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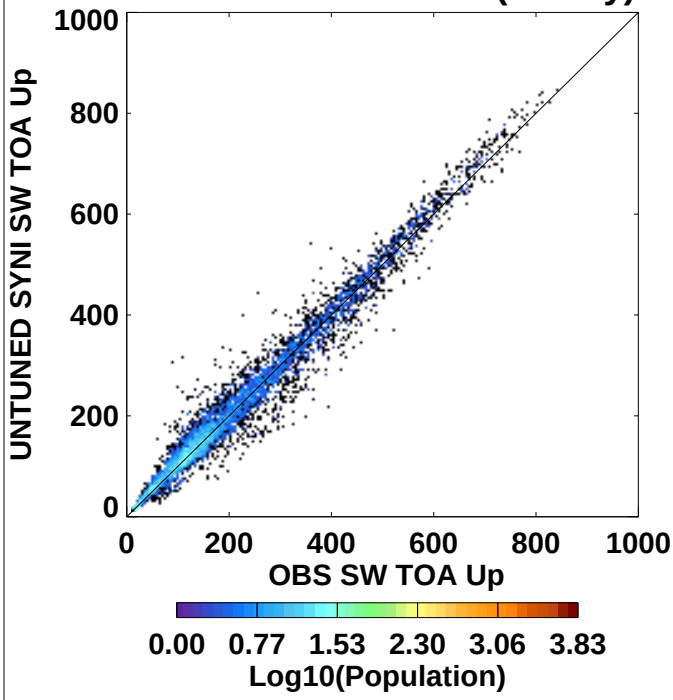
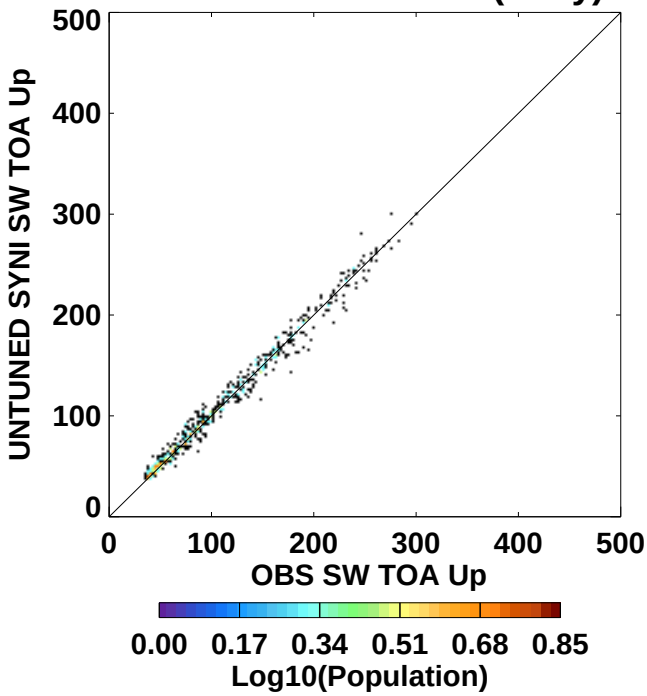
Untuned TOA SW UP(Hourly)



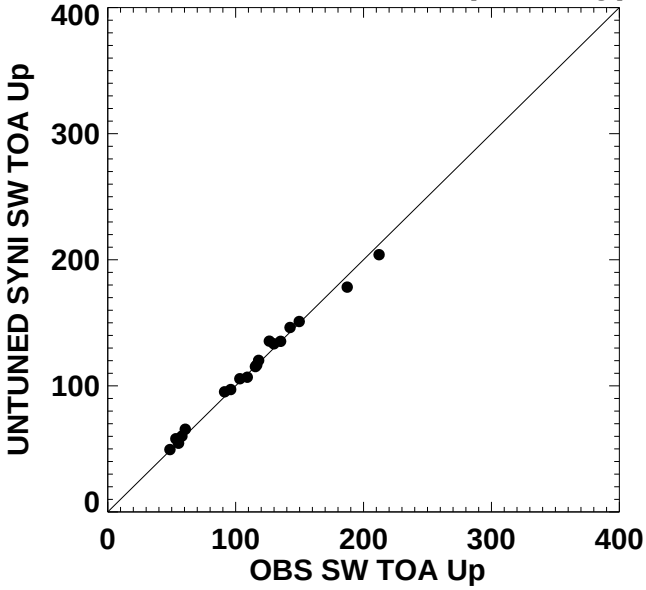
N= 14037.	Mean	(StdDev)
OBS SW TOA Up	110.8	(158.4)
UNTUNED SYNI SW TOA Up	112.0	(159.5)
Y-X	1.22	(19.46)
RMS(	19.49).....	

Untuned TOA SW UP(Daily)



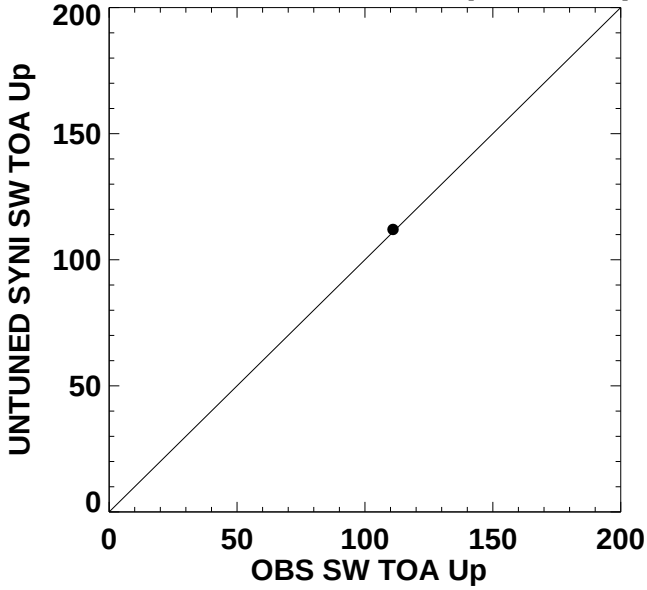
N= 582.	Mean	(StdDev)
OBS SW TOA Up	110.8	(63.14)
UNTUNED SYNI SW TOA Up	112.0	(62.24)
Y-X	1.20	(7.72)
RMS(	7.80).....	

Untuned TOA SW UP(Monthly)



N= 19.	Mean	(StdDev)
OBS SW TOA Up	111.0	(44.81)
UNTUNED SYNI SW TOA Up	112.0	(42.66)
Y-X	1.07	(4.22)
RMS(	4.25).....	

Untuned TOA SW UP(YEARLY)



N= 1.	Mean	(StdDev)
OBS SW TOA Up	111.0	(-999.0)
UNTUNED SYNI SW TOA Up	112.0	(-999.0)
Y-X	1.07	(-999.0)
RMS(	-999.0).....	

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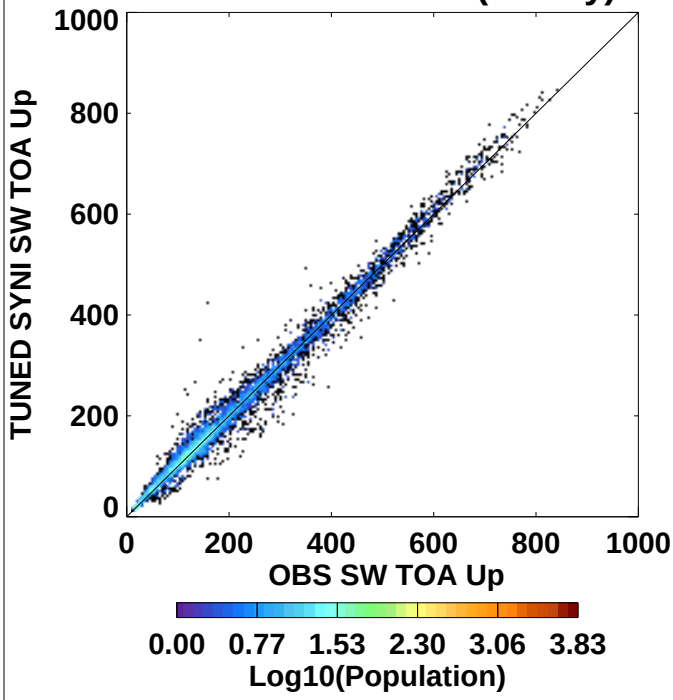
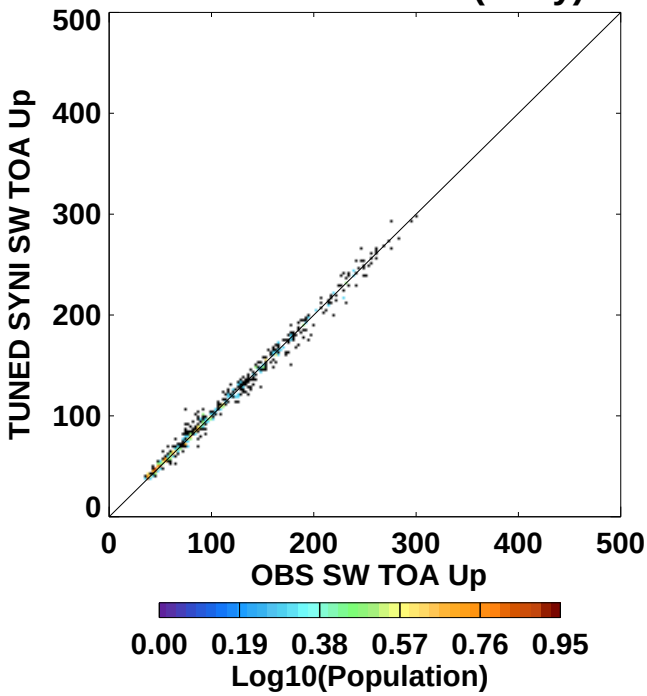
Tuned TOA SW UP(Hourly)



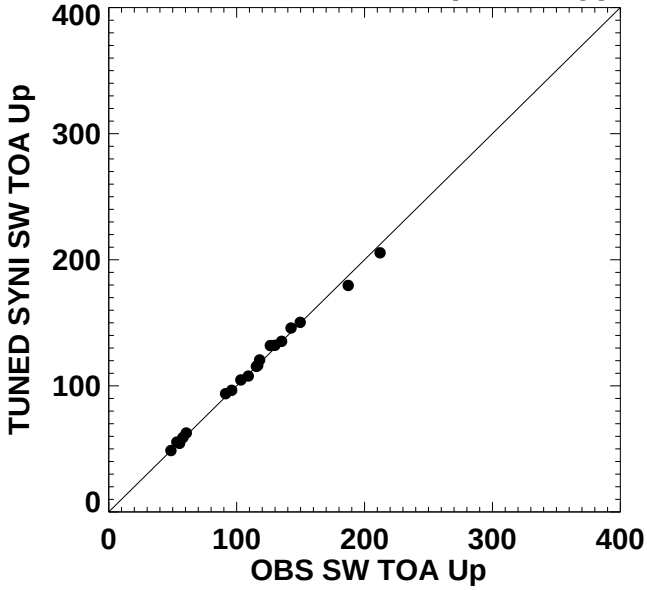
N= 14038.	Mean	(StdDev)
OBS SW TOA Up	110.8	(158.5)
TUNED SYNI SW TOA Up	111.3	(158.7)
Y-X	0.472	(13.83)
RMS(	13.84).....	

Tuned TOA SW UP(Daily)



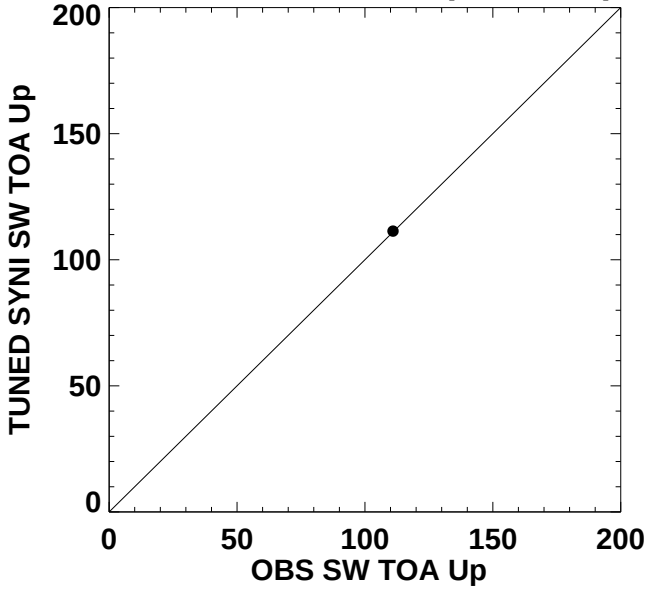
N= 583.	Mean	(StdDev)
OBS SW TOA Up	110.8	(63.09)
TUNED SYNI SW TOA Up	111.2	(62.38)
Y-X	0.459	(5.60)
RMS(	5.61).....	

Tuned TOA SW UP(Monthly)



N= 19.	Mean	(StdDev)
OBS SW TOA Up	111.0	(44.81)
TUNED SYNI SW TOA Up	111.4	(43.34)
Y-X	0.412	(3.11)
RMS(	3.05).....	

Tuned TOA SW UP(YEARLY)



N= 1.	Mean	(StdDev)
OBS SW TOA Up	111.0	(-999.0)
TUNED SYNI SW TOA Up	111.4	(-999.0)
Y-X	0.412	(-999.0)
RMS(	-999.0).....	

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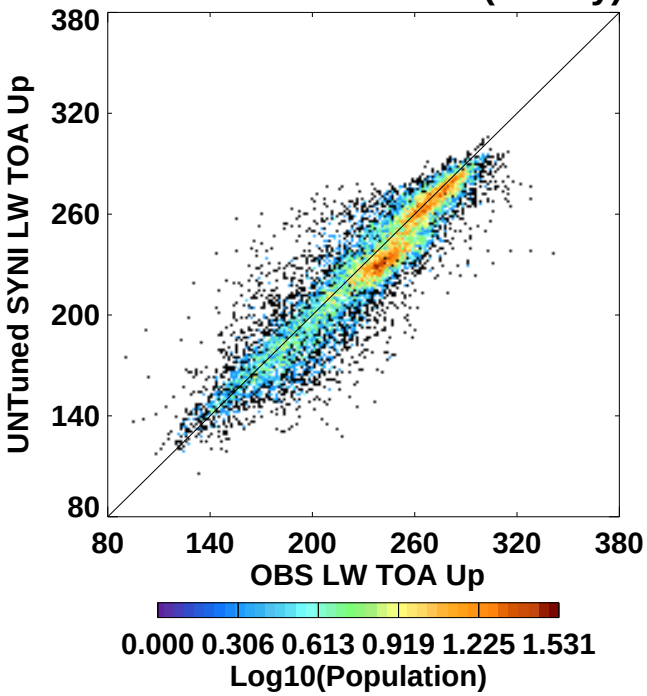
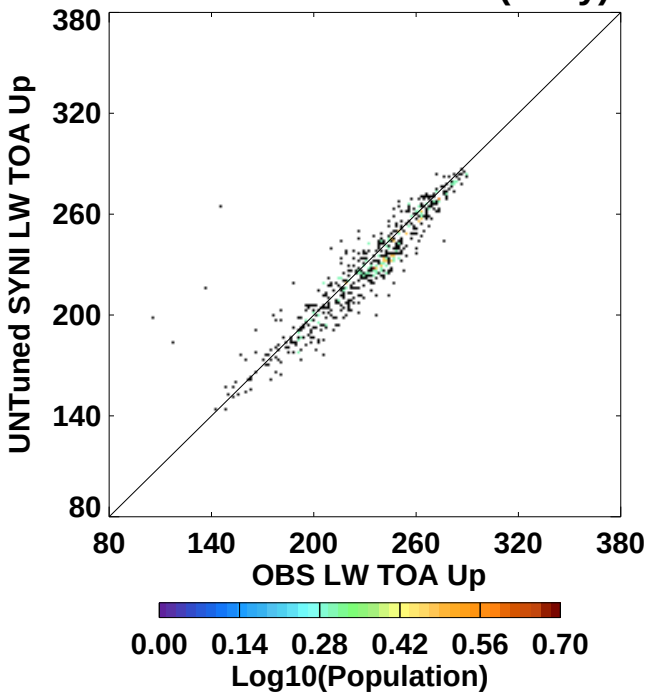
UNTuned TOA LW UP(Hourly)



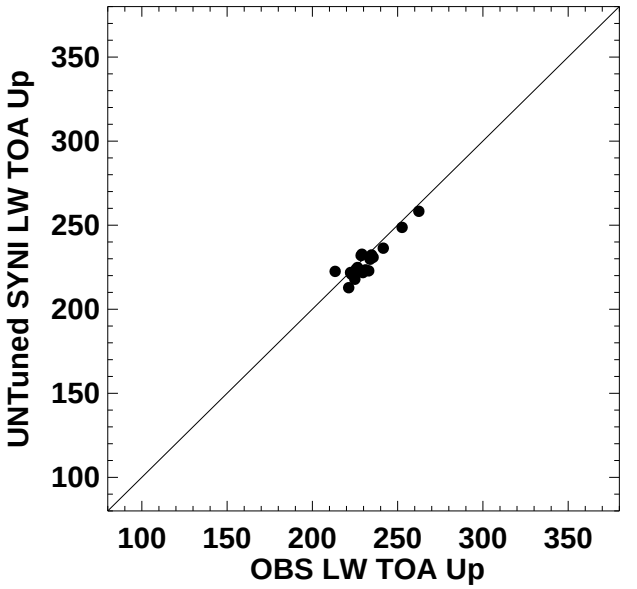
N= 13988.	Mean	(StdDev)
OBS LW TOA Up	232.3(	38.97)
UNTuned SYNI LW TOA Up	228.3(	38.58)
Y-X	-4.04(	15.10)
RMS(	15.63).....	

UNTuned TOA LW UP(Daily)



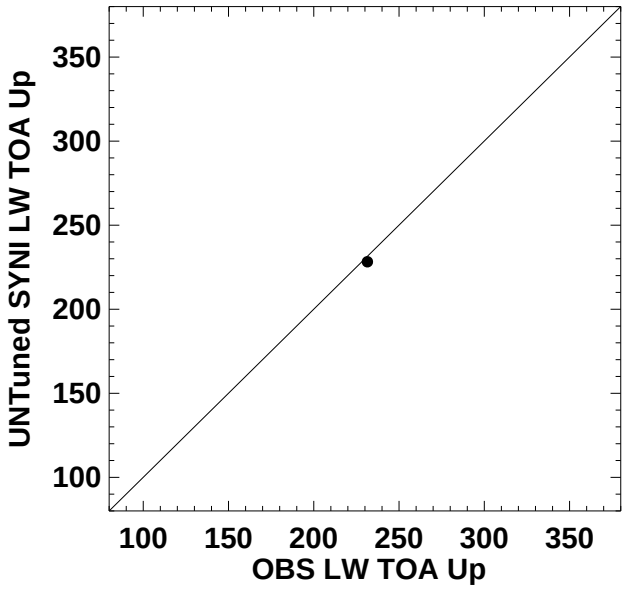
N= 582.	Mean	(StdDev)
OBS LW TOA Up	231.5(	31.80)
UNTuned SYNI LW TOA Up	228.3(	30.57)
Y-X	-3.24(	12.17)
RMS(	12.58).....	

UNTuned TOA LW UP(Monthly)



N= 19.	Mean	(StdDev)
OBS LW TOA Up	231.4(	11.21)
UNTuned SYNI LW TOA Up	228.2(	10.73)
Y-X	-3.21(	4.74)
RMS(	5.62).....	

UNTuned TOA LW UP(YEARLY)



N= 1.	Mean	(StdDev)
OBS LW TOA Up	231.4(	-999.0)
UNTuned SYNI LW TOA Up	228.2(	-999.0)
Y-X	-3.21(	-999.0)
RMS(	-999.0).....	

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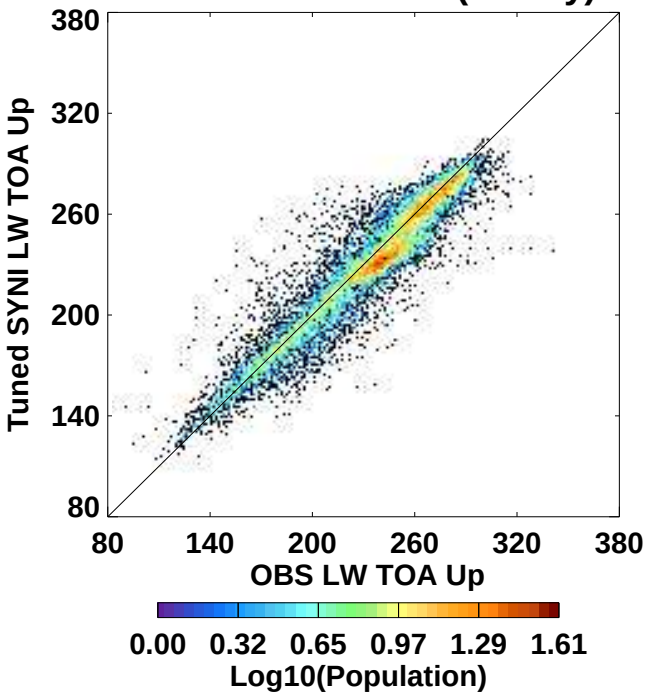
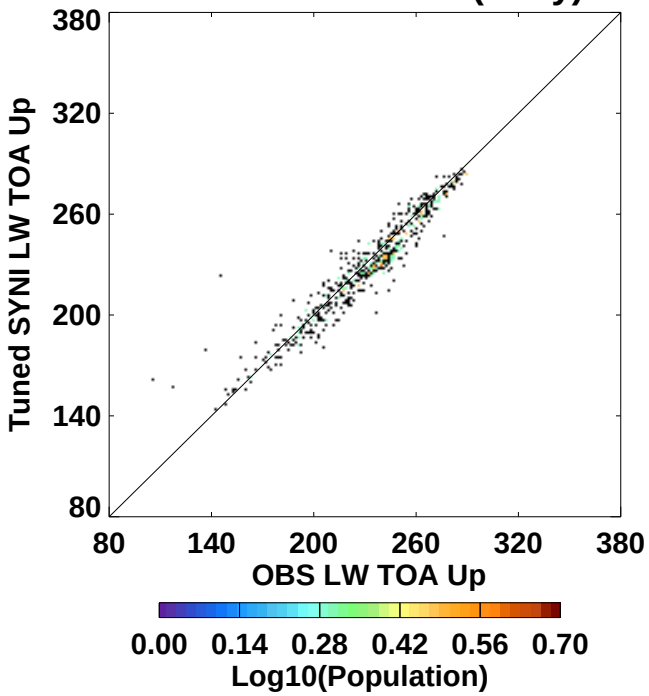
Tuned TOA LW UP(Hourly)



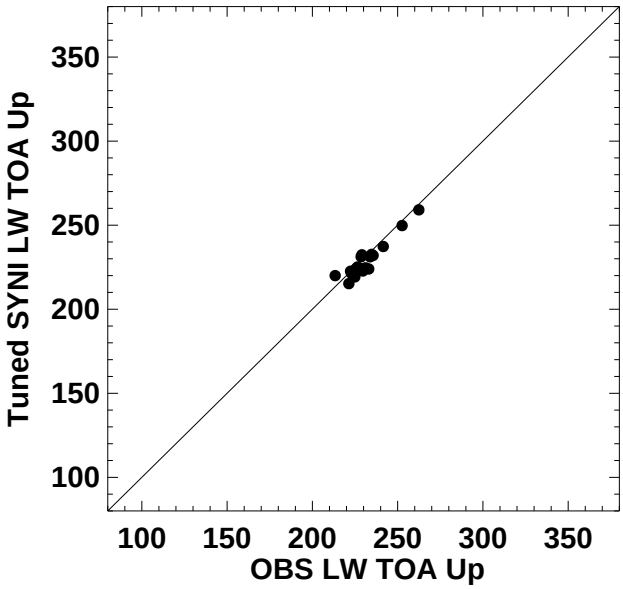
N= 13989.	Mean	(StdDev)
OBS LW TOA Up	232.3(	38.96)
Tuned SYNI LW TOA Up	229.2(	37.86)
Y-X	-3.11(	12.80)
RMS(	13.17).....	

Tuned TOA LW UP(Daily)



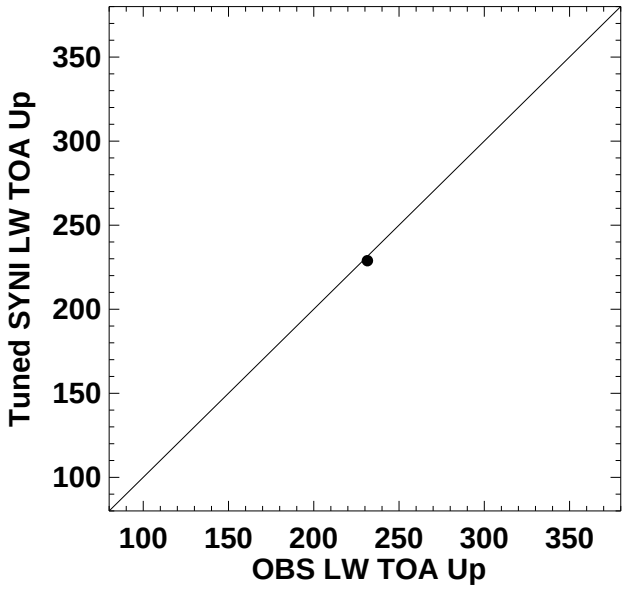
N= 583.	Mean	(StdDev)
OBS LW TOA Up	231.5(	31.77)
Tuned SYNI LW TOA Up	228.9(	30.29)
Y-X	-2.60(	9.20)
RMS(	9.55).....	

Tuned TOA LW UP(Monthly)



N= 19.	Mean	(StdDev)
OBS LW TOA Up	231.4(	11.20)
Tuned SYNI LW TOA Up	228.9(	10.71)
Y-X	-2.57(	3.84)
RMS(	4.53).....	

Tuned TOA LW UP(YEARLY)



N= 1.	Mean	(StdDev)
OBS LW TOA Up	231.4(	-999.0)
Tuned SYNI LW TOA Up	228.9(	-999.0)
Y-X	-2.57(	-999.0)
RMS(	-999.0).....	

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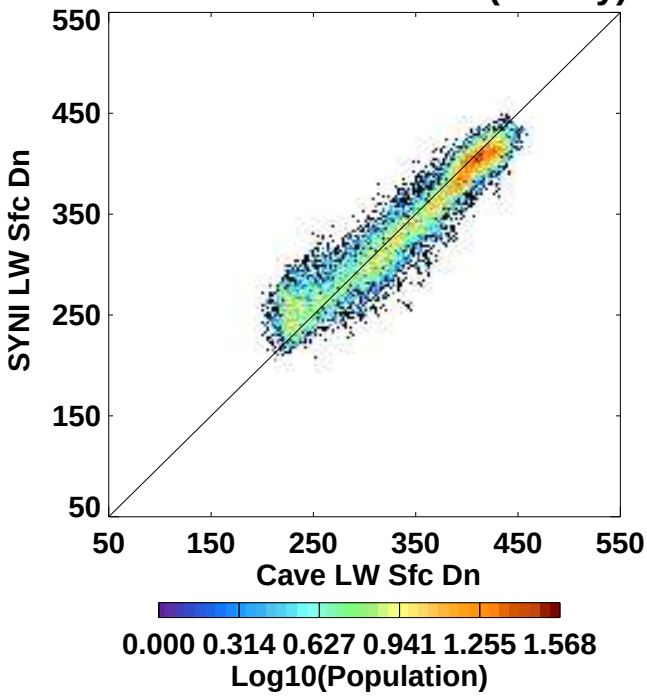
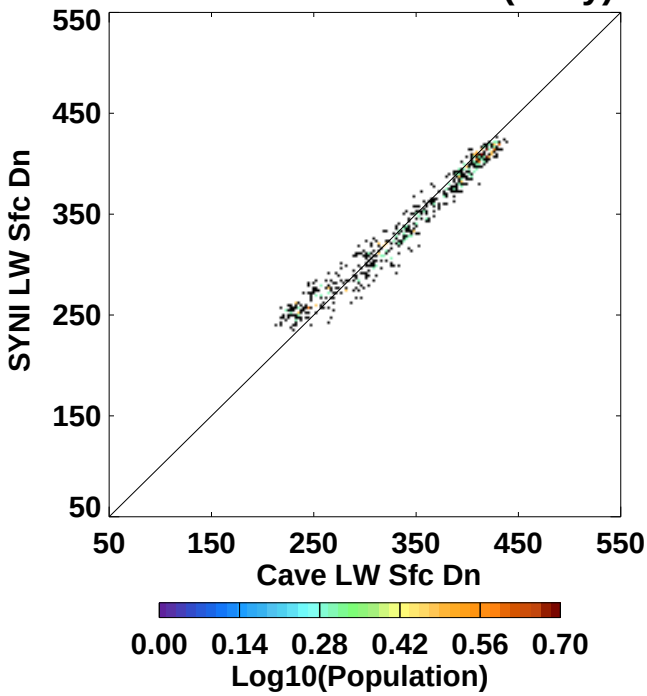
Tuned SFC LW DOWN(Hourly)



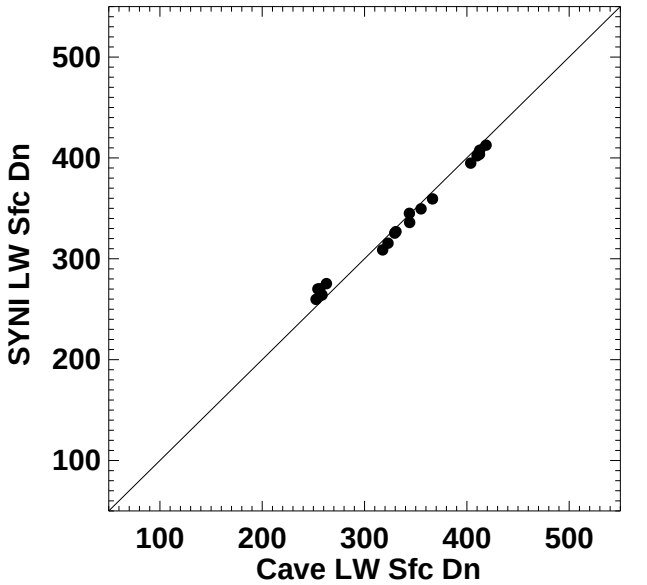
N= 13888.	Mean	(StdDev)
Cave LW Sfc Dn	340.5(	68.21)
SYNI LW Sfc Dn	338.9(	59.91)
Y-X	-1.60(	21.01)
RMS(	21.07).....	

Tuned SFC LW DOWN(Daily)



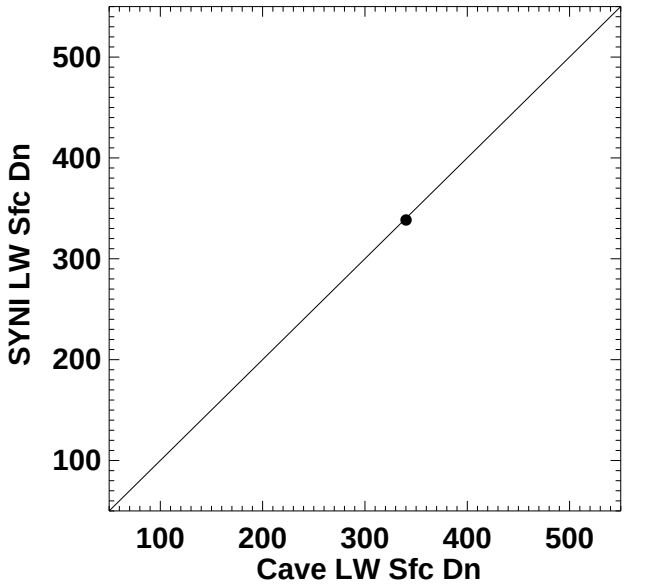
N= 575.	Mean	(StdDev)
Cave LW Sfc Dn	340.7(	65.65)
SYNI LW Sfc Dn	339.0(	57.87)
Y-X	-1.64(	13.91)
RMS(	14.00).....	

Tuned SFC LW DOWN(Monthly)



N= 19.	Mean	(StdDev)
Cave LW Sfc Dn	340.2(	61.13)
SYNI LW Sfc Dn	338.5(	54.46)
Y-X	-1.70(	8.42)
RMS(	8.37).....	

Tuned SFC LW DOWN(YEARLY)



N= 1.	Mean	(StdDev)
Cave LW Sfc Dn	340.2(	-999.0)
SYNI LW Sfc Dn	338.5(	-999.0)
Y-X	-1.70(	-999.0)
RMS(	-999.0).....	

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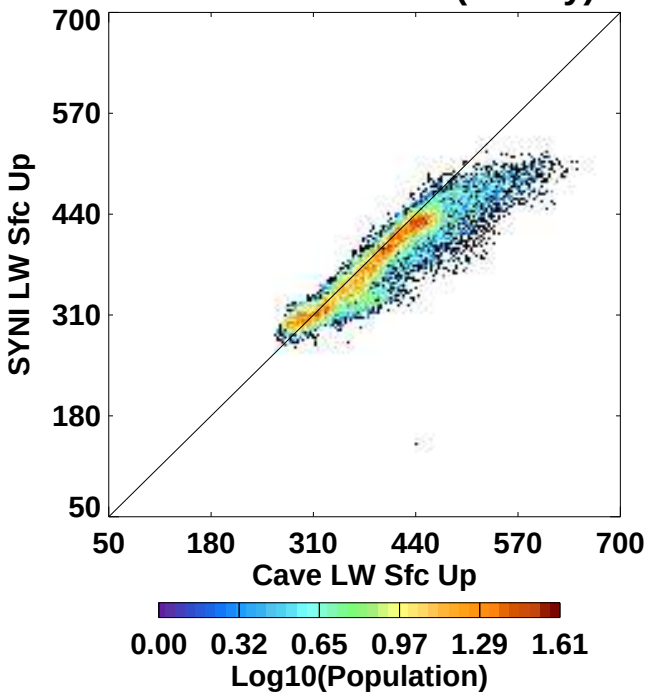
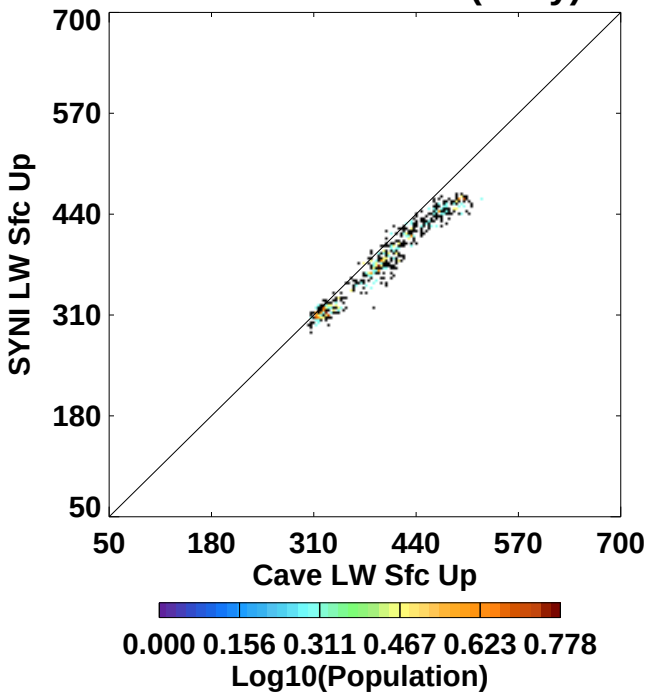
Tuned SFC LW UP(Hourly)



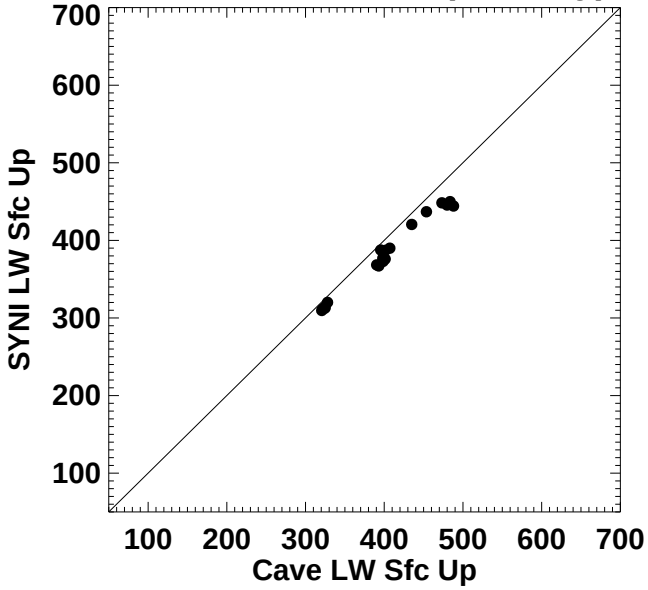
N= 14023.	Mean	(StdDev)
Cave LW Sfc Up	401.0(	70.65)
SYNI LW Sfc Up	381.1(	55.09)
Y-X	-19.90(	29.04)
RMS(	35.20).....	

Tuned SFC LW UP(Daily)



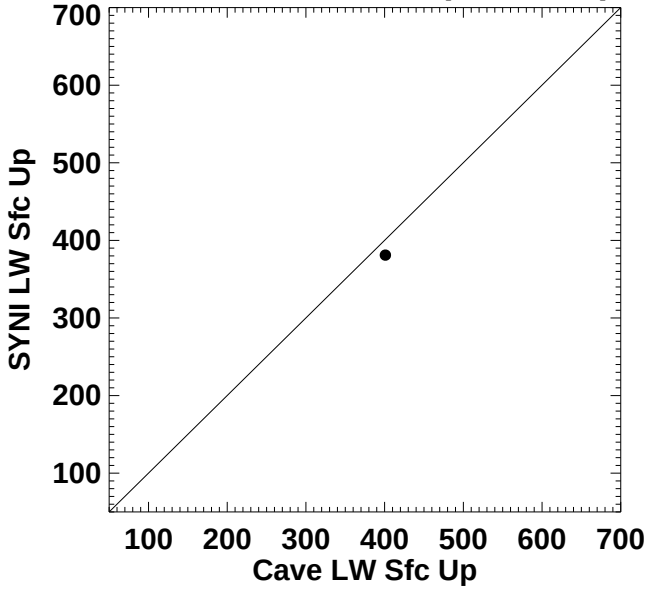
N= 581.	Mean	(StdDev)
Cave LW Sfc Up	401.2(	58.81)
SYNI LW Sfc Up	381.3(	51.29)
Y-X	-19.93(	14.23)
RMS(	24.48).....	

Tuned SFC LW UP(Monthly)



N= 19.	Mean	(StdDev)
Cave LW Sfc Up	401.0(	57.60)
SYNI LW Sfc Up	381.0(	50.34)
Y-X	-19.93(	9.92)
RMS(	22.14).....	

Tuned SFC LW UP(YEARLY)



N= 1.	Mean	(StdDev)
Cave LW Sfc Up	401.0(	-999.0)
SYNI LW Sfc Up	381.0(	-999.0)
Y-X	-19.93(	-999.0)
RMS(	-999.0).....	

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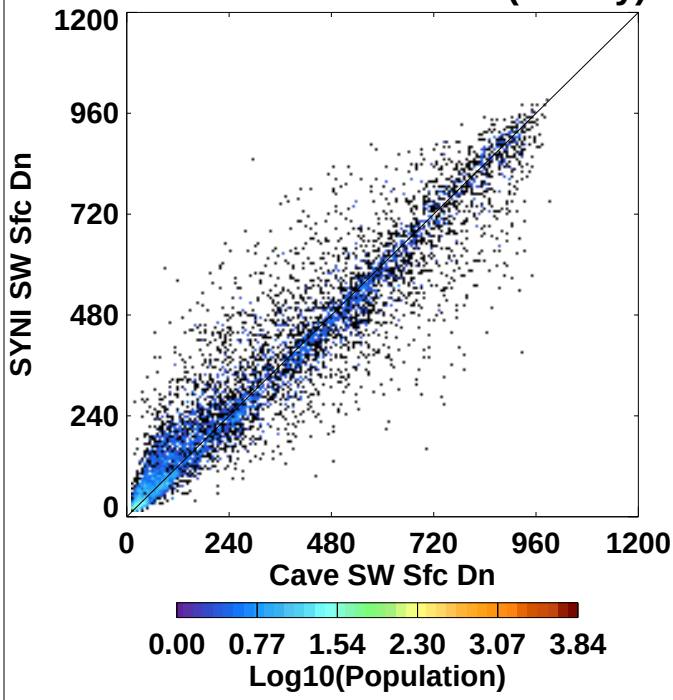
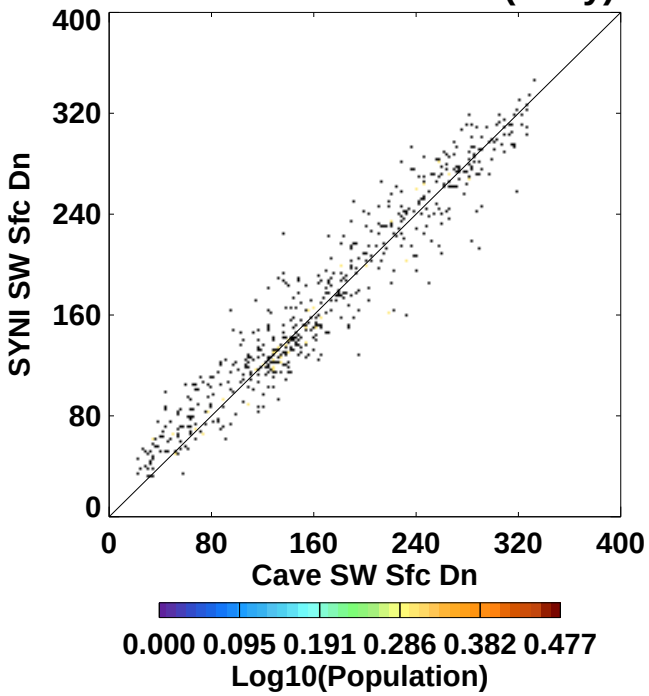
Tuned SFC SW DOWN(Hourly)



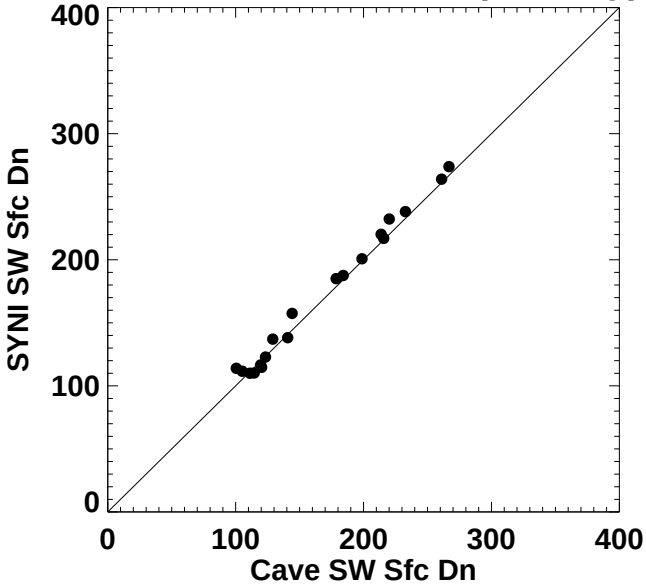
N= 14033.	Mean	(StdDev)
Cave SW Sfc Dn	167.0(	252.0)
SYNI SW Sfc Dn	170.7(	248.2)
Y-X	3.77(	61.73)
RMS(	61.84).....	

Tuned SFC SW DOWN(Daily)



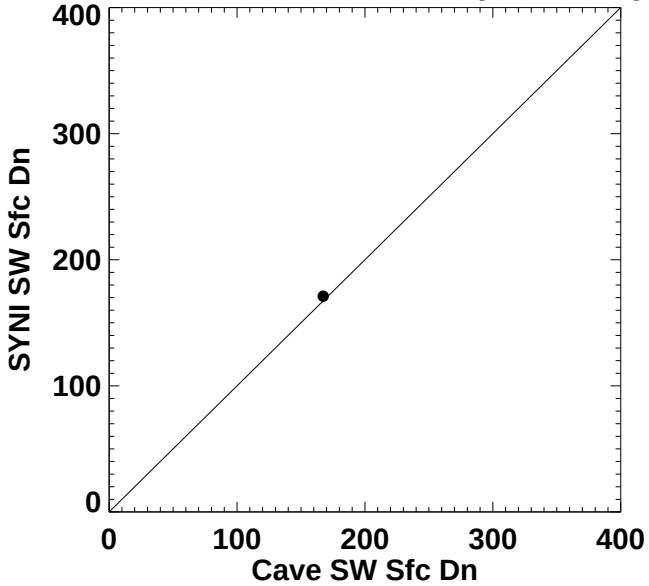
N= 582.	Mean	(StdDev)
Cave SW Sfc Dn	167.3(	80.47)
SYNI SW Sfc Dn	171.1(	77.94)
Y-X	3.77(	21.88)
RMS(	22.18).....	

Tuned SFC SW DOWN(Monthly)



N= 19.	Mean	(StdDev)
Cave SW Sfc Dn	167.4(	55.30)
SYNI SW Sfc Dn	171.1(	56.99)
Y-X	3.78(	5.77)
RMS(	6.77).....	

Tuned SFC SW DOWN(YEARLY)



N= 1.	Mean	(StdDev)
Cave SW Sfc Dn	167.4(	-999.0)
SYNI SW Sfc Dn	171.1(	-999.0)
Y-X	3.78(	-999.0)
RMS(	-999.0).....	

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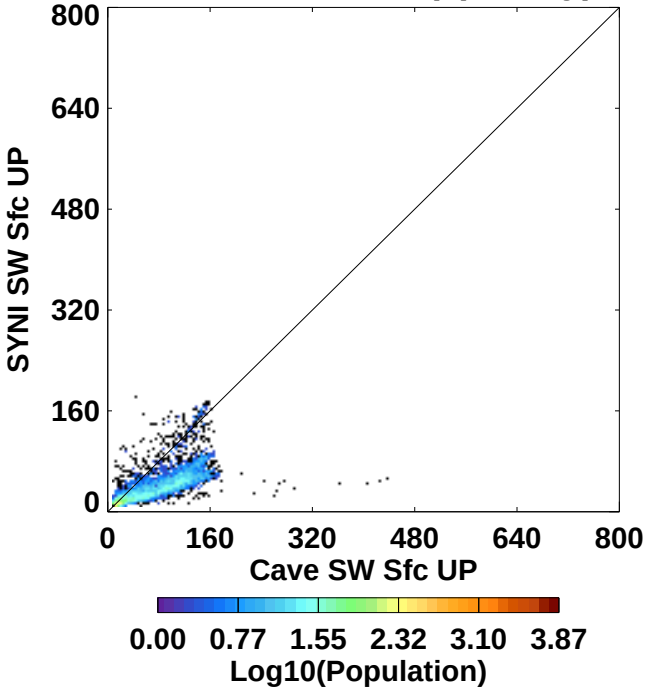
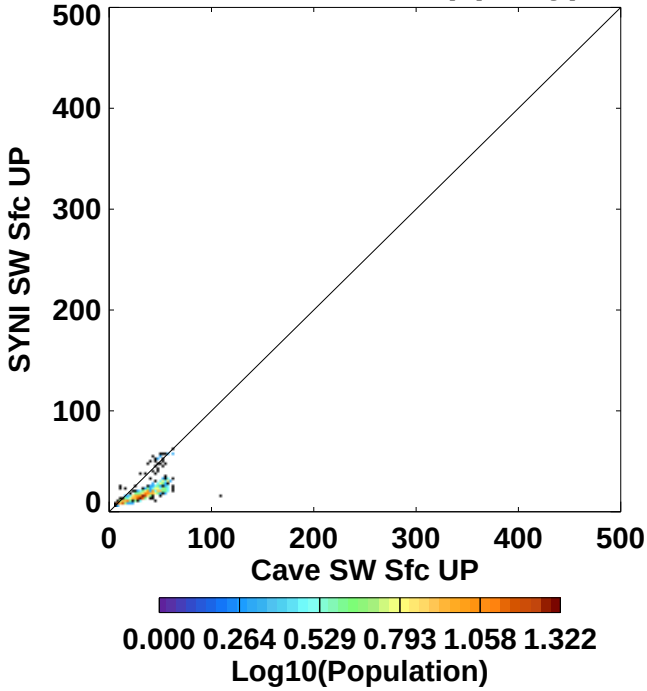
Tuned SFC SW Up(Hourly)



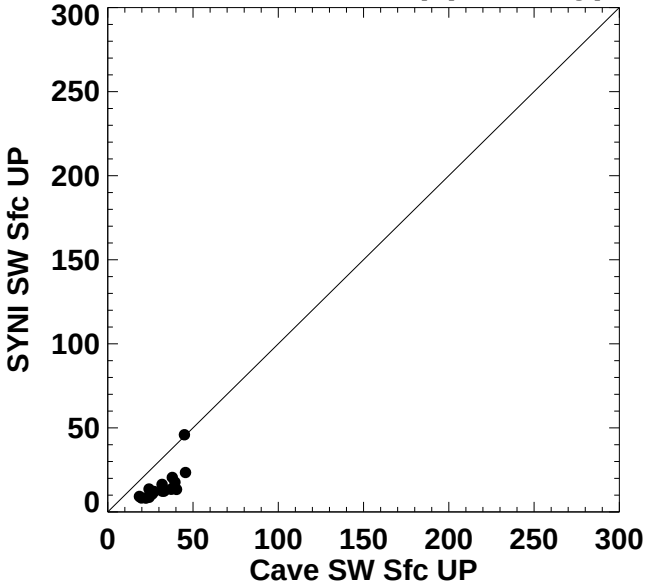
N= 14038.	Mean	(StdDev)
Cave SW Sfc UP	30.44(	45.72)
SYNI SW Sfc UP	14.60(	23.58)
Y-X	-15.84(	28.29)
RMS(	32.42).....	

Tuned SFC SW Up(Daily)



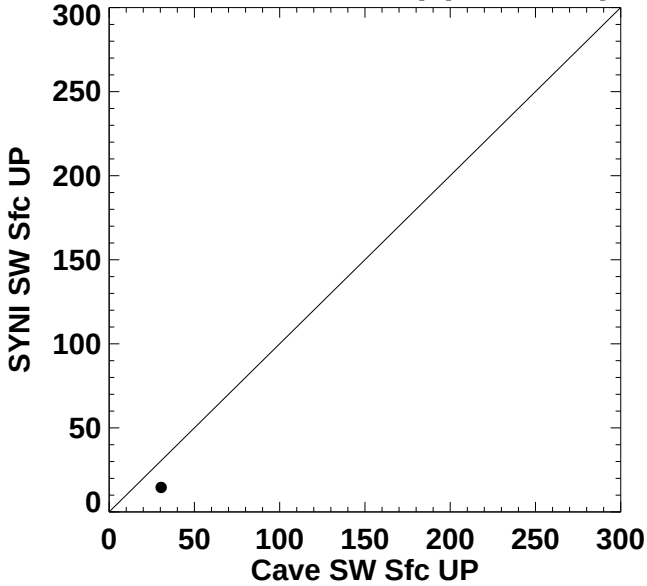
N= 583.	Mean	(StdDev)
Cave SW Sfc UP	30.48(	14.38)
SYNI SW Sfc UP	14.61(	9.63)
Y-X	-15.87(	10.51)
RMS(	19.03).....	

Tuned SFC SW Up(Monthly)



N= 19.	Mean	(StdDev)
Cave SW Sfc UP	30.49(	8.34)
SYNI SW Sfc UP	14.60(	8.64)
Y-X	-15.89(	6.14)
RMS(	16.98).....	

Tuned SFC SW Up(YEARLY)



N= 1.	Mean	(StdDev)
Cave SW Sfc UP	30.49(	-999.0)
SYNI SW Sfc UP	14.60(	-999.0)
Y-X	-15.89(	-999.0)
RMS(	-999.0).....	

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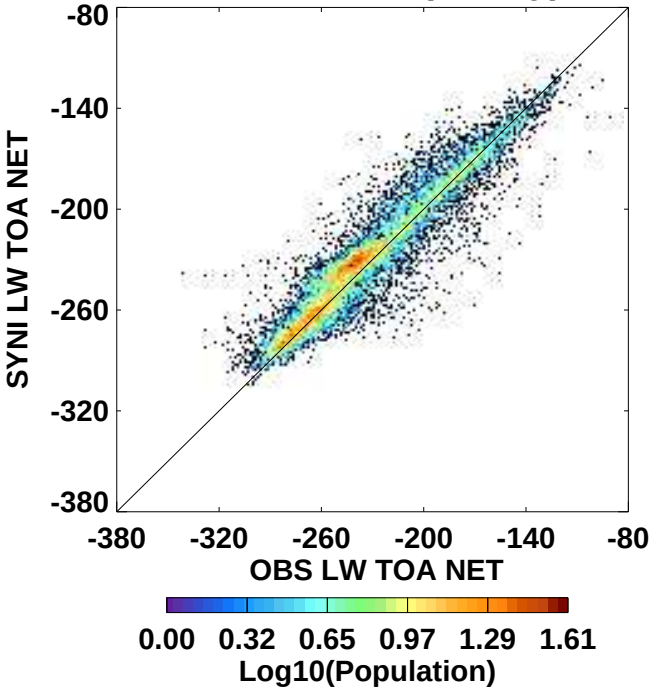
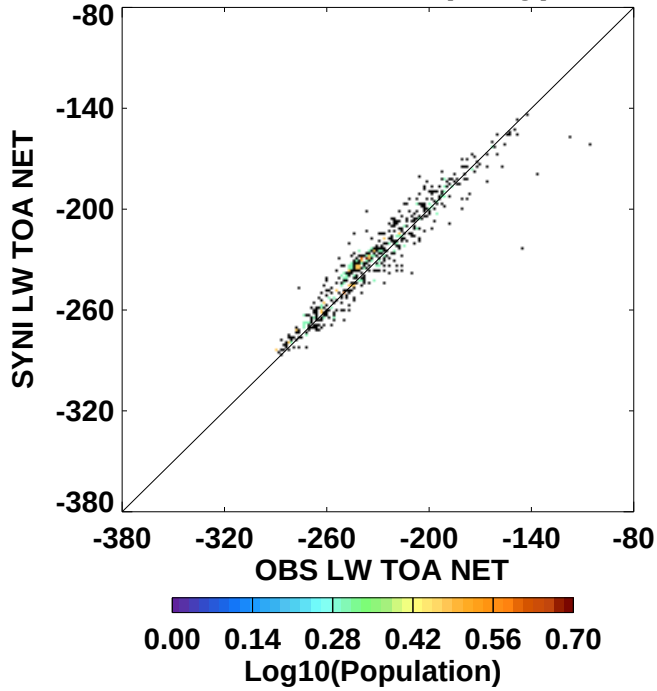
TOA LW NET(Hourly)



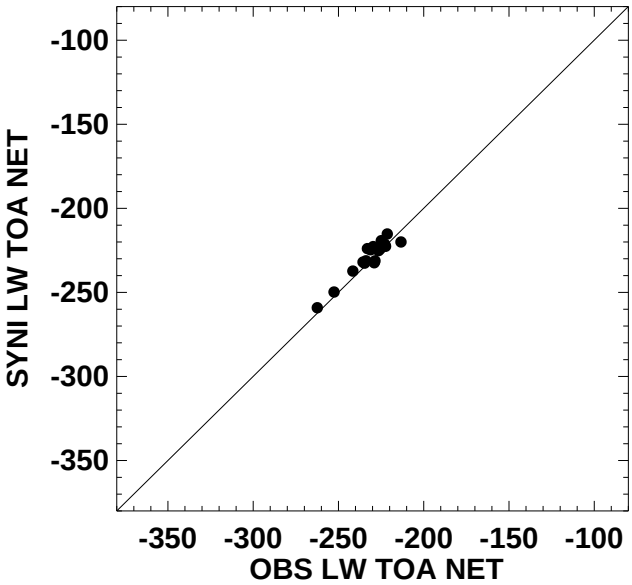
N= 13989.	Mean	(StdDev)
OBS LW TOA NET	-232.3(	38.96)
SYNI LW TOA NET	-229.2(	37.86)
Y-X	3.11(	12.80)
RMS(	13.17).....	

TOA LW NET(Daily)



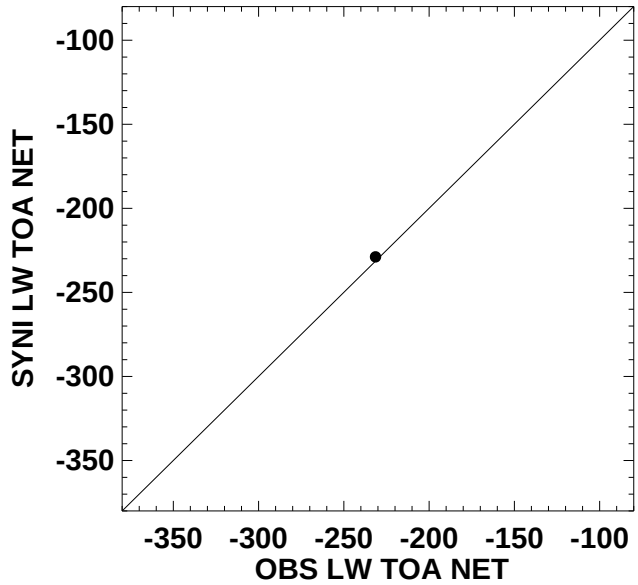
N= 583.	Mean	(StdDev)
OBS LW TOA NET	-231.5(	31.77)
SYNI LW TOA NET	-228.9(	30.29)
Y-X	2.60(	9.20)
RMS(	9.55).....	

TOA LW NET(Monthly)



N= 19.	Mean	(StdDev)
OBS LW TOA NET	-231.4(	11.20)
SYNI LW TOA NET	-228.9(	10.71)
Y-X	2.57(	3.84)
RMS(	4.53).....	

TOA LW NET(YEARLY)



N= 1.	Mean	(StdDev)
OBS LW TOA NET	-231.4(	-999.0)
SYNI LW TOA NET	-228.9(	-999.0)
Y-X	2.57(	-999.0)
RMS(	-999.0).....	

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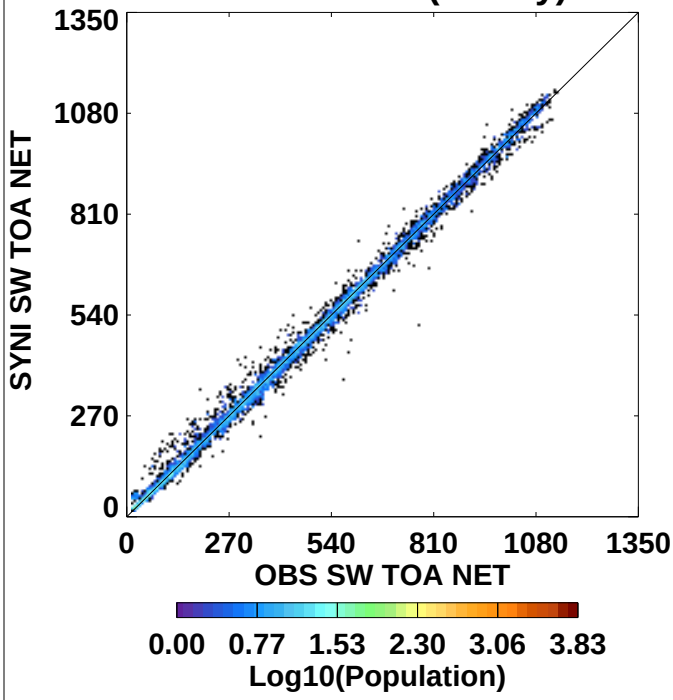
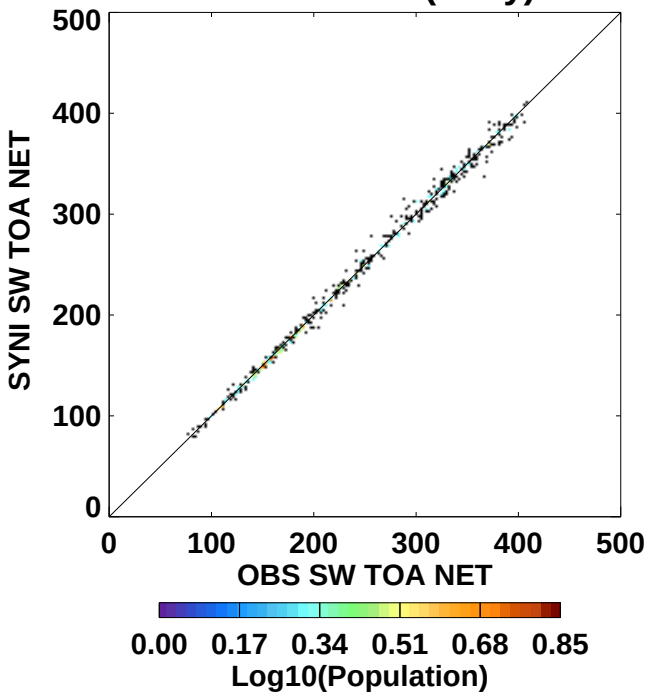
SW TOA NET(Hourly)



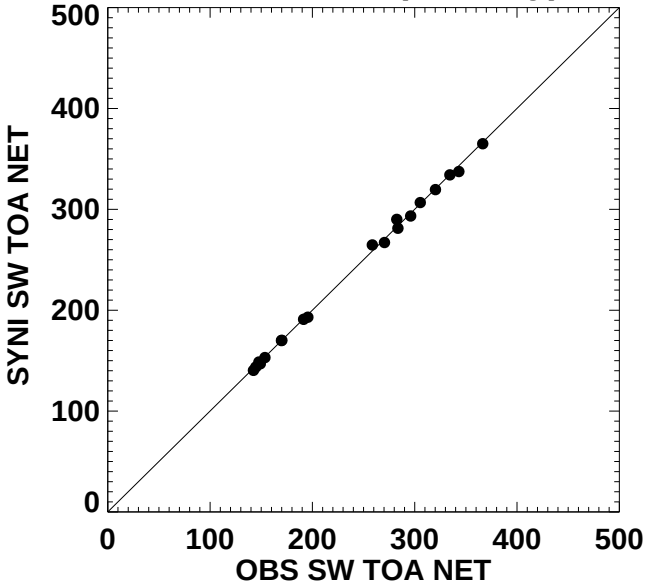
N= 14002.	Mean	(StdDev)
OBS SW TOA NET	238.4	(315.0)
SYNI SW TOA NET	237.9	(314.4)
Y-X	-0.487	(13.83)
RMS(	13.84).....	

SW TOA NET(Daily)



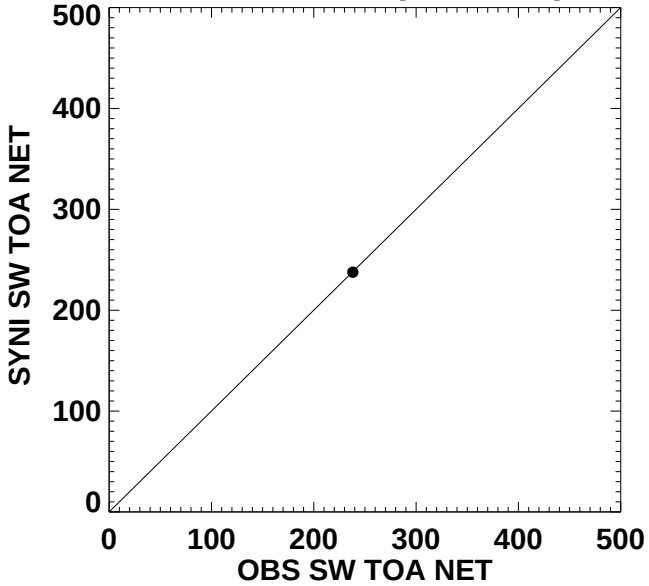
N= 583.	Mean	(StdDev)
OBS SW TOA NET	237.9	(89.45)
SYNI SW TOA NET	237.5	(89.52)
Y-X	-0.459	(5.60)
RMS(	5.61).....	

SW TOA NET(Monthly)



N= 19.	Mean	(StdDev)
OBS SW TOA NET	238.2	(78.64)
SYNI SW TOA NET	237.7	(78.63)
Y-X	-0.457	(3.06)
RMS(	3.01).....	

SW TOA NET(YEARLY)



N= 1.	Mean	(StdDev)
OBS SW TOA NET	238.2	(-999.0)
SYNI SW TOA NET	237.7	(-999.0)
Y-X	-0.457	(-999.0)
RMS(	-999.0).....	

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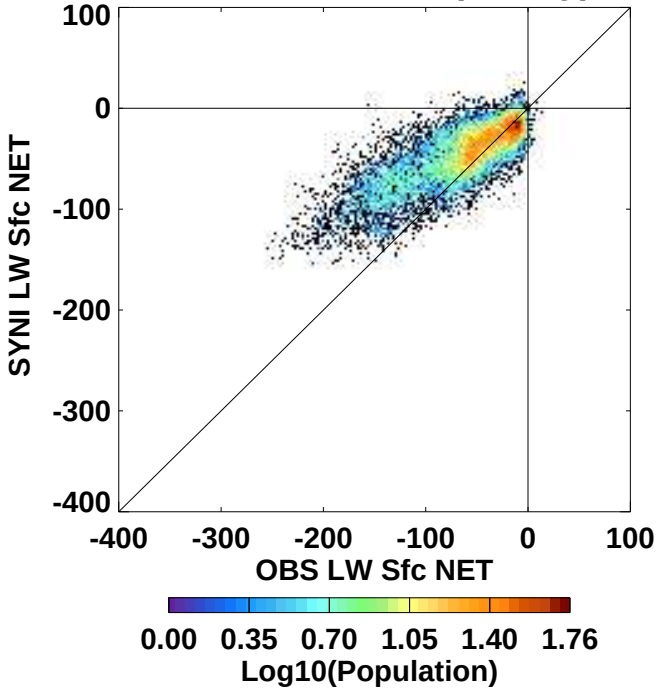
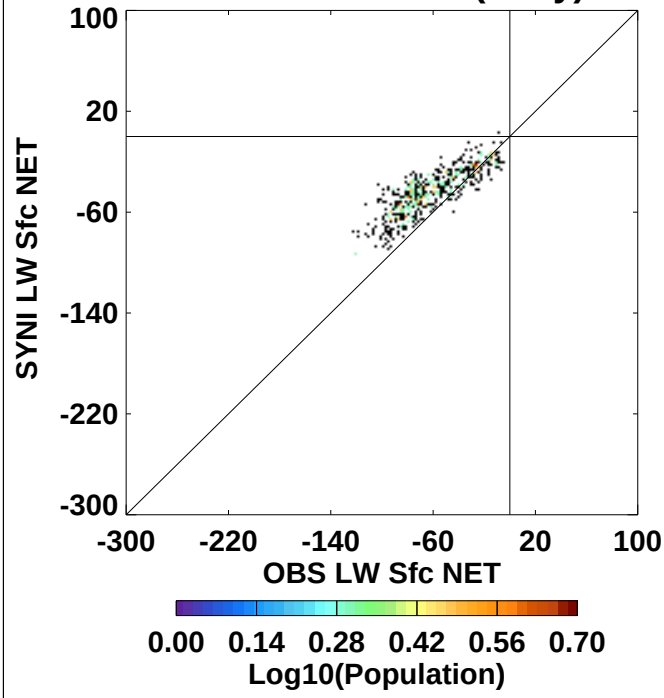
LW Surface NET(Hourly)



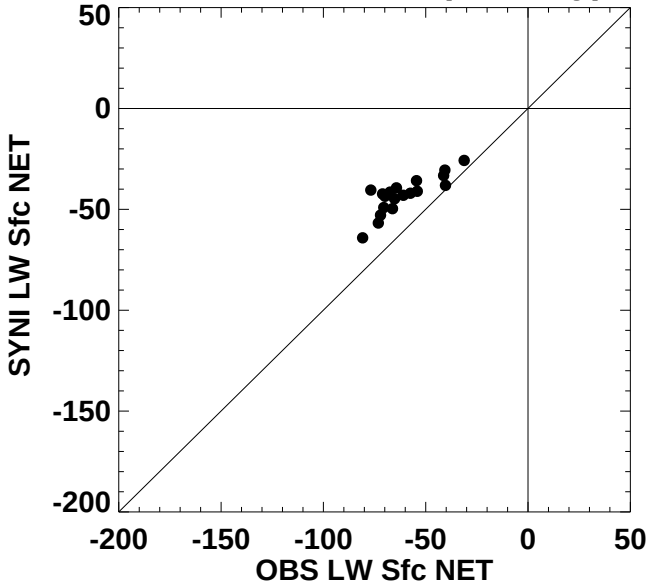
N= 13888.	Mean	(StdDev)
OBS LW Sfc NET	-60.76(	47.54)
SYNI LW Sfc NET	-42.61(	28.67)
Y-X	18.15(	30.29)
RMS(	35.31).....	

LW Surface NET(Daily)



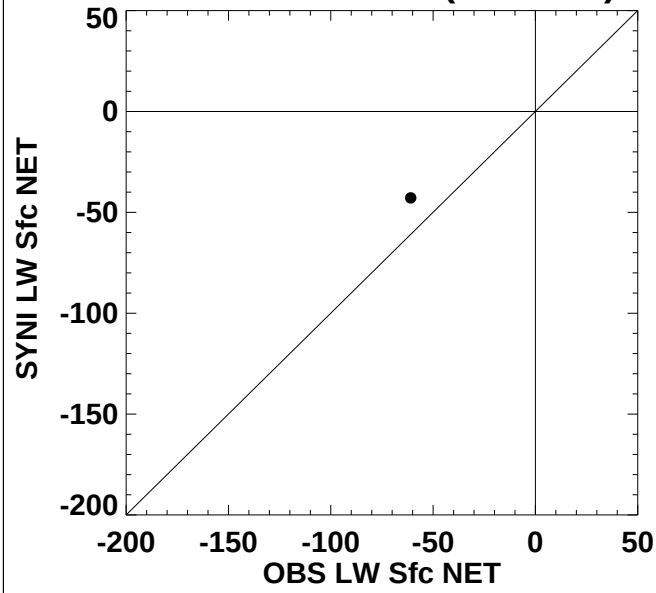
N= 575.	Mean	(StdDev)
OBS LW Sfc NET	-60.76(	26.71)
SYNI LW Sfc NET	-42.62(	17.77)
Y-X	18.13(	15.15)
RMS(	23.62).....	

LW Surface NET(Monthly)



N= 19.	Mean	(StdDev)
OBS LW Sfc NET	-60.95(	13.95)
SYNI LW Sfc NET	-42.84(	9.04)
Y-X	18.12(	8.36)
RMS(	19.86).....	

LW Surface NET(YEARLY)



N= 1.	Mean	(StdDev)
OBS LW Sfc NET	-60.95(	-999.0)
SYNI LW Sfc NET	-42.84(	-999.0)
Y-X	18.12(	-999.0)
RMS(	-999.0).....	

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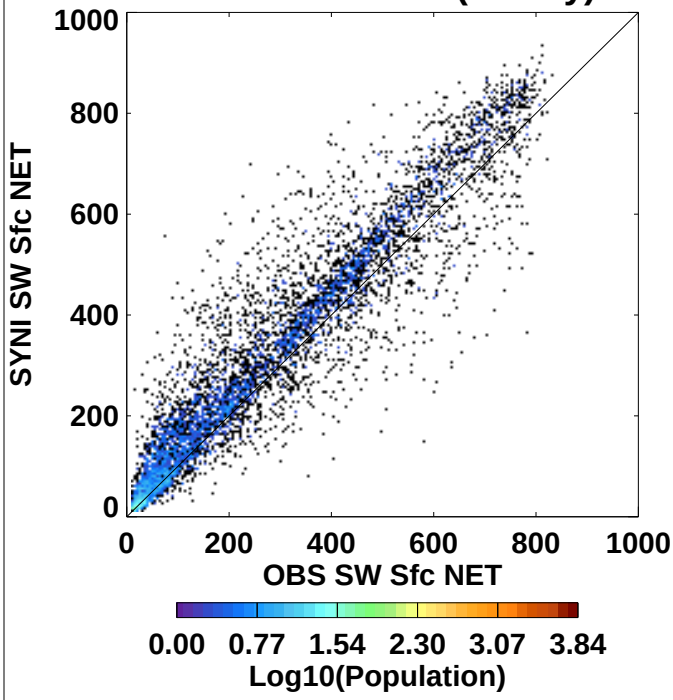
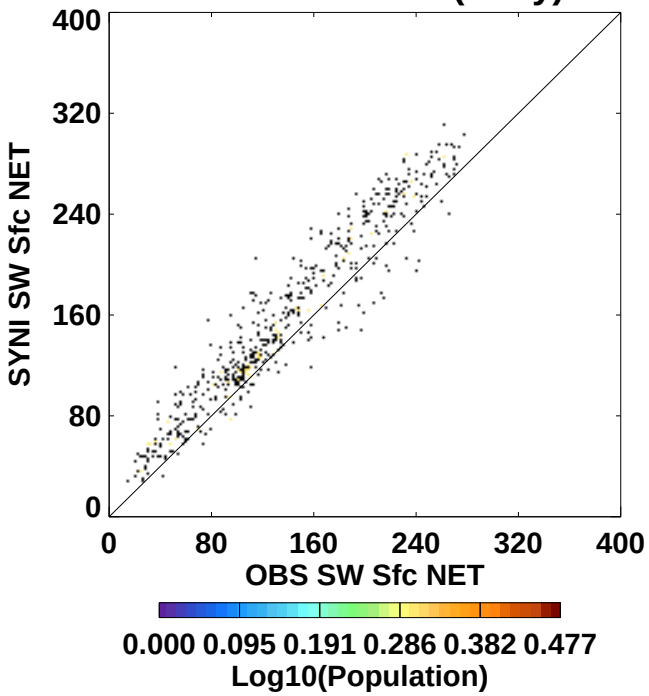
SW Surface NET(Hourly)



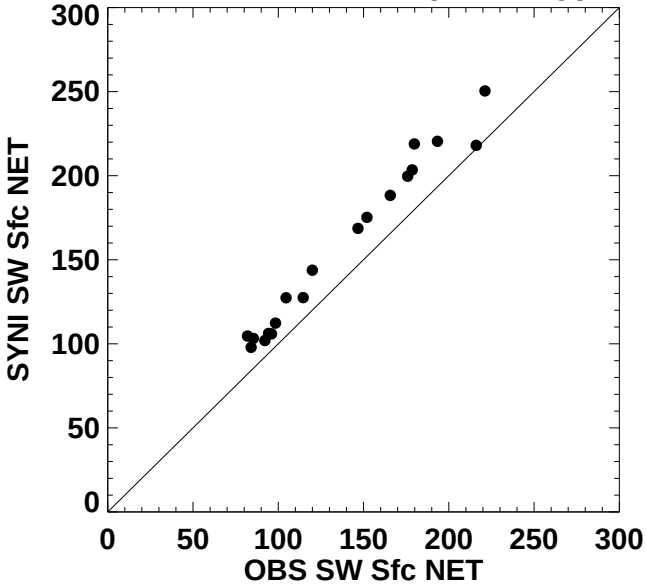
N= 14033.	Mean	(StdDev)
OBS SW Sfc NET	136.5(	207.4)
SYNI SW Sfc NET	156.1(	226.9)
Y-X	19.60(	57.60)
RMS(	60.84).....	

SW Surface NET(Daily)



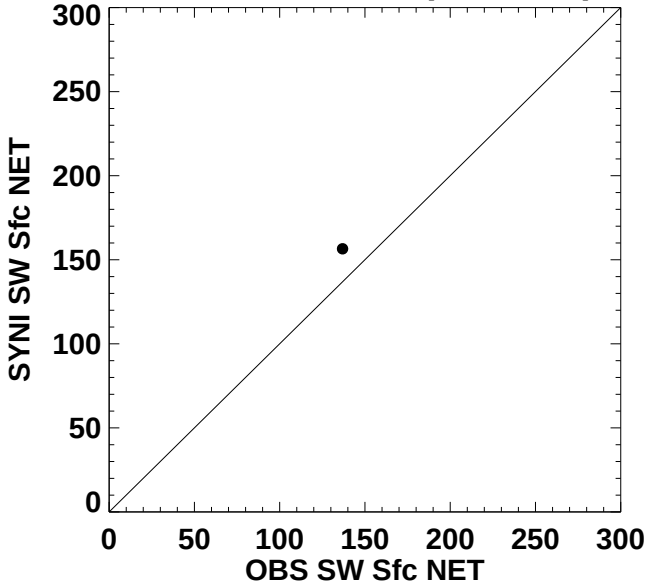
N= 582.	Mean	(StdDev)
OBS SW Sfc NET	136.8(	66.89)
SYNI SW Sfc NET	156.5(	70.81)
Y-X	19.63(	19.69)
RMS(	27.79).....	

SW Surface NET(Monthly)



N= 19.	Mean	(StdDev)
OBS SW Sfc NET	136.9(	47.18)
SYNI SW Sfc NET	156.5(	51.10)
Y-X	19.67(	8.55)
RMS(	21.36).....	

SW Surface NET(YEARLY)



N= 1.	Mean	(StdDev)
OBS SW Sfc NET	136.9(	-999.0)
SYNI SW Sfc NET	156.5(	-999.0)
Y-X	19.67(	-999.0)
RMS(	-999.0).....	

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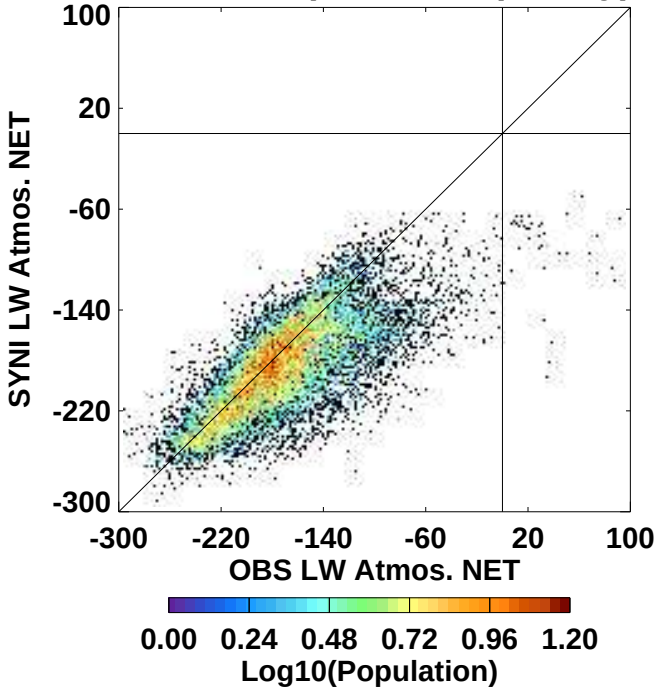
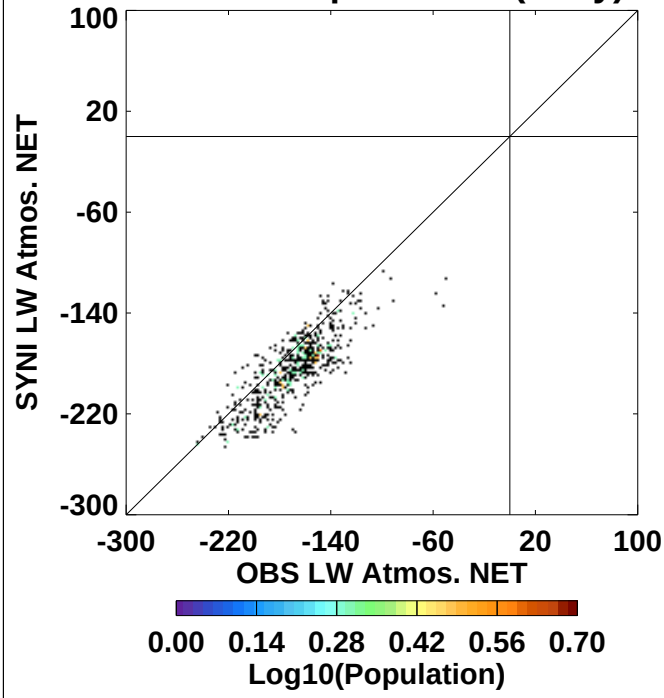
LW Atmosphere NET(Hourly)



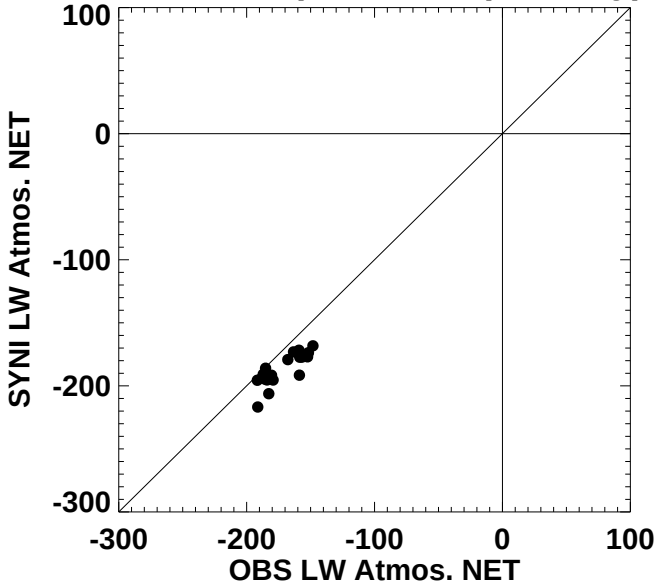
N= 13873.	Mean	(StdDev)
OBS LW Atmos. NET	-171.0(	46.37)
SYNI LW Atmos. NET	-186.4(	37.67)
Y-X	-15.40(	32.04)
RMS(	35.54).....	

LW Atmosphere NET(Daily)



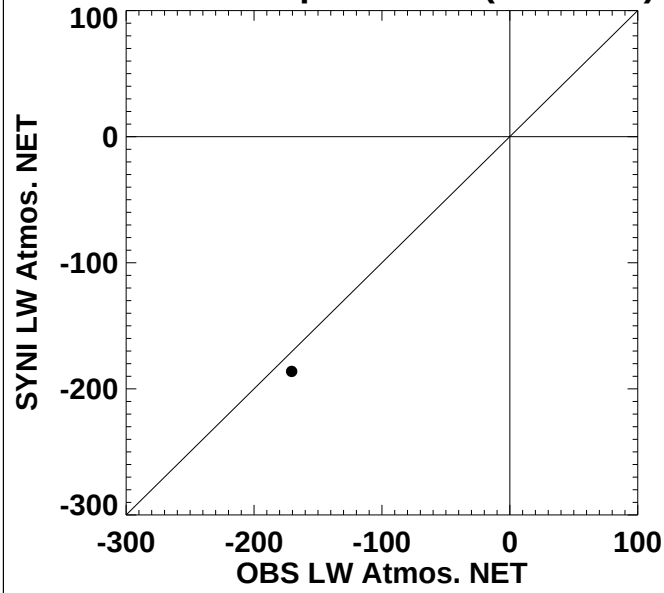
N= 575.	Mean	(StdDev)
OBS LW Atmos. NET	-170.9(	27.91)
SYNI LW Atmos. NET	-186.4(	27.61)
Y-X	-15.49(	16.55)
RMS(	22.66).....	

LW Atmosphere NET(Monthly)



N= 19.	Mean	(StdDev)
OBS LW Atmos. NET	-170.6(	15.16)
SYNI LW Atmos. NET	-186.2(	12.91)
Y-X	-15.56(	8.44)
RMS(	17.60).....	

LW Atmosphere NET(YEARLY)



N= 1.	Mean	(StdDev)
OBS LW Atmos. NET	-170.6(	-999.0)
SYNI LW Atmos. NET	-186.2(	-999.0)
Y-X	-15.56(	-999.0)
RMS(	-999.0).....	

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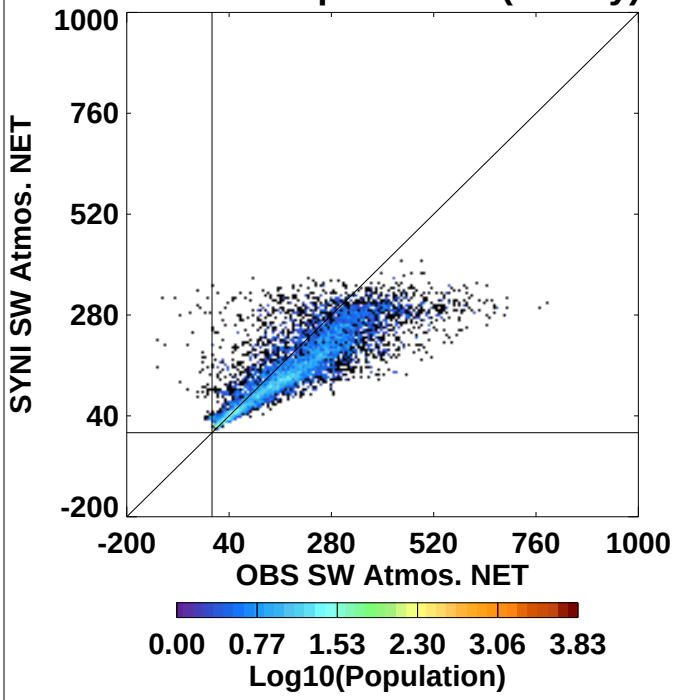
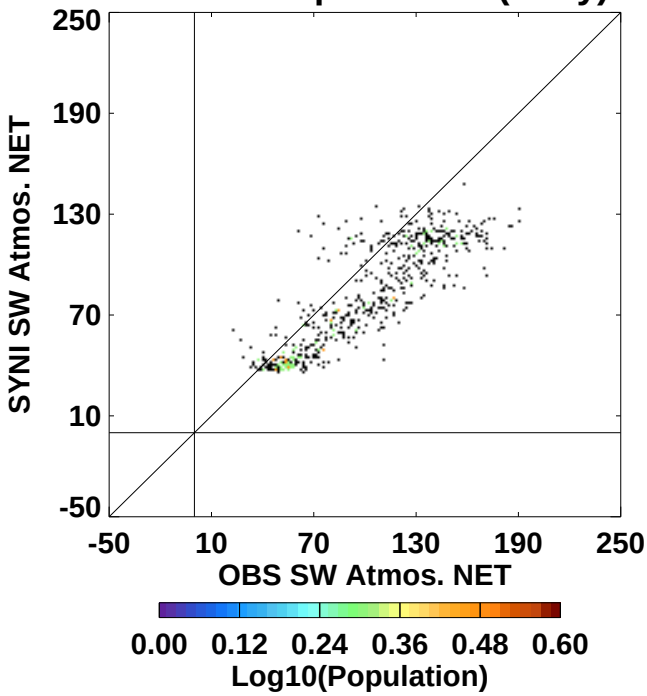
SW Atmosphere NET(Hourly)



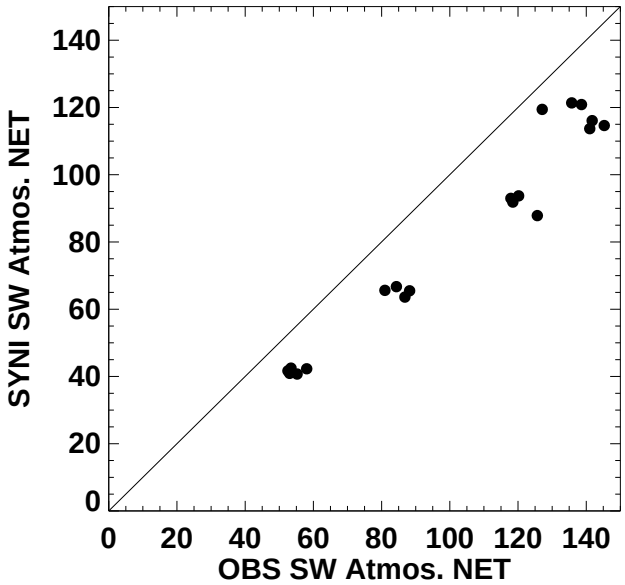
N= 14033.	Mean	(StdDev)
OBS SW Atmos. NET	101.1(	133.8)
SYNI SW Atmos. NET	81.09(	100.0)
Y-X	-20.06(	58.26)
RMS(	61.61).....	

SW Atmosphere NET(Daily)



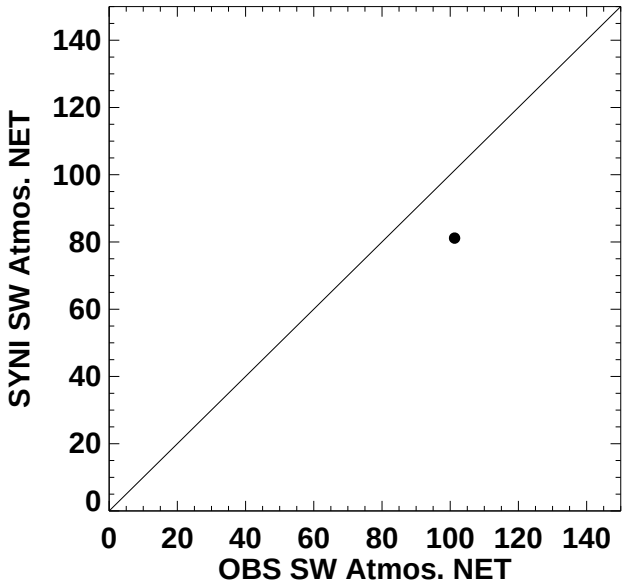
N= 582.	Mean	(StdDev)
OBS SW Atmos. NET	101.2(	38.59)
SYNI SW Atmos. NET	81.15(	31.27)
Y-X	-20.08(	19.86)
RMS(	28.23).....	

SW Atmosphere NET(Monthly)



N= 19.	Mean	(StdDev)
OBS SW Atmos. NET	101.3(	34.95)
SYNI SW Atmos. NET	81.16(	31.04)
Y-X	-20.12(	7.94)
RMS(	21.55).....	

SW Atmosphere NET(YEARLY)



N= 1.	Mean	(StdDev)
OBS SW Atmos. NET	101.3(	-999.0)
SYNI SW Atmos. NET	81.16(	-999.0)
Y-X	-20.12(	-999.0)
RMS(	-999.0).....	

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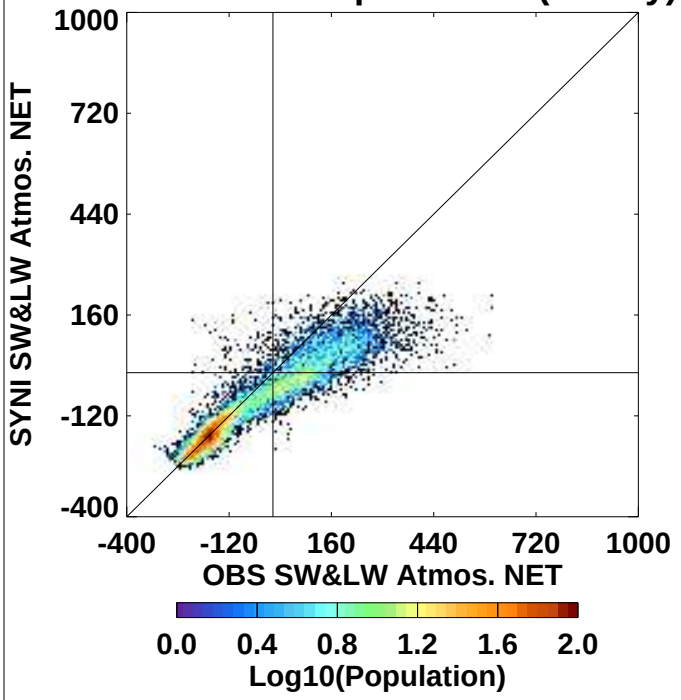
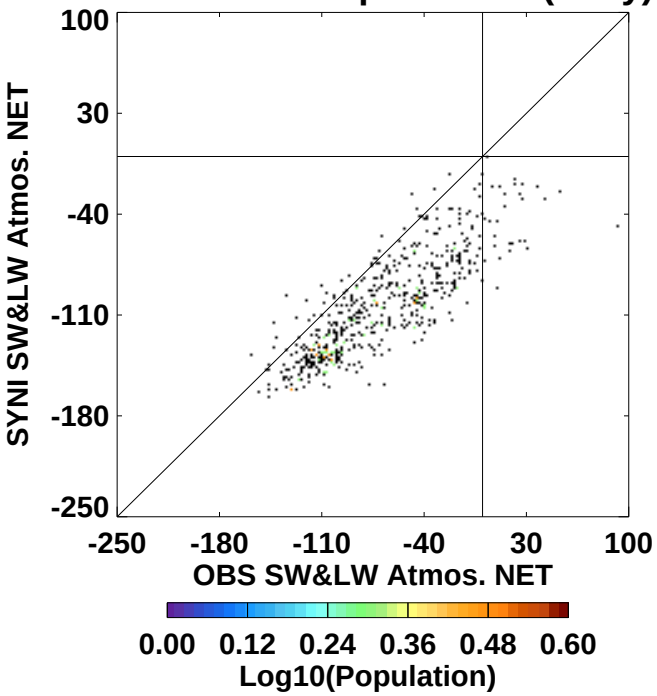
SW&LW Atmosphere NET(Hourly)



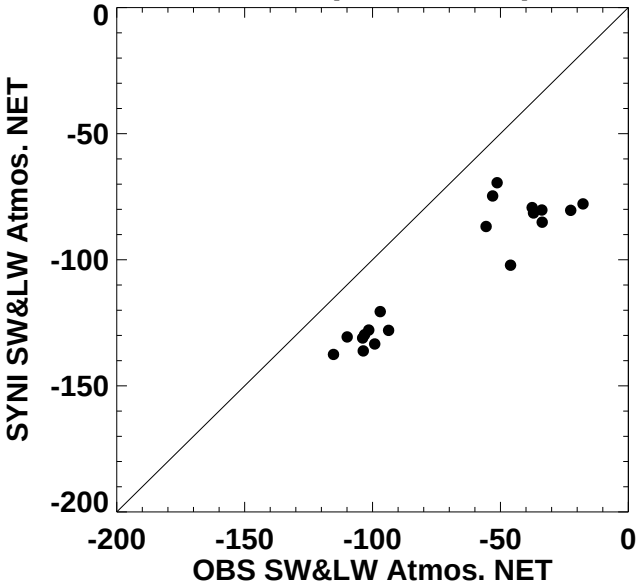
N= 13883.	Mean	(StdDev)
OBS SW&LW Atmos. NET	-69.80(	156.5)
SYNI SW&LW Atmos. NET	-105.3(	111.2)
Y-X	-35.46(	66.43)
RMS(	75.30).....	

SW&LW Atmosphere NET(Daily)



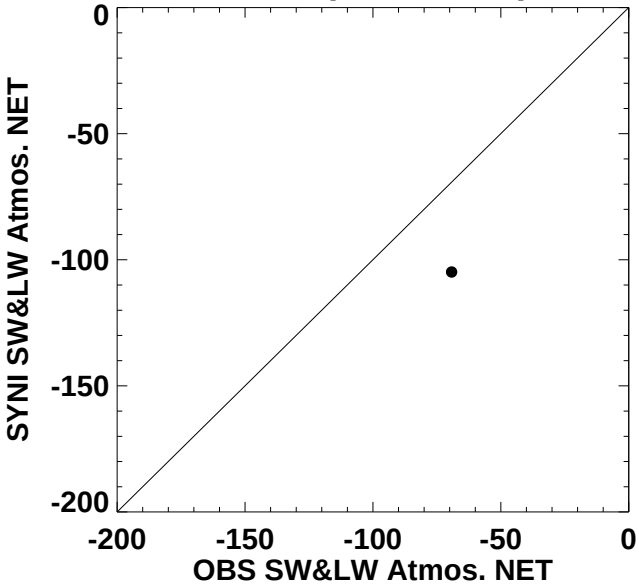
N= 573.	Mean	(StdDev)
OBS SW&LW Atmos. NET	-70.08(	43.08)
SYNI SW&LW Atmos. NET	-105.3(	34.95)
Y-X	-35.26(	23.68)
RMS(	42.46).....	

SW&LW Atmosphere NET(Monthly)



N= 19.	Mean	(StdDev)
OBS SW&LW Atmos. NET	-69.25(	34.40)
SYNI SW&LW Atmos. NET	-104.8(	25.99)
Y-X	-35.60(	13.57)
RMS(	37.97).....	

SW&LW Atmosphere NET(YEARLY)



N= 1.	Mean	(StdDev)
OBS SW&LW Atmos. NET	-69.25(	-999.0)
SYNI SW&LW Atmos. NET	-104.8(	-999.0)
Y-X	-35.60(	-999.0)
RMS(	-999.0).....	