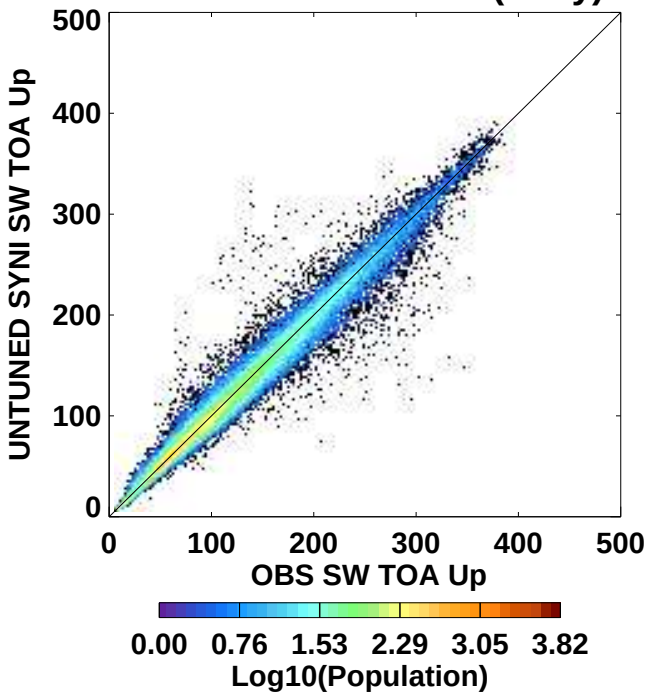
SYNI Beta4 FM1 2000:2005 /Jan,Apr,Jul,Oct: FM1 (STS validation subset)
ALL Beta4 SITES

Untuned TOA SW UP(Hourly)



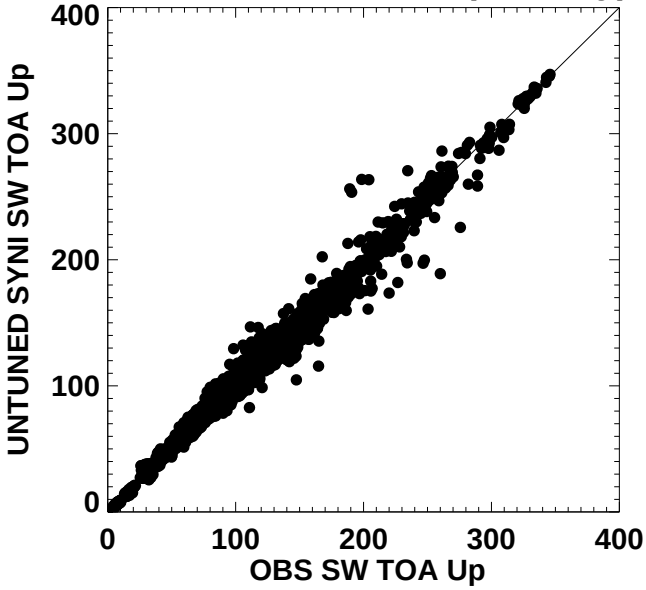
N= 2382116.	Mean	(StdDev)
OBS SW TOA Up	102.5	(138.1)
UNTUNED SYNI SW TOA Up	101.8	(137.6)
Y-X	-0.738	(19.39)
RMS(	19.40).....	

Untuned TOA SW UP(Daily)



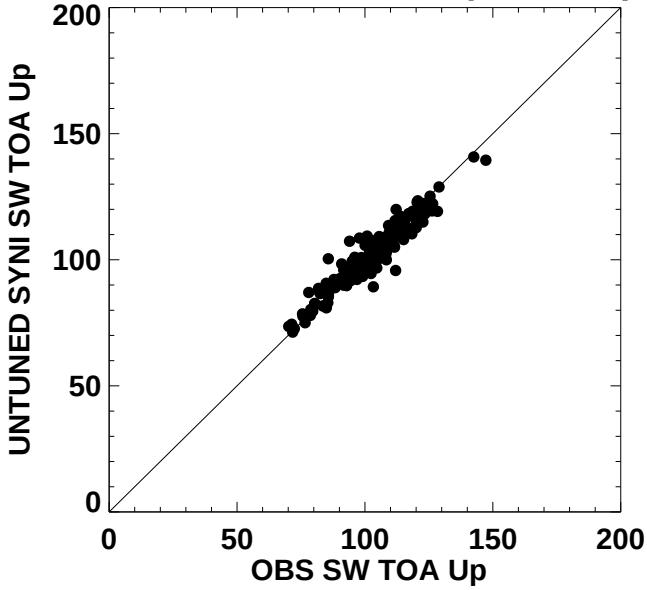
N= 97944.	Mean	(StdDev)
OBS SW TOA Up	102.8	(69.69)
UNTUNED SYNI SW TOA Up	102.2	(68.62)
Y-X	-0.683	(10.54)
RMS(	10.56).....	

Untuned TOA SW UP(Monthly)



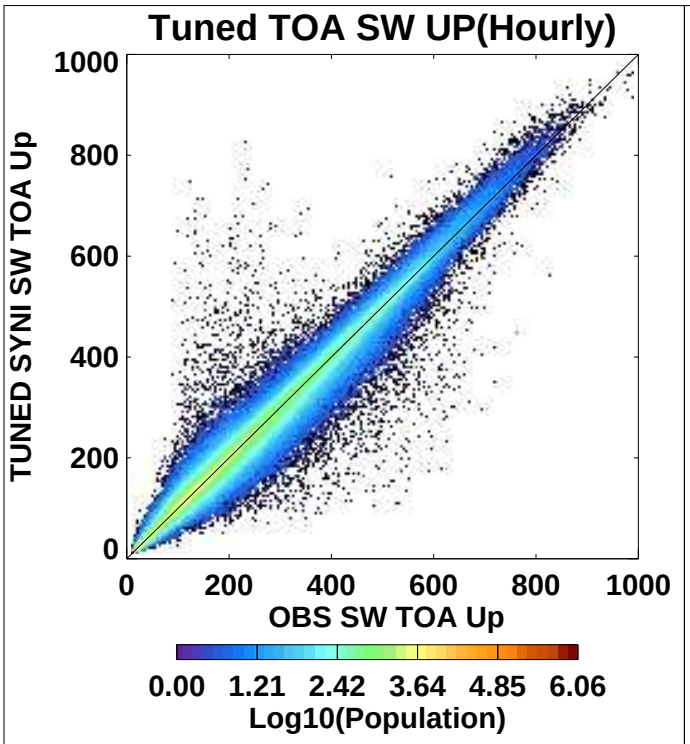
N= 3229.	Mean	(StdDev)
OBS SW TOA Up	102.5	(60.33)
UNTUNED SYNI SW TOA Up	101.7	(59.36)
Y-X	-0.757	(7.07)
RMS(	7.11).....	

Untuned TOA SW UP(YEARLY)

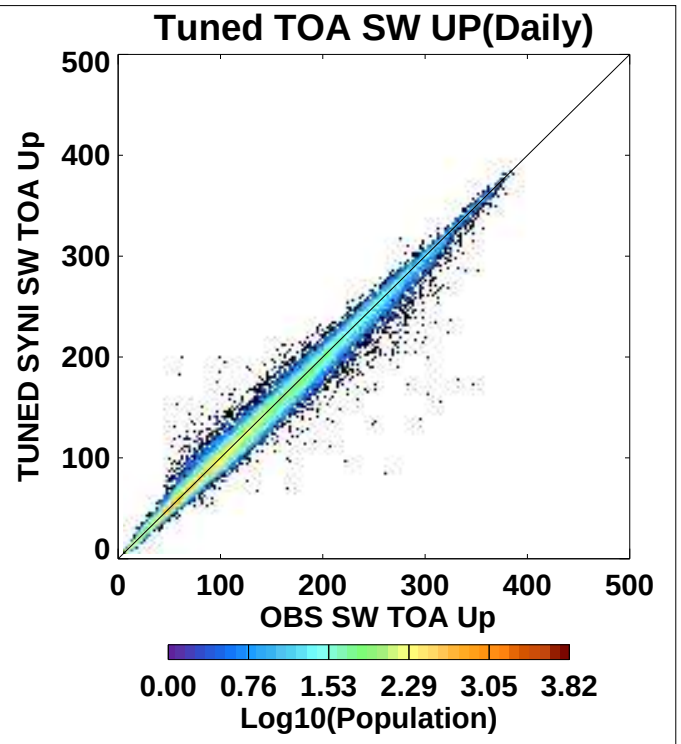


N= 170.	Mean	(StdDev)
OBS SW TOA Up	102.5	(14.28)
UNTUNED SYNI SW TOA Up	101.7	(13.01)
Y-X	-0.795	(4.43)
RMS(	4.49).....	

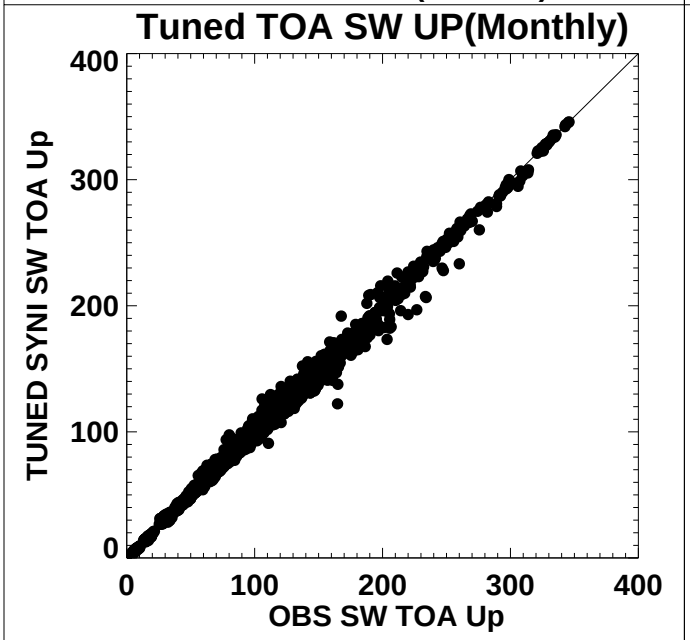
SYNI Beta4 FM1 2000:2005 /Jan,Apr,Jul,Oct: FM1 (STS validation subset)
ALL Beta4 SITES



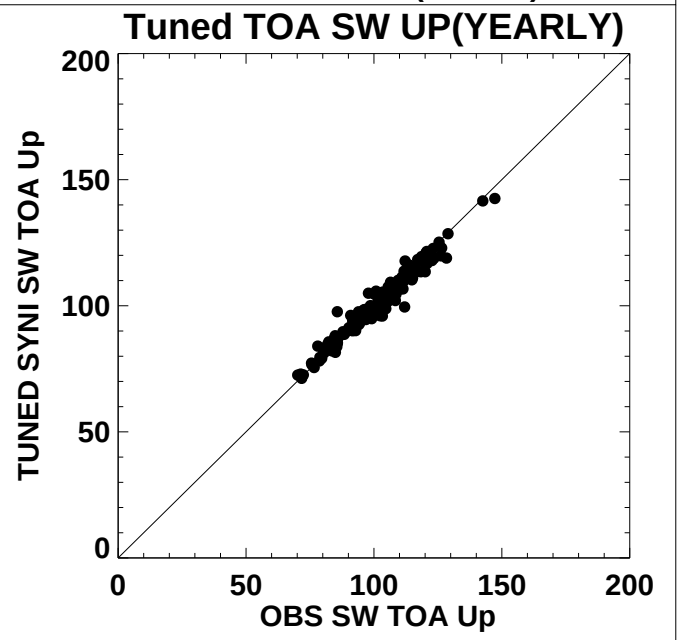
N= 2383266.	Mean	(StdDev)
OBS SW TOA Up	102.6	(138.2)
TUNED SYNI SW TOA Up	101.8	(137.3)
Y-X	-0.777	(13.30)
RMS(	13.32).....	



N= 98567.	Mean	(StdDev)
OBS SW TOA Up	103.1	(69.80)
TUNED SYNI SW TOA Up	102.3	(68.79)
Y-X	-0.777	(6.74)
RMS(	6.78).....	



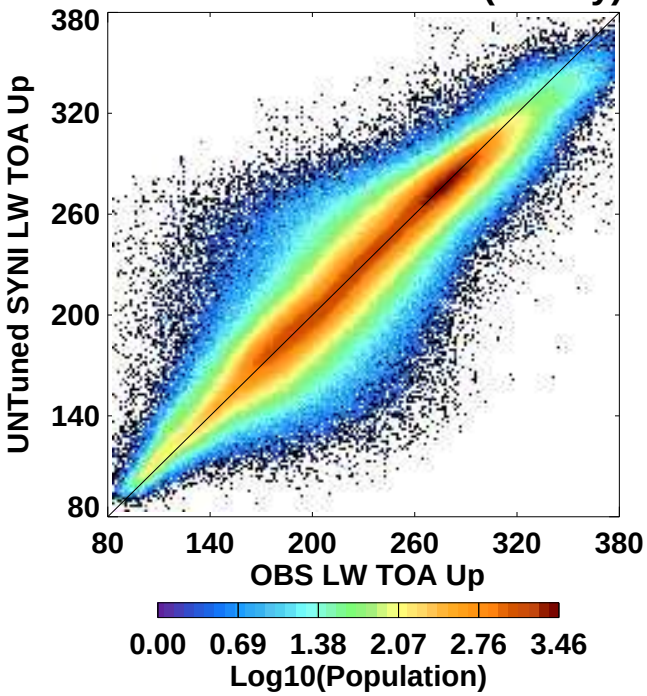
N= 3229.	Mean	(StdDev)
OBS SW TOA Up	102.5	(60.33)
TUNED SYNI SW TOA Up	101.7	(59.52)
Y-X	-0.786	(4.32)
RMS(	4.39).....	



N= 170.	Mean	(StdDev)
OBS SW TOA Up	102.5	(14.28)
TUNED SYNI SW TOA Up	101.7	(13.26)
Y-X	-0.824	(2.96)
RMS(	3.07).....	

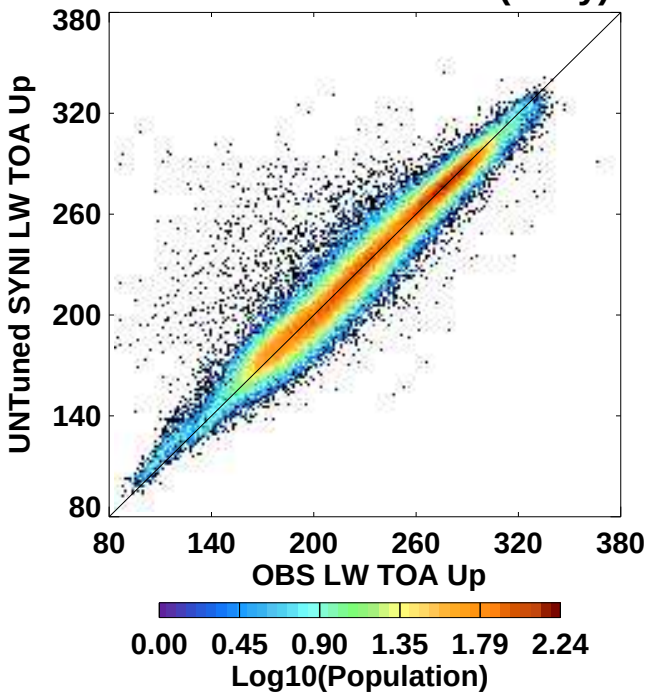
SYNI Beta4 FM1 2000:2005 /Jan,Apr,Jul,Oct: FM1 (STS validation subset)
ALL Beta4 SITES

UNTuned TOA LW UP(Hourly)



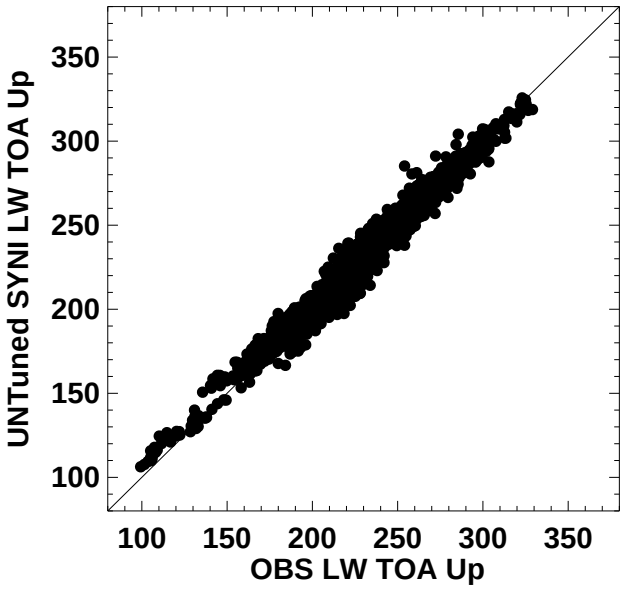
N= 2378024.	Mean	(StdDev)
OBS LW TOA Up	230.6(	47.15)
UNTuned SYNI LW TOA Up	230.5(	46.52)
Y-X	-0.036(	14.20)
RMS(	14.20).....	

UNTuned TOA LW UP(Daily)



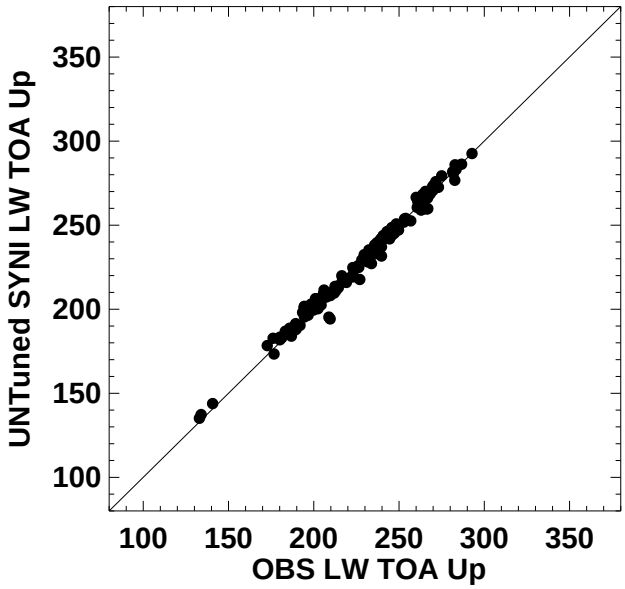
N= 98512.	Mean	(StdDev)
OBS LW TOA Up	230.2(	43.39)
UNTuned SYNI LW TOA Up	230.7(	42.66)
Y-X	0.426(	10.98)
RMS(	10.99).....	

UNTuned TOA LW UP(Monthly)



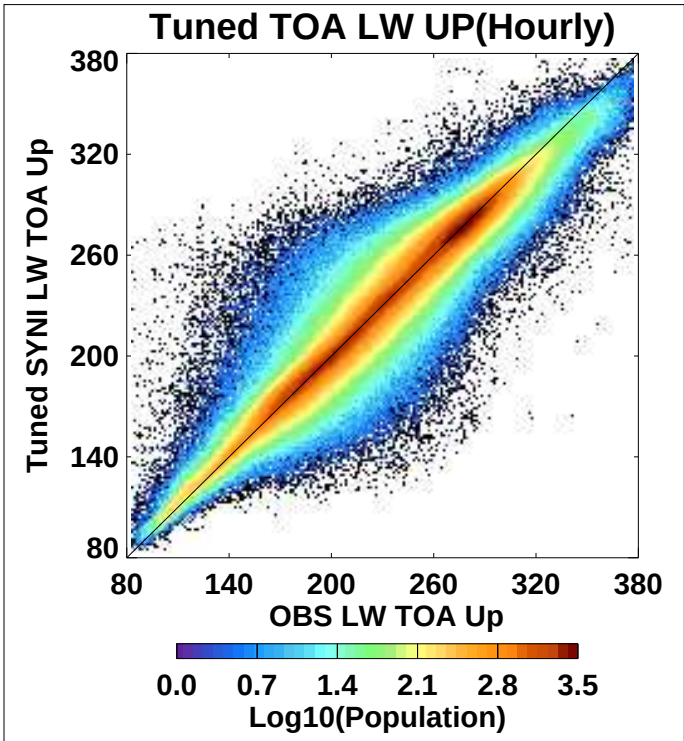
N= 3230.	Mean	(StdDev)
OBS LW TOA Up	230.1(	36.19)
UNTuned SYNI LW TOA Up	230.6(	35.61)
Y-X	0.480(	5.11)
RMS(	5.13).....	

UNTuned TOA LW UP(YEARLY)

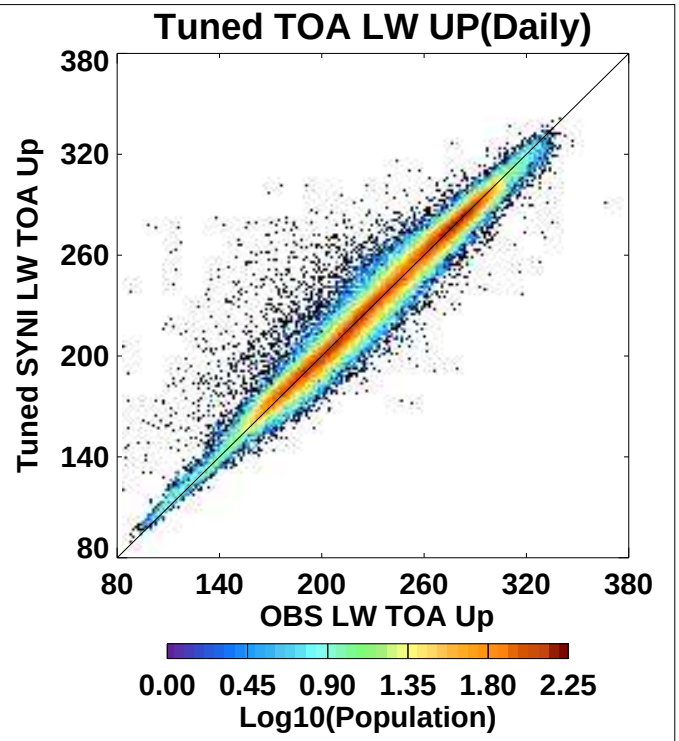


N= 170.	Mean	(StdDev)
OBS LW TOA Up	230.1(	30.62)
UNTuned SYNI LW TOA Up	230.6(	30.35)
Y-X	0.480(	3.31)
RMS(	3.34).....	

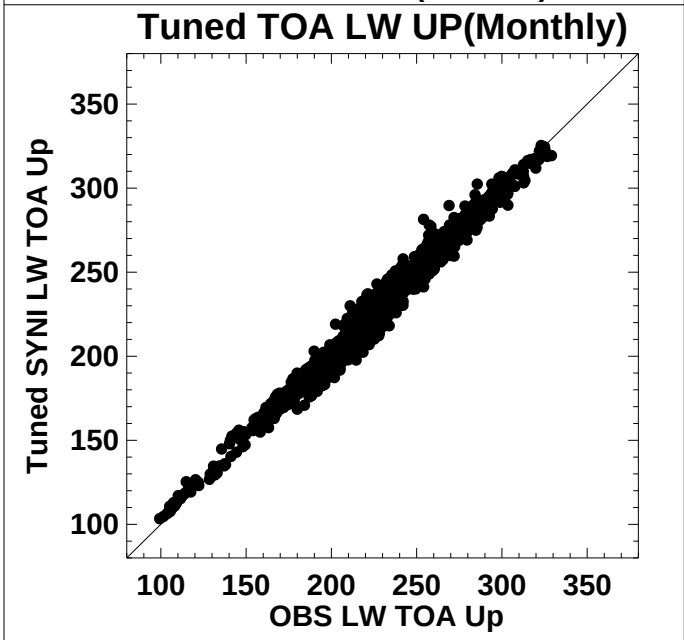
SYNI Beta4 FM1 2000:2005 /Jan,Apr,Jul,Oct: FM1 (STS validation subset)
ALL Beta4 SITES



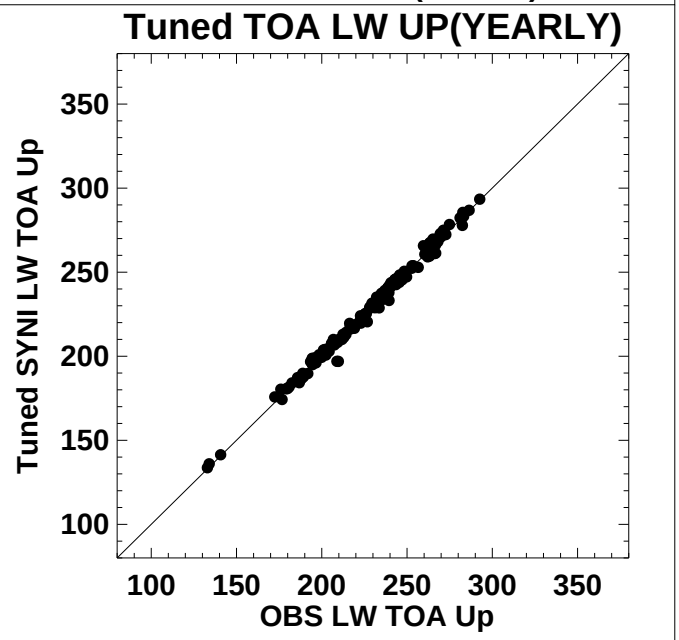
N= 2378852.	Mean	(StdDev)
OBS LW TOA Up	230.6	(47.16)
Tuned SYNI LW TOA Up	230.5	(46.62)
Y-X	-0.050	(11.98)
RMS(	11.98).....	



N= 99129.	Mean	(StdDev)
OBS LW TOA Up	230.1	(43.43)
Tuned SYNI LW TOA Up	230.4	(42.90)
Y-X	0.340	(8.98)
RMS(	8.99).....	



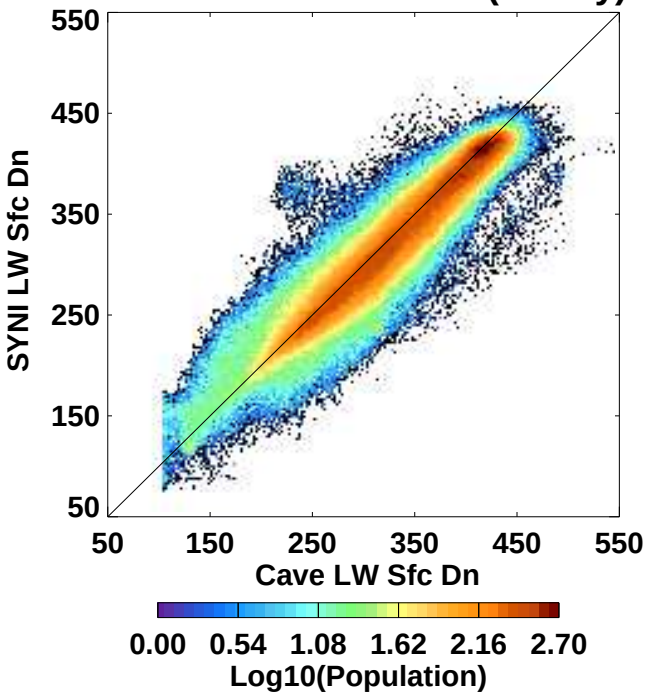
N= 3230.	Mean	(StdDev)
OBS LW TOA Up	229.9	(36.16)
Tuned SYNI LW TOA Up	230.3	(36.02)
Y-X	0.386	(4.11)
RMS(	4.13).....	



N= 170.	Mean	(StdDev)
OBS LW TOA Up	229.9	(30.57)
Tuned SYNI LW TOA Up	230.3	(30.75)
Y-X	0.386	(2.57)
RMS(	2.59).....	

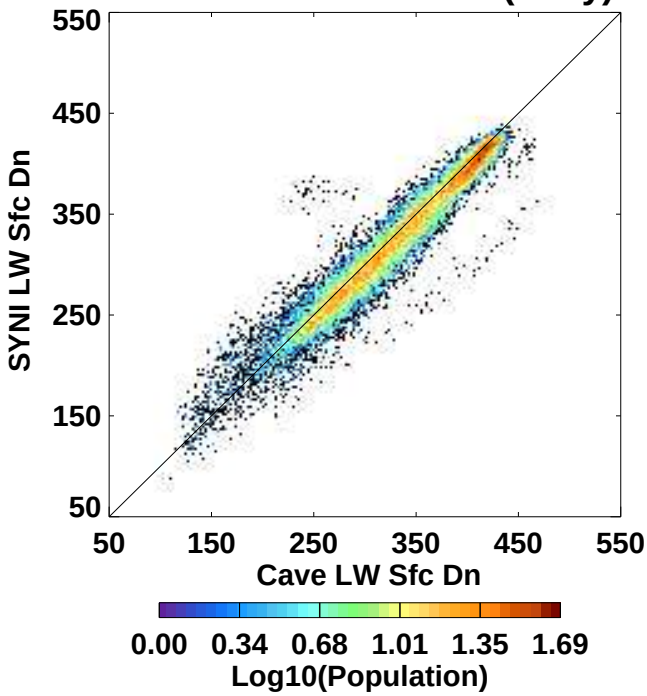
SYNI Beta4 FM1 2000:2005 /Jan,Apr,Jul,Oct: FM1 (STS validation subset)
ALL Beta4 SITES

Tuned SFC LW DOWN(Hourly)



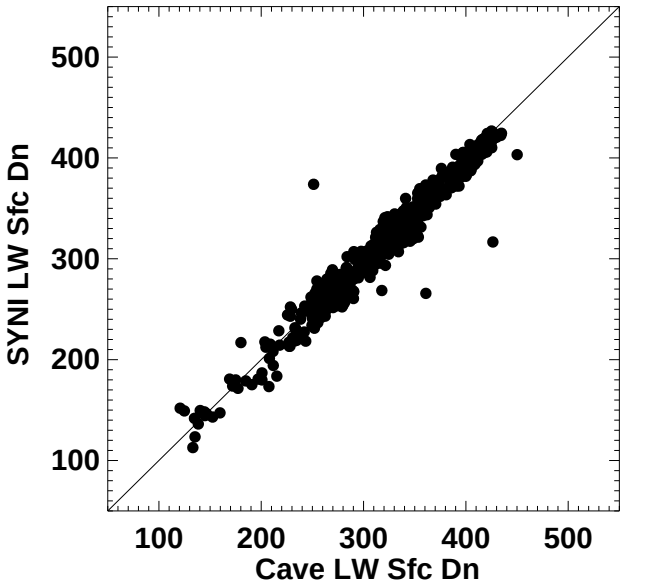
N= 477511.	Mean	(StdDev)
Cave LW Sfc Dn	325.0(	71.87)
SYNI LW Sfc Dn	319.0(	69.59)
Y-X	-6.00(	23.90)
RMS(	24.64).....	

Tuned SFC LW DOWN(Daily)



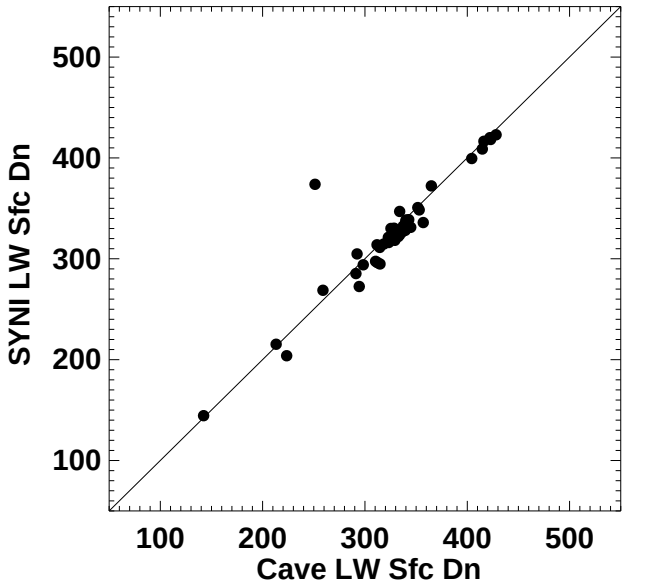
N= 19627.	Mean	(StdDev)
Cave LW Sfc Dn	325.8(	67.79)
SYNI LW Sfc Dn	319.8(	66.54)
Y-X	-6.03(	16.77)
RMS(	17.82).....	

Tuned SFC LW DOWN(Monthly)



N= 681.	Mean	(StdDev)
Cave LW Sfc Dn	323.5(	64.07)
SYNI LW Sfc Dn	317.4(	63.72)
Y-X	-6.12(	12.18)
RMS(	13.62).....	

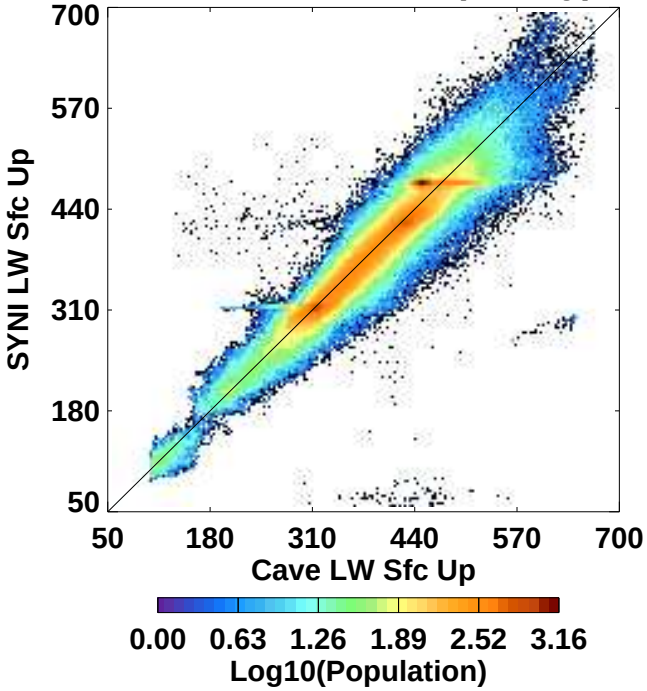
Tuned SFC LW DOWN(YEARLY)



N= 46.	Mean	(StdDev)
Cave LW Sfc Dn	328.2(	53.57)
SYNI LW Sfc Dn	325.7(	53.06)
Y-X	-2.44(	20.45)
RMS(	20.37).....	

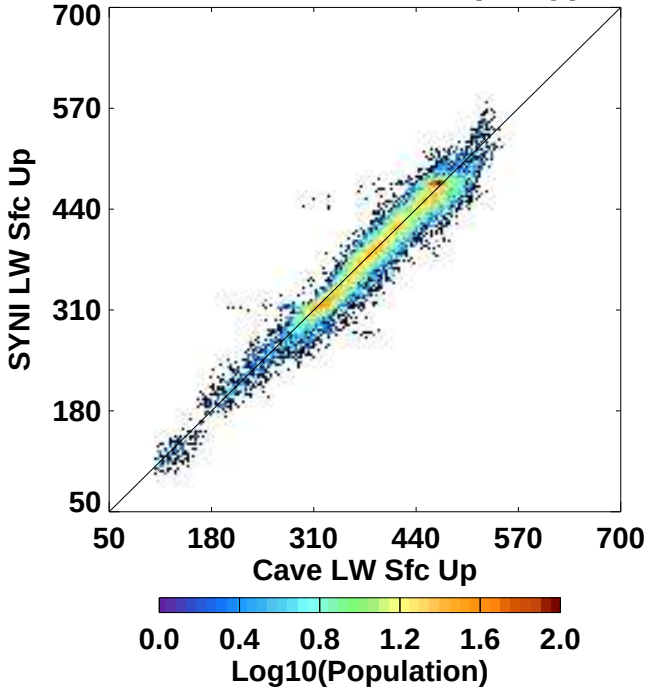
SYNI Beta4 FM1 2000:2005 /Jan,Apr,Jul,Oct: FM1 (STS validation subset)
ALL Beta4 SITES

Tuned SFC LW UP(Hourly)



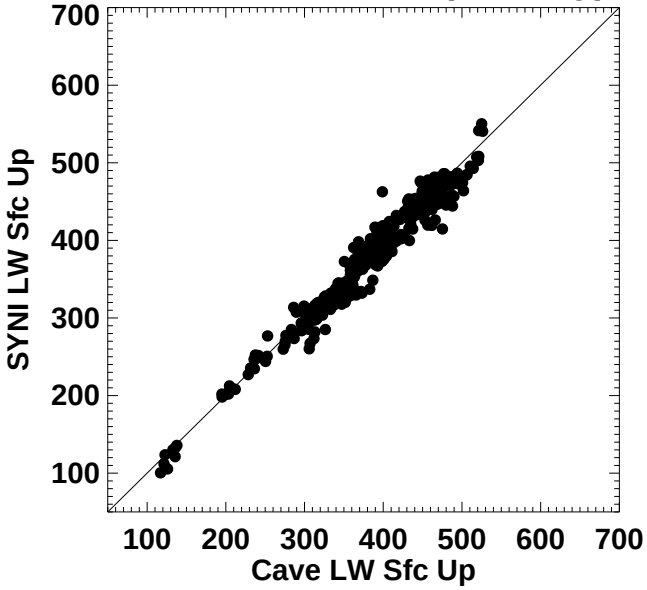
N= 385360.	Mean	(StdDev)
Cave LW Sfc Up	388.6(	83.51)
SYNI LW Sfc Up	385.1(	83.02)
Y-X	-3.53(	26.10)
RMS(	26.33).....	

Tuned SFC LW UP(Daily)



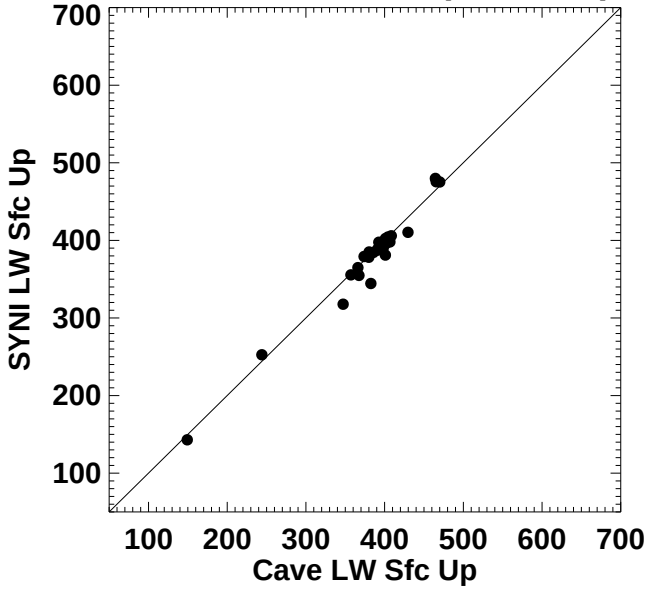
N= 15889.	Mean	(StdDev)
Cave LW Sfc Up	389.0(	75.39)
SYNI LW Sfc Up	385.5(	76.18)
Y-X	-3.52(	17.54)
RMS(	17.89).....	

Tuned SFC LW UP(Monthly)



N= 551.	Mean	(StdDev)
Cave LW Sfc Up	388.5(	73.21)
SYNI LW Sfc Up	385.0(	74.28)
Y-X	-3.45(	13.31)
RMS(	13.74).....	

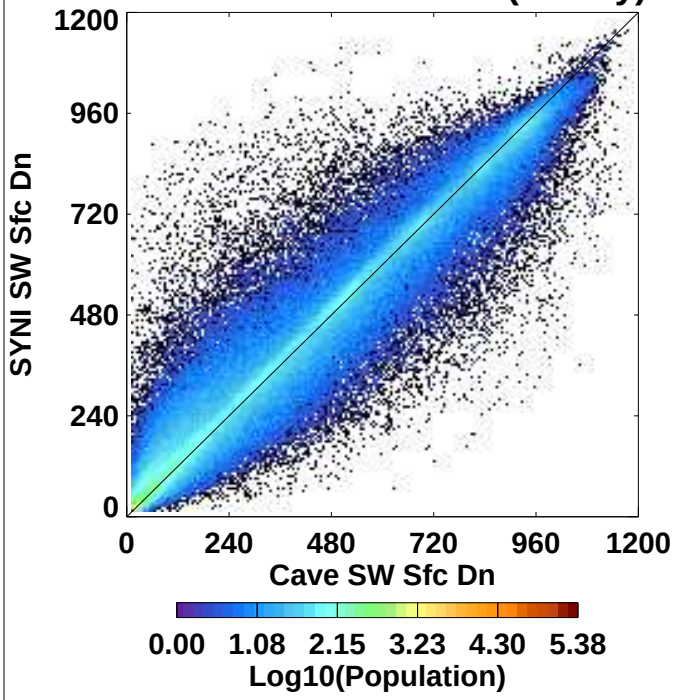
Tuned SFC LW UP(YEARLY)



N= 32.	Mean	(StdDev)
Cave LW Sfc Up	385.6(	57.96)
SYNI LW Sfc Up	381.7(	60.27)
Y-X	-3.83(	10.79)
RMS(	11.29).....	

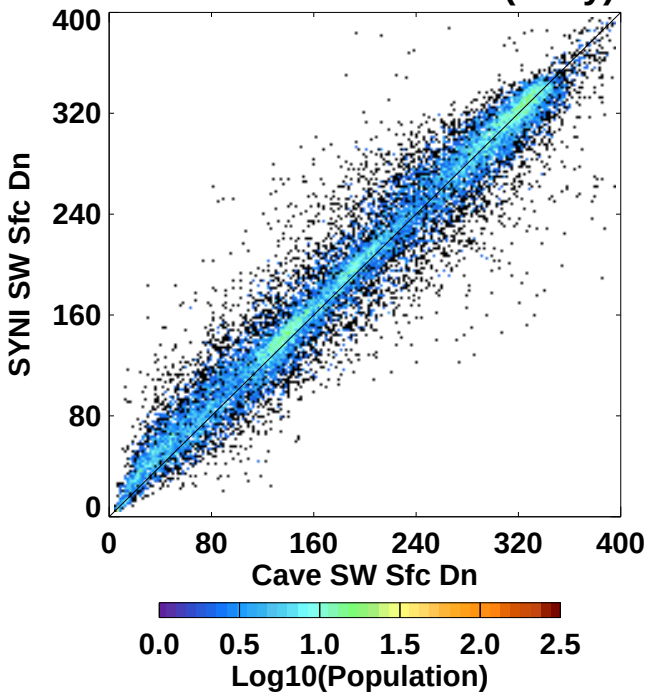
SYNI Beta4 FM1 2000:2005 /Jan,Apr,Jul,Oct: FM1 (STS validation subset)
ALL Beta4 SITES

Tuned SFC SW DOWN(Hourly)



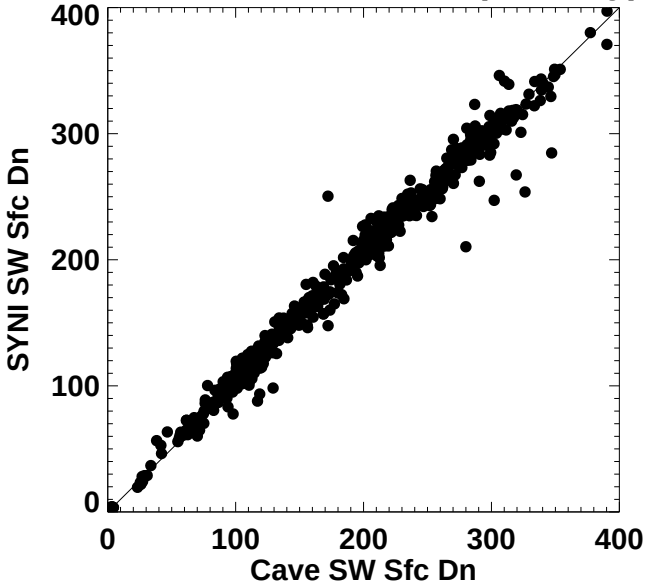
N= 479937.	Mean	(StdDev)
Cave SW Sfc Dn	184.0(	277.2)
SYNI SW Sfc Dn	188.1(	273.7)
Y-X	4.11(	60.61)
RMS(	60.75).....	

Tuned SFC SW DOWN(Daily)



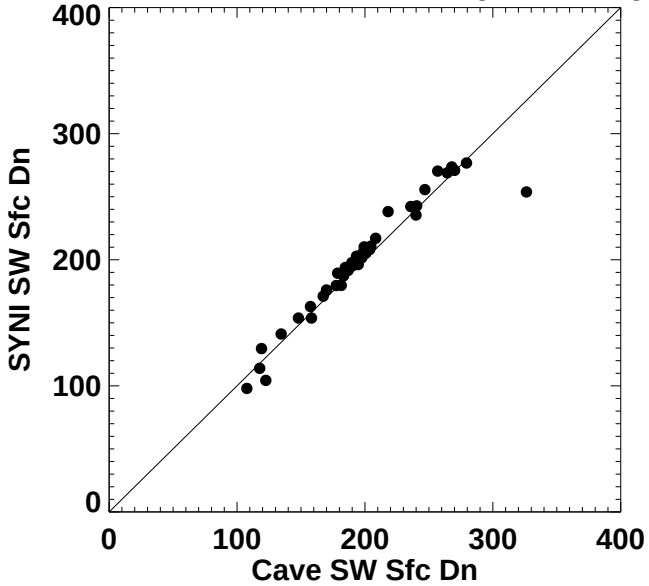
N= 19214.	Mean	(StdDev)
Cave SW Sfc Dn	188.4(	102.2)
SYNI SW Sfc Dn	192.7(	98.87)
Y-X	4.24(	23.88)
RMS(	24.26).....	

Tuned SFC SW DOWN(Monthly)



N= 657.	Mean	(StdDev)
Cave SW Sfc Dn	189.8(	85.47)
SYNI SW Sfc Dn	194.0(	84.90)
Y-X	4.27(	10.52)
RMS(	11.35).....	

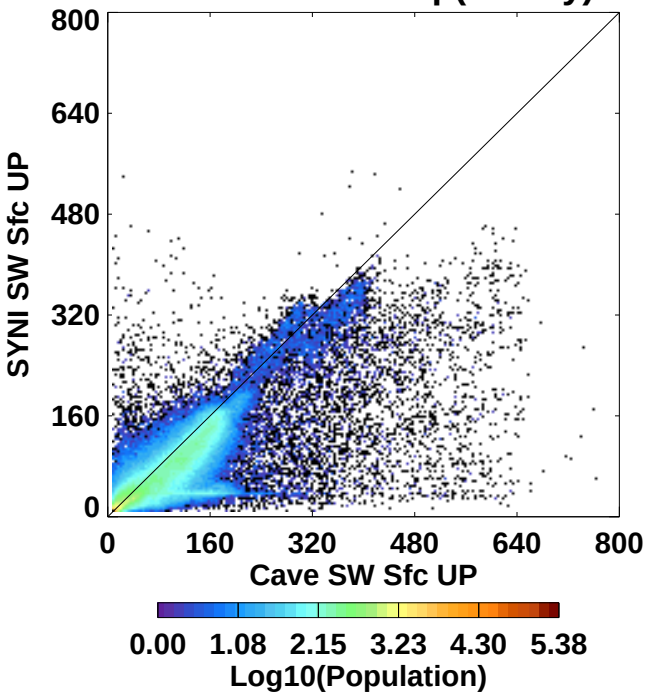
Tuned SFC SW DOWN(YEARLY)



N= 45.	Mean	(StdDev)
Cave SW Sfc Dn	196.9(	45.03)
SYNI SW Sfc Dn	199.7(	43.43)
Y-X	2.84(	13.02)
RMS(	13.18).....	

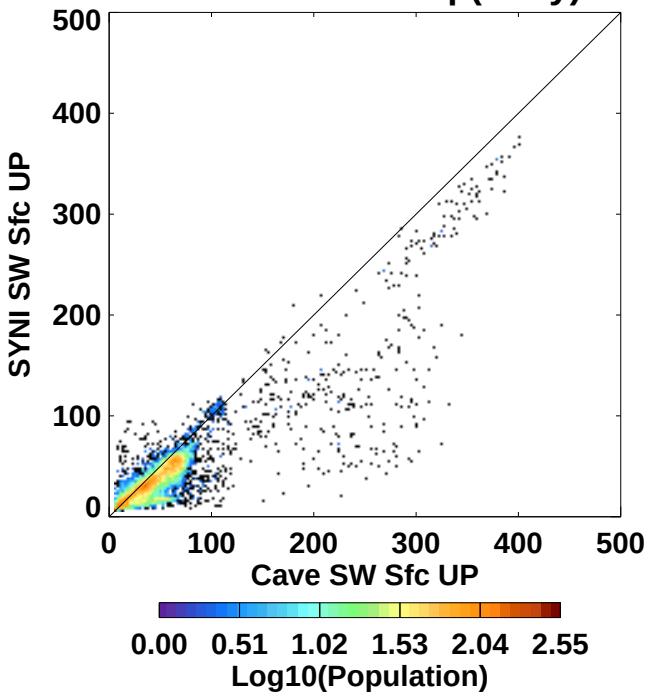
SYNI Beta4 FM1 2000:2005 /Jan,Apr,Jul,Oct: FM1 (STS validation subset)
ALL Beta4 SITES

Tuned SFC SW Up(Hourly)



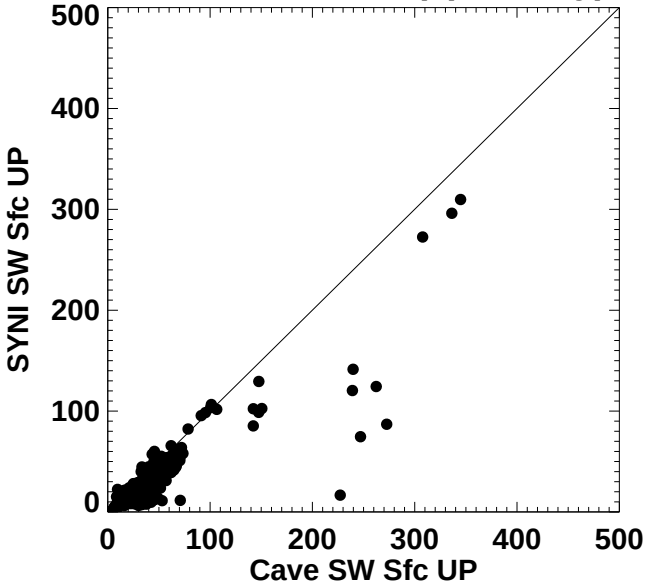
N= 431080.	Mean	(StdDev)
Cave SW Sfc UP	38.89(	67.15)
SYNI SW Sfc UP	29.08(	50.34)
Y-X	-9.81(	32.81)
RMS(	34.25).....	

Tuned SFC SW Up(Daily)



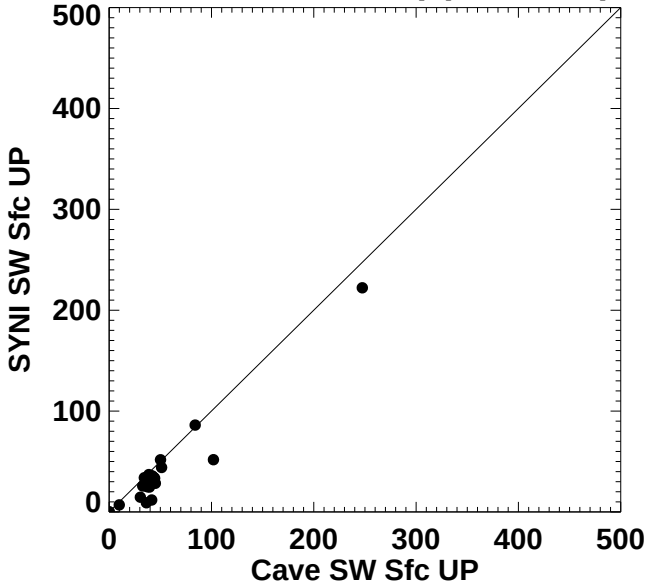
N= 15864.	Mean	(StdDev)
Cave SW Sfc UP	42.55(	38.42)
SYNI SW Sfc UP	32.34(	28.81)
Y-X	-10.21(	19.14)
RMS(	21.69).....	

Tuned SFC SW Up(Monthly)



N= 556.	Mean	(StdDev)
Cave SW Sfc UP	42.80(	35.98)
SYNI SW Sfc UP	32.11(	26.97)
Y-X	-10.68(	18.08)
RMS(	20.99).....	

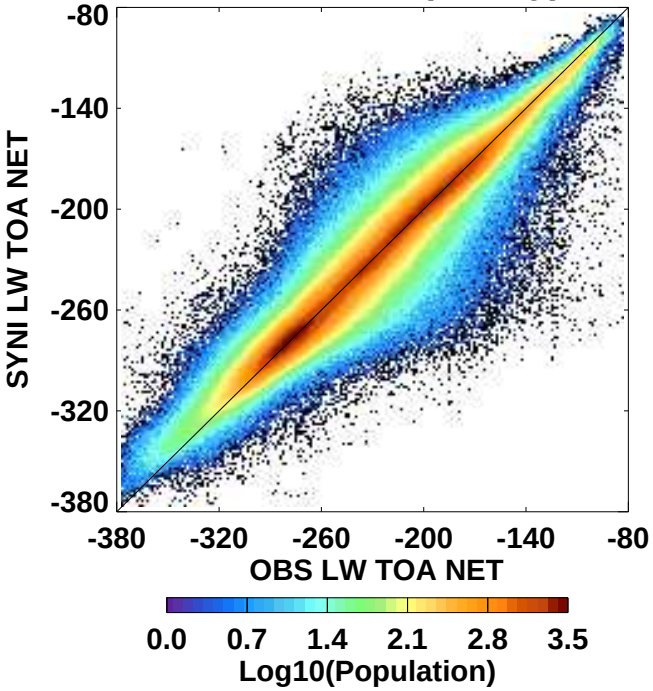
Tuned SFC SW Up(YEARLY)



N= 34.	Mean	(StdDev)
Cave SW Sfc UP	45.94(	39.78)
SYNI SW Sfc UP	36.09(	36.38)
Y-X	-9.85(	10.44)
RMS(	14.24).....	

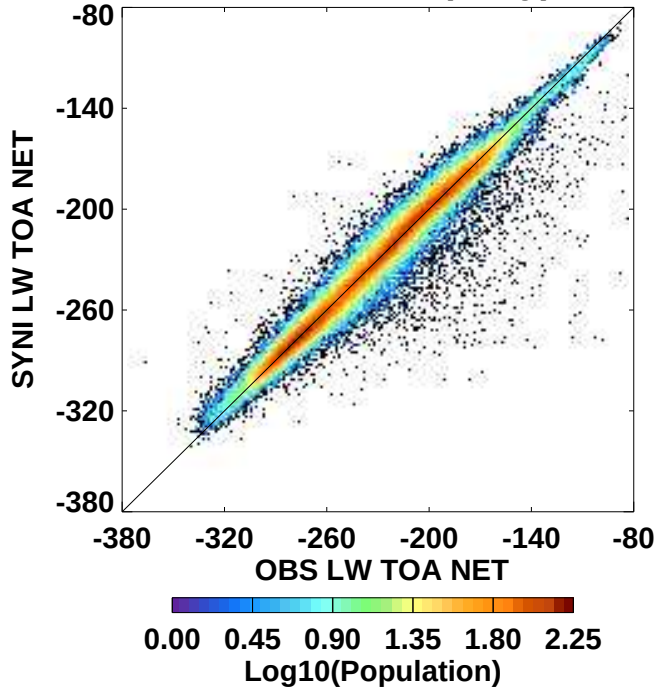
SYNI Beta4 FM1 2000:2005 /Jan,Apr,Jul,Oct: FM1 (STS validation subset)
ALL Beta4 SITES

TOA LW NET(Hourly)



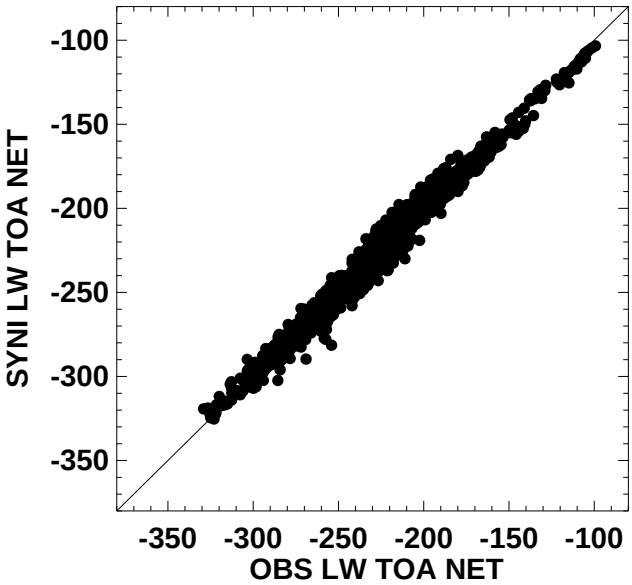
N= 2378852.	Mean	(StdDev)
OBS LW TOA NET	-230.6(	47.16)
SYNI LW TOA NET	-230.5(	46.62)
Y-X	0.050(	11.98)
RMS(	11.98).....	

TOA LW NET(Daily)



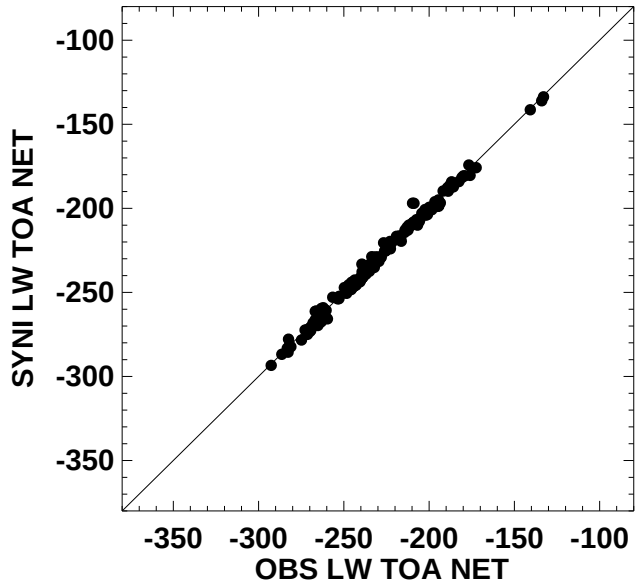
N= 99129.	Mean	(StdDev)
OBS LW TOA NET	-230.1(	43.43)
SYNI LW TOA NET	-230.4(	42.90)
Y-X	-0.340(	8.98)
RMS(	8.99).....	

TOA LW NET(Monthly)



N= 3230.	Mean	(StdDev)
OBS LW TOA NET	-229.9(	36.16)
SYNI LW TOA NET	-230.3(	36.02)
Y-X	-0.386(	4.11)
RMS(	4.13).....	

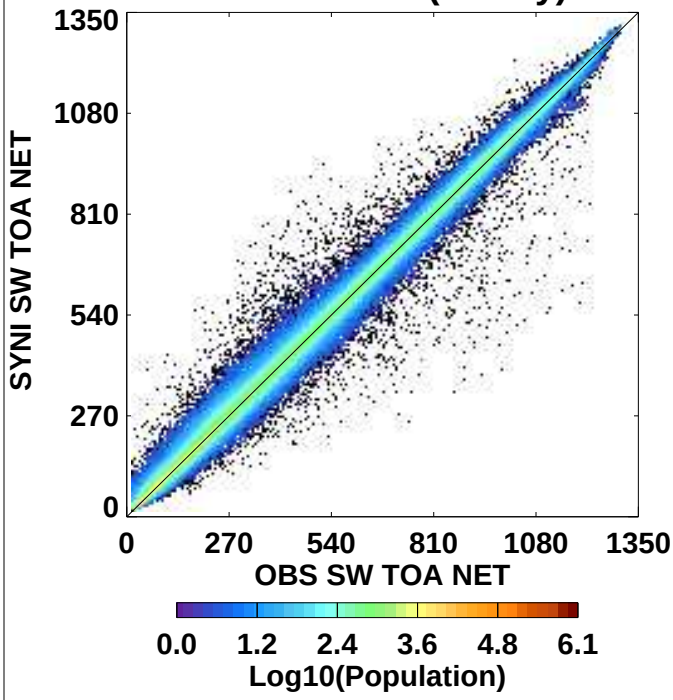
TOA LW NET(YEARLY)



N= 170.	Mean	(StdDev)
OBS LW TOA NET	-229.9(	30.57)
SYNI LW TOA NET	-230.3(	30.75)
Y-X	-0.386(	2.57)
RMS(	2.59).....	

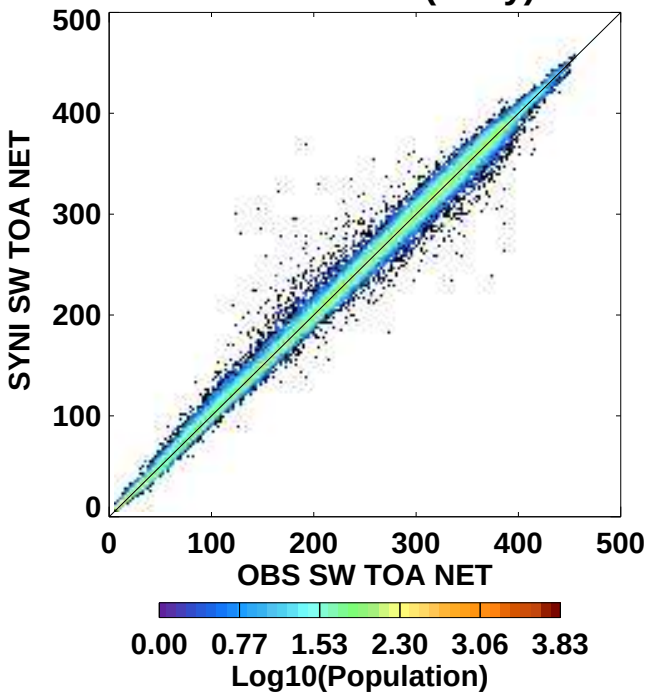
SYNI Beta4 FM1 2000:2005 /Jan,Apr,Jul,Oct: FM1 (STS validation subset)
ALL Beta4 SITES

SW TOA NET(Hourly)



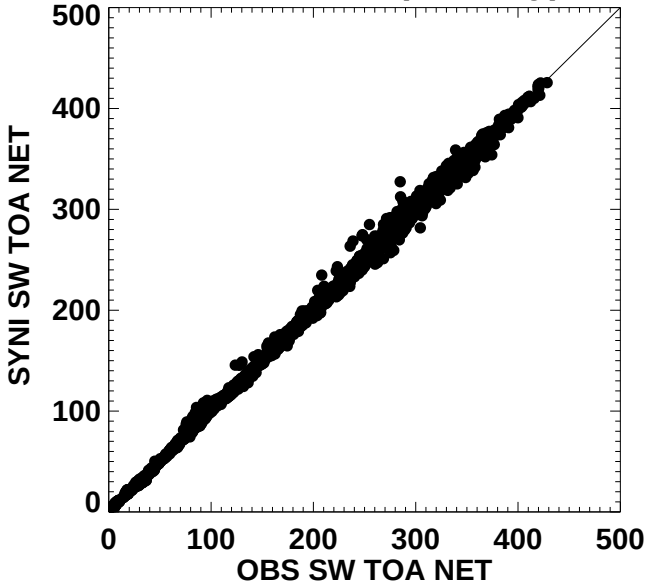
N= 2374996.	Mean	(StdDev)
OBS SW TOA NET	214.1(	311.1)
SYNI SW TOA NET	214.9(	311.1)
Y-X	0.770(	13.29)
RMS(	13.31).....	

SW TOA NET(Daily)



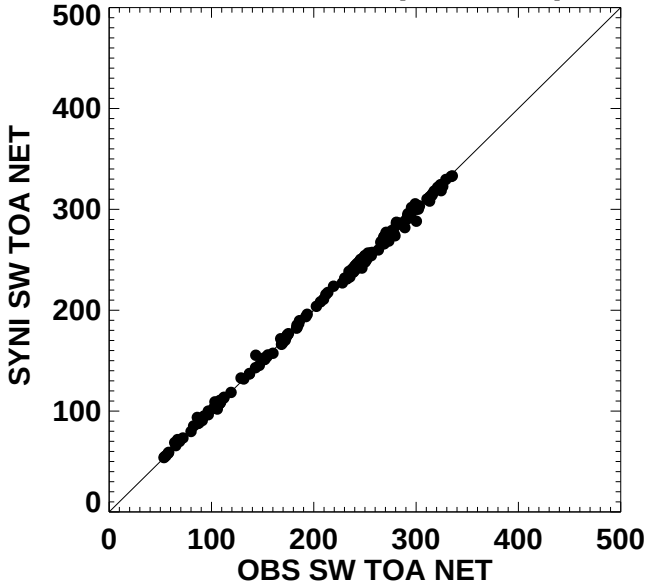
N= 98559.	Mean	(StdDev)
OBS SW TOA NET	214.6(	122.3)
SYNI SW TOA NET	215.3(	122.2)
Y-X	0.777(	6.74)
RMS(	6.78).....	

SW TOA NET(Monthly)



N= 3229.	Mean	(StdDev)
OBS SW TOA NET	213.2(	117.7)
SYNI SW TOA NET	214.0(	117.7)
Y-X	0.778(	4.29)
RMS(	4.36).....	

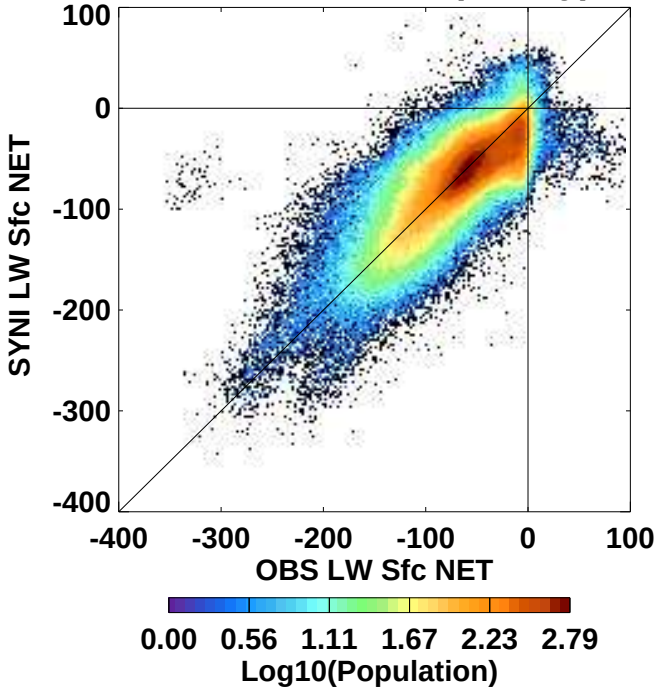
SW TOA NET(YEARLY)



N= 170.	Mean	(StdDev)
OBS SW TOA NET	213.2(	81.89)
SYNI SW TOA NET	214.0(	81.40)
Y-X	0.779(	2.89)
RMS(	2.98).....	

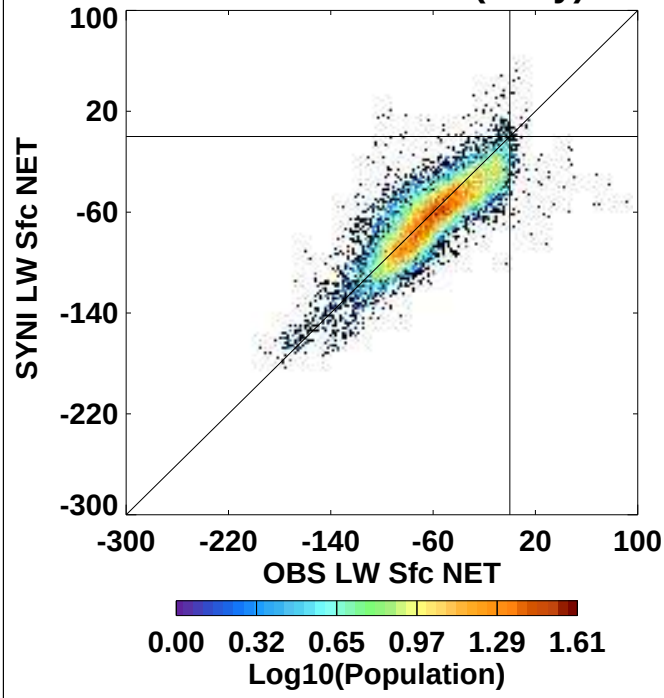
SYNI Beta4 FM1 2000:2005 /Jan,Apr,Jul,Oct: FM1 (STS validation subset)
ALL Beta4 SITES

LW Surface NET(Hourly)



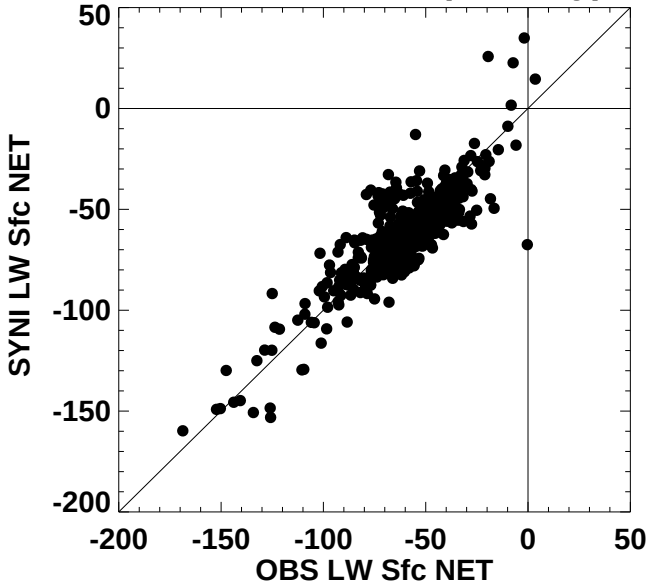
N= 380476.	Mean	(StdDev)
OBS LW Sfc NET	-60.90(	43.56)
SYNI LW Sfc NET	-63.96(	41.06)
Y-X	-3.06(	27.07)
RMS(	27.24).....	

LW Surface NET(Daily)



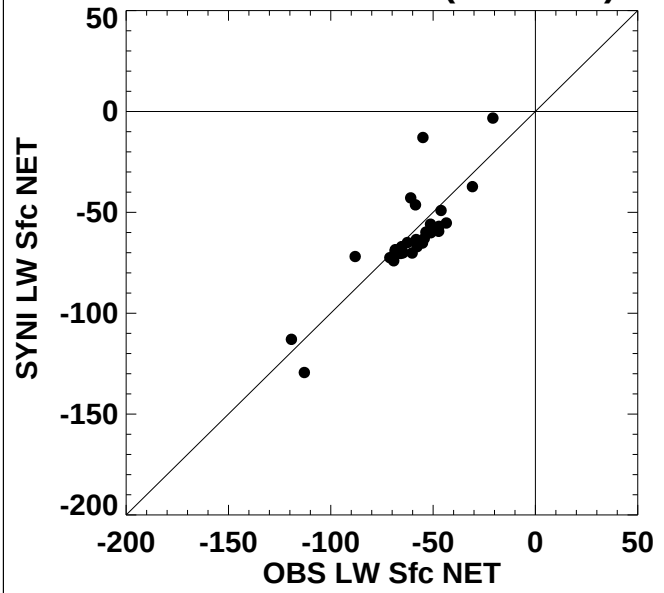
N= 15644.	Mean	(StdDev)
OBS LW Sfc NET	-60.98(	31.43)
SYNI LW Sfc NET	-64.09(	29.27)
Y-X	-3.11(	16.80)
RMS(	17.08).....	

LW Surface NET(Monthly)



N= 549.	Mean	(StdDev)
OBS LW Sfc NET	-60.59(	22.07)
SYNI LW Sfc NET	-63.63(	21.67)
Y-X	-3.04(	11.58)
RMS(	11.96).....	

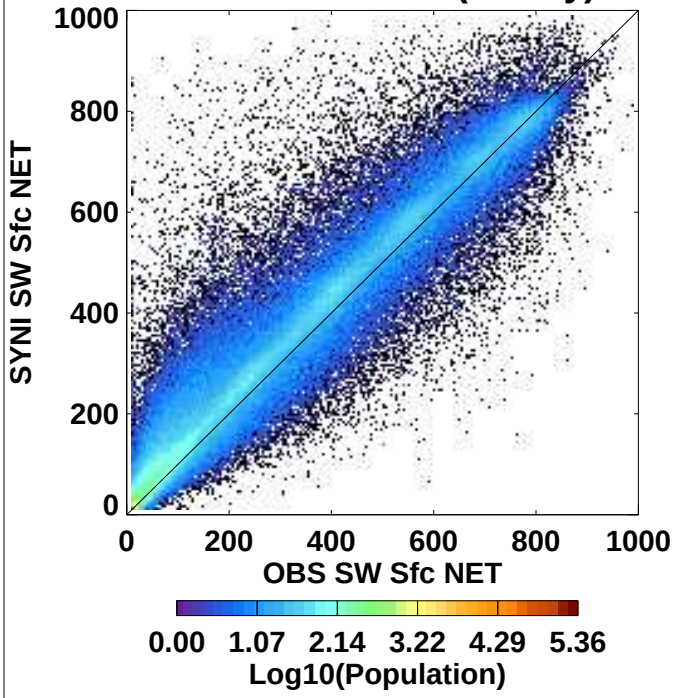
LW Surface NET(YEARLY)



N= 32.	Mean	(StdDev)
OBS LW Sfc NET	-60.82(	19.04)
SYNI LW Sfc NET	-62.41(	22.27)
Y-X	-1.60(	11.66)
RMS(	11.58).....	

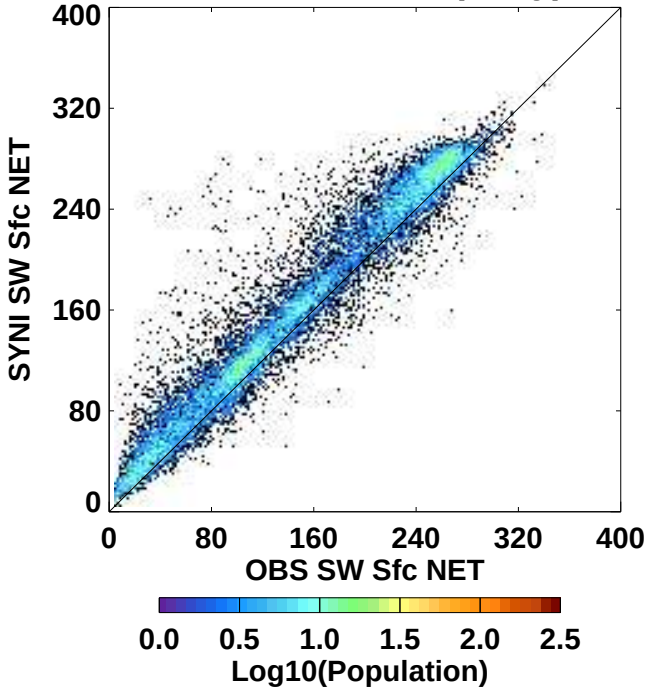
SYNI Beta4 FM1 2000:2005 /Jan,Apr,Jul,Oct: FM1 (STS validation subset)
ALL Beta4 SITES

SW Surface NET(Hourly)



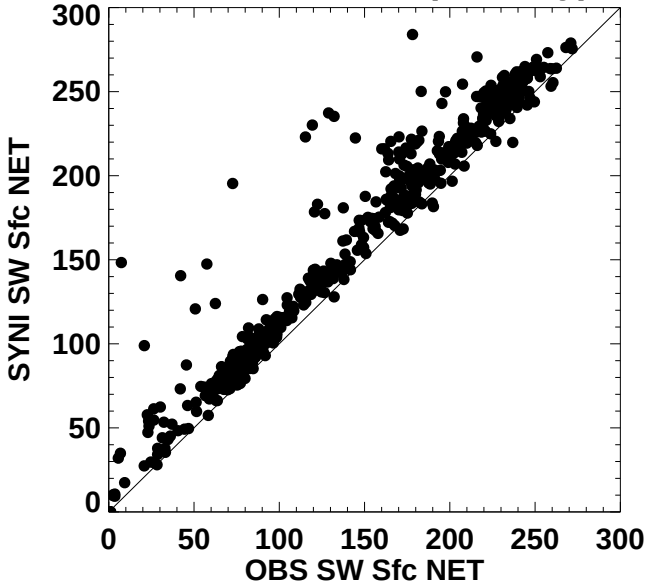
N= 429949.	Mean	(StdDev)
OBS SW Sfc NET	131.3(	217.8)
SYNI SW Sfc NET	145.5(	228.1)
Y-X	14.29(	52.90)
RMS(	54.80).....	

SW Surface NET(Daily)



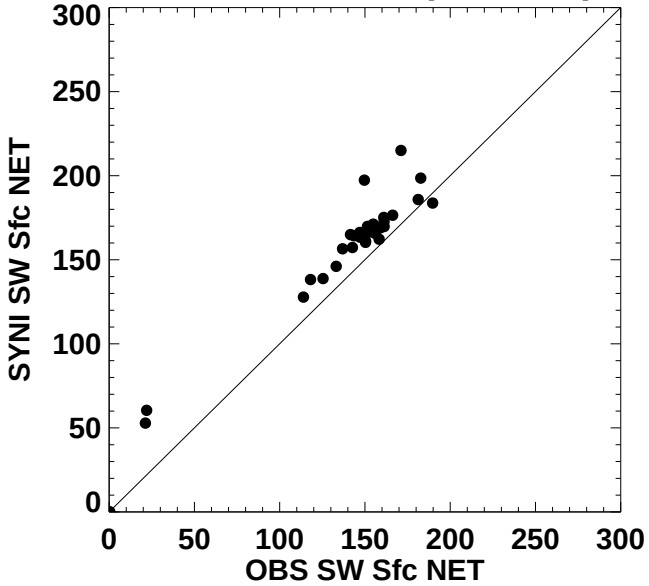
N= 15772.	Mean	(StdDev)
OBS SW Sfc NET	144.7(	84.71)
SYNI SW Sfc NET	159.6(	85.57)
Y-X	14.92(	20.74)
RMS(	25.55).....	

SW Surface NET(Monthly)



N= 556.	Mean	(StdDev)
OBS SW Sfc NET	143.2(	70.45)
SYNI SW Sfc NET	159.8(	72.33)
Y-X	16.57(	16.98)
RMS(	23.71).....	

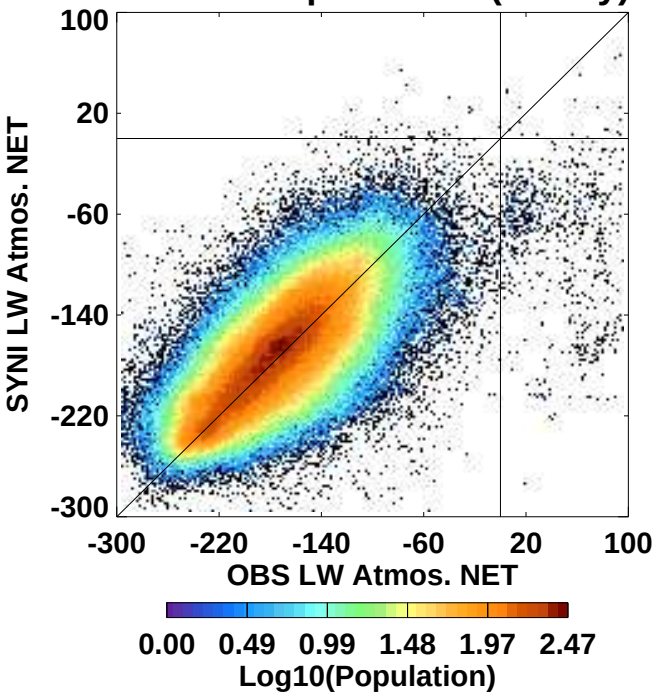
SW Surface NET(YEARLY)



N= 34.	Mean	(StdDev)
OBS SW Sfc NET	135.5(	48.97)
SYNI SW Sfc NET	151.1(	49.40)
Y-X	15.62(	11.33)
RMS(	19.20).....	

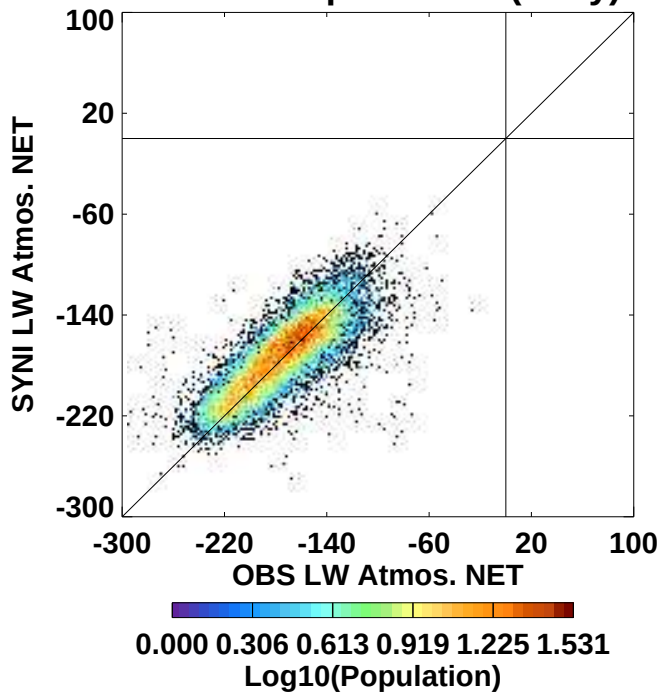
SYNI Beta4 FM1 2000:2005 /Jan,Apr,Jul,Oct: FM1 (STS validation subset)
ALL Beta4 SITES

LW Atmosphere NET(Hourly)



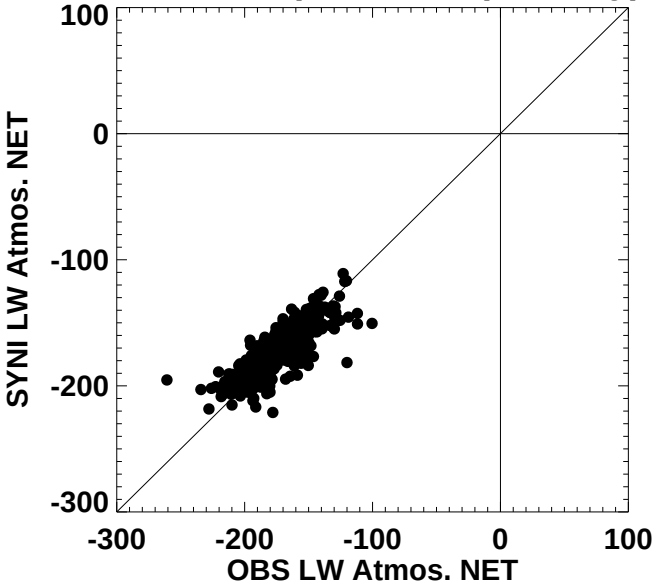
N= 379955.	Mean	(StdDev)
OBS LW Atmos. NET	-175.4(	42.92)
SYNI LW Atmos. NET	-172.9(	41.19)
Y-X	2.50(	30.80)
RMS(	30.91).....	

LW Atmosphere NET(Daily)



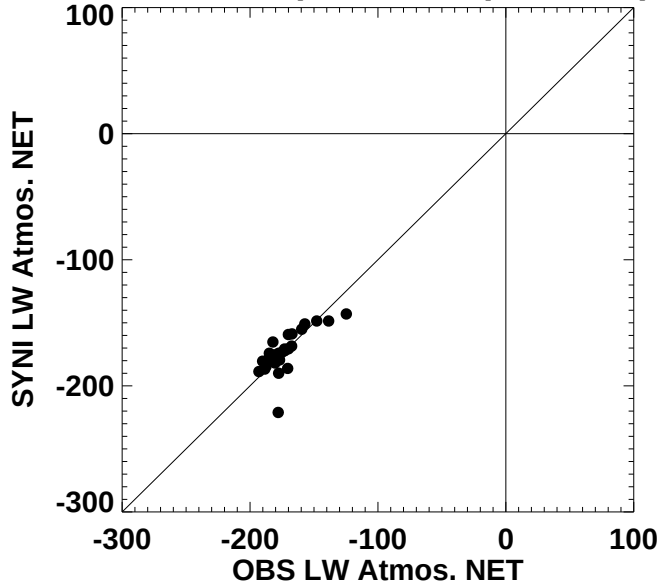
N= 15640.	Mean	(StdDev)
OBS LW Atmos. NET	-175.5(	32.06)
SYNI LW Atmos. NET	-173.1(	29.34)
Y-X	2.39(	19.28)
RMS(	19.43).....	

LW Atmosphere NET(Monthly)



N= 550.	Mean	(StdDev)
OBS LW Atmos. NET	-174.8(	22.05)
SYNI LW Atmos. NET	-172.7(	18.70)
Y-X	2.05(	11.76)
RMS(	11.93).....	

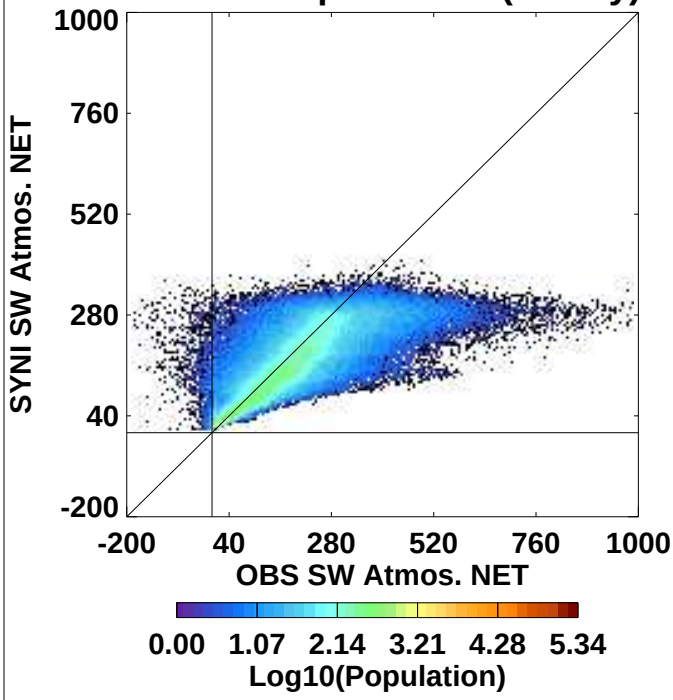
LW Atmosphere NET(YEARLY)



N= 32.	Mean	(StdDev)
OBS LW Atmos. NET	-174.5(	15.17)
SYNI LW Atmos. NET	-173.8(	15.20)
Y-X	0.692(	11.00)
RMS(	10.84).....	

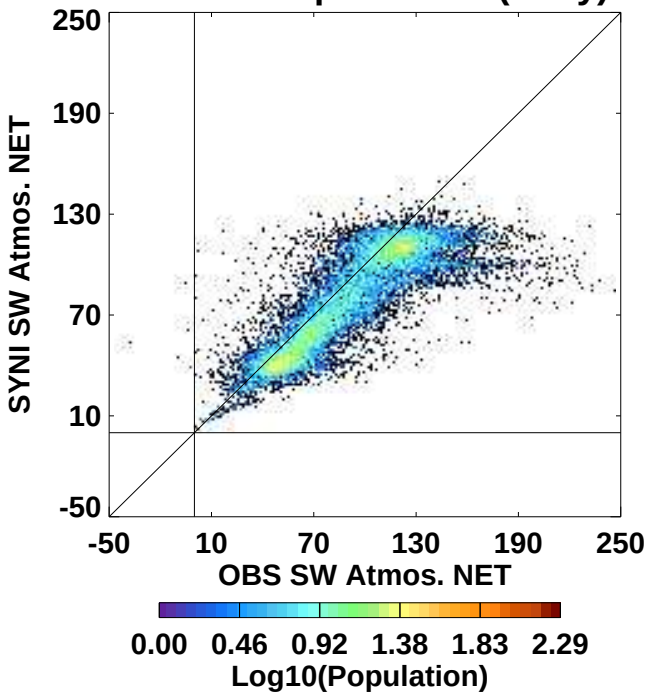
SYNI Beta4 FM1 2000:2005 /Jan,Apr,Jul,Oct: FM1 (STS validation subset)
ALL Beta4 SITES

SW Atmosphere NET(Hourly)



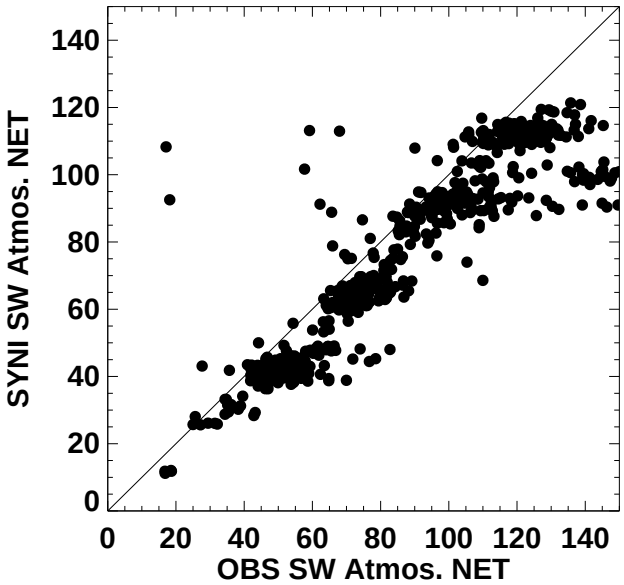
N= 429686.	Mean	(StdDev)
OBS SW Atmos. NET	81.00(	118.1)
SYNI SW Atmos. NET	69.40(	92.70)
Y-X	-11.60(	52.64)
RMS(	53.90).....	

SW Atmosphere NET(Daily)



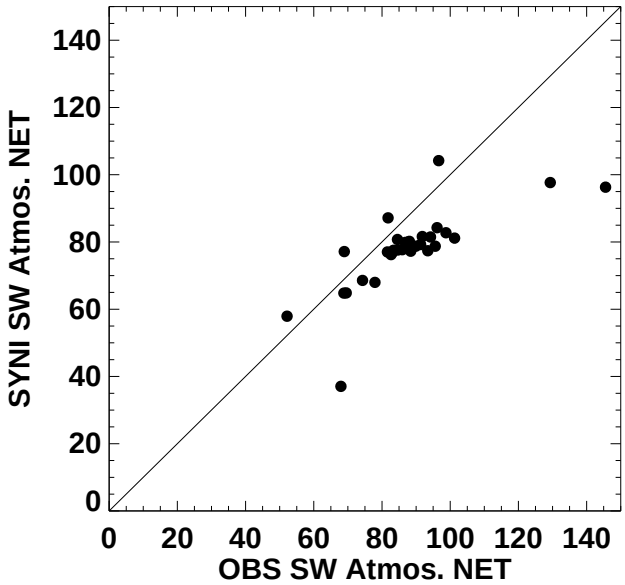
N= 15688.	Mean	(StdDev)
OBS SW Atmos. NET	88.34(	38.14)
SYNI SW Atmos. NET	76.46(	30.93)
Y-X	-11.88(	20.43)
RMS(	23.63).....	

SW Atmosphere NET(Monthly)



N= 534.	Mean	(StdDev)
OBS SW Atmos. NET	88.22(	31.88)
SYNI SW Atmos. NET	77.61(	28.41)
Y-X	-10.61(	13.08)
RMS(	16.83).....	

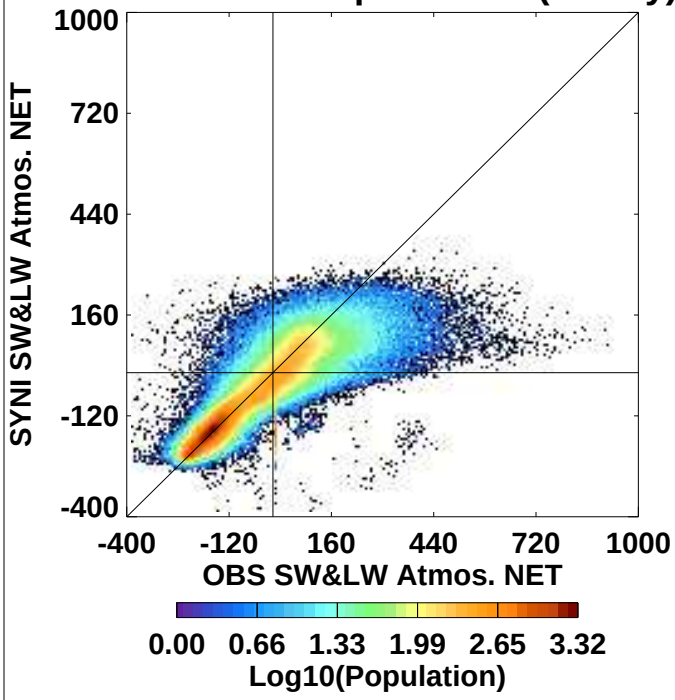
SW Atmosphere NET(YEARLY)



N= 32.	Mean	(StdDev)
OBS SW Atmos. NET	87.78(	16.89)
SYNI SW Atmos. NET	77.75(	11.69)
Y-X	-10.03(	11.42)
RMS(	15.06).....	

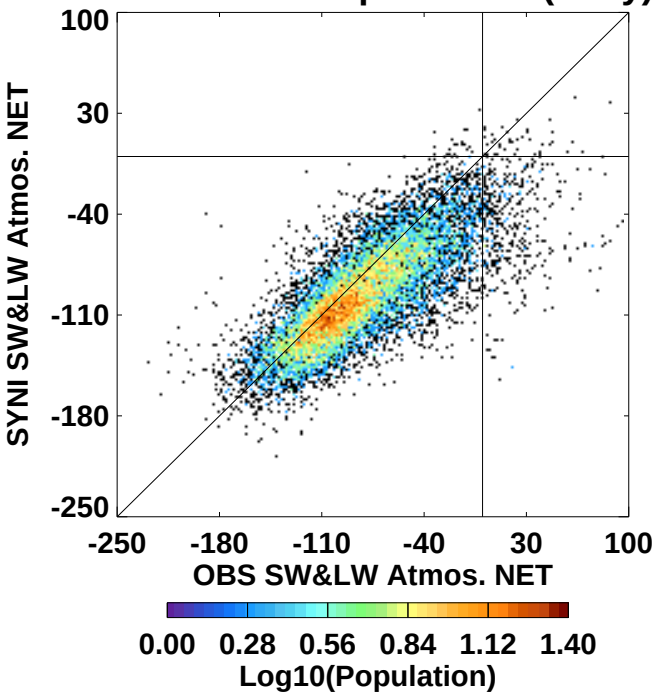
SYNI Beta4 FM1 2000:2005 /Jan,Apr,Jul,Oct: FM1 (STS validation subset)
ALL Beta4 SITES

SW&LW Atmosphere NET(Hourly)



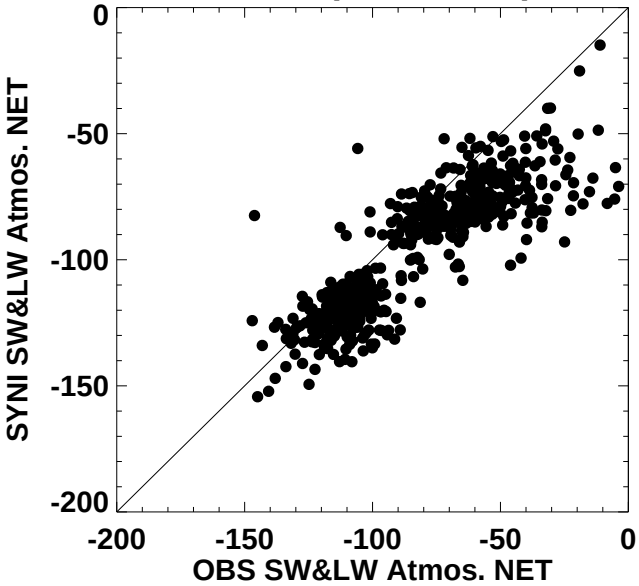
N= 373895.	Mean	(StdDev)
OBS SW&LW Atmos. NET	-81.43(	133.6)
SYNI SW&LW Atmos. NET	-95.59(	109.6)
Y-X	-14.16(	64.20)
RMS(	65.74).....	

SW&LW Atmosphere NET(Daily)



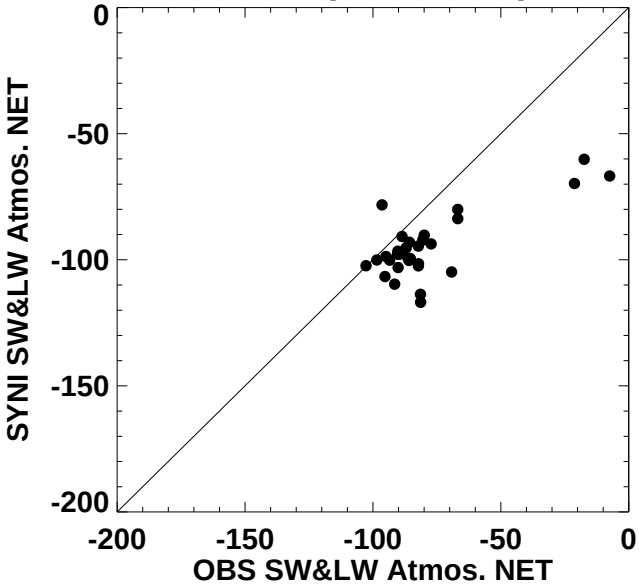
N= 15091.	Mean	(StdDev)
OBS SW&LW Atmos. NET	-83.30(	40.42)
SYNI SW&LW Atmos. NET	-96.40(	33.54)
Y-X	-13.10(	25.56)
RMS(	28.72).....	

SW&LW Atmosphere NET(Monthly)



N= 529.	Mean	(StdDev)
OBS SW&LW Atmos. NET	-83.18(	30.24)
SYNI SW&LW Atmos. NET	-96.21(	24.83)
Y-X	-13.03(	15.24)
RMS(	20.04).....	

SW&LW Atmosphere NET(YEARLY)



N= 32.	Mean	(StdDev)
OBS SW&LW Atmos. NET	-79.19(	22.51)
SYNI SW&LW Atmos. NET	-94.98(	12.70)
Y-X	-15.79(	15.32)
RMS(	21.83).....	