SYNI Beta4 FM1 2000:2005 /Jan,Apr,Jul,Oct: FM1 (STS validation subset)
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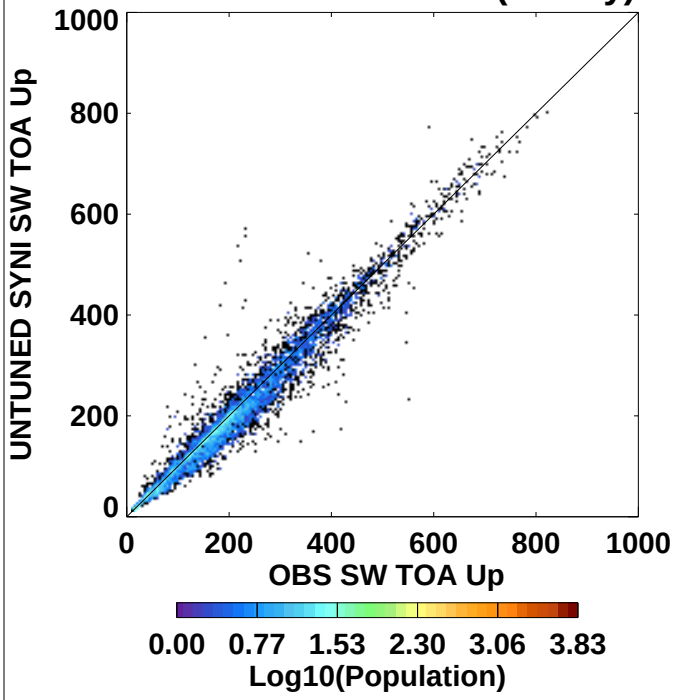
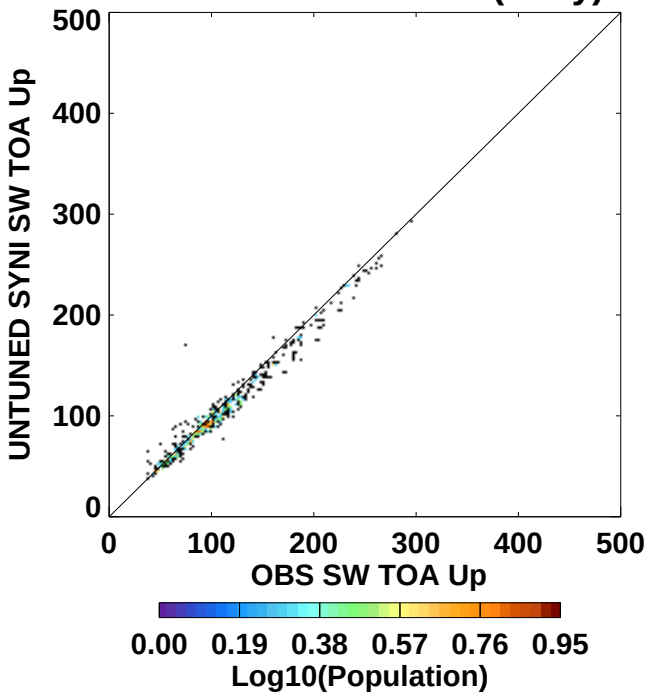
Untuned TOA SW UP(Hourly)



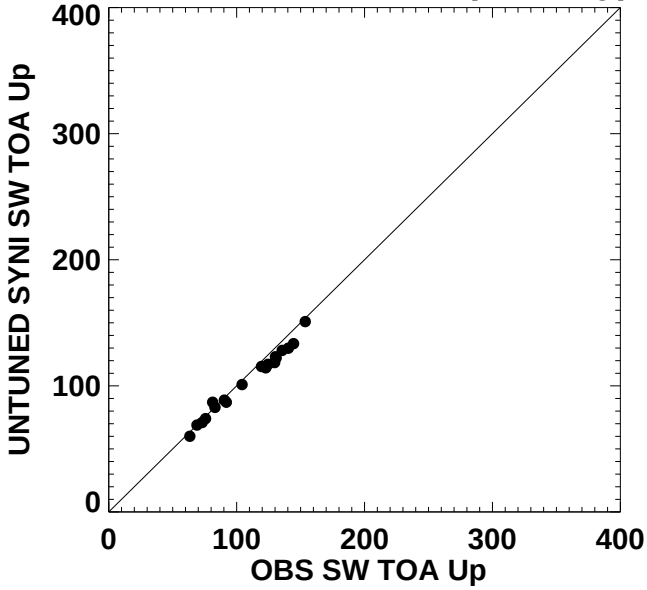
N= 13978.	Mean	(StdDev)
OBS SW TOA Up	108.2	(141.6)
UNTUNED SYNI SW TOA Up	103.7	(138.8)
Y-X	-4.54	(20.69)
RMS	(21.18)	.....

Untuned TOA SW UP(Daily)



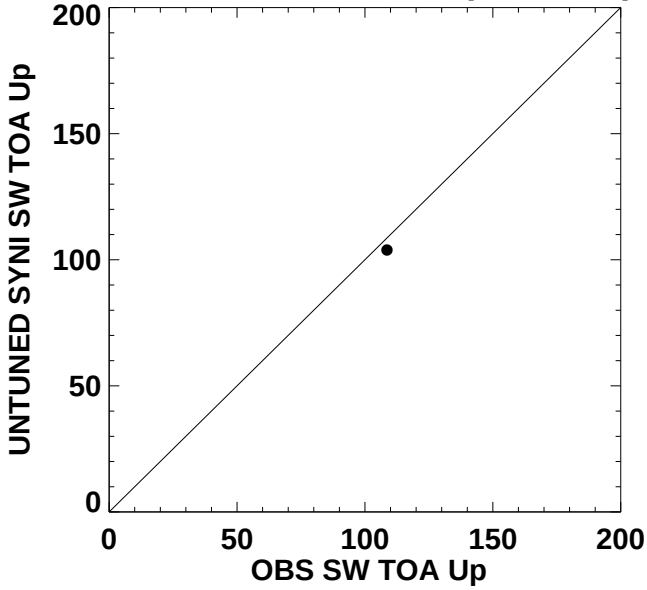
N= 576.	Mean	(StdDev)
OBS SW TOA Up	108.2	(49.24)
UNTUNED SYNI SW TOA Up	103.7	(46.68)
Y-X	-4.52	(8.79)
RMS	(9.88)	.....

Untuned TOA SW UP(Monthly)



N= 19.	Mean	(StdDev)
OBS SW TOA Up	108.6	(28.90)
UNTUNED SYNI SW TOA Up	103.9	(25.89)
Y-X	-4.73	(4.43)
RMS	(6.40)	.....

Untuned TOA SW UP(YEARLY)



N= 1.	Mean	(StdDev)
OBS SW TOA Up	108.6	(-999.0)
UNTUNED SYNI SW TOA Up	103.9	(-999.0)
Y-X	-4.73	(-999.0)
RMS	(-999.0)	.....

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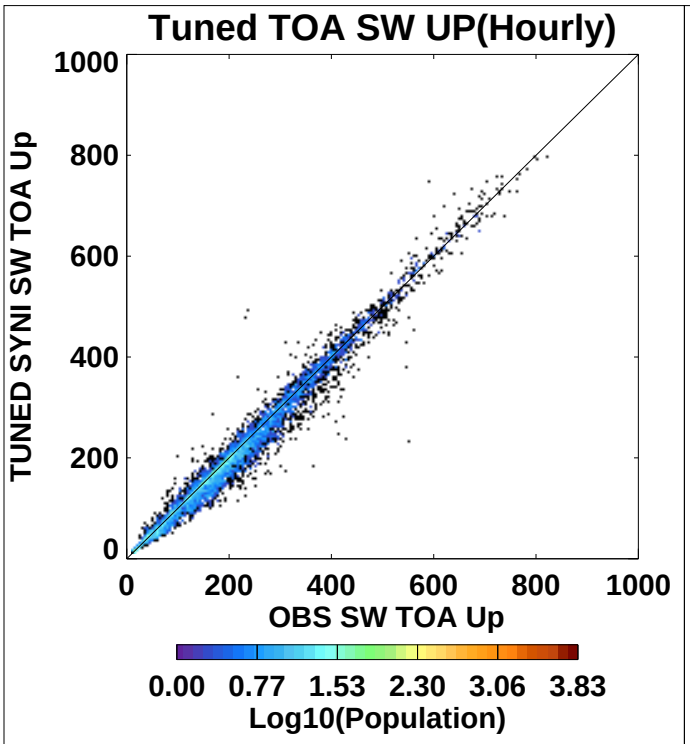
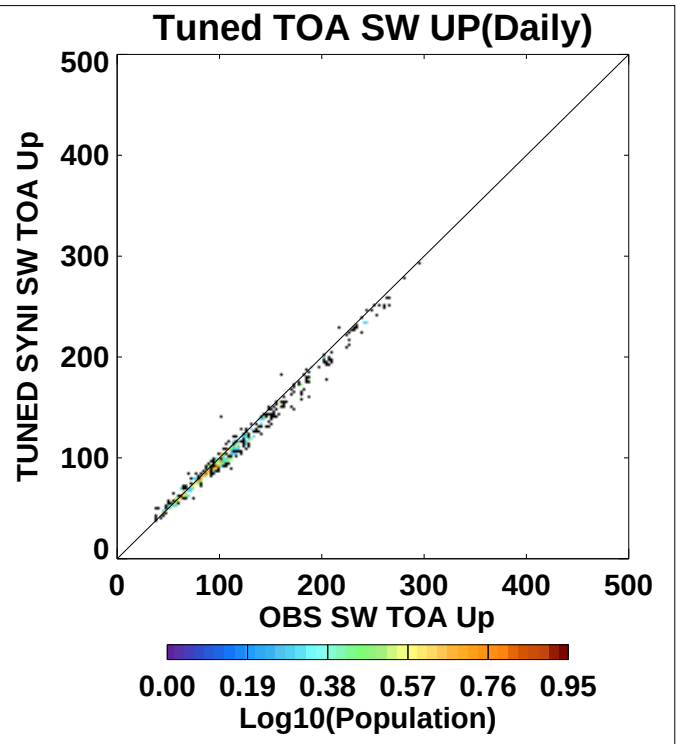
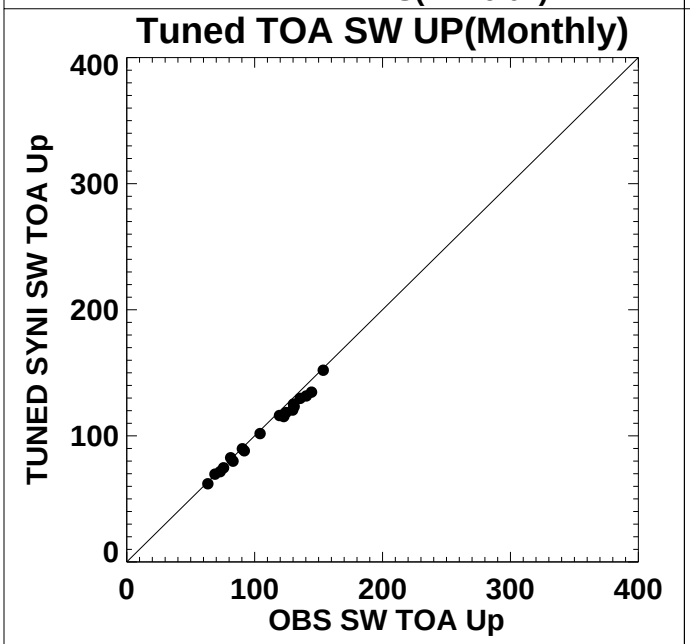


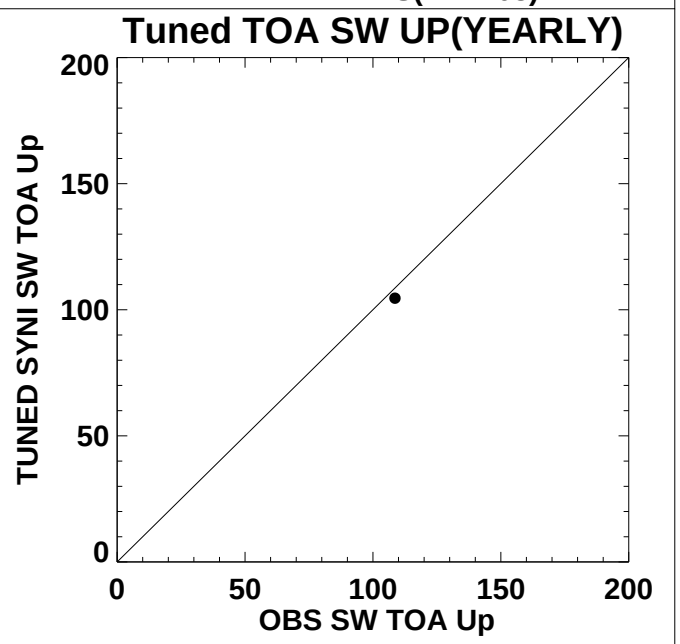
N= 13985.	Mean	(StdDev)
OBS SW TOA Up	108.2(	141.6)
TUNED SYNI SW TOA Up	104.4(	139.1)
Y-X	-3.86(	15.56)
RMS(	16.04).....	



N= 579.	Mean	(StdDev)
OBS SW TOA Up	108.2(	49.18)
TUNED SYNI SW TOA Up	104.3(	47.08)
Y-X	-3.87(	5.93)
RMS(	7.08).....	



N= 19.	Mean	(StdDev)
OBS SW TOA Up	108.6(	28.90)
TUNED SYNI SW TOA Up	104.6(	26.46)
Y-X	-4.01(	3.43)
RMS(	5.22).....	



N= 1.	Mean	(StdDev)
OBS SW TOA Up	108.6(	-999.0)
TUNED SYNI SW TOA Up	104.6(	-999.0)
Y-X	-4.01(	-999.0)
RMS(	-999.0).....	

SYNI Beta4 FM1 2000:2005 /Jan,Apr,Jul,Oct: FM1 (STS validation subset)
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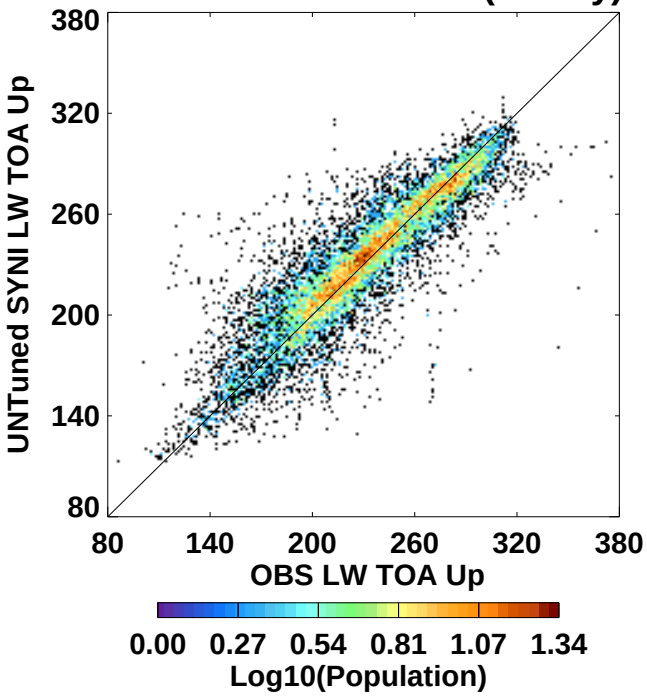
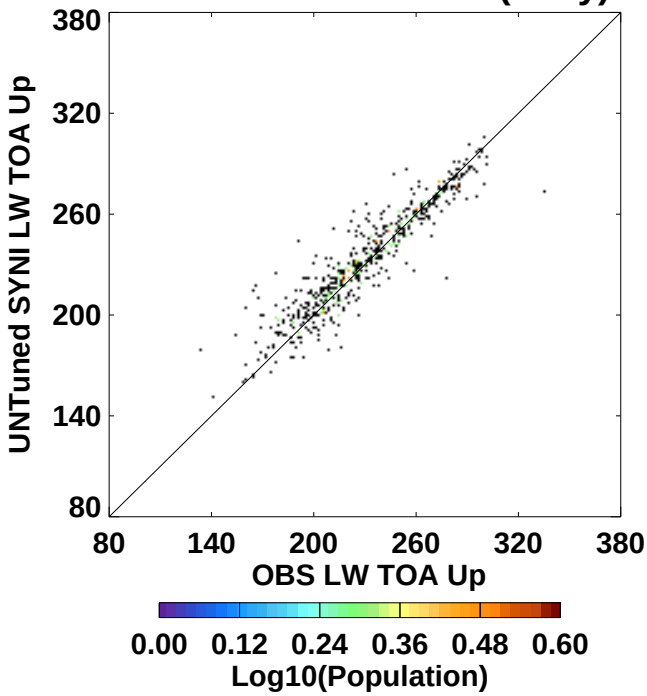
UNTuned TOA LW UP(Hourly)



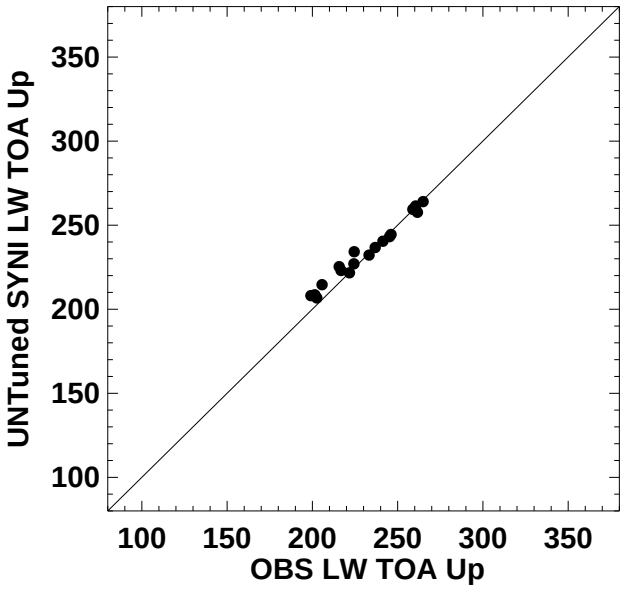
N= 13937.	Mean	(StdDev)
OBS LW TOA Up	229.9	(41.88)
UNTuned SYNI LW TOA Up	232.3	(39.16)
Y-X	2.44	(18.59)
RMS(	18.75).....	

UNTuned TOA LW UP(Daily)



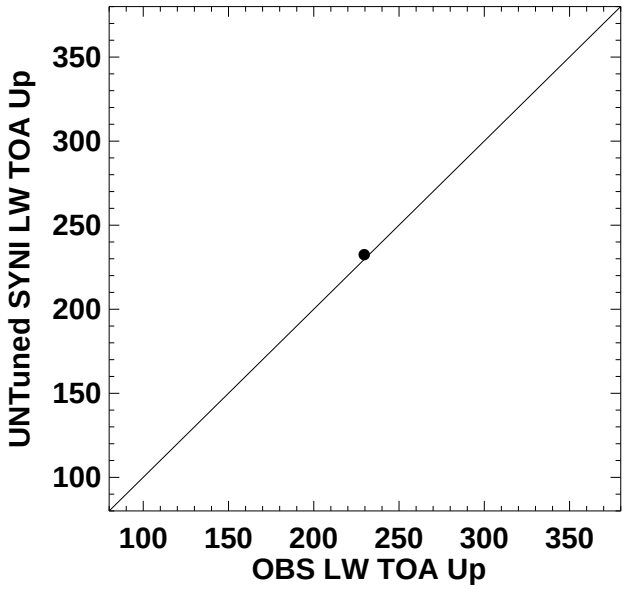
N= 576.	Mean	(StdDev)
OBS LW TOA Up	229.6	(33.48)
UNTuned SYNI LW TOA Up	232.5	(30.76)
Y-X	2.89	(12.36)
RMS(	12.68).....	

UNTuned TOA LW UP(Monthly)



N= 19.	Mean	(StdDev)
OBS LW TOA Up	229.6	(22.50)
UNTuned SYNI LW TOA Up	232.5	(19.08)
Y-X	2.89	(4.57)
RMS(	5.31).....	

UNTuned TOA LW UP(YEARLY)



N= 1.	Mean	(StdDev)
OBS LW TOA Up	229.6	(-999.0)
UNTuned SYNI LW TOA Up	232.5	(-999.0)
Y-X	2.89	(-999.0)
RMS(	-999.0).....	

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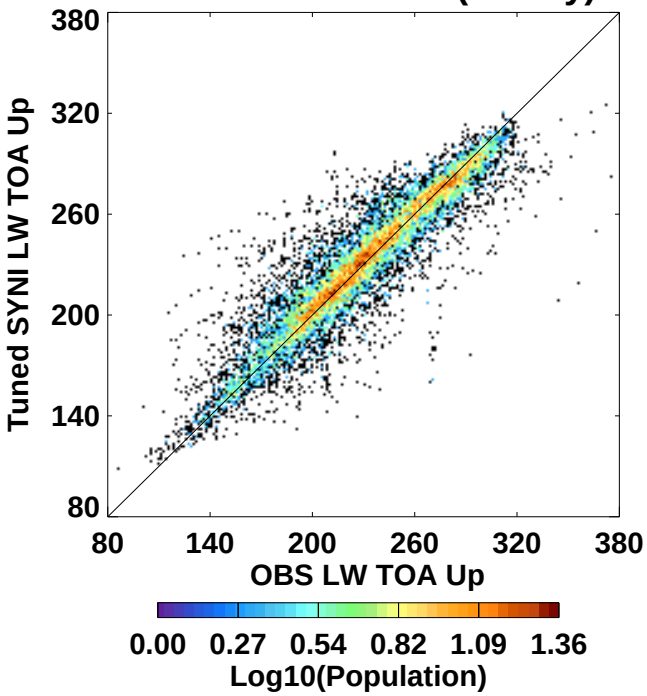
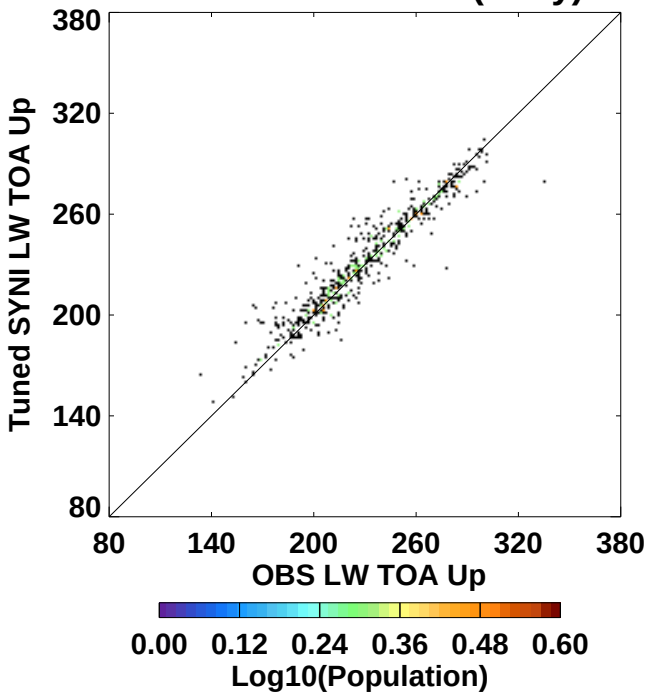
Tuned TOA LW UP(Hourly)



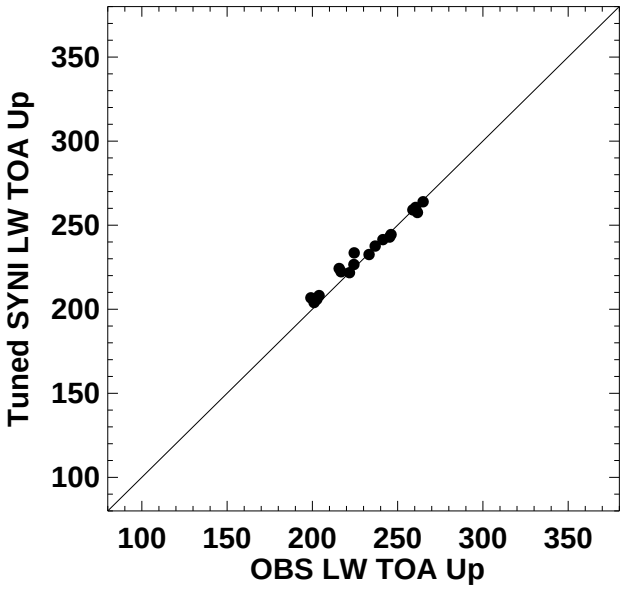
N= 13944.	Mean	(StdDev)
OBS LW TOA Up	229.8	(41.88)
Tuned SYNI LW TOA Up	231.6	(39.49)
Y-X	1.79	(15.90)
RMS(	16.00).....	

Tuned TOA LW UP(Daily)



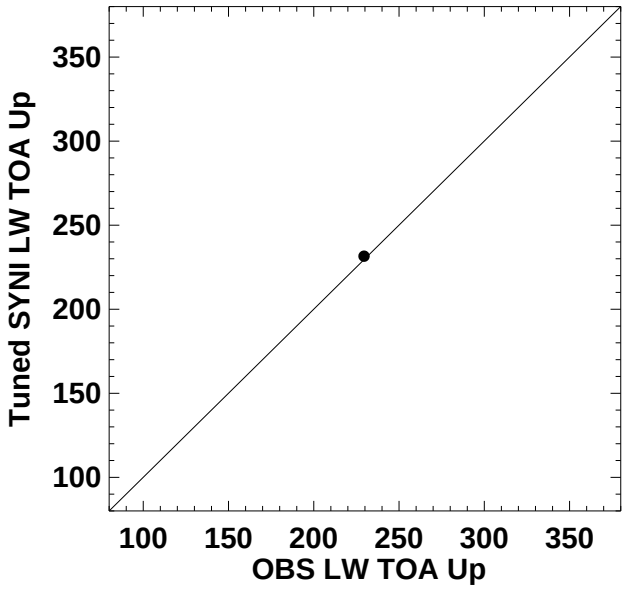
N= 579.	Mean	(StdDev)
OBS LW TOA Up	229.4	(33.61)
Tuned SYNI LW TOA Up	231.5	(31.41)
Y-X	2.09	(10.24)
RMS(	10.44).....	

Tuned TOA LW UP(Monthly)



N= 19.	Mean	(StdDev)
OBS LW TOA Up	229.5	(22.63)
Tuned SYNI LW TOA Up	231.5	(20.06)
Y-X	2.08	(3.76)
RMS(	4.21).....	

Tuned TOA LW UP(YEARLY)



N= 1.	Mean	(StdDev)
OBS LW TOA Up	229.5	(-999.0)
Tuned SYNI LW TOA Up	231.5	(-999.0)
Y-X	2.08	(-999.0)
RMS(	-999.0).....	

SYNI Beta4 FM1 2000:2005 /Jan,Apr,Jul,Oct: FM1 (STS validation subset)
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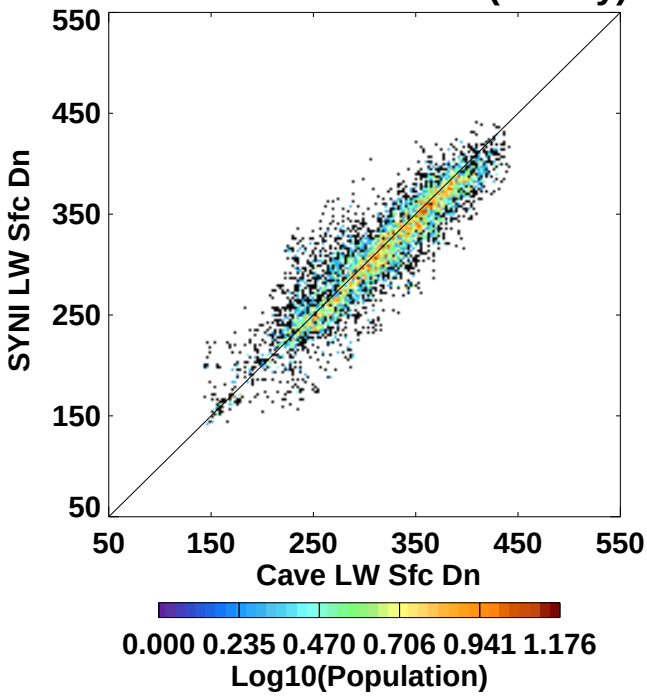
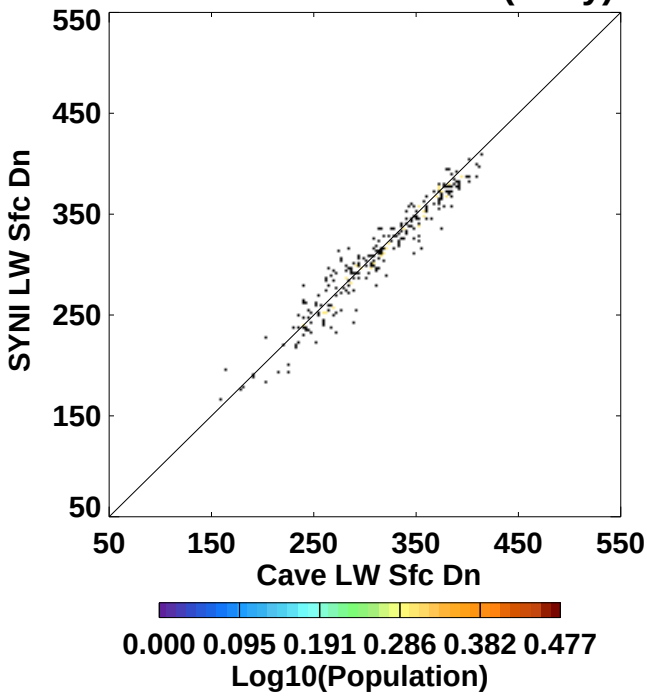
Tuned SFC LW DOWN(Hourly)



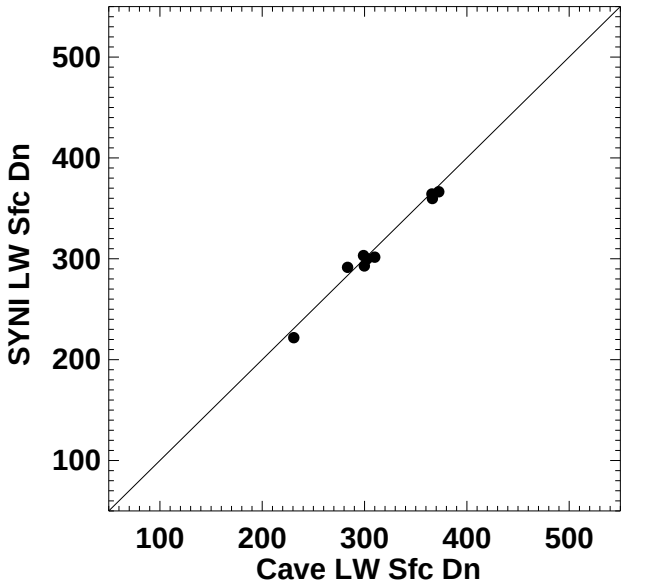
N= 6632.	Mean	(StdDev)
Cave LW Sfc Dn	314.7(	58.58)
SYNI LW Sfc Dn	311.5(	56.09)
Y-X	-3.19(	23.57)
RMS(	23.78).....	

Tuned SFC LW DOWN(Daily)



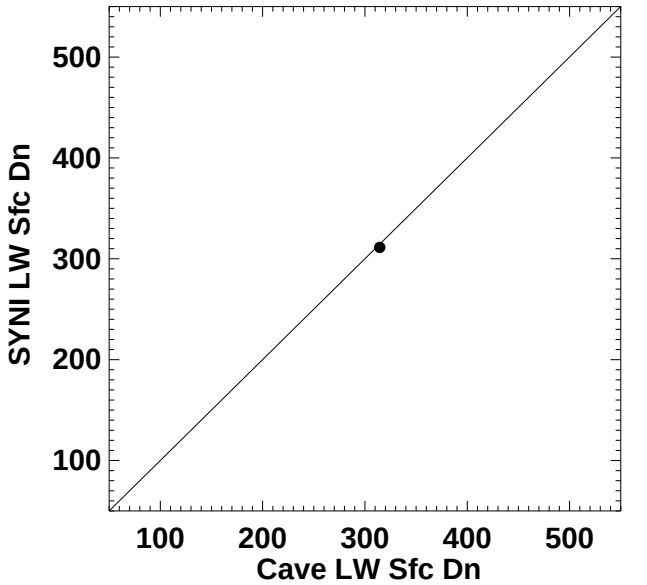
N= 273.	Mean	(StdDev)
Cave LW Sfc Dn	314.5(	54.58)
SYNI LW Sfc Dn	311.3(	53.00)
Y-X	-3.17(	13.71)
RMS(	14.04).....	

Tuned SFC LW DOWN(Monthly)



N= 9.	Mean	(StdDev)
Cave LW Sfc Dn	314.5(	46.47)
SYNI LW Sfc Dn	311.3(	46.40)
Y-X	-3.19(	5.90)
RMS(	6.42).....	

Tuned SFC LW DOWN(YEARLY)



N= 1.	Mean	(StdDev)
Cave LW Sfc Dn	314.5(	-999.0)
SYNI LW Sfc Dn	311.3(	-999.0)
Y-X	-3.19(	-999.0)
RMS(	-999.0).....	

SYNI Beta4 FM1 2000:2005 /Jan,Apr,Jul,Oct: FM1 (STS validation subset)
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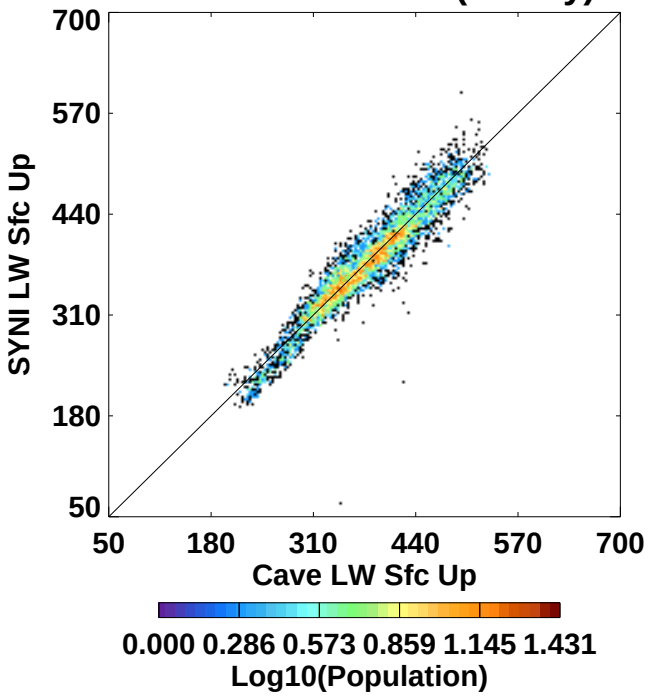
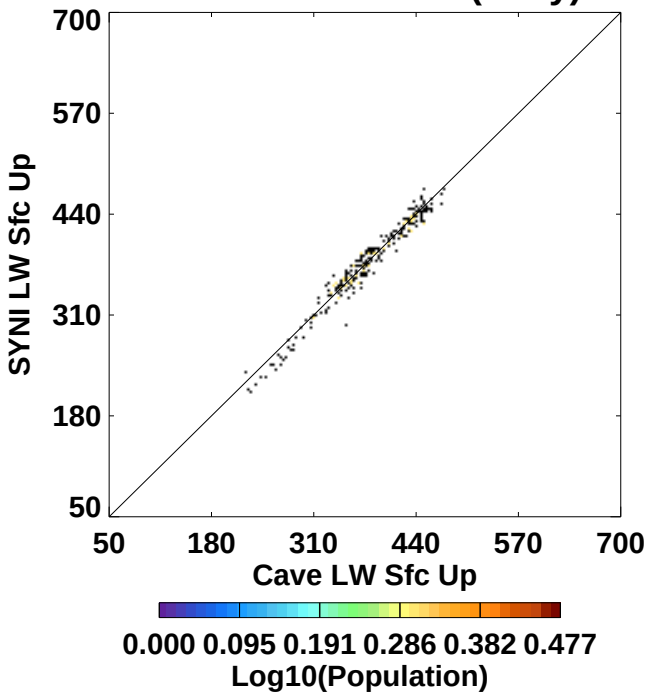
Tuned SFC LW UP(Hourly)



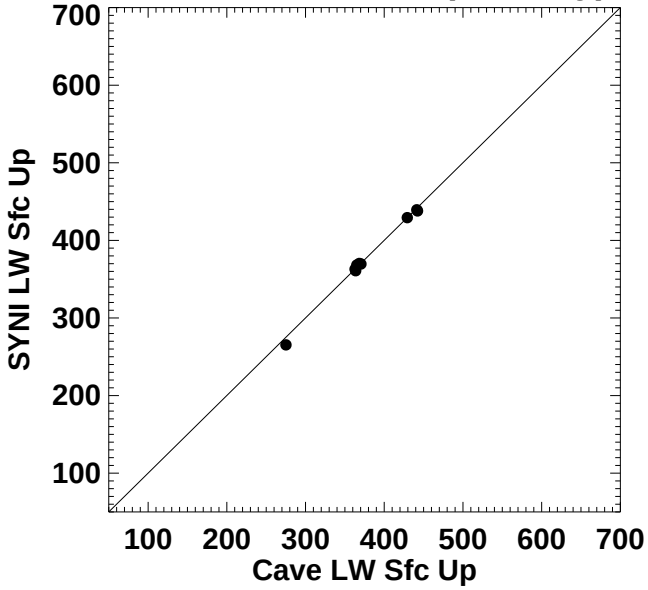
N= 6634.	Mean	(StdDev)
Cave LW Sfc Up	379.9	(63.16)
SYNI LW Sfc Up	378.4	(64.59)
Y-X	-1.56	(18.85)
RMS(	18.91).....	

Tuned SFC LW UP(Daily)



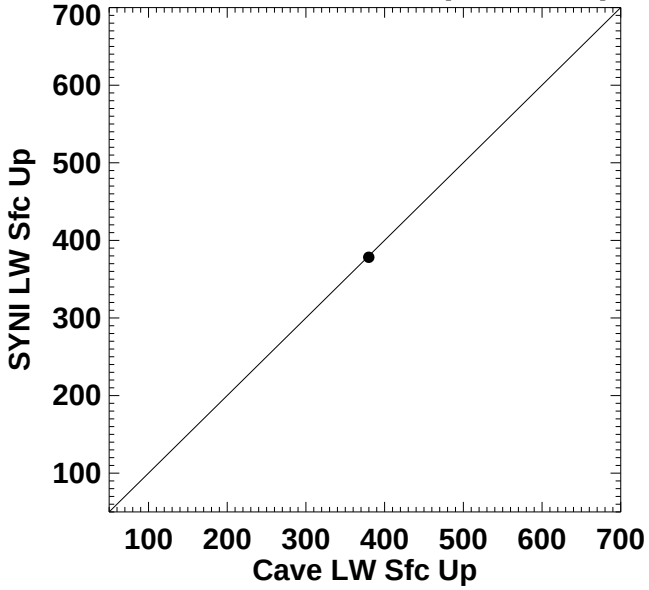
N= 274.	Mean	(StdDev)
Cave LW Sfc Up	379.9	(54.45)
SYNI LW Sfc Up	378.2	(56.16)
Y-X	-1.64	(10.74)
RMS(	10.85).....	

Tuned SFC LW UP(Monthly)



N= 9.	Mean	(StdDev)
Cave LW Sfc Up	379.8	(52.53)
SYNI LW Sfc Up	378.2	(54.12)
Y-X	-1.62	(3.81)
RMS(	3.94).....	

Tuned SFC LW UP(YEARLY)



N= 1.	Mean	(StdDev)
Cave LW Sfc Up	379.8	(-999.0)
SYNI LW Sfc Up	378.2	(-999.0)
Y-X	-1.62	(-999.0)
RMS(	-999.0).....	

SYNI Beta4 FM1 2000:2005 /Jan,Apr,Jul,Oct: FM1 (STS validation subset)
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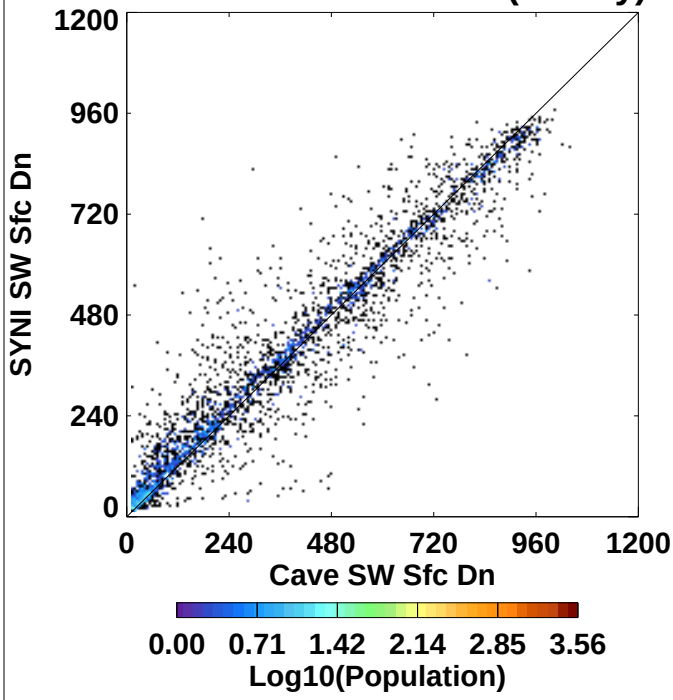
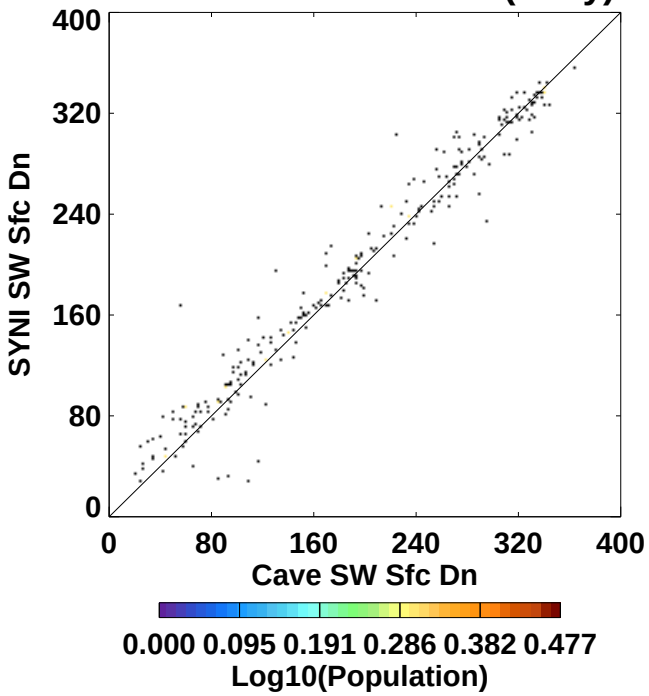
Tuned SFC SW DOWN(Hourly)



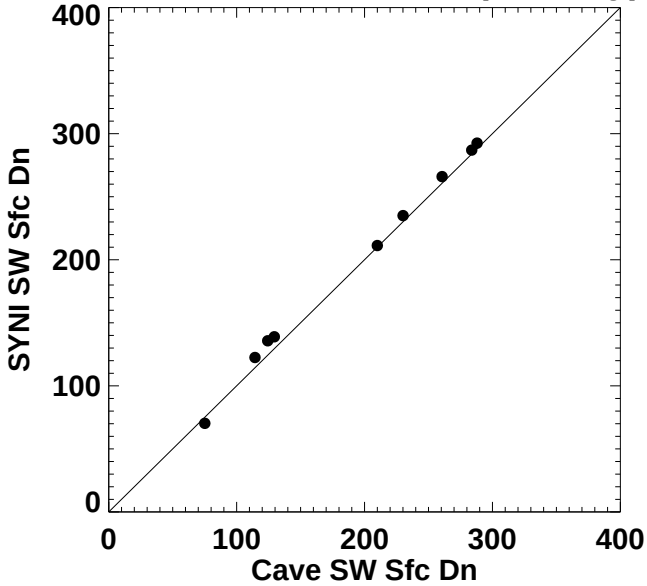
N= 7101.	Mean	(StdDev)
Cave SW Sfc Dn	177.4(	267.0)
SYNI SW Sfc Dn	181.9(	264.2)
Y-X	4.49(	56.54)
RMS(	56.71).....	

Tuned SFC SW DOWN(Daily)



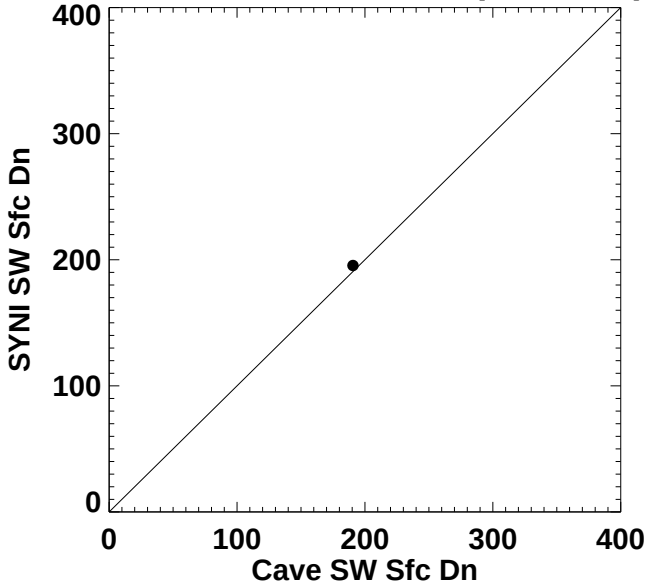
N= 274.	Mean	(StdDev)
Cave SW Sfc Dn	190.7(	97.00)
SYNI SW Sfc Dn	195.5(	94.20)
Y-X	4.84(	19.08)
RMS(	19.65).....	

Tuned SFC SW DOWN(Monthly)



N= 9.	Mean	(StdDev)
Cave SW Sfc Dn	190.6(	80.86)
SYNI SW Sfc Dn	195.5(	80.89)
Y-X	4.86(	4.82)
RMS(	6.65).....	

Tuned SFC SW DOWN(YEARLY)



N= 1.	Mean	(StdDev)
Cave SW Sfc Dn	190.6(	-999.0)
SYNI SW Sfc Dn	195.5(	-999.0)
Y-X	4.86(	-999.0)
RMS(	-999.0).....	

SYNI Beta4 FM1 2000:2005 /Jan,Apr,Jul,Oct: FM1 (STS validation subset)
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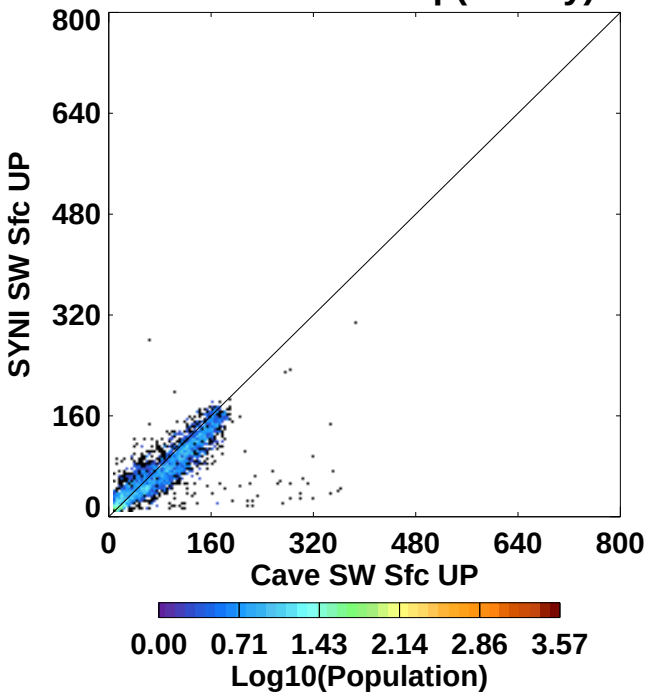
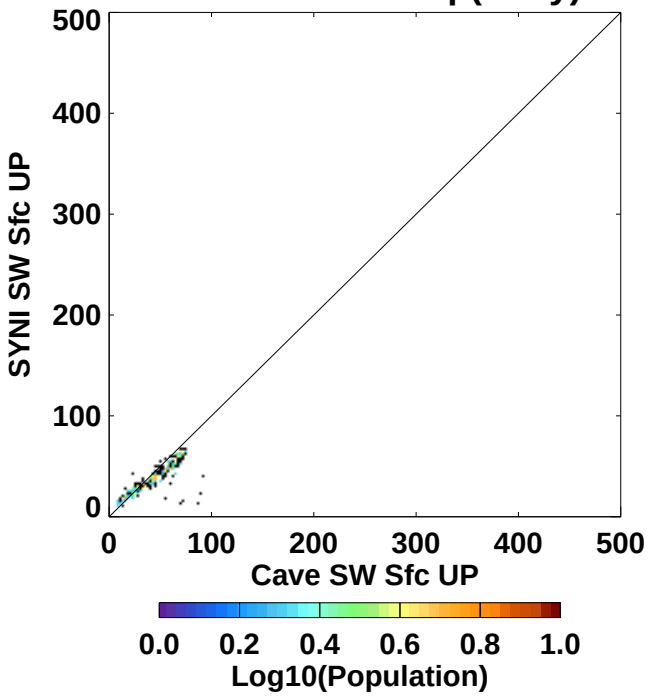
Tuned SFC SW Up(Hourly)



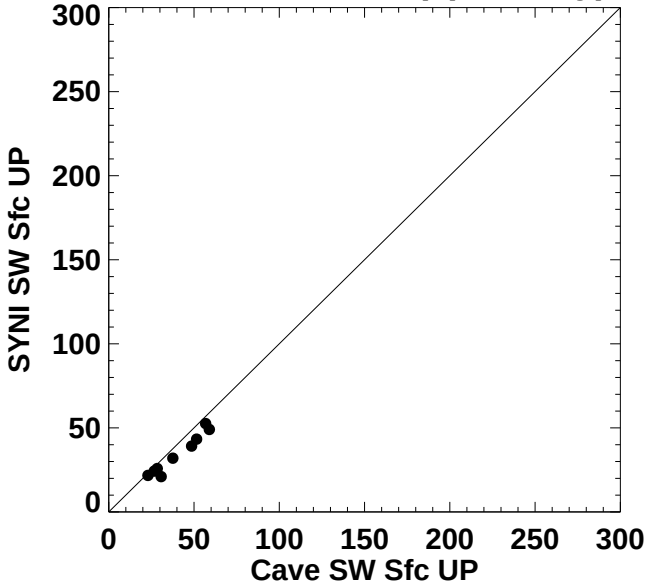
N= 7101.	Mean	(StdDev)
Cave SW Sfc UP	37.49(	54.30)
SYNI SW Sfc UP	31.99(	45.54)
Y-X	-5.50(	21.44)
RMS(	22.14).....	

Tuned SFC SW Up(Daily)



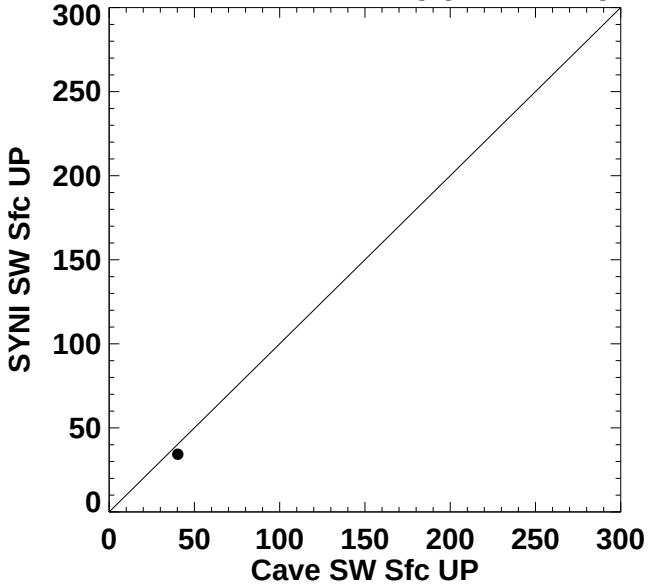
N= 274.	Mean	(StdDev)
Cave SW Sfc UP	40.30(	19.31)
SYNI SW Sfc UP	34.38(	14.79)
Y-X	-5.92(	10.24)
RMS(	11.81).....	

Tuned SFC SW Up(Monthly)



N= 9.	Mean	(StdDev)
Cave SW Sfc UP	40.25(	13.89)
SYNI SW Sfc UP	34.34(	12.09)
Y-X	-5.91(	3.46)
RMS(	6.75).....	

Tuned SFC SW Up(YEARLY)



N= 1.	Mean	(StdDev)
Cave SW Sfc UP	40.25(	-999.0)
SYNI SW Sfc UP	34.34(	-999.0)
Y-X	-5.91(	-999.0)
RMS(	-999.0).....	

SYNI Beta4 FM1 2000:2005 /Jan,Apr,Jul,Oct: FM1 (STS validation subset)
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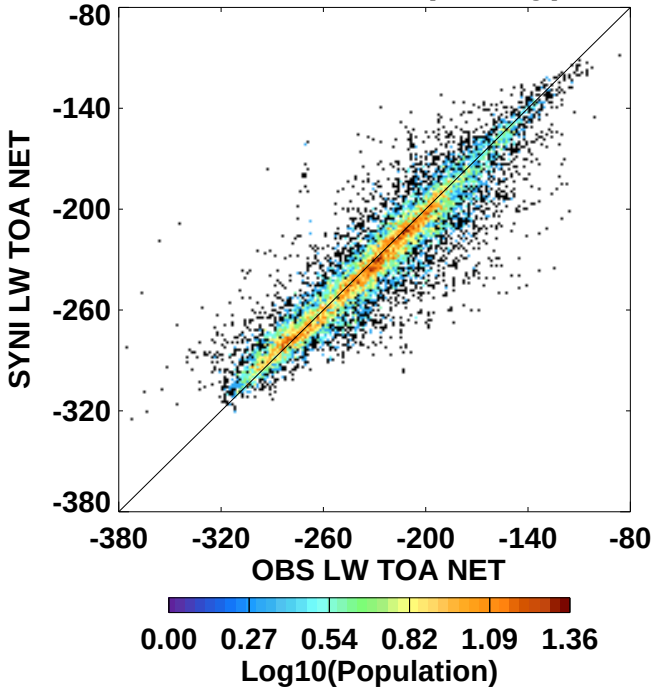
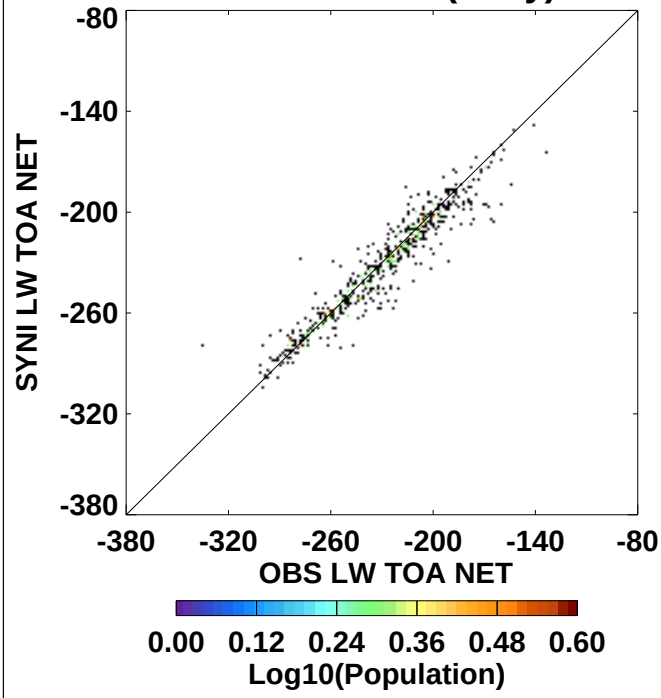
TOA LW NET(Hourly)



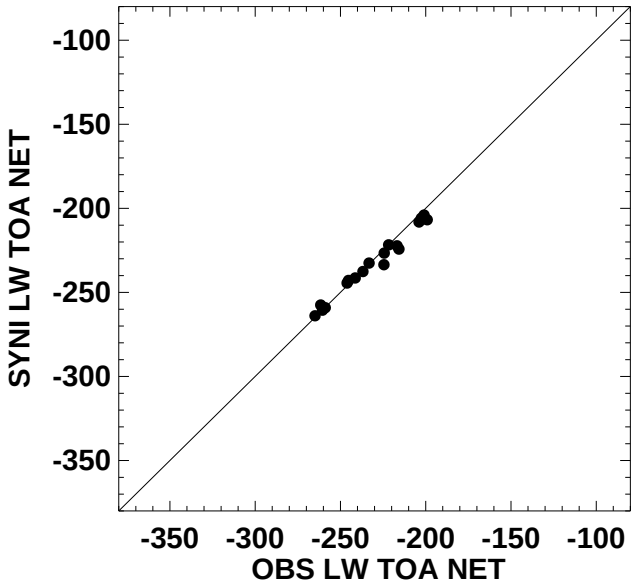
N= 13944.	Mean	(StdDev)
OBS LW TOA NET	-229.8(	41.88)
SYNI LW TOA NET	-231.6(	39.49)
Y-X	-1.79(	15.90)
RMS(	16.00).....	

TOA LW NET(Daily)



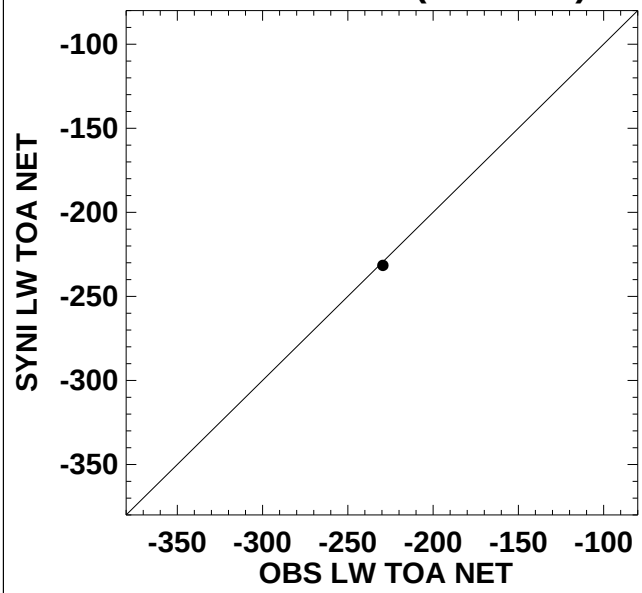
N= 579.	Mean	(StdDev)
OBS LW TOA NET	-229.4(	33.61)
SYNI LW TOA NET	-231.5(	31.41)
Y-X	-2.09(	10.24)
RMS(	10.44).....	

TOA LW NET(Monthly)



N= 19.	Mean	(StdDev)
OBS LW TOA NET	-229.5(	22.63)
SYNI LW TOA NET	-231.5(	20.06)
Y-X	-2.08(	3.76)
RMS(	4.21).....	

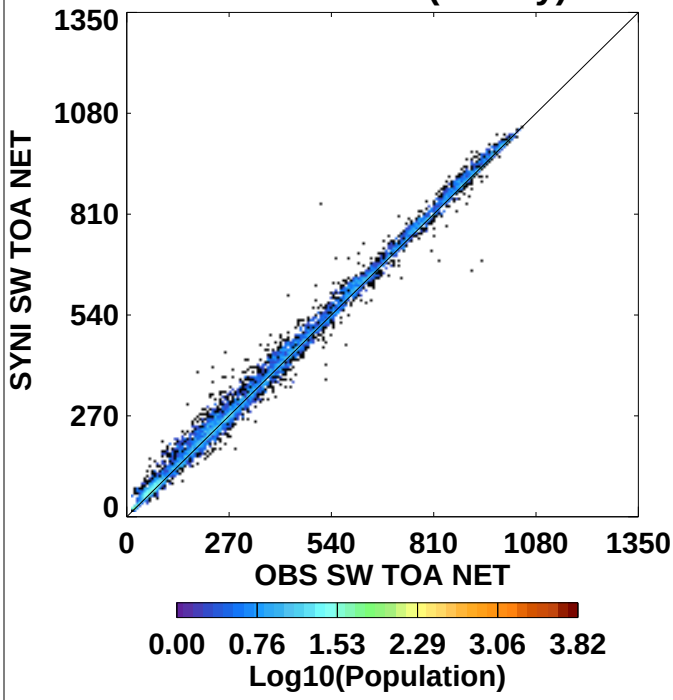
TOA LW NET(YEARLY)



N= 1.	Mean	(StdDev)
OBS LW TOA NET	-229.5(	-999.0)
SYNI LW TOA NET	-231.5(	-999.0)
Y-X	-2.08(	-999.0)
RMS(	-999.0).....	

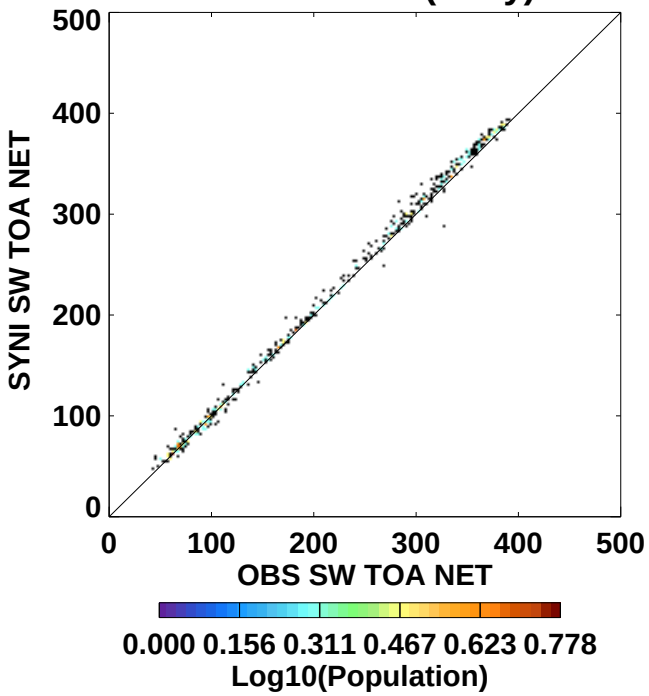
SYNI Beta4 FM1 2000:2005 /Jan,Apr,Jul,Oct: FM1 (STS validation subset)
SXF 43.730 263.380 Sioux Falls, SD

SW TOA NET(Hourly)



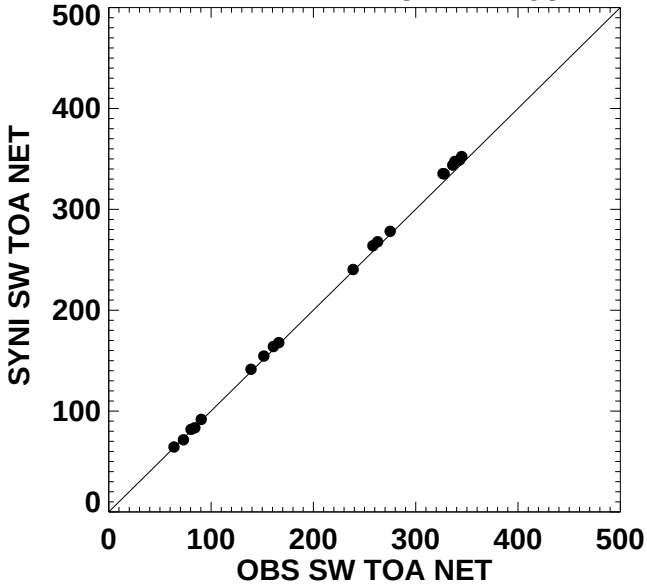
N= 13880.	Mean	(StdDev)
OBS SW TOA NET	214.2	(293.8)
SYNI SW TOA NET	218.1	(296.4)
Y-X	3.89	(15.62)
RMS(	16.09).....	

SW TOA NET(Daily)



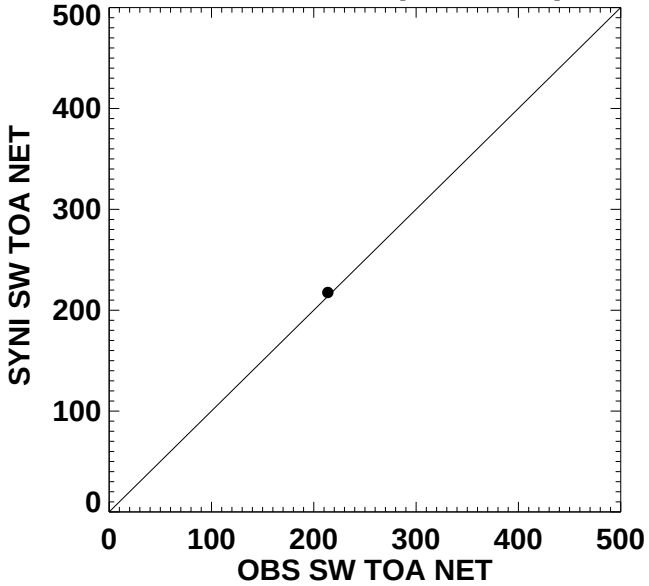
N= 579.	Mean	(StdDev)
OBS SW TOA NET	212.8	(112.5)
SYNI SW TOA NET	216.7	(114.7)
Y-X	3.87	(5.93)
RMS(	7.08).....	

SW TOA NET(Monthly)



N= 19.	Mean	(StdDev)
OBS SW TOA NET	213.7	(106.9)
SYNI SW TOA NET	217.6	(109.8)
Y-X	3.89	(3.22)
RMS(	5.00).....	

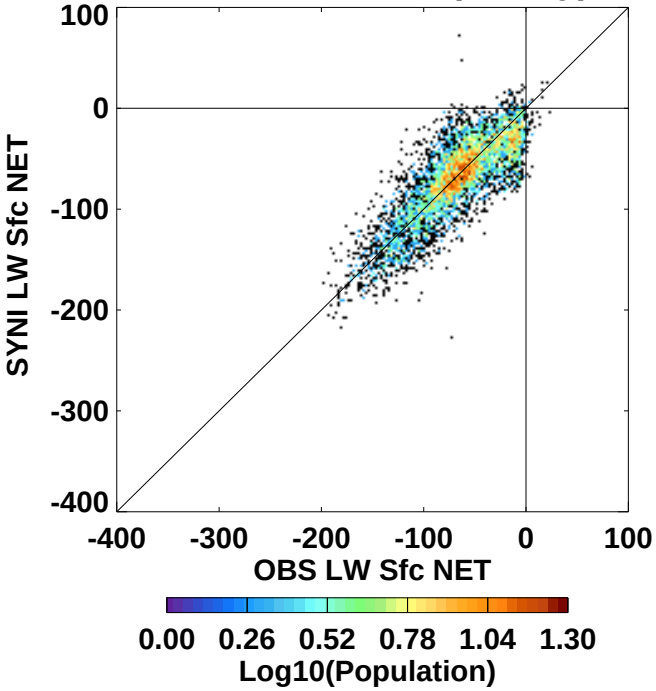
SW TOA NET(YEARLY)



N= 1.	Mean	(StdDev)
OBS SW TOA NET	213.7	(-999.0)
SYNI SW TOA NET	217.6	(-999.0)
Y-X	3.89	(-999.0)
RMS(	-999.0).....	

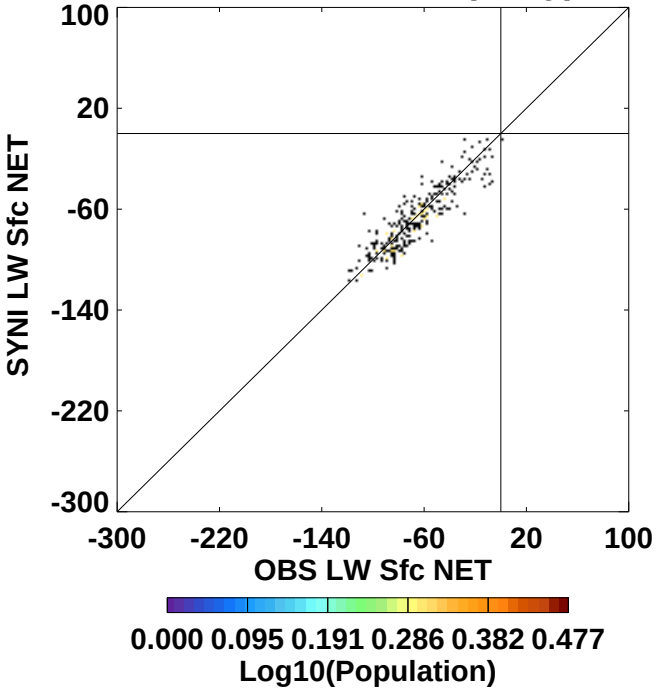
SYNI Beta4 FM1 2000:2005 /Jan,Apr,Jul,Oct: FM1 (STS validation subset)
SXF 43.730 263.380 Sioux Falls, SD

LW Surface NET(Hourly)



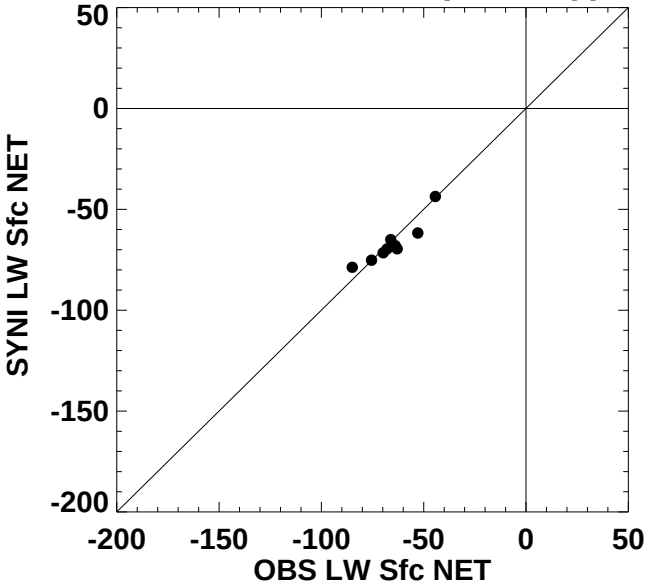
N= 6628.	Mean	(StdDev)
OBS LW Sfc NET	-65.28(	38.77)
SYNI LW Sfc NET	-67.00(	39.12)
Y-X	-1.72(	23.39)
RMS(	23.45).....	

LW Surface NET(Daily)



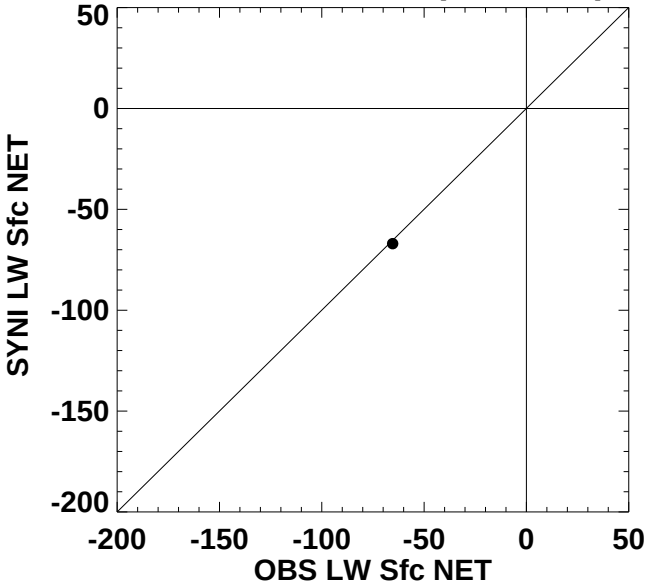
N= 273.	Mean	(StdDev)
OBS LW Sfc NET	-65.40(	25.75)
SYNI LW Sfc NET	-66.97(	24.81)
Y-X	-1.58(	11.58)
RMS(	11.67).....	

LW Surface NET(Monthly)



N= 9.	Mean	(StdDev)
OBS LW Sfc NET	-65.37(	11.82)
SYNI LW Sfc NET	-67.00(	10.11)
Y-X	-1.63(	4.48)
RMS(	4.52).....	

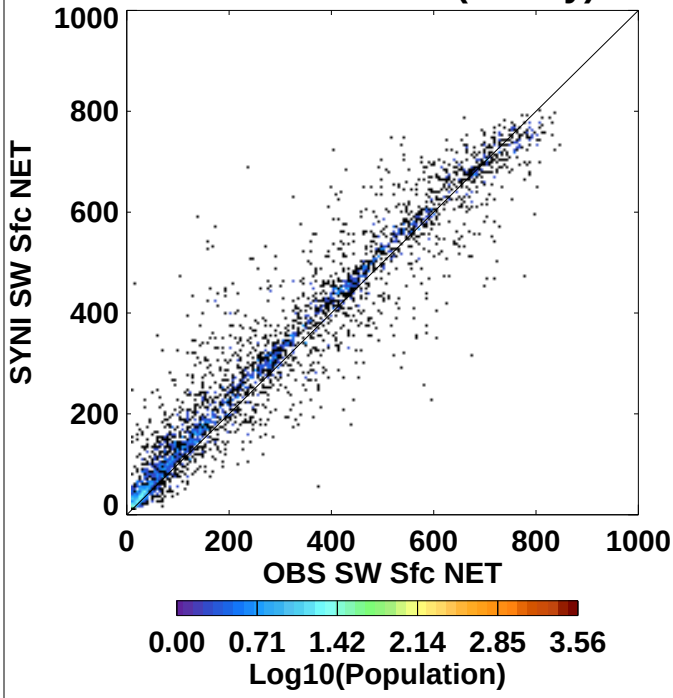
LW Surface NET(YEARLY)



N= 1.	Mean	(StdDev)
OBS LW Sfc NET	-65.37(	-999.0)
SYNI LW Sfc NET	-67.00(	-999.0)
Y-X	-1.63(	-999.0)
RMS(	-999.0).....	

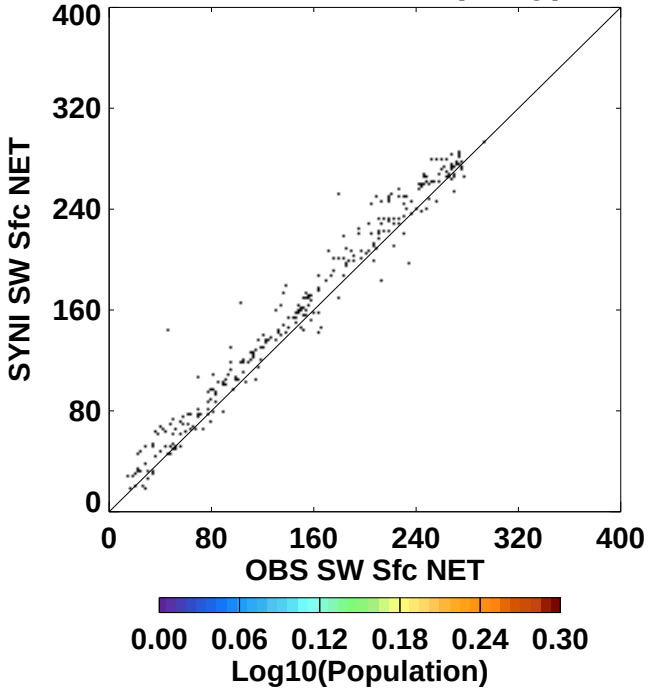
SYNI Beta4 FM1 2000:2005 /Jan,Apr,Jul,Oct: FM1 (STS validation subset)
SXF 43.730 263.380 Sioux Falls, SD

SW Surface NET(Hourly)



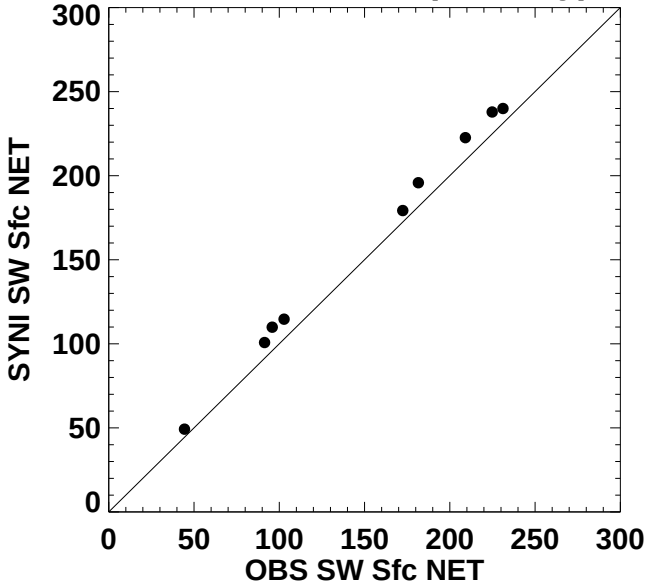
N= 7101.	Mean	(StdDev)
OBS SW Sfc NET	139.9(	215.9)
SYNI SW Sfc NET	149.9(	219.8)
Y-X	9.98(	45.43)
RMS(	46.51).....	

SW Surface NET(Daily)



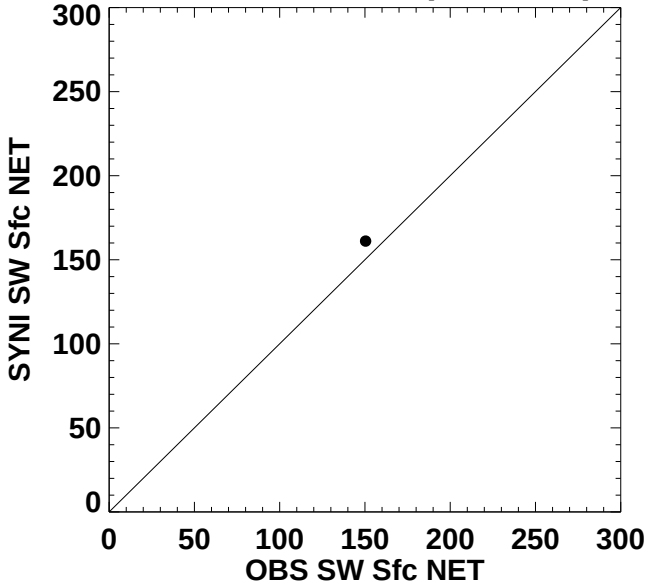
N= 274.	Mean	(StdDev)
OBS SW Sfc NET	150.4(	80.15)
SYNI SW Sfc NET	161.1(	80.07)
Y-X	10.75(	13.73)
RMS(	17.42).....	

SW Surface NET(Monthly)



N= 9.	Mean	(StdDev)
OBS SW Sfc NET	150.4(	67.94)
SYNI SW Sfc NET	161.1(	69.26)
Y-X	10.75(	3.42)
RMS(	11.23).....	

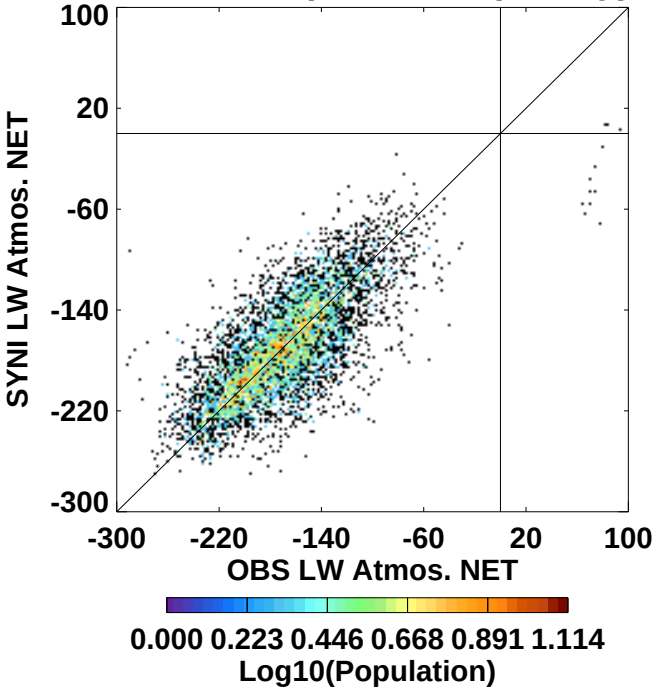
SW Surface NET(YEARLY)



N= 1.	Mean	(StdDev)
OBS SW Sfc NET	150.4(	-999.0)
SYNI SW Sfc NET	161.1(	-999.0)
Y-X	10.75(	-999.0)
RMS(	-999.0).....	

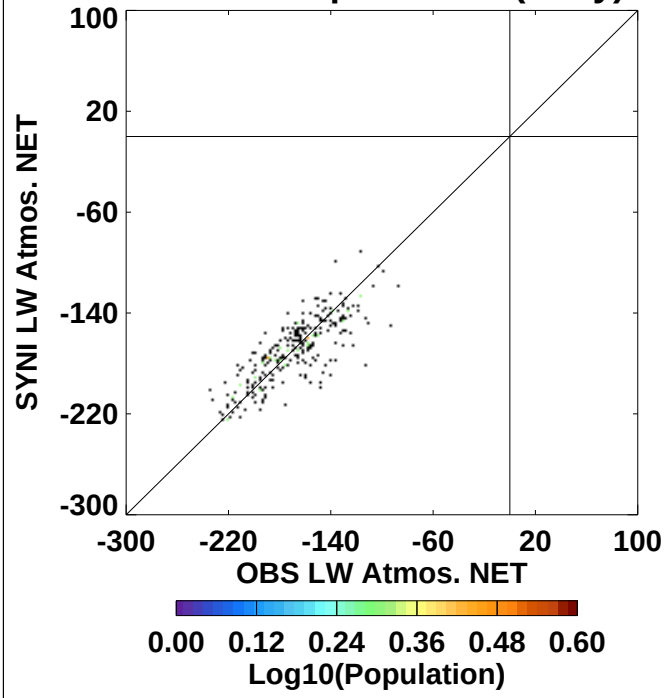
SYNI Beta4 FM1 2000:2005 /Jan,Apr,Jul,Oct: FM1 (STS validation subset)
SXF 43.730 263.380 Sioux Falls, SD

LW Atmosphere NET(Hourly)



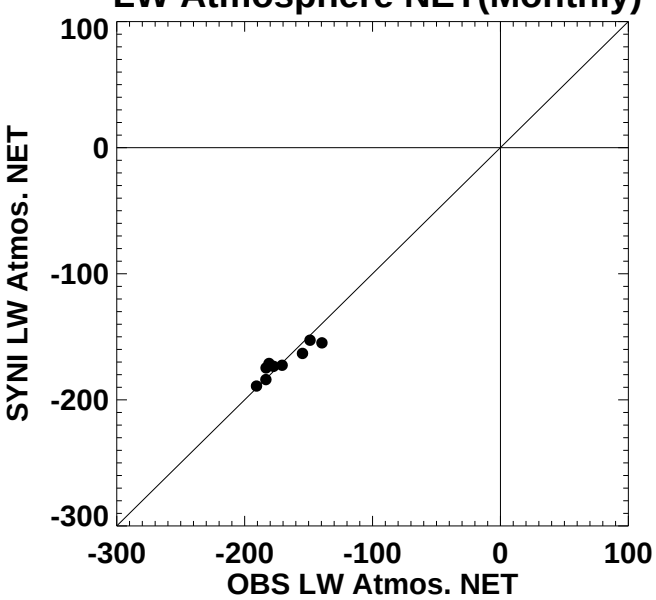
N= 6623.	Mean	(StdDev)
OBS LW Atmos. NET	-170.3(	41.07)
SYNI LW Atmos. NET	-170.6(	40.41)
Y-X	-0.365(	29.39)
RMS(	29.39).....	

LW Atmosphere NET(Daily)



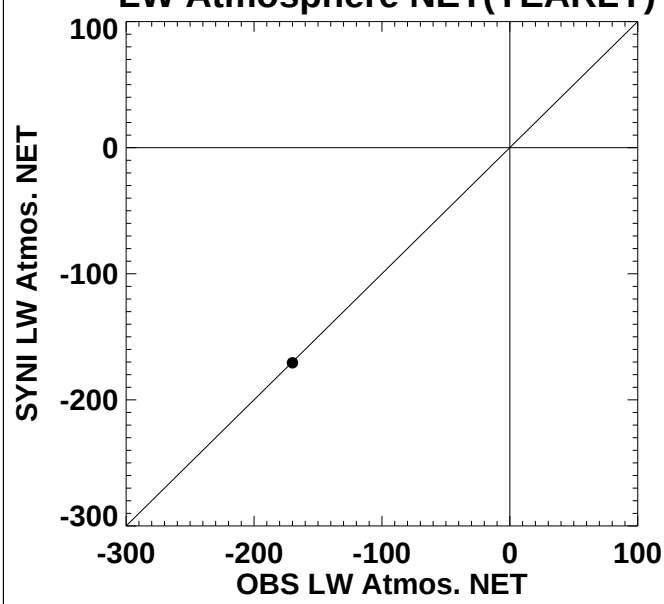
N= 273.	Mean	(StdDev)
OBS LW Atmos. NET	-170.0(	29.40)
SYNI LW Atmos. NET	-170.7(	25.80)
Y-X	-0.674(	17.21)
RMS(	17.19).....	

LW Atmosphere NET(Monthly)



N= 9.	Mean	(StdDev)
OBS LW Atmos. NET	-170.0(	17.90)
SYNI LW Atmos. NET	-170.6(	12.10)
Y-X	-0.612(	7.95)
RMS(	7.52).....	

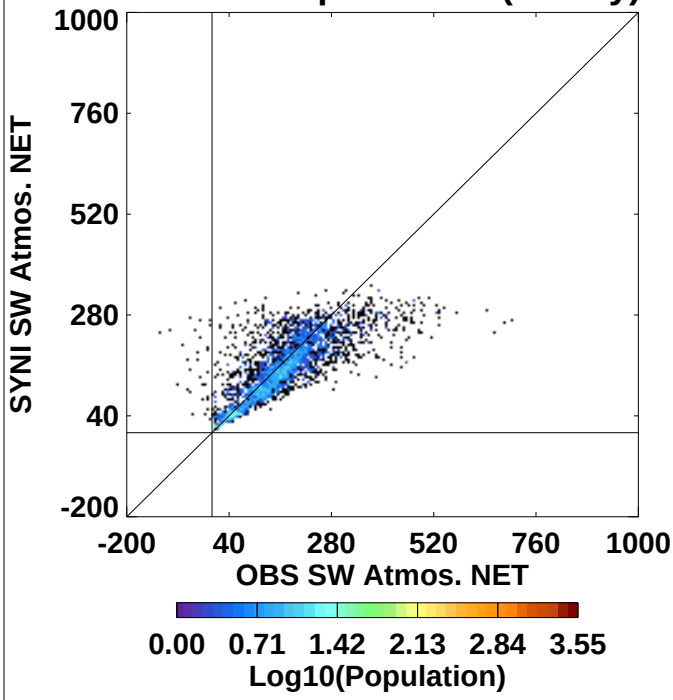
LW Atmosphere NET(YEARLY)



N= 1.	Mean	(StdDev)
OBS LW Atmos. NET	-170.0(	-999.0)
SYNI LW Atmos. NET	-170.6(	-999.0)
Y-X	-0.612(	-999.0)
RMS(	-999.0).....	

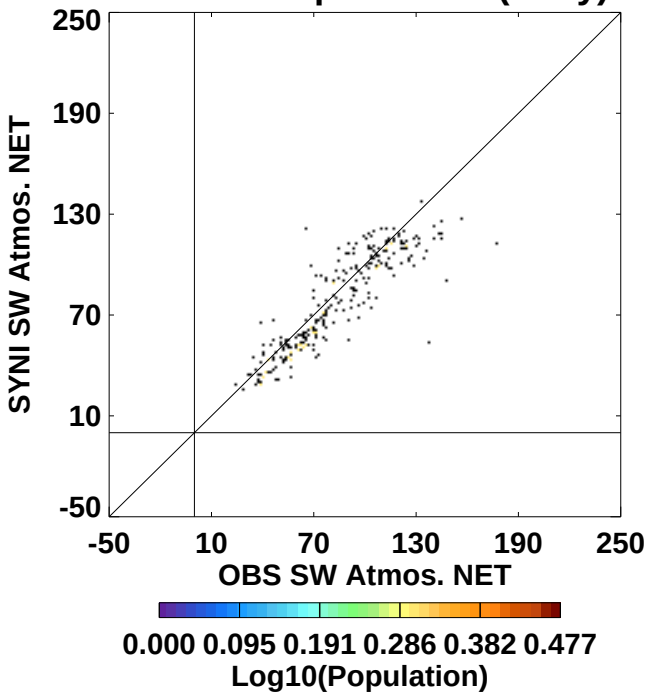
SYNI Beta4 FM1 2000:2005 /Jan,Apr,Jul,Oct: FM1 (STS validation subset)
SXF 43.730 263.380 Sioux Falls, SD

SW Atmosphere NET(Hourly)



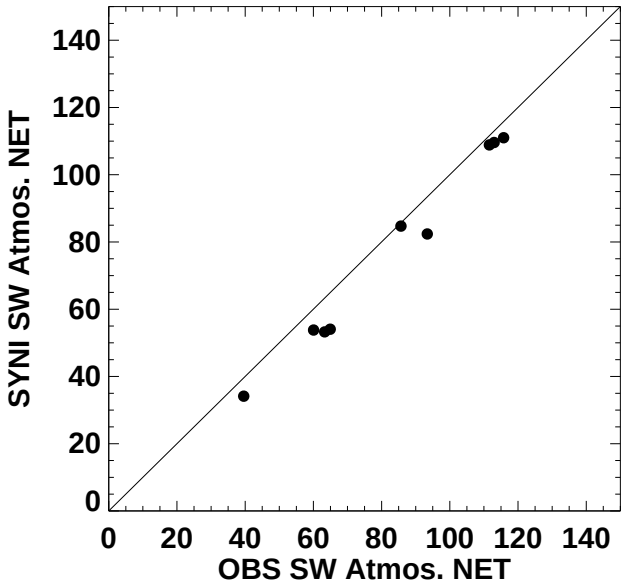
N= 7101.	Mean	(StdDev)
OBS SW Atmos. NET	77.30(	104.6)
SYNI SW Atmos. NET	71.60(	89.73)
Y-X	-5.70(	44.65)
RMS(	45.01).....	

SW Atmosphere NET(Daily)



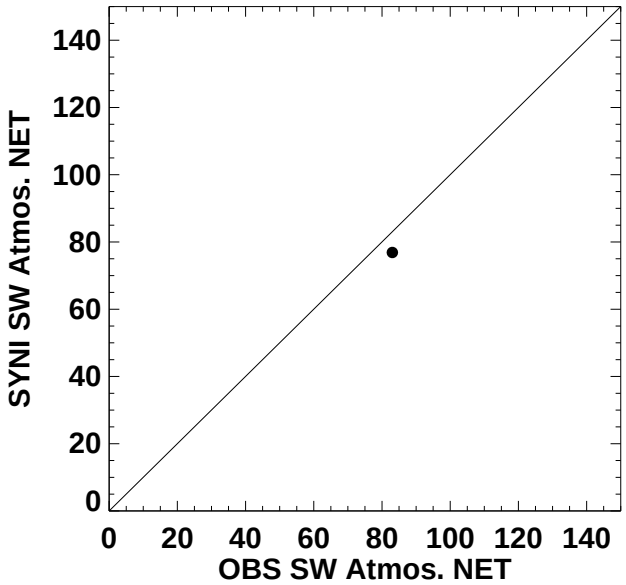
N= 274.	Mean	(StdDev)
OBS SW Atmos. NET	83.02(	30.13)
SYNI SW Atmos. NET	76.87(	28.98)
Y-X	-6.15(	13.88)
RMS(	15.16).....	

SW Atmosphere NET(Monthly)



N= 9.	Mean	(StdDev)
OBS SW Atmos. NET	83.03(	27.46)
SYNI SW Atmos. NET	76.87(	29.13)
Y-X	-6.16(	3.70)
RMS(	7.08).....	

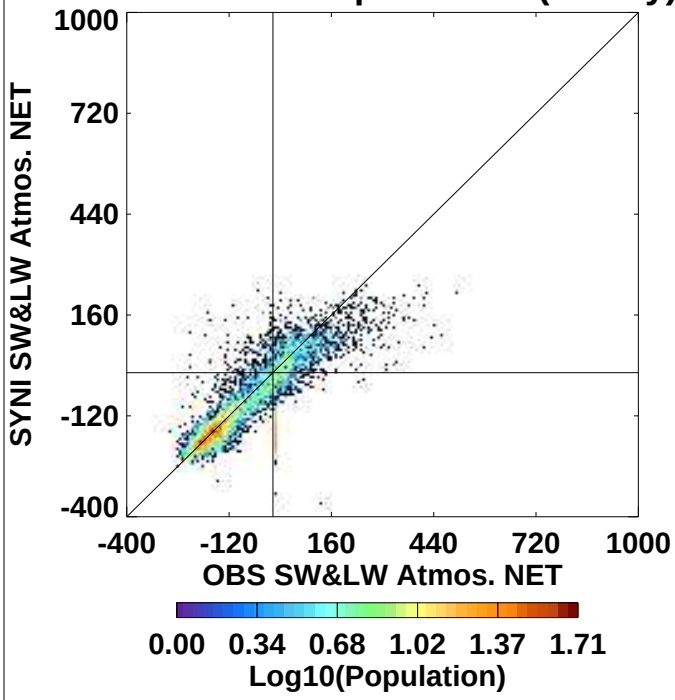
SW Atmosphere NET(YEARLY)



N= 1.	Mean	(StdDev)
OBS SW Atmos. NET	83.03(	-999.0)
SYNI SW Atmos. NET	76.87(	-999.0)
Y-X	-6.16(	-999.0)
RMS(	-999.0).....	

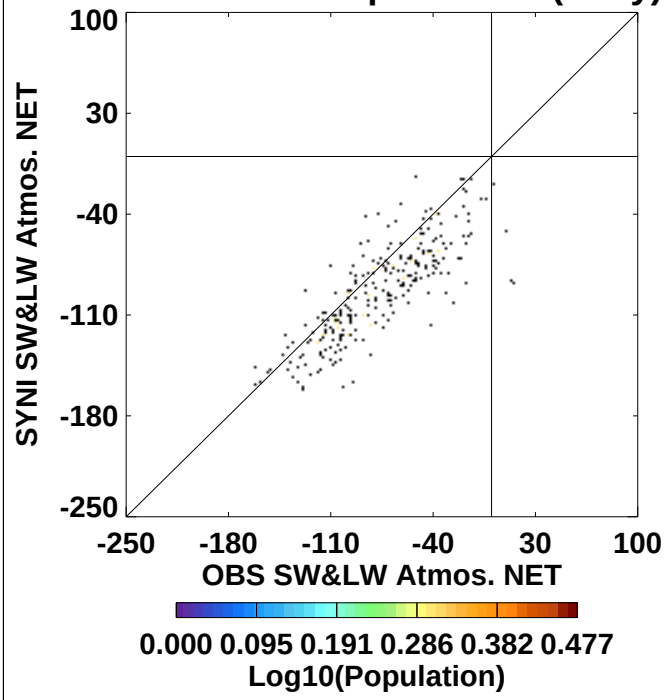
SYNI Beta4 FM1 2000:2005 /Jan,Apr,Jul,Oct: FM1 (STS validation subset)
SXF 43.730 263.380 Sioux Falls, SD

SW&LW Atmosphere NET(Hourly)



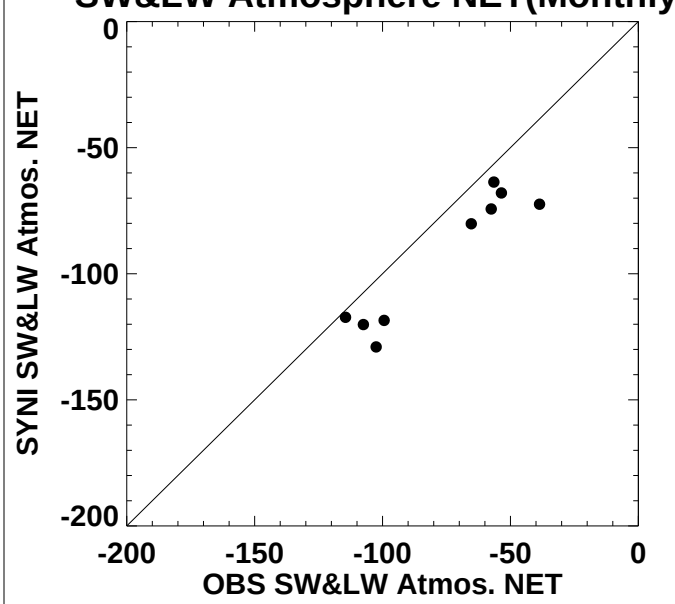
N= 6629.	Mean	(StdDev)
OBS SW&LW Atmos. NET	-77.69	(117.4)
SYNI SW&LW Atmos. NET	-93.97	(108.4)
Y-X	-16.29	(62.76)
RMS(	64.83).....	

SW&LW Atmosphere NET(Daily)



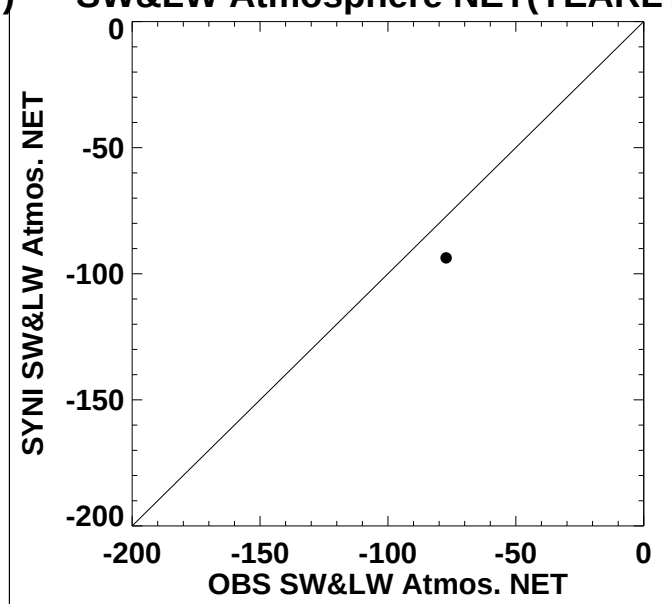
N= 273.	Mean	(StdDev)
OBS SW&LW Atmos. NET	-77.19	(36.06)
SYNI SW&LW Atmos. NET	-93.72	(33.48)
Y-X	-16.53	(20.97)
RMS(	26.67).....	

SW&LW Atmosphere NET(Monthly)



N= 9.	Mean	(StdDev)
OBS SW&LW Atmos. NET	-77.27	(28.39)
SYNI SW&LW Atmos. NET	-93.70	(26.68)
Y-X	-16.44	(9.38)
RMS(	18.67).....	

SW&LW Atmosphere NET(YEARLY)



N= 1.	Mean	(StdDev)
OBS SW&LW Atmos. NET	-77.27	(-999.0)
SYNI SW&LW Atmos. NET	-93.70	(-999.0)
Y-X	-16.44	(-999.0)
RMS(	-999.0).....	