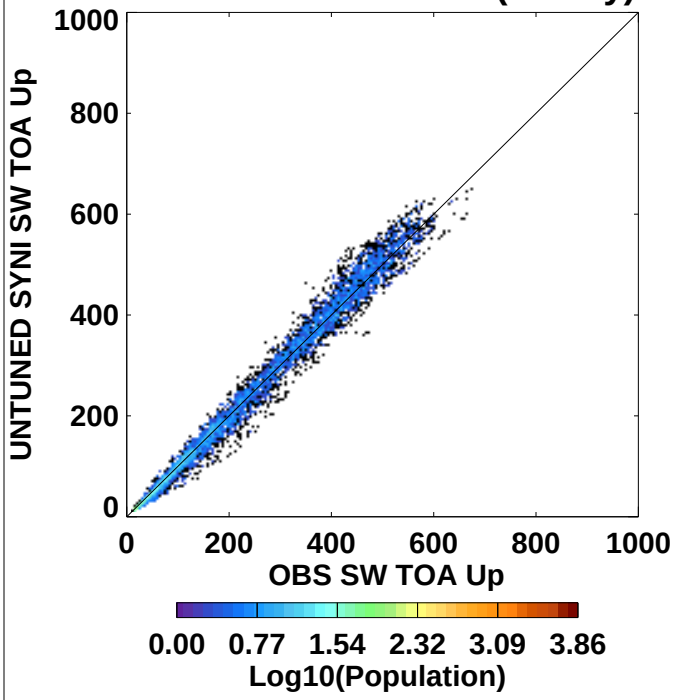
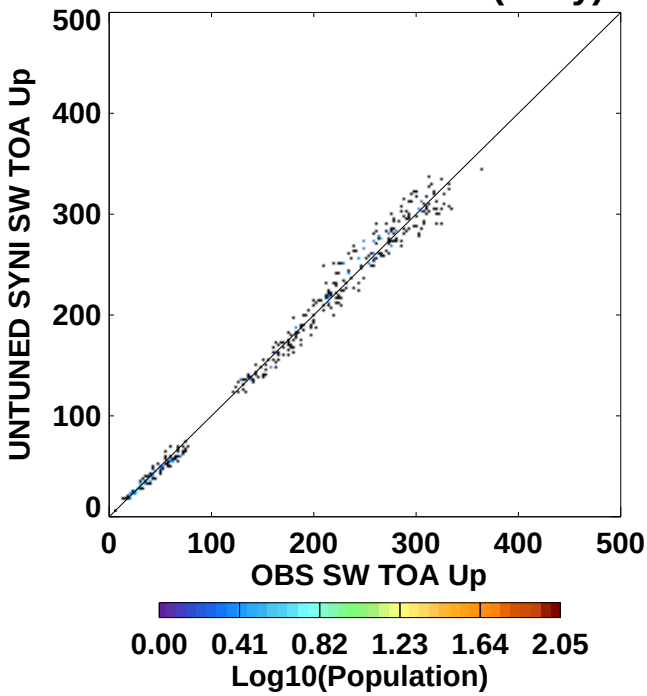
SYNI Beta4 FM1 2000:2005 /Jan,Apr,Jul,Oct: FM1 (STS validation subset)
SYO-69.000 39.580 Syowa, Antarctic

Untuned TOA SW UP(Hourly)



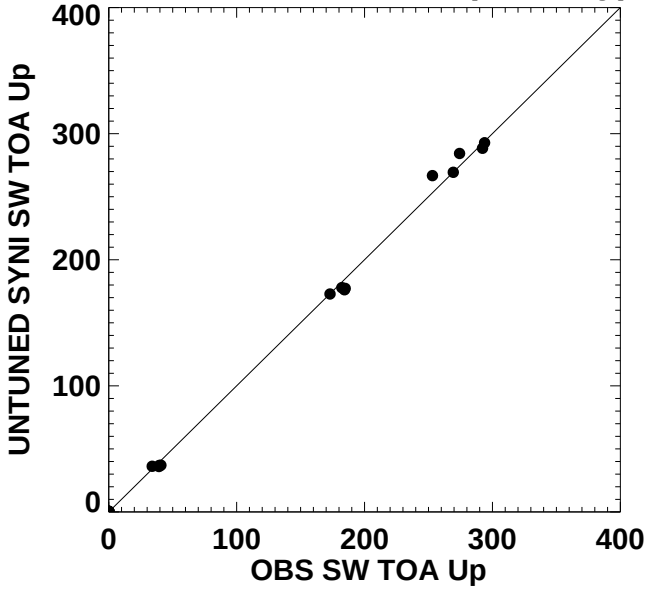
N= 13730.	Mean	(StdDev)
OBS SW TOA Up	121.9	(174.1)
UNTUNED SYNI SW TOA Up	122.0	(176.7)
Y-X	0.059	(15.47)
RMS(	15.47).....	

Untuned TOA SW UP(Daily)



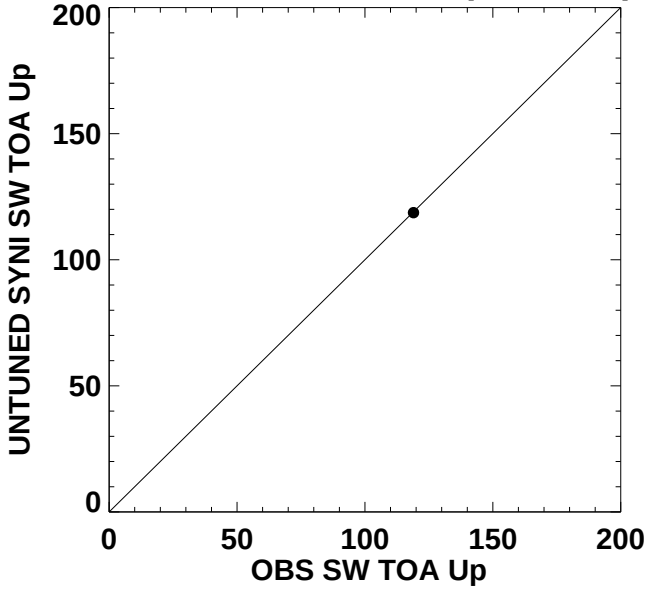
N= 501.	Mean	(StdDev)
OBS SW TOA Up	135.4	(116.4)
UNTUNED SYNI SW TOA Up	135.6	(117.6)
Y-X	0.283	(9.45)
RMS(	9.44).....	

Untuned TOA SW UP(Monthly)



N= 19.	Mean	(StdDev)
OBS SW TOA Up	119.0	(118.3)
UNTUNED SYNI SW TOA Up	118.7	(119.1)
Y-X	-0.288	(5.16)
RMS(	5.03).....	

Untuned TOA SW UP(YEARLY)



N= 1.	Mean	(StdDev)
OBS SW TOA Up	119.0	(-999.0)
UNTUNED SYNI SW TOA Up	118.7	(-999.0)
Y-X	-0.288	(-999.0)
RMS(	-999.0).....	

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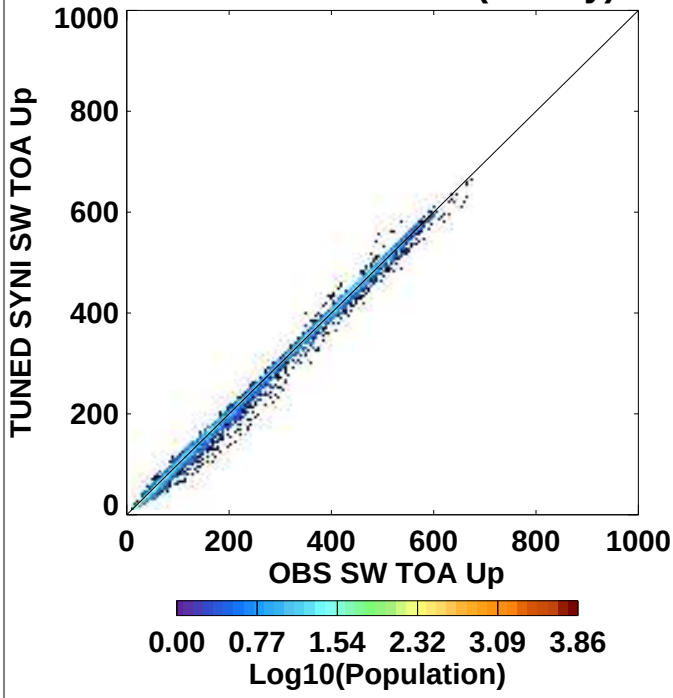
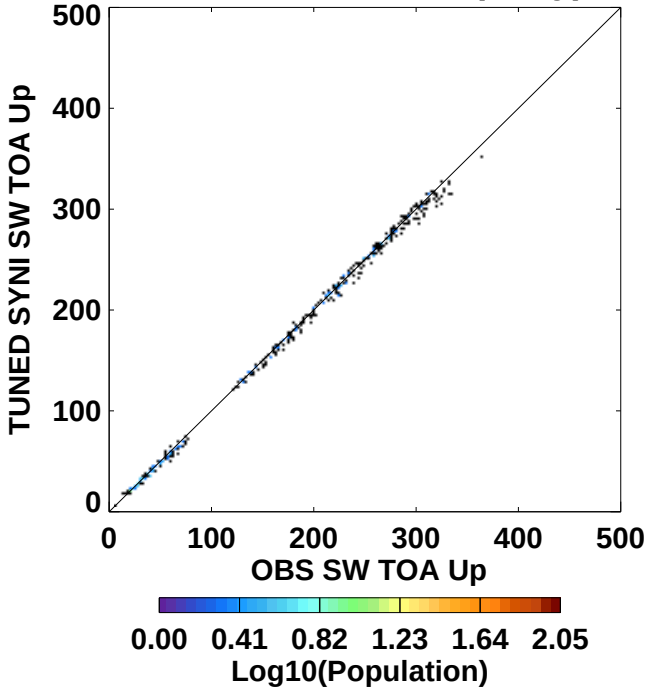
Tuned TOA SW UP(Hourly)



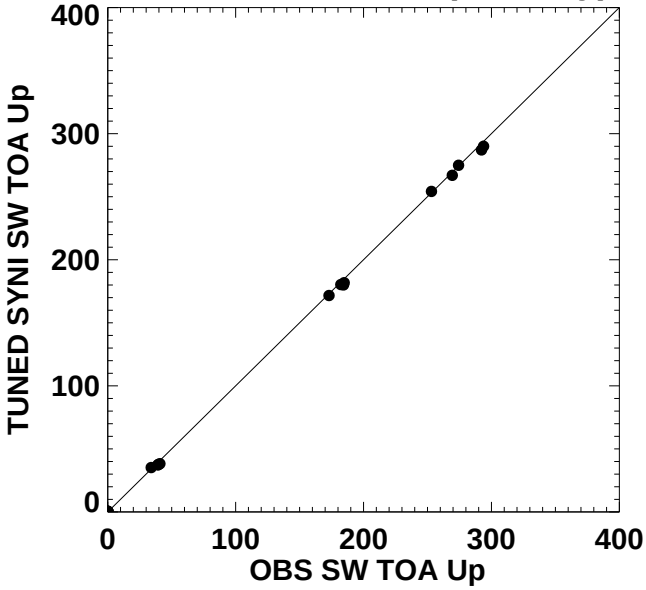
N= 13740.	Mean	(StdDev)
OBS SW TOA Up	122.1(	174.2)
TUNED SYNI SW TOA Up	120.9(	173.9)
Y-X	-1.26(	7.17)
RMS(	7.28).....	

Tuned TOA SW UP(Daily)



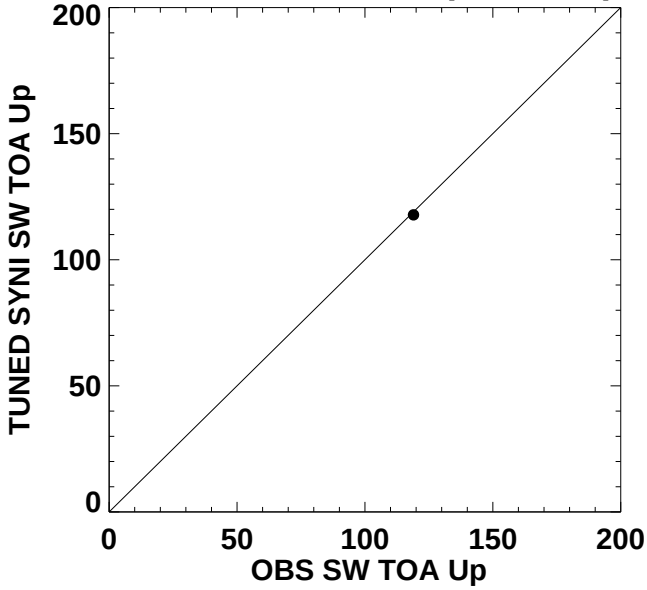
N= 509.	Mean	(StdDev)
OBS SW TOA Up	136.4(	116.0)
TUNED SYNI SW TOA Up	135.0(	115.1)
Y-X	-1.41(	3.93)
RMS(	4.17).....	

Tuned TOA SW UP(Monthly)



N= 19.	Mean	(StdDev)
OBS SW TOA Up	119.0(	118.3)
TUNED SYNI SW TOA Up	117.8(	117.2)
Y-X	-1.17(	1.99)
RMS(	2.26).....	

Tuned TOA SW UP(YEARLY)



N= 1.	Mean	(StdDev)
OBS SW TOA Up	119.0(	-999.0)
TUNED SYNI SW TOA Up	117.8(	-999.0)
Y-X	-1.17(	-999.0)
RMS(	-999.0).....	

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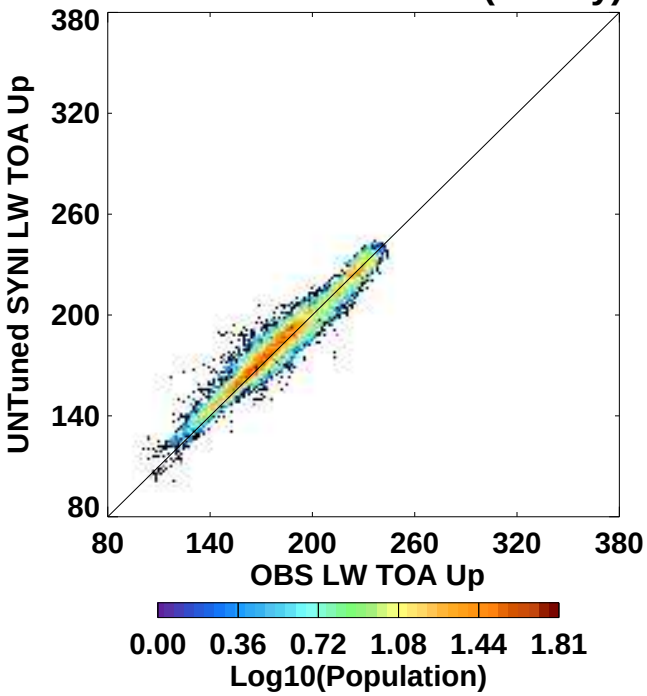
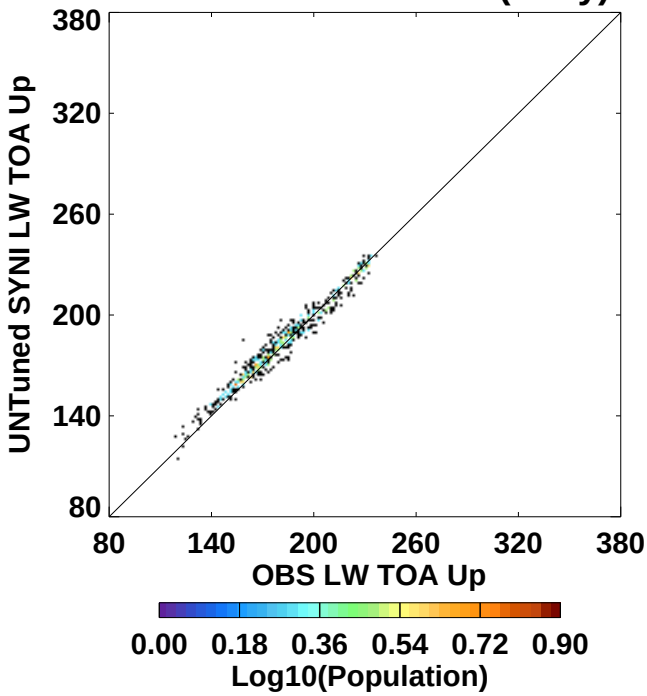
UNTuned TOA LW UP(Hourly)



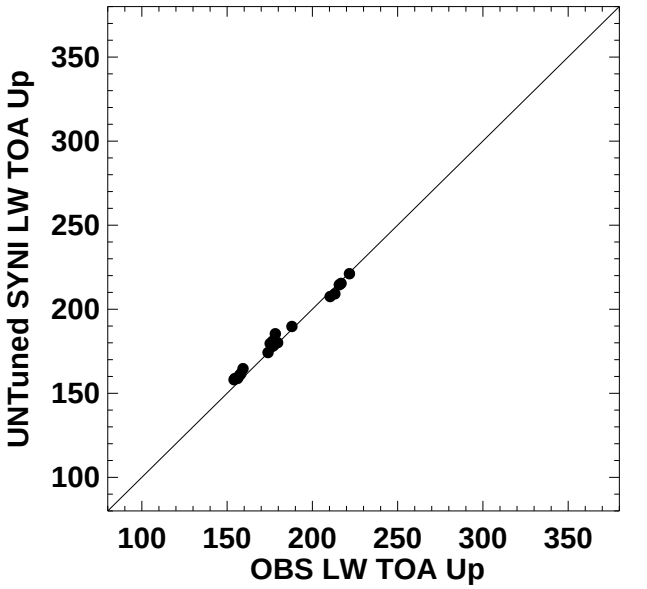
N= 13999.	Mean	(StdDev)
OBS LW TOA Up	180.9	(27.66)
UNTuned SYNI LW TOA Up	182.7	(26.01)
Y-X	1.78	(6.53)
RMS(	6.77).....	

UNTuned TOA LW UP(Daily)



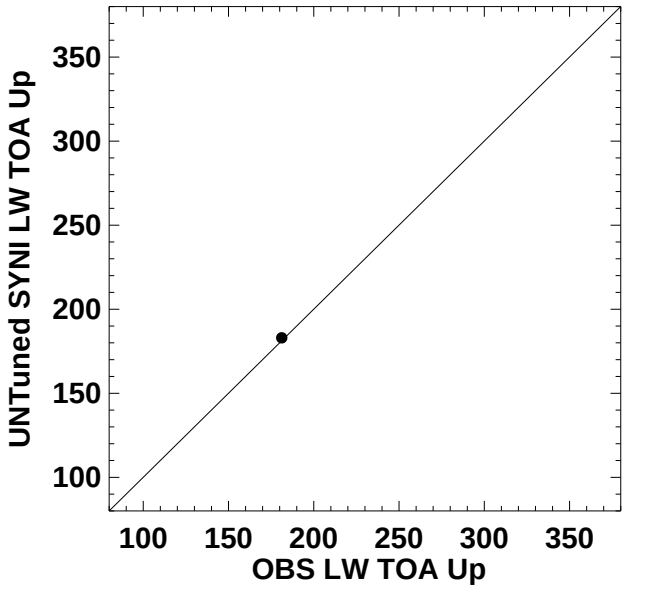
N= 573.	Mean	(StdDev)
OBS LW TOA Up	181.3	(26.44)
UNTuned SYNI LW TOA Up	183.1	(24.60)
Y-X	1.76	(4.79)
RMS(	5.10).....	

UNTuned TOA LW UP(Monthly)



N= 19.	Mean	(StdDev)
OBS LW TOA Up	181.2	(23.39)
UNTuned SYNI LW TOA Up	183.0	(21.17)
Y-X	1.78	(2.96)
RMS(	3.38).....	

UNTuned TOA LW UP(YEARLY)



N= 1.	Mean	(StdDev)
OBS LW TOA Up	181.2	(-999.0)
UNTuned SYNI LW TOA Up	183.0	(-999.0)
Y-X	1.78	(-999.0)
RMS(	-999.0).....	

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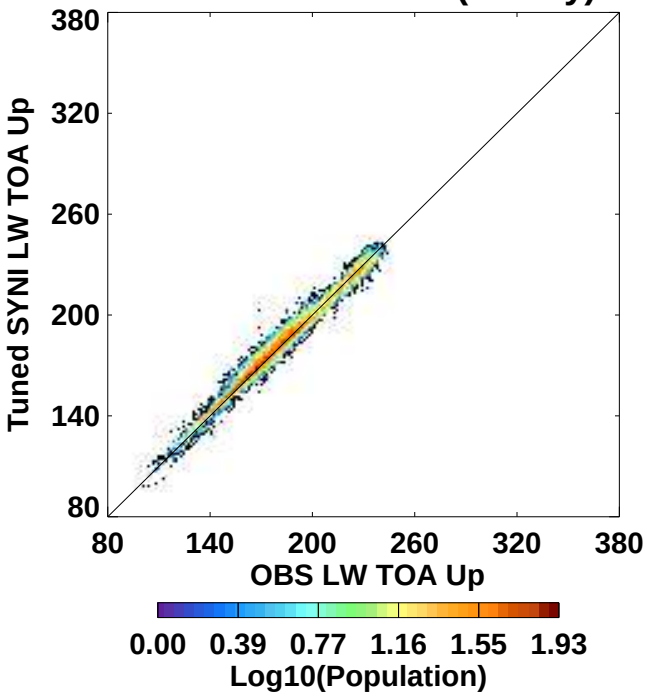
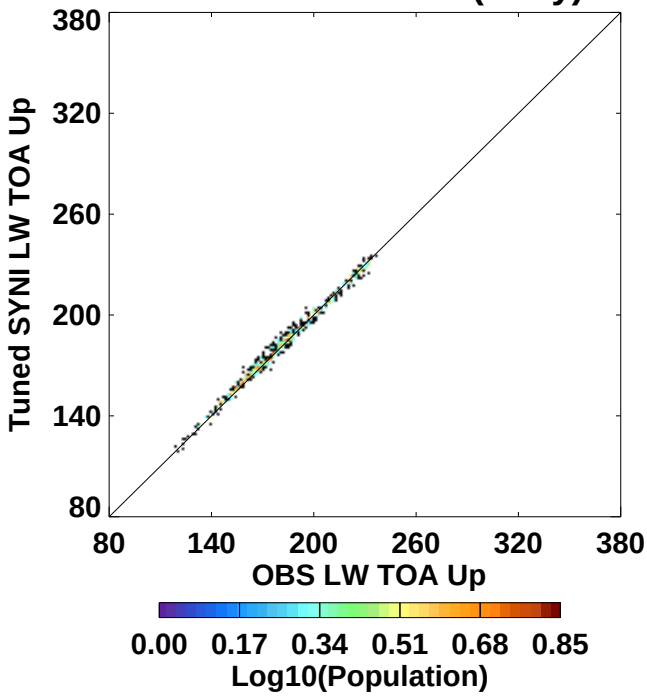
Tuned TOA LW UP(Hourly)



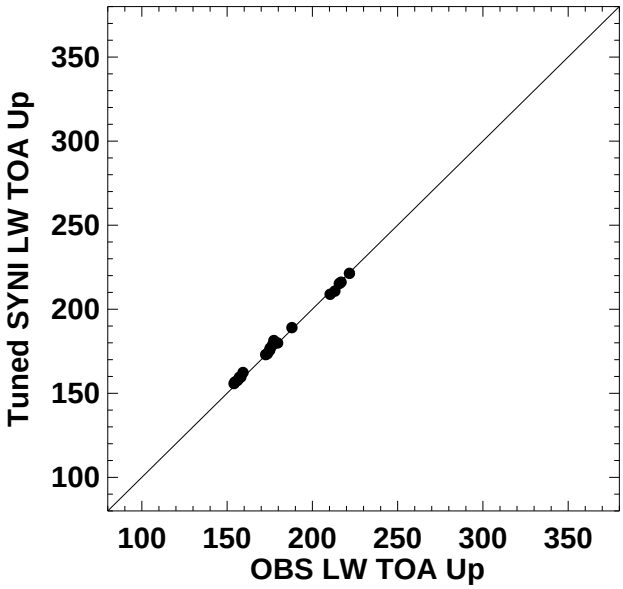
N= 14009.	Mean	(StdDev)
OBS LW TOA Up	180.8	(27.67)
Tuned SYNI LW TOA Up	181.7	(26.94)
Y-X	0.880	(3.72)
RMS(	3.82).....	

Tuned TOA LW UP(Daily)



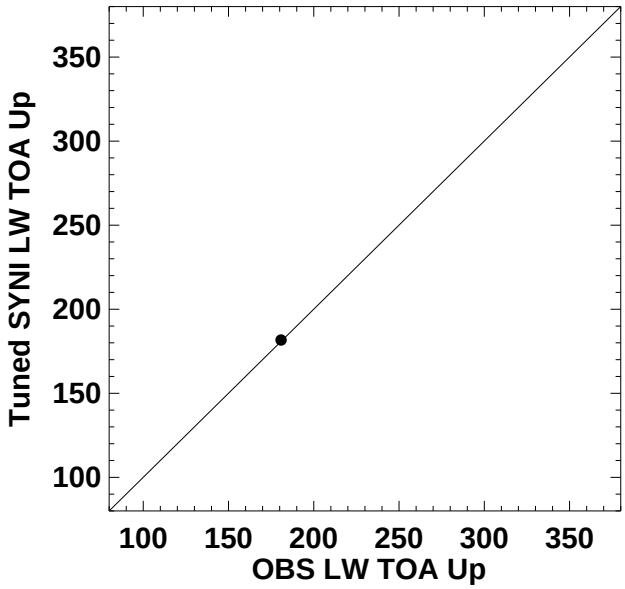
N= 581.	Mean	(StdDev)
OBS LW TOA Up	180.9	(26.57)
Tuned SYNI LW TOA Up	181.7	(25.78)
Y-X	0.877	(2.65)
RMS(	2.79).....	

Tuned TOA LW UP(Monthly)



N= 19.	Mean	(StdDev)
OBS LW TOA Up	180.8	(23.49)
Tuned SYNI LW TOA Up	181.7	(22.32)
Y-X	0.884	(1.59)
RMS(	1.78).....	

Tuned TOA LW UP(YEARLY)



N= 1.	Mean	(StdDev)
OBS LW TOA Up	180.8	(-999.0)
Tuned SYNI LW TOA Up	181.7	(-999.0)
Y-X	0.884	(-999.0)
RMS(	-999.0).....	

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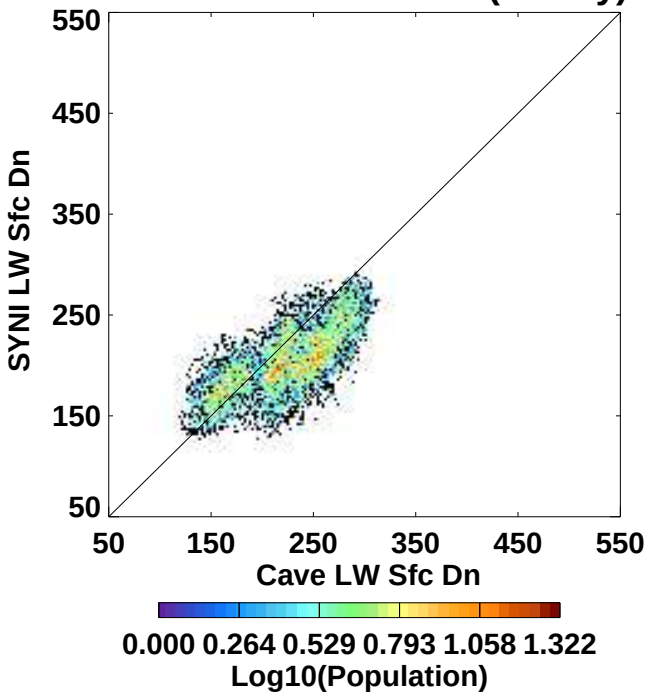
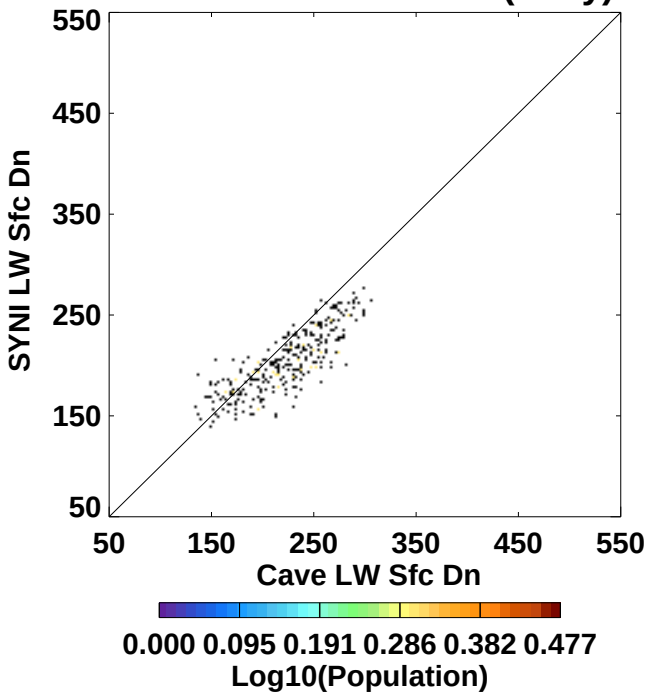
Tuned SFC LW DOWN(Hourly)



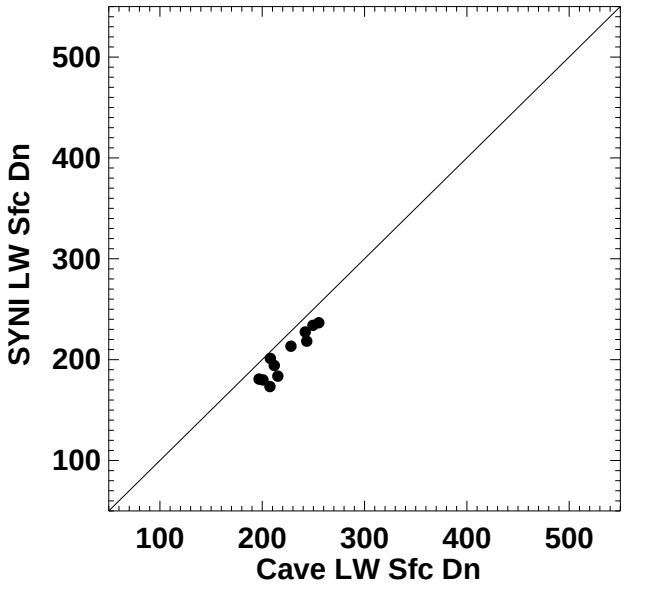
N= 7691.	Mean	(StdDev)
Cave LW Sfc Dn	222.2(	44.79)
SYNI LW Sfc Dn	202.6(	33.32)
Y-X	-19.52(	31.16)
RMS(	36.77).....	

Tuned SFC LW DOWN(Daily)



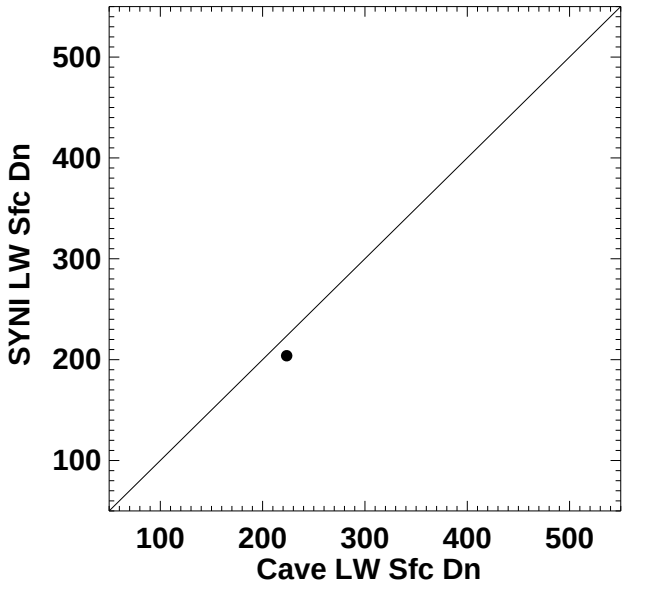
N= 309.	Mean	(StdDev)
Cave LW Sfc Dn	221.9(	40.16)
SYNI LW Sfc Dn	202.3(	30.80)
Y-X	-19.61(	22.98)
RMS(	30.18).....	

Tuned SFC LW DOWN(Monthly)



N= 11.	Mean	(StdDev)
Cave LW Sfc Dn	223.5(	20.93)
SYNI LW Sfc Dn	203.9(	23.20)
Y-X	-19.61(	7.98)
RMS(	21.04).....	

Tuned SFC LW DOWN(YEARLY)



N= 1.	Mean	(StdDev)
Cave LW Sfc Dn	223.5(	-999.0)
SYNI LW Sfc Dn	203.9(	-999.0)
Y-X	-19.61(	-999.0)
RMS(	-999.0).....	

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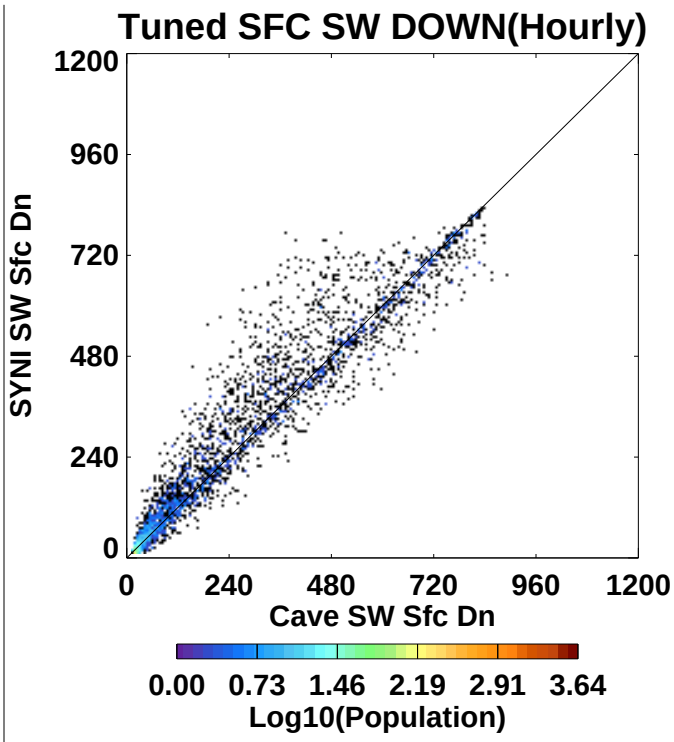
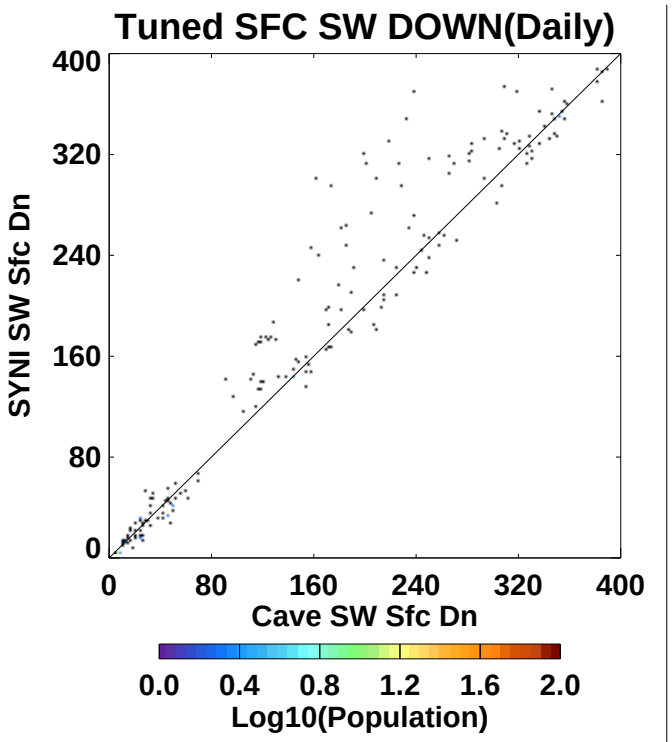


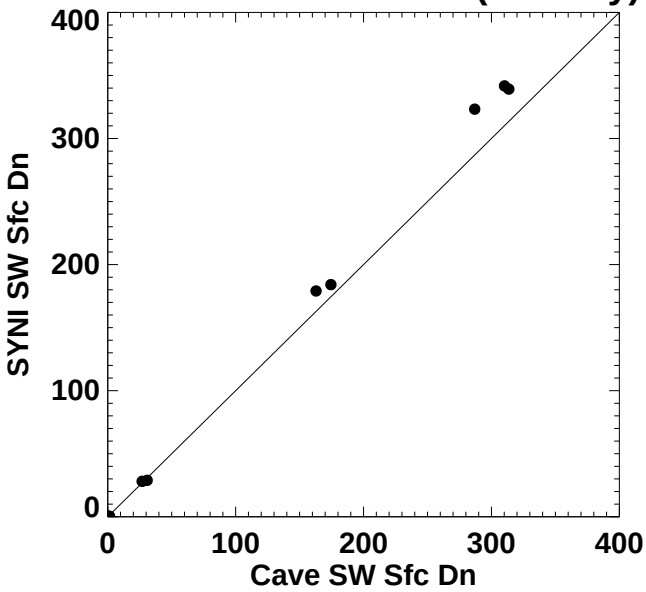
N= 7875.	Mean	(StdDev)
Cave SW Sfc Dn	112.2(	200.1)
SYNI SW Sfc Dn	121.6(	209.5)
Y-X	9.39(	46.50)
RMS(	47.44).....	



N= 313.	Mean	(StdDev)
Cave SW Sfc Dn	101.8(	123.0)
SYNI SW Sfc Dn	111.1(	132.8)
Y-X	9.27(	26.99)
RMS(	28.50).....	

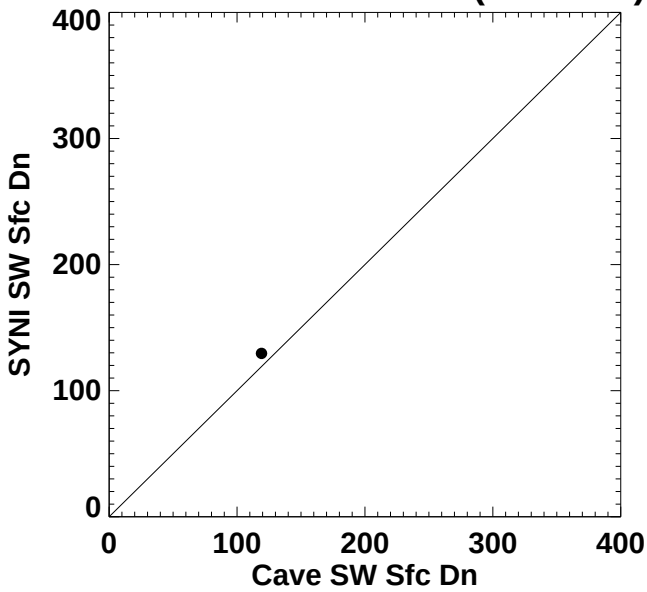
SYNI Beta4 FM1 2000:2005 /Jan,Apr,Jul,Oct: FM1 (STS validation subset)
SYO-69.000 39.580 Syowa, Antarctic

Tuned SFC SW DOWN(Monthly)



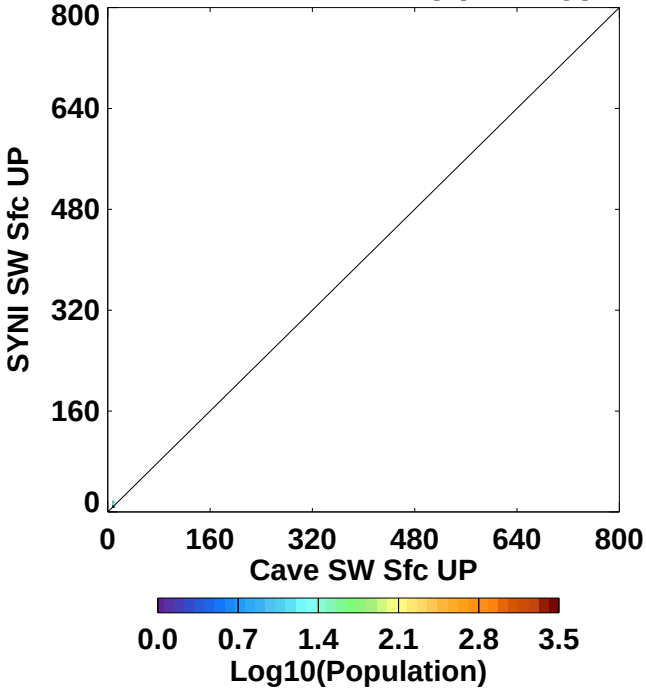
N= 11.	Mean	(StdDev)
Cave SW Sfc Dn	119.1(	133.9)
SYNI SW Sfc Dn	129.6(	148.0)
Y-X	10.46(	14.60)
RMS(	17.41).....	

Tuned SFC SW DOWN(YEARLY)



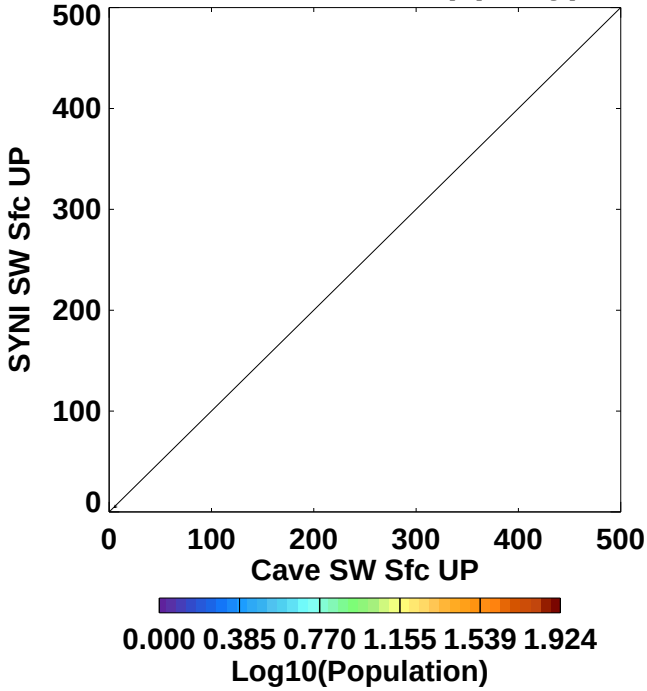
N= 1.	Mean	(StdDev)
Cave SW Sfc Dn	119.1(	-999.0)
SYNI SW Sfc Dn	129.6(	-999.0)
Y-X	10.46(	-999.0)
RMS(	-999.0).....	

Tuned SFC SW Up(Hourly)



N= 3352.	Mean	(StdDev)
Cave SW Sfc UP	0.000(	0.000)
SYNI SW Sfc UP	0.162(	0.834)
Y-X	0.162(	0.834)
RMS(	0.849).....	

Tuned SFC SW Up(Daily)



N= 84.	Mean	(StdDev)
Cave SW Sfc UP	0.000(	0.000)
SYNI SW Sfc UP	0.081(	0.175)
Y-X	0.081(	0.175)
RMS(	0.192).....	

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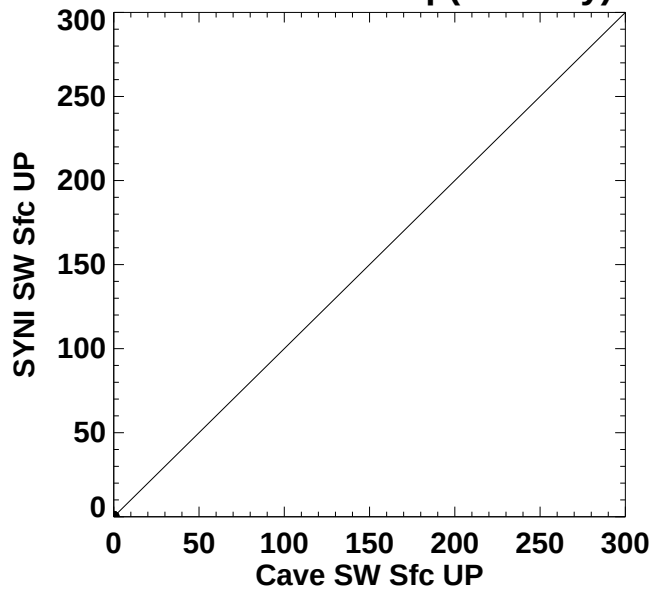
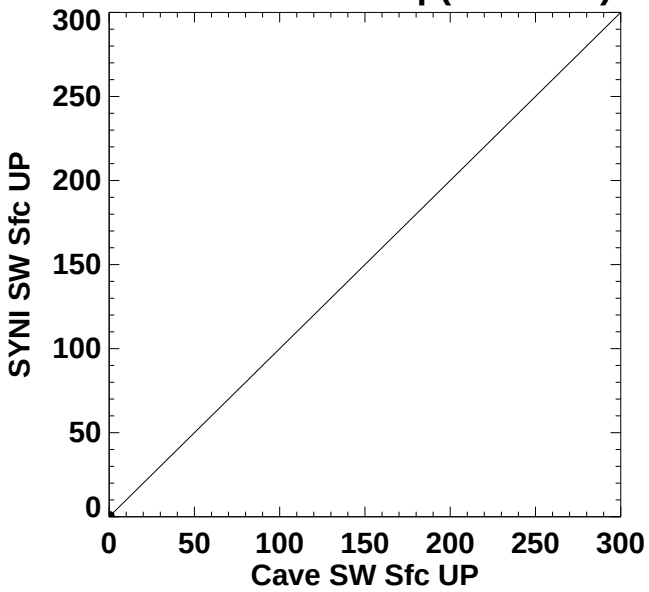
Tuned SFC SW Up(Monthly)



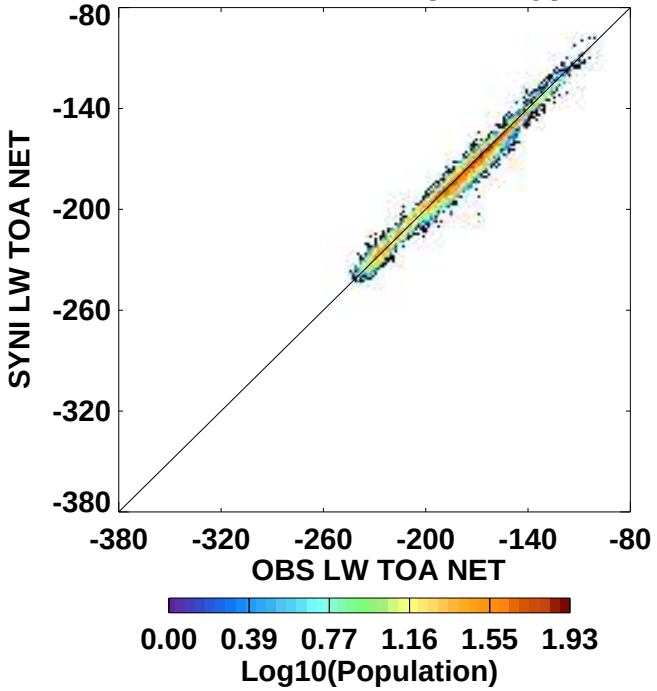
N= 3.	Mean	(StdDev)
Cave SW Sfc UP	0.000(	0.000)
SYNI SW Sfc UP	0.081(	0.007)
Y-X	0.081(	0.007)
RMS(	0.081).....	

Tuned SFC SW Up(YEARLY)



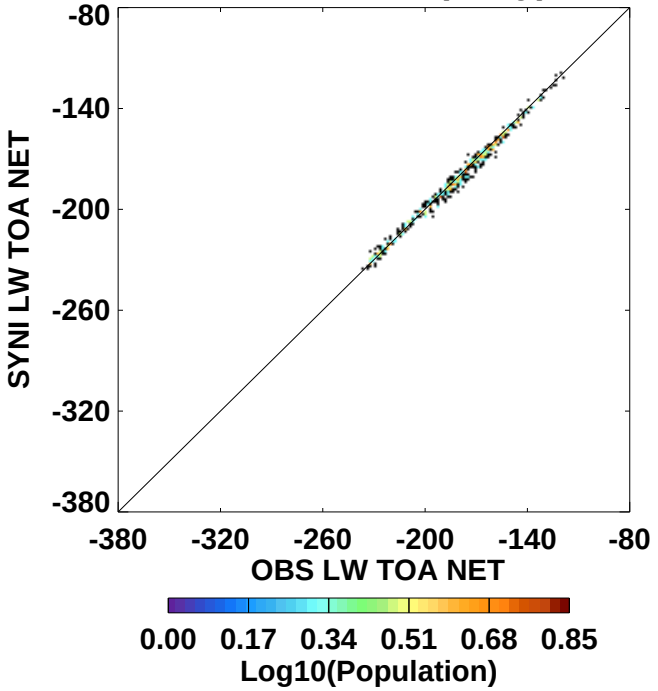
N= 1.	Mean	(StdDev)
Cave SW Sfc UP	0.000(	-999.0)
SYNI SW Sfc UP	0.081(	-999.0)
Y-X	0.081(	-999.0)
RMS(	-999.0).....	

TOA LW NET(Hourly)



N= 14009.	Mean	(StdDev)
OBS LW TOA NET	-180.8(	27.67)
SYNI LW TOA NET	-181.7(	26.94)
Y-X	-0.880(	3.72)
RMS(	3.82).....	

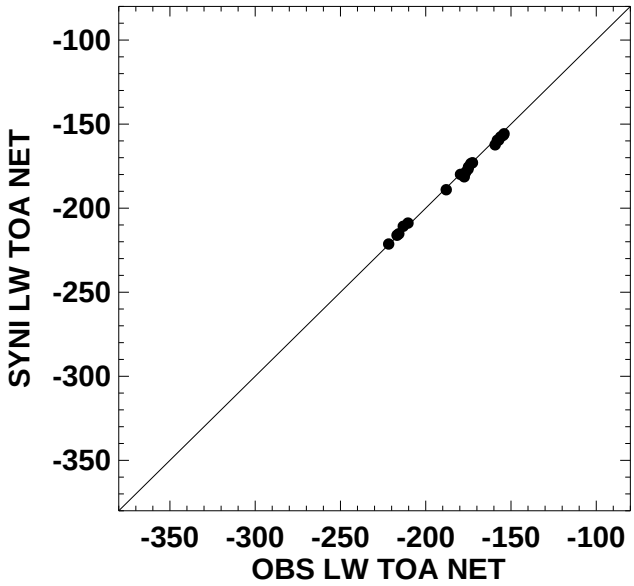
TOA LW NET(Daily)



N= 581.	Mean	(StdDev)
OBS LW TOA NET	-180.9(	26.57)
SYNI LW TOA NET	-181.7(	25.78)
Y-X	-0.877(	2.65)
RMS(	2.79).....	

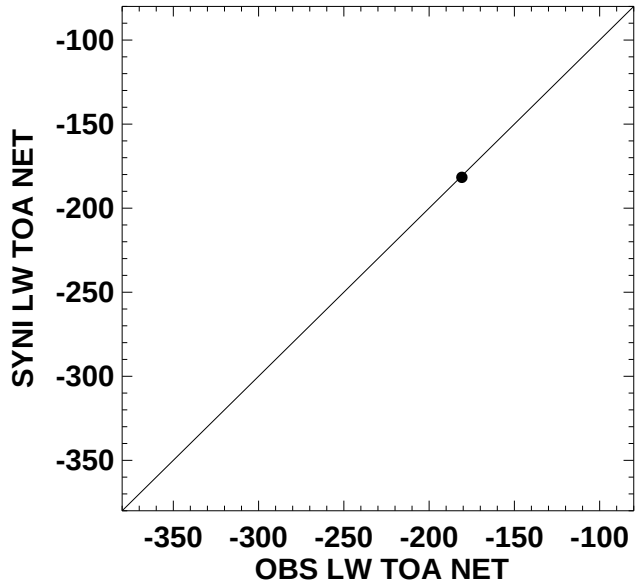
SYNI Beta4 FM1 2000:2005 /Jan,Apr,Jul,Oct: FM1 (STS validation subset)
SYO-69.000 39.580 Syowa, Antarctic

TOA LW NET(Monthly)



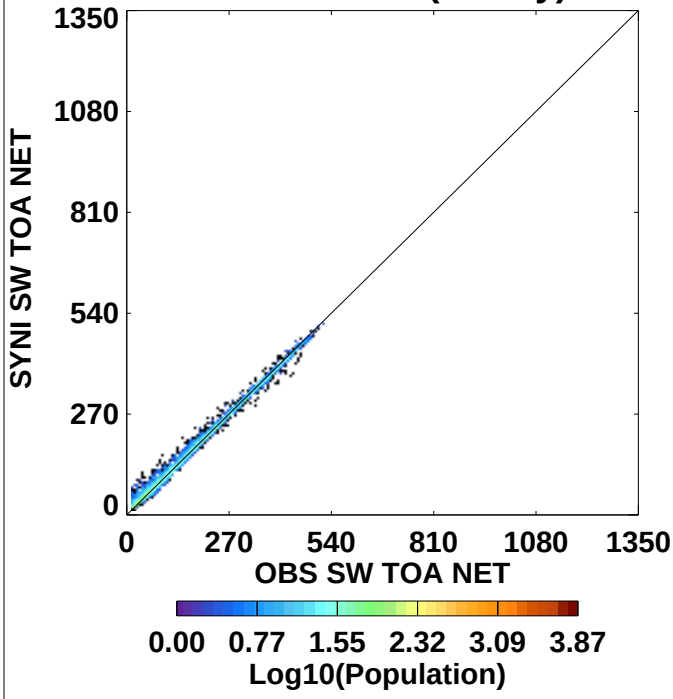
N= 19.	Mean	(StdDev)
OBS LW TOA NET	-180.8(	23.49)
SYNI LW TOA NET	-181.7(	22.32)
Y-X	-0.884(	1.59)
RMS(	1.78).....	

TOA LW NET(YEARLY)



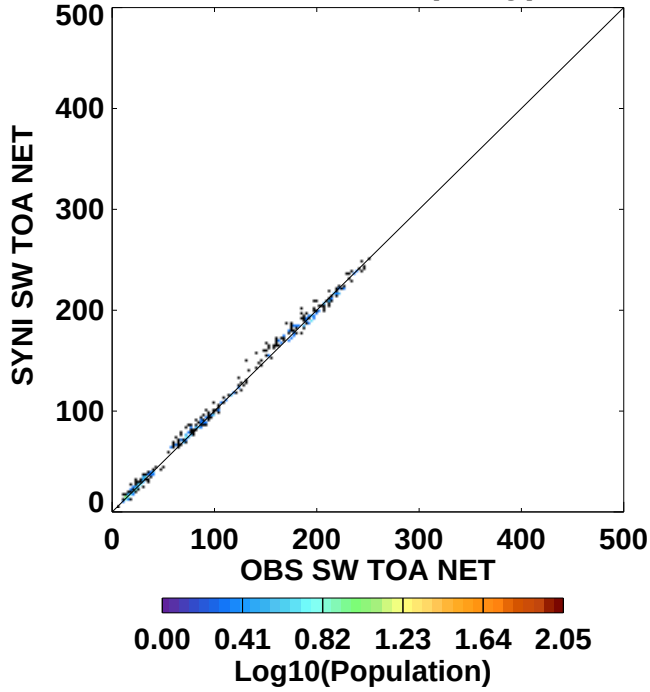
N= 1.	Mean	(StdDev)
OBS LW TOA NET	-180.8(	-999.0)
SYNI LW TOA NET	-181.7(	-999.0)
Y-X	-0.884(	-999.0)
RMS(	-999.0).....	

SW TOA NET(Hourly)



N= 13654.	Mean	(StdDev)
OBS SW TOA NET	74.59(	117.7)
SYNI SW TOA NET	75.76(	116.9)
Y-X	1.17(	6.92)
RMS(	7.02).....	

SW TOA NET(Daily)



N= 509.	Mean	(StdDev)
OBS SW TOA NET	82.74(	79.53)
SYNI SW TOA NET	84.15(	79.74)
Y-X	1.41(	3.93)
RMS(	4.17).....	

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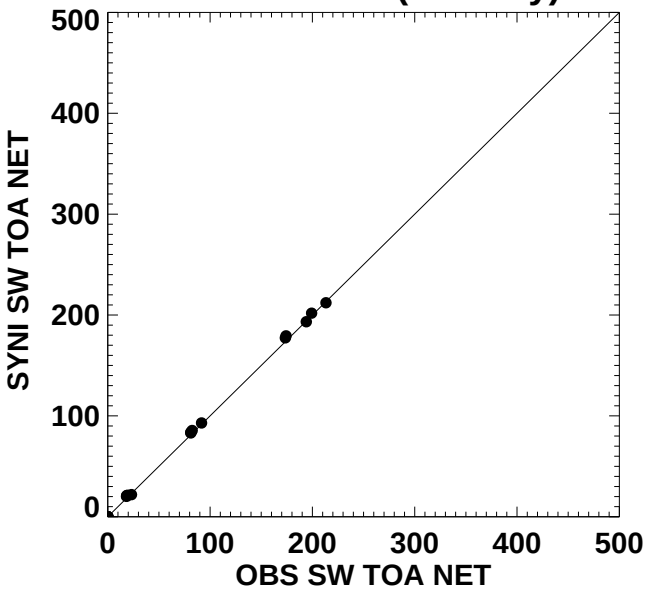
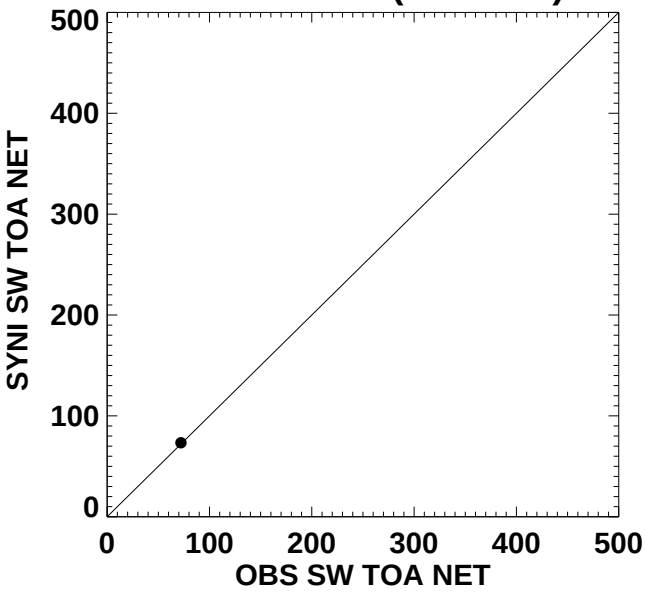
SW TOA NET(Monthly)



N= 19.	Mean	(StdDev)
OBS SW TOA NET	72.11(	79.75)
SYNI SW TOA NET	73.35(	80.33)
Y-X	1.24(	1.77)
RMS(	2.12).....	

SW TOA NET(YEARLY)



N= 1.	Mean	(StdDev)
OBS SW TOA NET	72.11(	-999.0)
SYNI SW TOA NET	73.35(	-999.0)
Y-X	1.24(	-999.0)
RMS(	-999.0).....	

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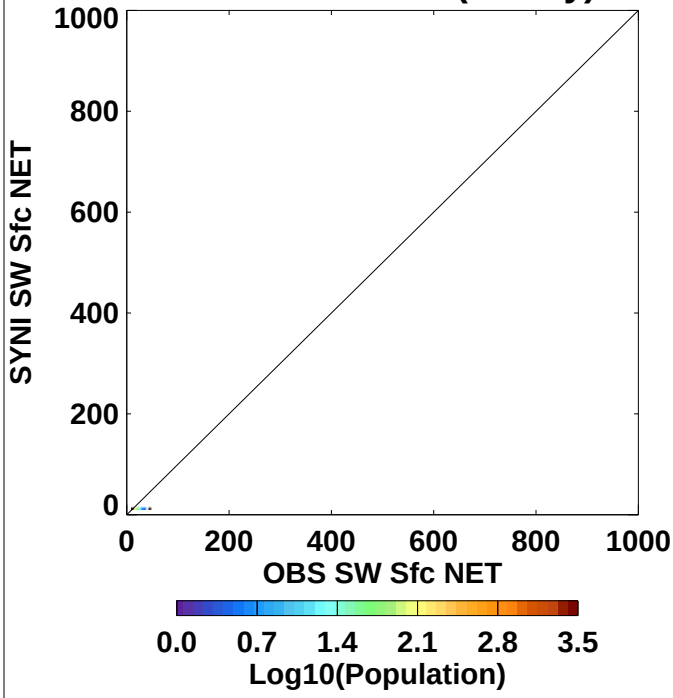
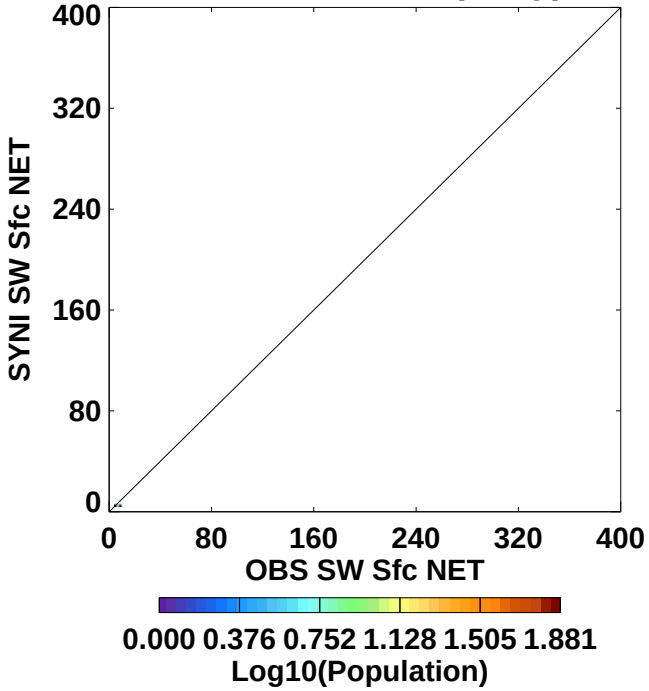
SW Surface NET(Hourly)



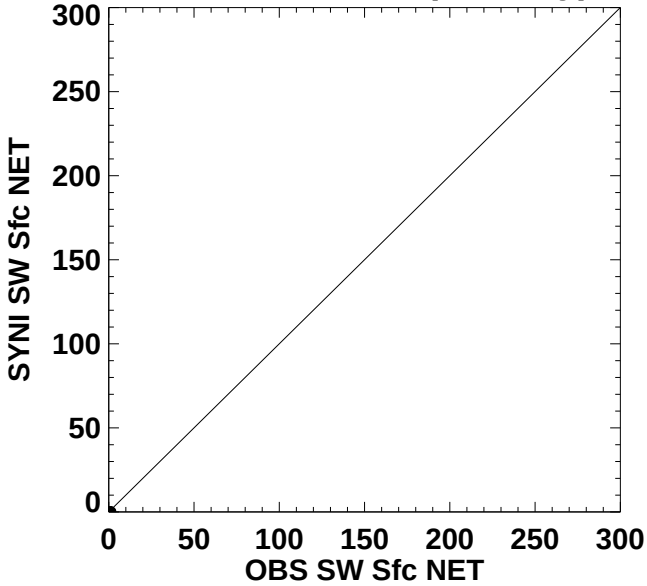
N= 3352.	Mean	(StdDev)
OBS SW Sfc NET	0.929	(2.83)
SYNI SW Sfc NET	0.061	(0.311)
Y-X	-0.868	(2.60)
RMS(	2.74).....	

SW Surface NET(Daily)



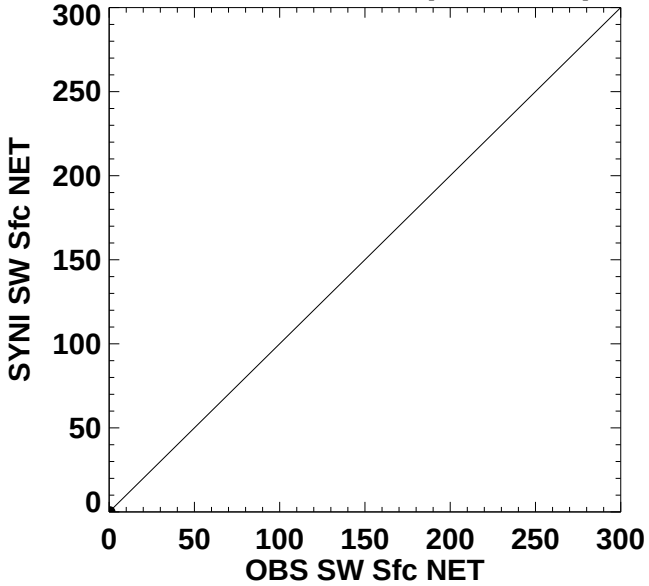
N= 84.	Mean	(StdDev)
OBS SW Sfc NET	0.945	(0.834)
SYNI SW Sfc NET	0.040	(0.087)
Y-X	-0.904	(0.770)
RMS(	1.18).....	

SW Surface NET(Monthly)



N= 3.	Mean	(StdDev)
OBS SW Sfc NET	0.927	(0.181)
SYNI SW Sfc NET	0.040	(0.004)
Y-X	-0.887	(0.177)
RMS(	0.899).....	

SW Surface NET(YEARLY)



N= 1.	Mean	(StdDev)
OBS SW Sfc NET	0.384	(-999.0)
SYNI SW Sfc NET	0.040	(-999.0)
Y-X	-0.344	(-999.0)
RMS(	-999.0).....	

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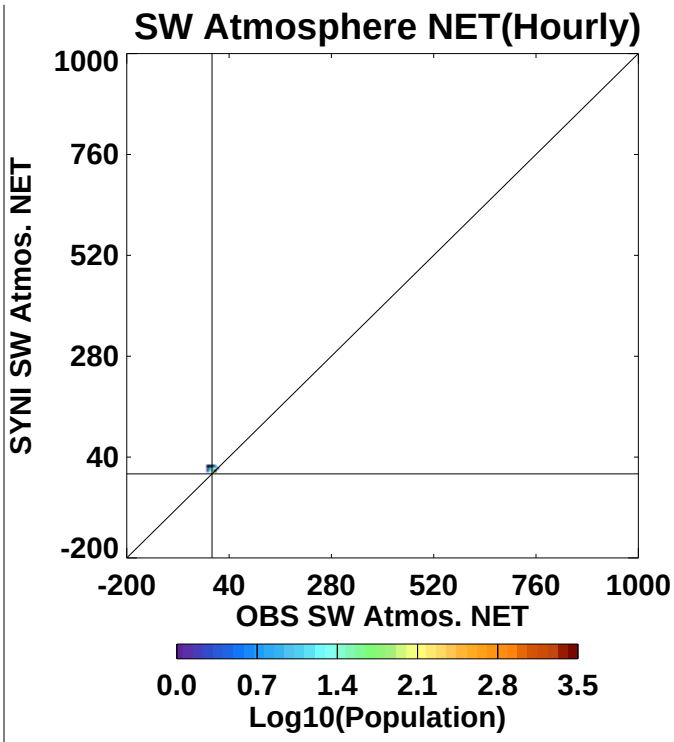
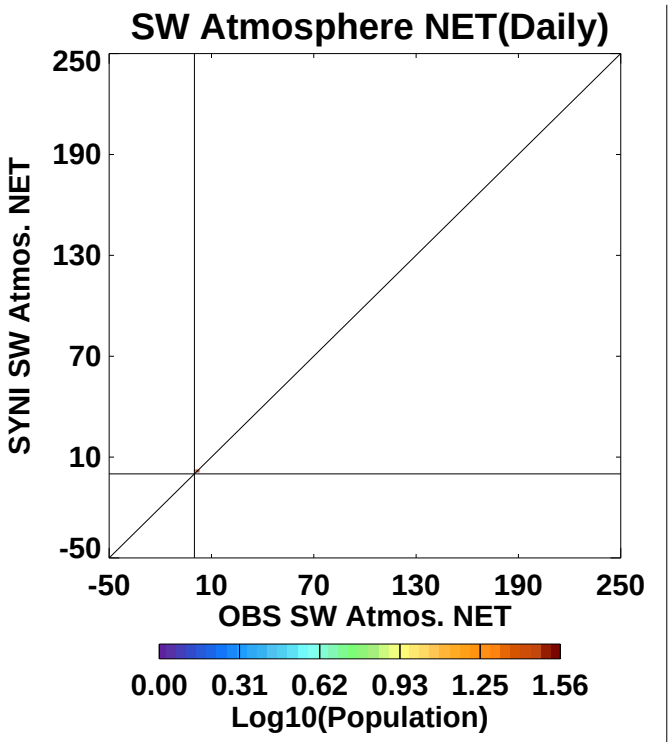


N= 3244.	Mean	(StdDev)
OBS SW Atmos. NET	-0.471(	1.54)
SYNI SW Atmos. NET	0.188(	1.08)
Y-X	0.659(	2.19)
RMS(	2.29).....	



N= 57.	Mean	(StdDev)
OBS SW Atmos. NET	-0.537(	0.374)
SYNI SW Atmos. NET	0.000(	0.000)
Y-X	0.537(	0.374)
RMS(	0.652).....	

SYNI Beta4 FM1 2000:2005 /Jan,Apr,Jul,Oct: FM1 (STS validation subset)
SYO-69.000 39.580 Syowa, Antarctic