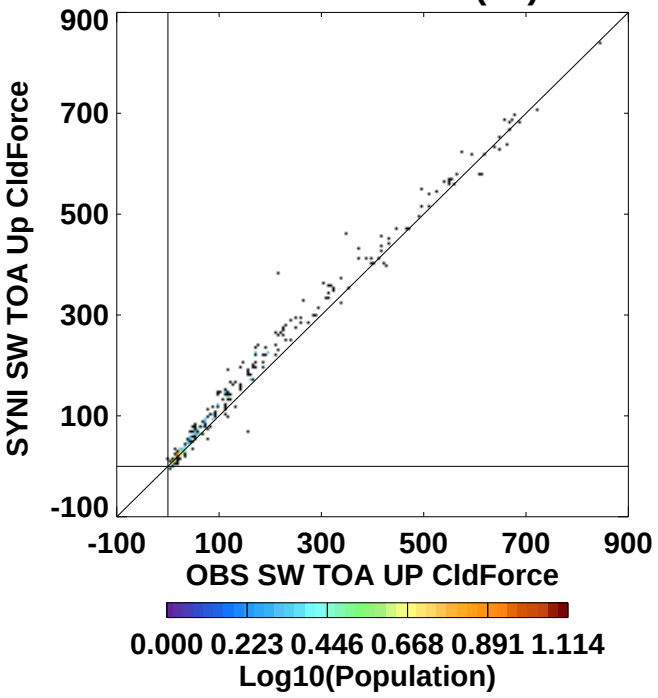
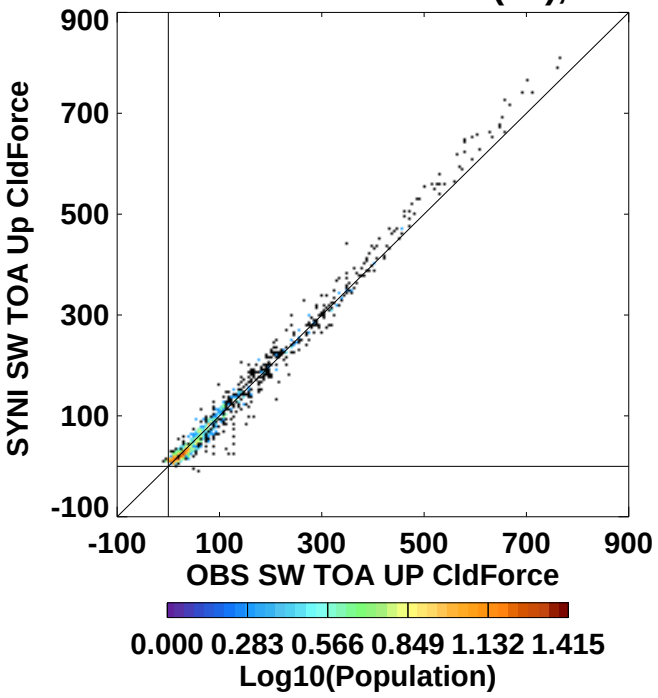
SYNI Beta3 Year 2002: Spatial Subset (aka STS) AllSky NAU

CldFor UT TOA SW UP(Hr)CERES



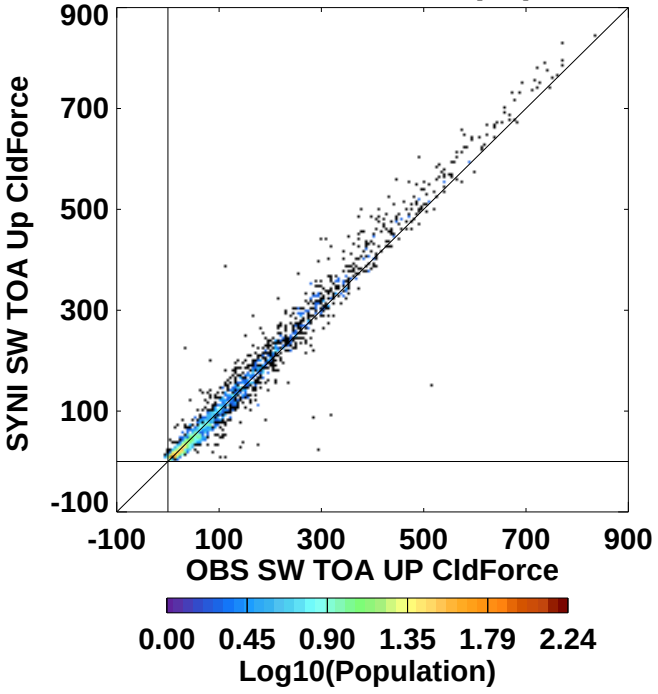
N= 297.	Mean	(StdDev)
OBS SW TOA UP CldForce	159.6(	189.4)
SYNI SW TOA Up CldForce	172.7(	193.8)
Y-X	13.14(	22.22)
RMS(	25.78).....	

CldFor UT TOA SW UP(Hr),GEO



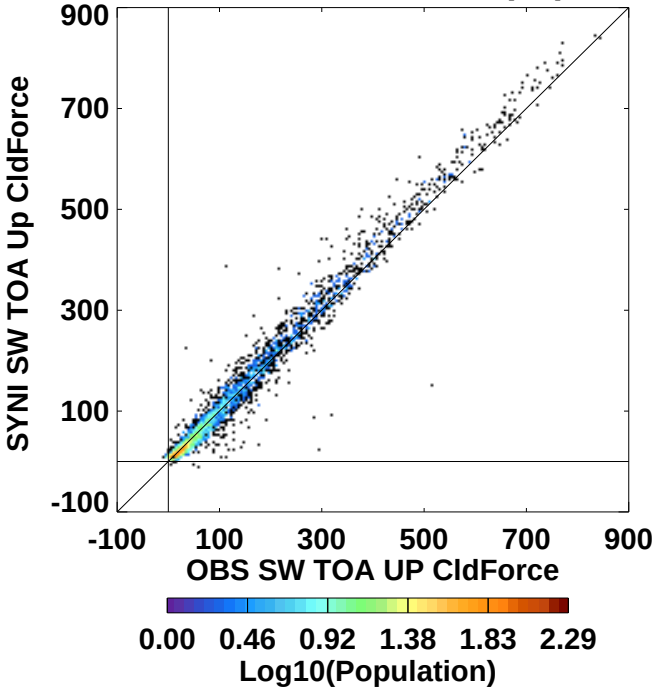
N= 1176.	Mean	(StdDev)
OBS SW TOA UP CldForce	109.1(	136.5)
SYNI SW TOA Up CldForce	110.0(	142.9)
Y-X	0.932(	17.69)
RMS(	17.70).....	

CldFor UT TOA SW UP(Hr)INTERP



N= 2540.	Mean	(StdDev)
OBS SW TOA UP CldForce	119.0(	145.9)
SYNI SW TOA Up CldForce	123.5(	154.4)
Y-X	4.49(	24.94)
RMS(	25.33).....	

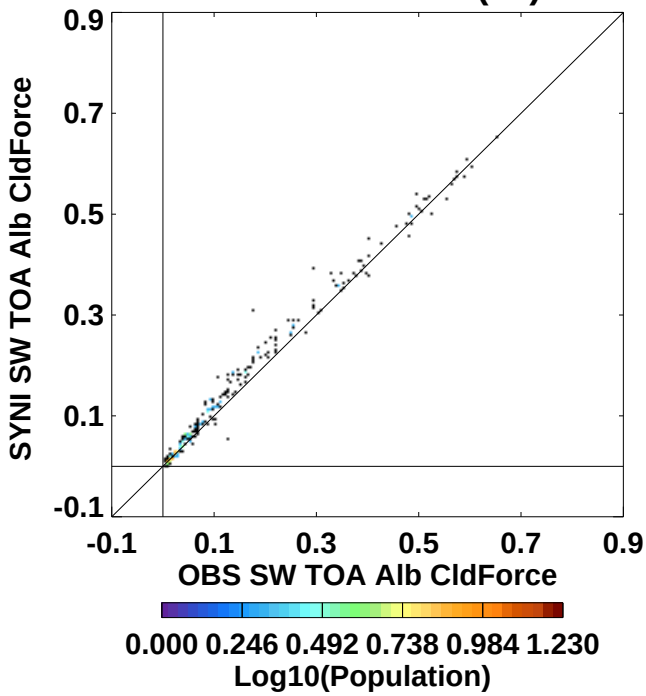
CldFor UT TOA SW UP(Hr)ALL



N= 4013.	Mean	(StdDev)
OBS SW TOA UP CldForce	119.1(	147.4)
SYNI SW TOA Up CldForce	123.2(	155.1)
Y-X	4.09(	23.04)
RMS(	23.39).....	

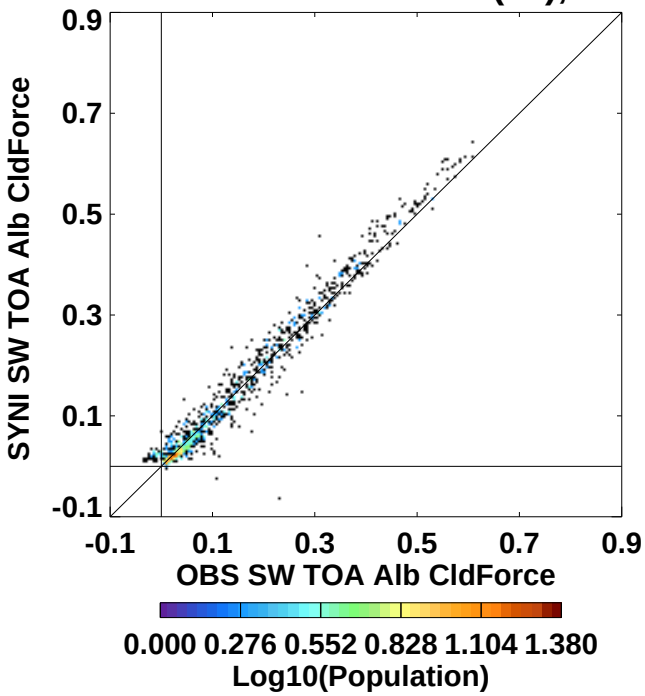
SYNI Beta3 Year 2002: Spatial Subset (aka STS) AllSky NAU

CldFor UT TOA SWALB(Hr)CERES



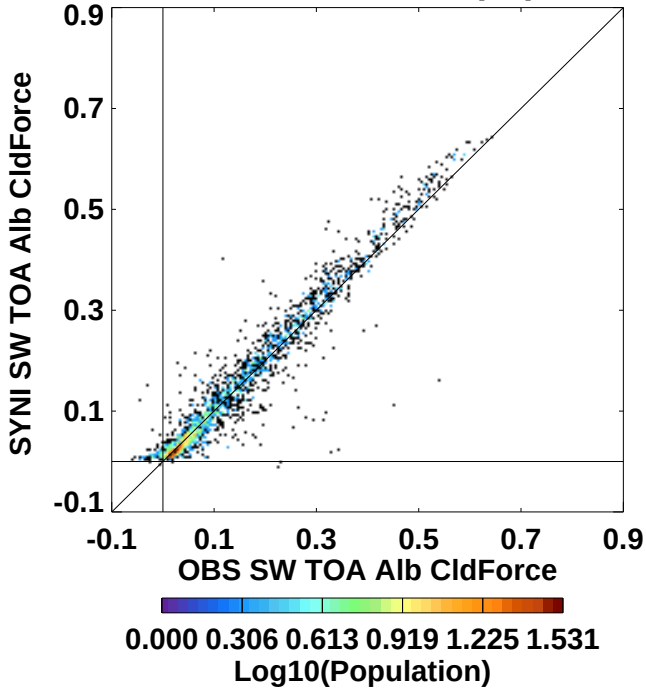
N= 297.	Mean	(StdDev)
OBS SW TOA Alb CldForce	0.133(	0.158)
SYNI SW TOA Alb CldForce	0.144(	0.162)
Y-X	0.011(	0.018)
RMS(	0.022).....	

CldFor UT TOA SWALB(Hr),GEO



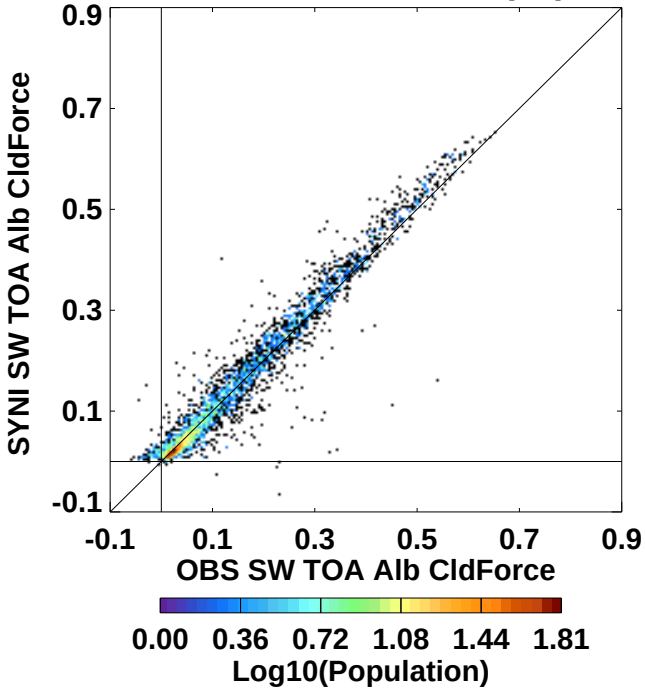
N= 1176.	Mean	(StdDev)
OBS SW TOA Alb CldForce	0.140(	0.142)
SYNI SW TOA Alb CldForce	0.144(	0.149)
Y-X	0.004(	0.026)
RMS(	0.027).....	

CldFor UT TOA SWALB(Hr)INTERP



N= 2539.	Mean	(StdDev)
OBS SW TOA Alb CldForce	0.140(	0.140)
SYNI SW TOA Alb CldForce	0.144(	0.146)
Y-X	0.005(	0.035)
RMS(	0.035).....	

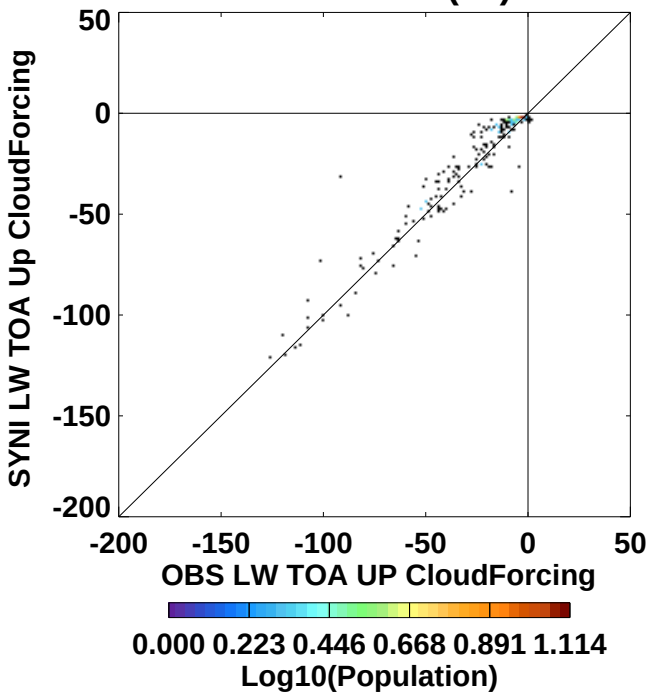
CldFor UT TOA SWALB(Hr)ALL



N= 4012.	Mean	(StdDev)
OBS SW TOA Alb CldForce	0.139(	0.142)
SYNI SW TOA Alb CldForce	0.144(	0.148)
Y-X	0.005(	0.032)
RMS(	0.032).....	

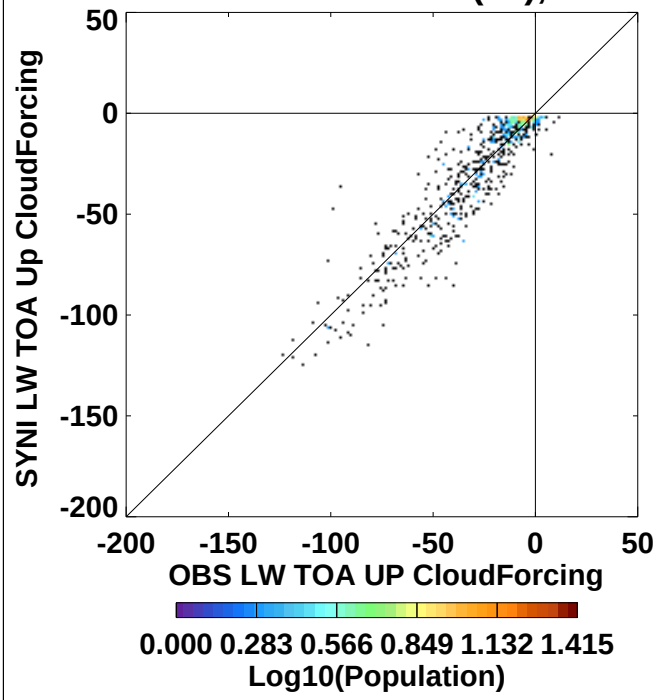
SYNI Beta3 Year 2002: Spatial Subset (aka STS) AllSky NAU

CldForced TOA LW(Hr)CERES



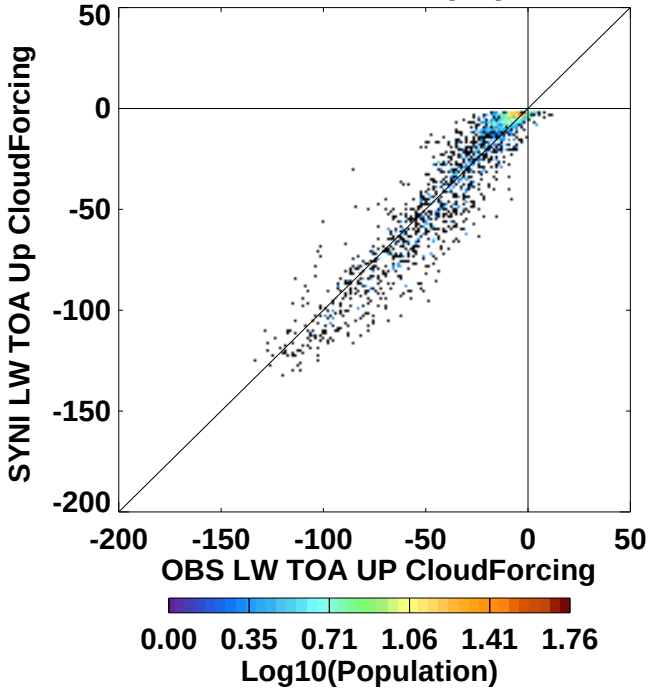
N= 220.	Mean	(StdDev)
OBS LW TOA UP CloudForcing	-26.61	(29.27)
SYNI LW TOA Up CloudForcing	-23.69	(29.19)
Y-X	2.91	(7.68)
RMS(	8.20).....	

CldForced TOA LW(Hr),GEO



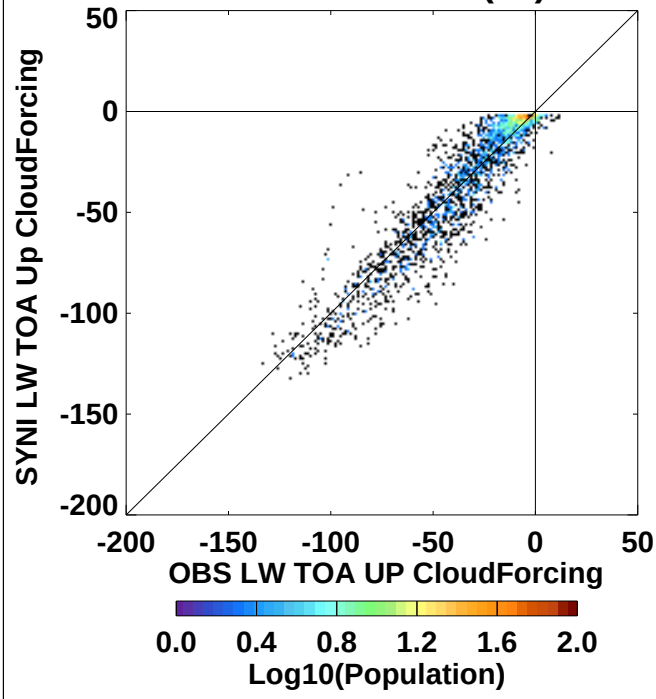
N= 830.	Mean	(StdDev)
OBS LW TOA UP CloudForcing	-23.72	(25.36)
SYNI LW TOA Up CloudForcing	-23.97	(28.17)
Y-X	-0.251	(10.09)
RMS(	10.08).....	

CldForced TOA LW(Hr)INTERP



N= 1905.	Mean	(StdDev)
OBS LW TOA UP CloudForcing	-30.64	(30.09)
SYNI LW TOA Up CloudForcing	-31.25	(33.63)
Y-X	-0.606	(10.71)
RMS(	10.73).....	

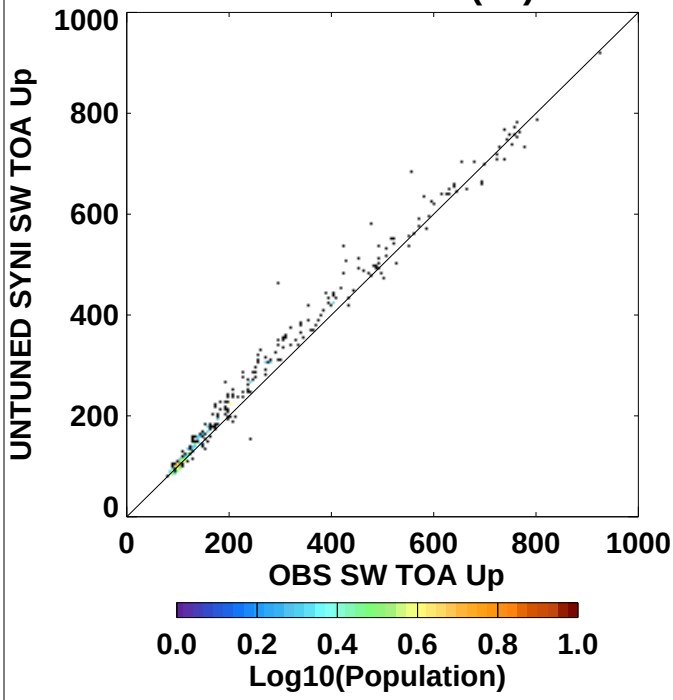
CldForced TOA LW(Hr)ALL



N= 2955.	Mean	(StdDev)
OBS LW TOA UP CloudForcing	-28.40	(28.93)
SYNI LW TOA Up CloudForcing	-28.64	(32.05)
Y-X	-0.245	(10.38)
RMS(	10.38).....	

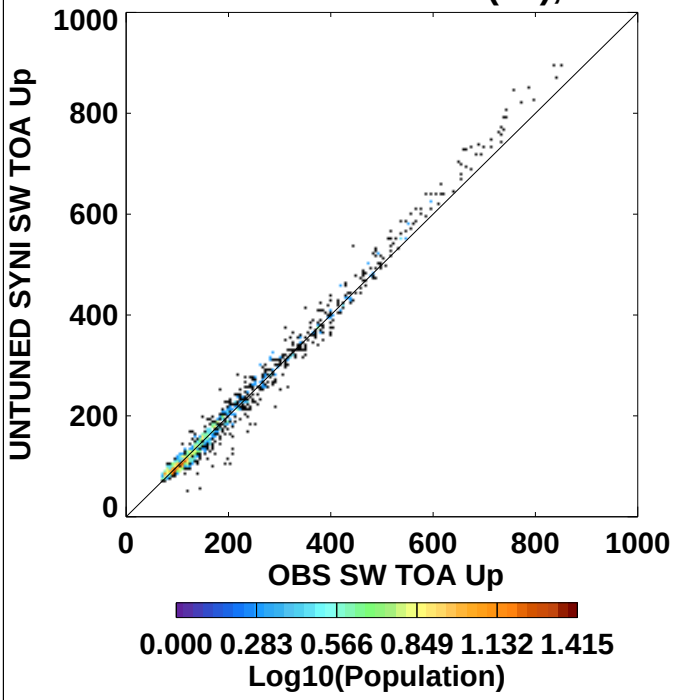
SYNI Beta3 Year 2002: Spatial Subset (aka STS) AllSky NAU

Untuned TOA SW UP(Hr)CERES



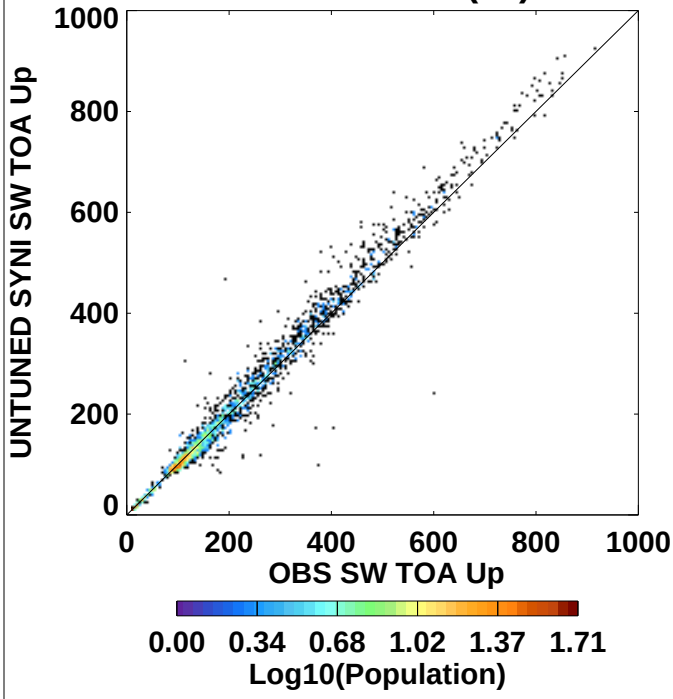
N= 321.	Mean	(StdDev)
OBS SW TOA Up	260.0(	199.6)
UNTUNED SYNI SW TOA Up	273.7(	203.6)
Y-X	13.69(	24.02)
RMS(	27.61).....	

Untuned TOA SW UP(Hr),GEO



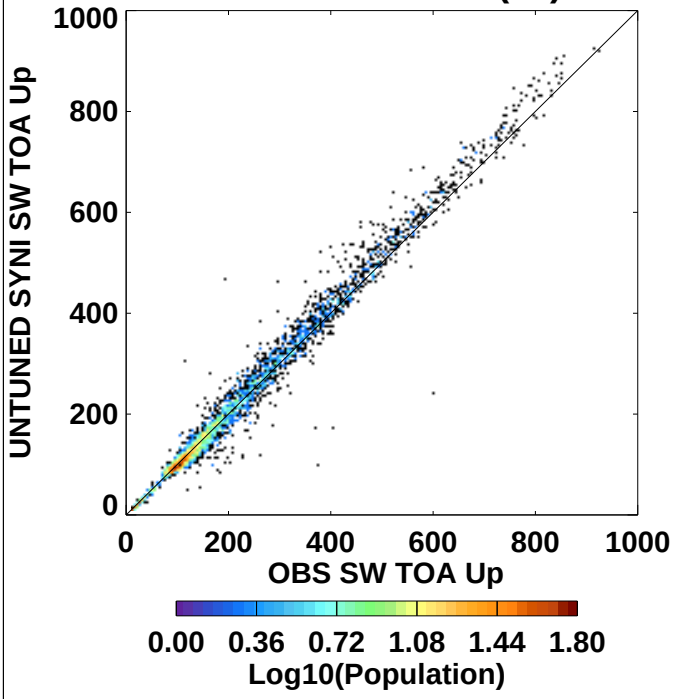
N= 1269.	Mean	(StdDev)
OBS SW TOA Up	201.5(	148.1)
UNTUNED SYNI SW TOA Up	203.3(	155.4)
Y-X	1.79(	18.17)
RMS(	18.25).....	

Untuned TOA SW UP(Hr)INTERP



N= 2755.	Mean	(StdDev)
OBS SW TOA Up	206.1(	164.3)
UNTUNED SYNI SW TOA Up	211.4(	172.8)
Y-X	5.24(	24.78)
RMS(	25.32).....	

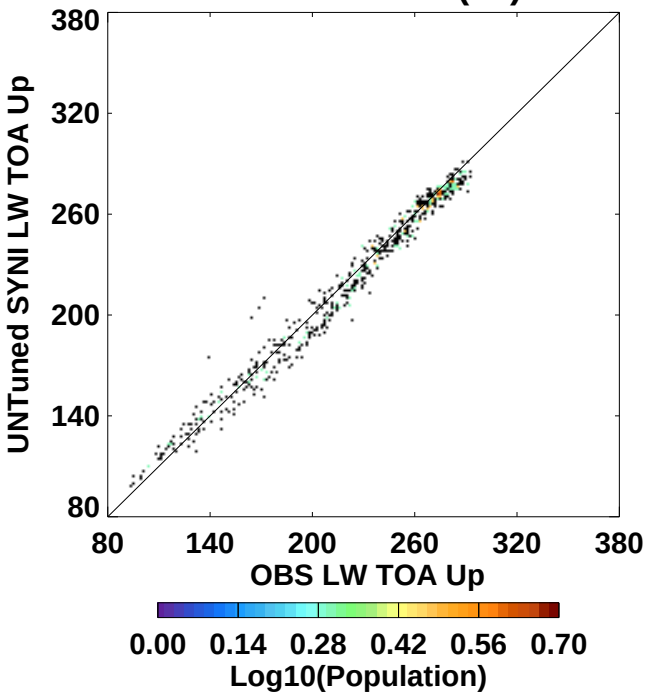
Untuned TOA SW UP(Hr)ALL



N= 4345.	Mean	(StdDev)
OBS SW TOA Up	208.8(	163.3)
UNTUNED SYNI SW TOA Up	213.6(	171.3)
Y-X	4.86(	23.17)
RMS(	23.67).....	

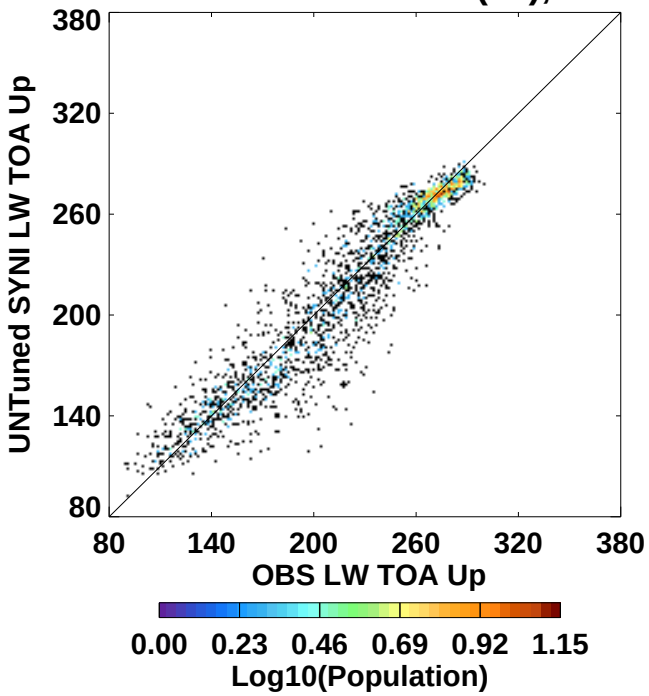
SYNI Beta3 Year 2002: Spatial Subset (aka STS) AllSky NAU

UNTuned TOA LW UP(Hr)CERES



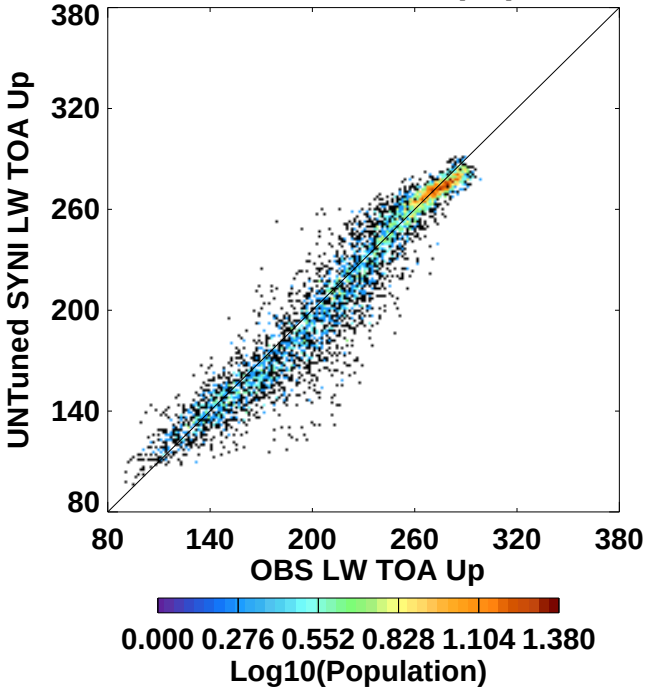
N= 638.	Mean	(StdDev)
OBS LW TOA Up	223.4(	52.06)
UNTuned SYNI LW TOA Up	220.9(	50.76)
Y-X	-2.47(	7.19)
RMS(	7.60).....	

UNTuned TOA LW UP(Hr),GEO



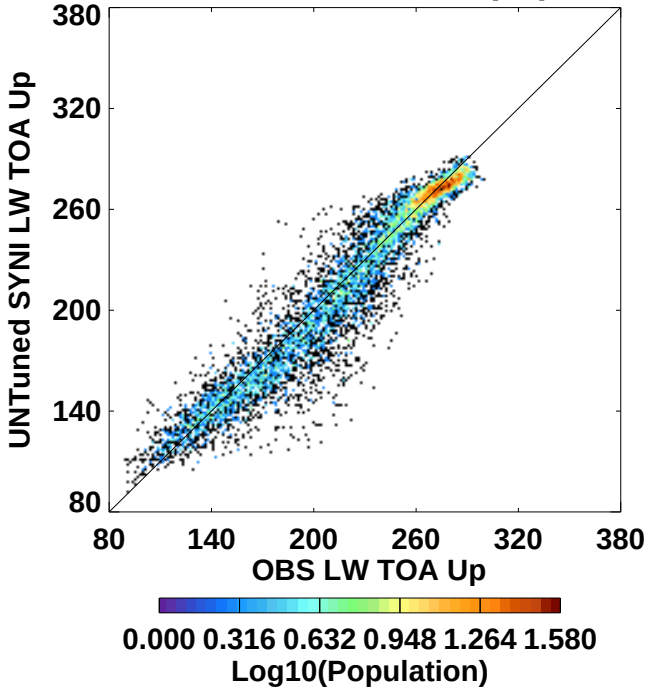
N= 2582.	Mean	(StdDev)
OBS LW TOA Up	221.9(	52.23)
UNTuned SYNI LW TOA Up	219.0(	53.33)
Y-X	-2.96(	15.98)
RMS(	16.25).....	

UNTuned TOA LW UP(Hr)INTERP



N= 5534.	Mean	(StdDev)
OBS LW TOA Up	221.2(	50.46)
UNTuned SYNI LW TOA Up	217.6(	52.08)
Y-X	-3.60(	13.73)
RMS(	14.19).....	

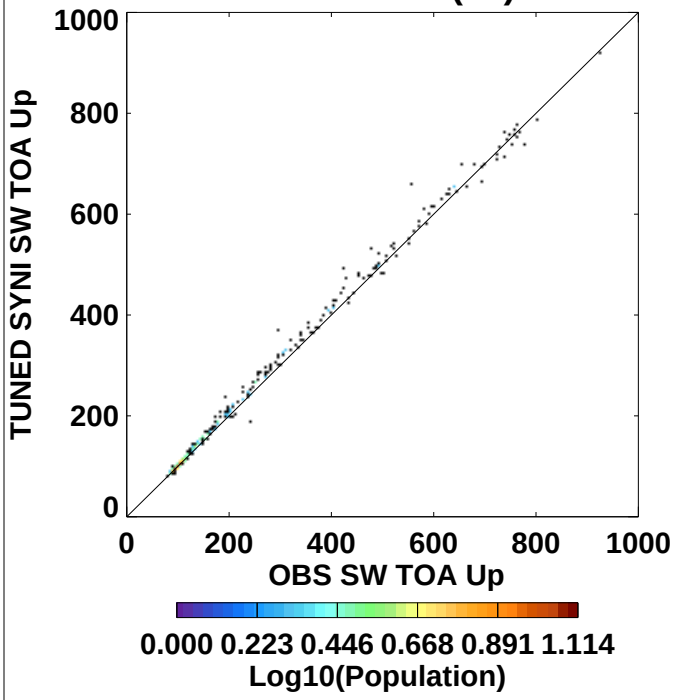
UNTuned TOA LW UP(Hr)ALL



N= 8754.	Mean	(StdDev)
OBS LW TOA Up	221.6(	51.10)
UNTuned SYNI LW TOA Up	218.2(	52.36)
Y-X	-3.33(	14.08)
RMS(	14.47).....	

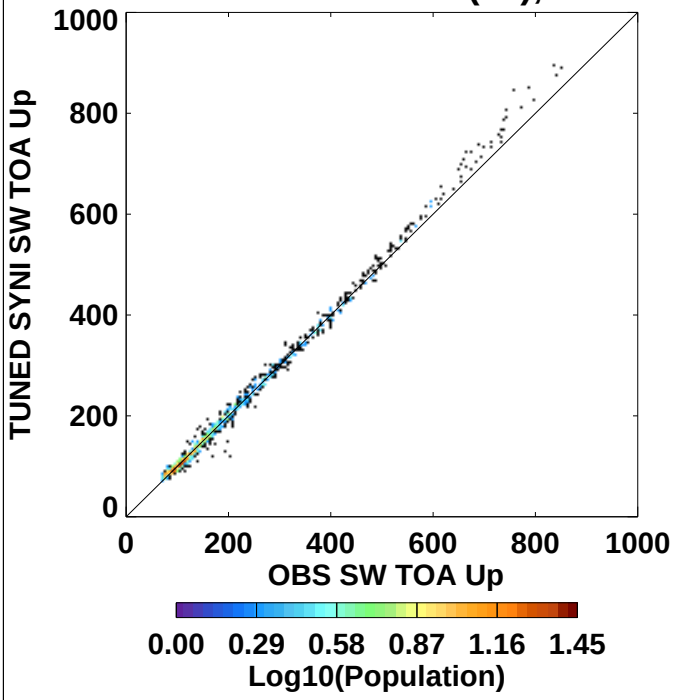
SYNI Beta3 Year 2002: Spatial Subset (aka STS) AllSky NAU

Tuned TOA SW UP(Hr)CERES



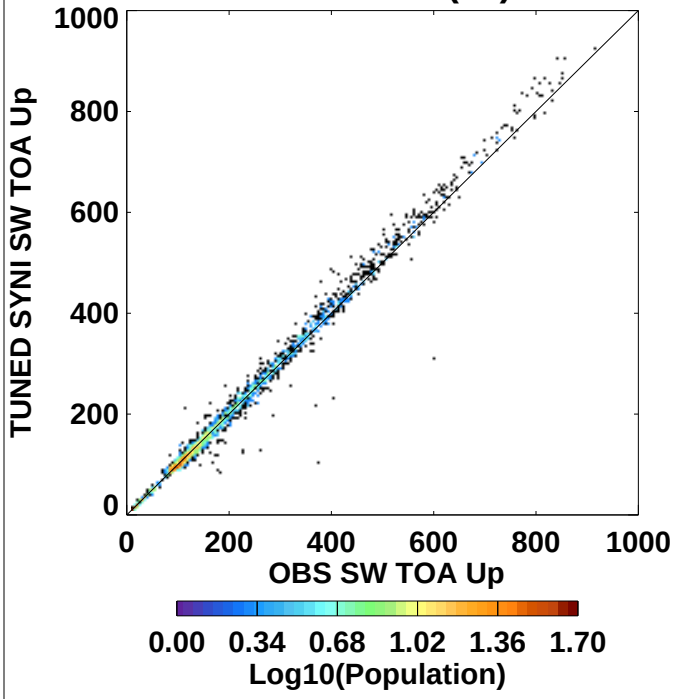
N= 321.	Mean	(StdDev)
OBS SW TOA Up	260.0(	199.6)
TUNED SYNI SW TOA Up	266.7(	201.9)
Y-X	6.76(	13.37)
RMS(	14.96).....	

Tuned TOA SW UP(Hr),GEO



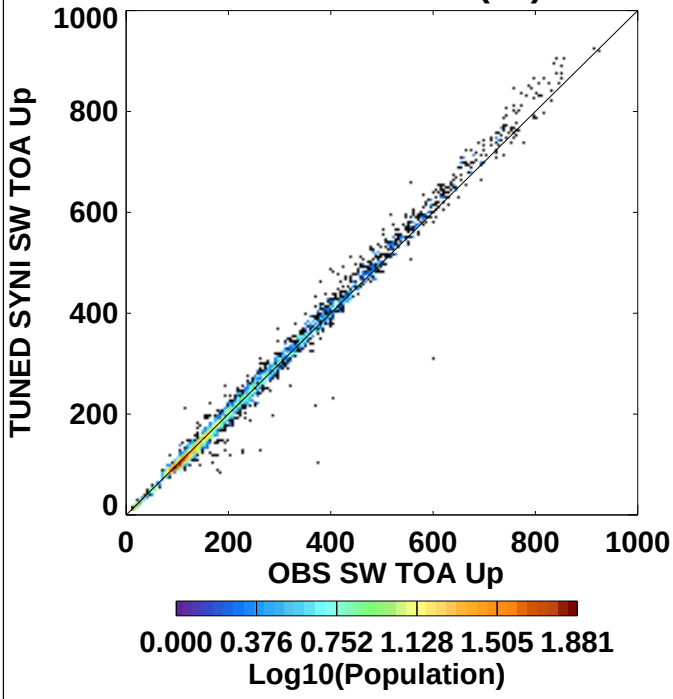
N= 1269.	Mean	(StdDev)
OBS SW TOA Up	201.5(	148.1)
TUNED SYNI SW TOA Up	203.2(	152.9)
Y-X	1.68(	11.19)
RMS(	11.31).....	

Tuned TOA SW UP(Hr)INTERP



N= 2755.	Mean	(StdDev)
OBS SW TOA Up	206.1(	164.3)
TUNED SYNI SW TOA Up	208.8(	169.5)
Y-X	2.68(	16.70)
RMS(	16.91).....	

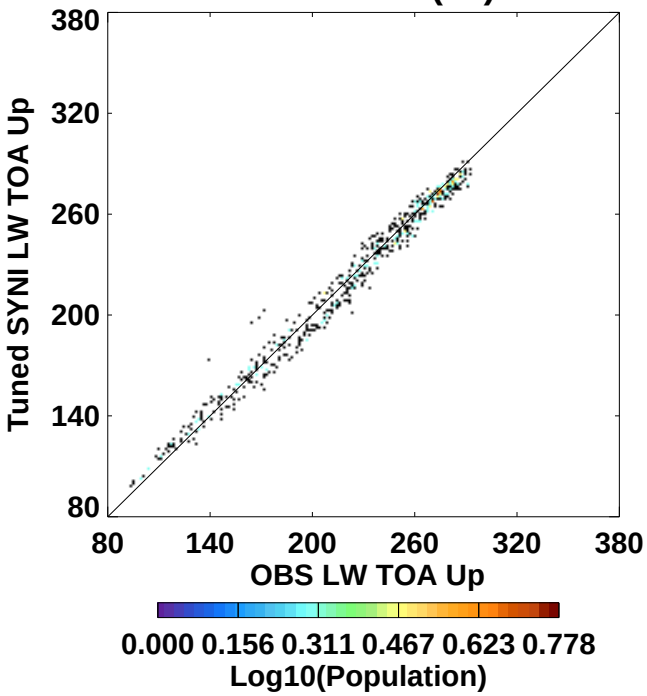
Tuned TOA SW UP(Hr)ALL



N= 4345.	Mean	(StdDev)
OBS SW TOA Up	208.8(	163.3)
TUNED SYNI SW TOA Up	211.4(	168.2)
Y-X	2.69(	15.10)
RMS(	15.34).....	

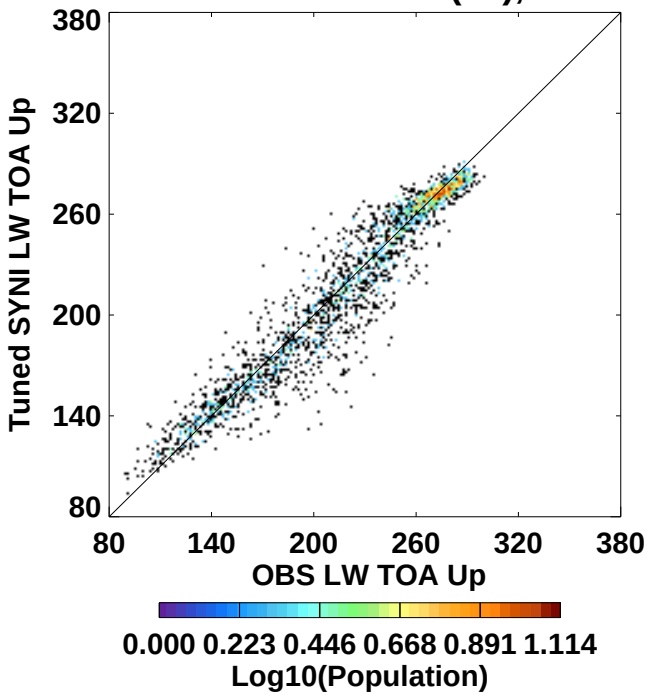
SYNI Beta3 Year 2002: Spatial Subset (aka STS) AllSky NAU

Tuned TOA LW UP(Hr)CERES



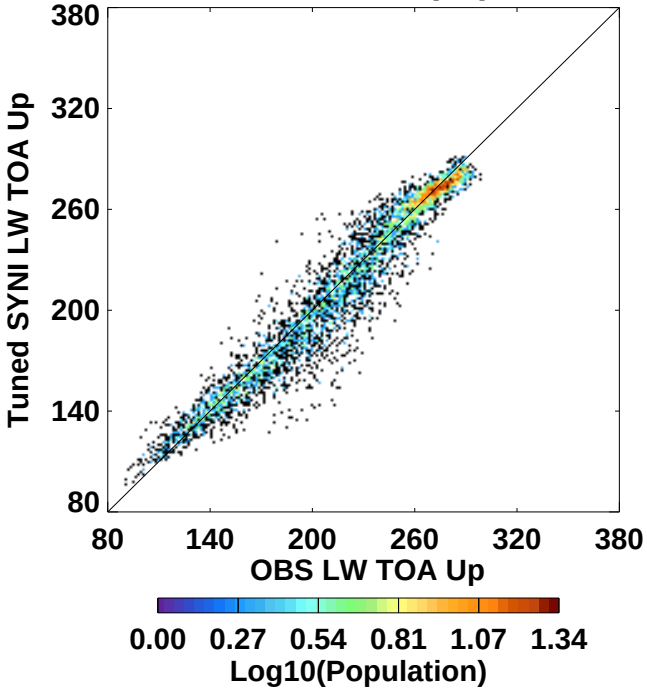
N= 638.	Mean	(StdDev)
OBS LW TOA Up	223.4	(52.06)
Tuned SYNI LW TOA Up	221.9	(50.61)
Y-X	-1.46	(6.53)
RMS(	6.68).....	

Tuned TOA LW UP(Hr),GEO



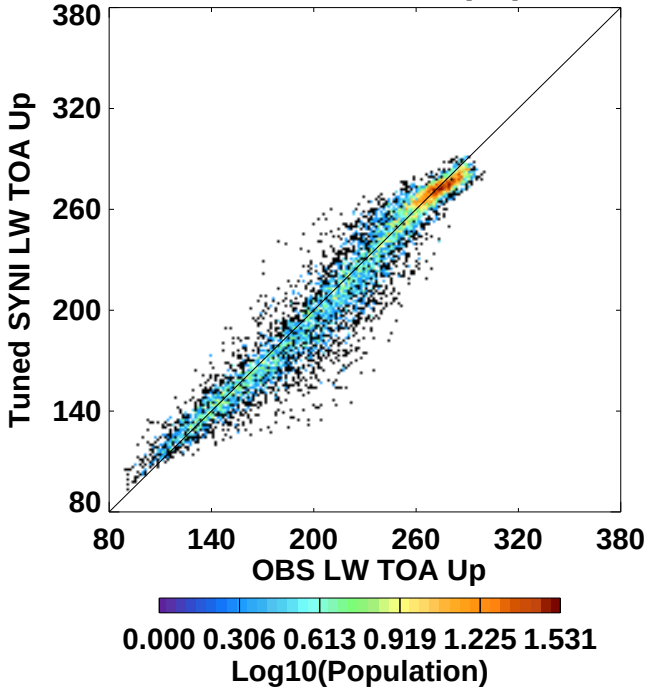
N= 2582.	Mean	(StdDev)
OBS LW TOA Up	221.9	(52.23)
Tuned SYNI LW TOA Up	219.8	(52.40)
Y-X	-2.16	(13.54)
RMS(	13.70).....	

Tuned TOA LW UP(Hr)INTERP



N= 5534.	Mean	(StdDev)
OBS LW TOA Up	221.2	(50.46)
Tuned SYNI LW TOA Up	218.6	(51.09)
Y-X	-2.57	(11.91)
RMS(	12.18).....	

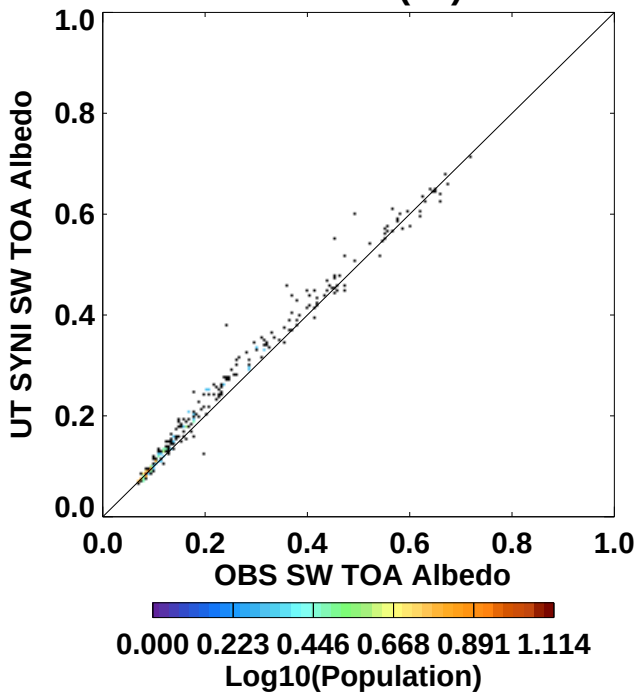
Tuned TOA LW UP(Hr)ALL



N= 8754.	Mean	(StdDev)
OBS LW TOA Up	221.6	(51.10)
Tuned SYNI LW TOA Up	219.2	(51.45)
Y-X	-2.37	(12.12)
RMS(	12.35).....	

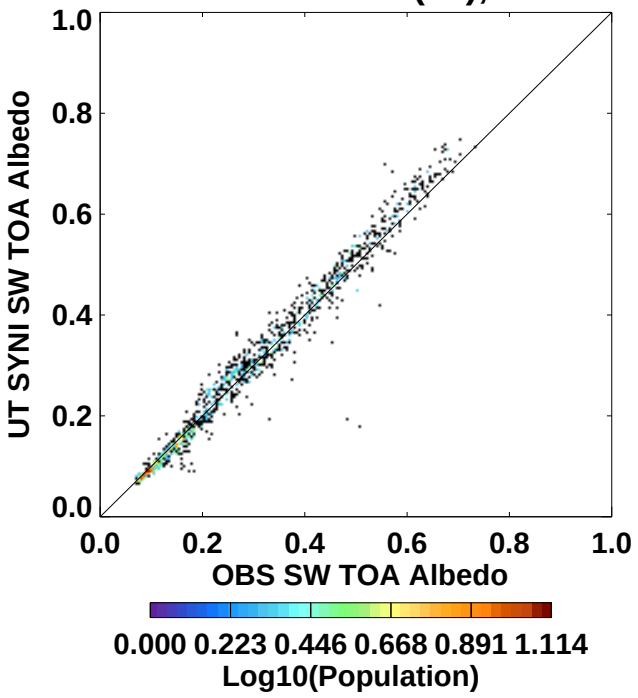
SYNI Beta3 Year 2002: Spatial Subset (aka STS) AllSky NAU

UT TOA Albedo(Hr)CERES



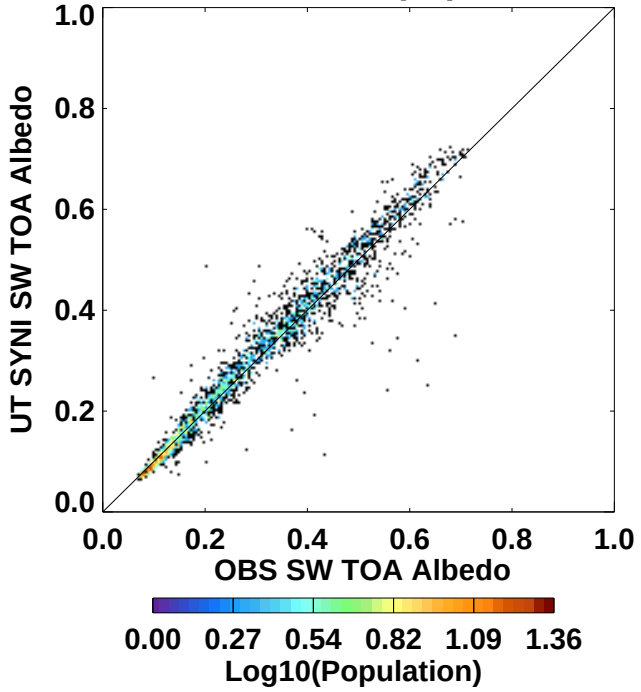
N= 321.	Mean	(StdDev)
OBS SW TOA Albedo	0.217(	0.167)
UT SYNI SW TOA Albedo	0.229(	0.170)
Y-X	0.012(	0.020)
RMS(	0.023).....	

UT TOA Albedo(Hr),GEO



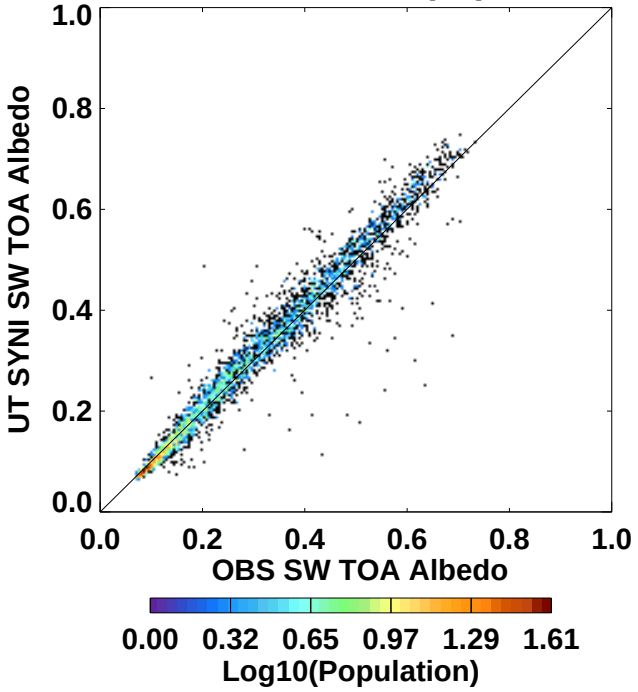
N= 1269.	Mean	(StdDev)
OBS SW TOA Albedo	0.290(	0.167)
UT SYNI SW TOA Albedo	0.295(	0.176)
Y-X	0.005(	0.028)
RMS(	0.028).....	

UT TOA Albedo(Hr)INTERP



N= 2755.	Mean	(StdDev)
OBS SW TOA Albedo	0.289(	0.164)
UT SYNI SW TOA Albedo	0.295(	0.169)
Y-X	0.006(	0.035)
RMS(	0.036).....	

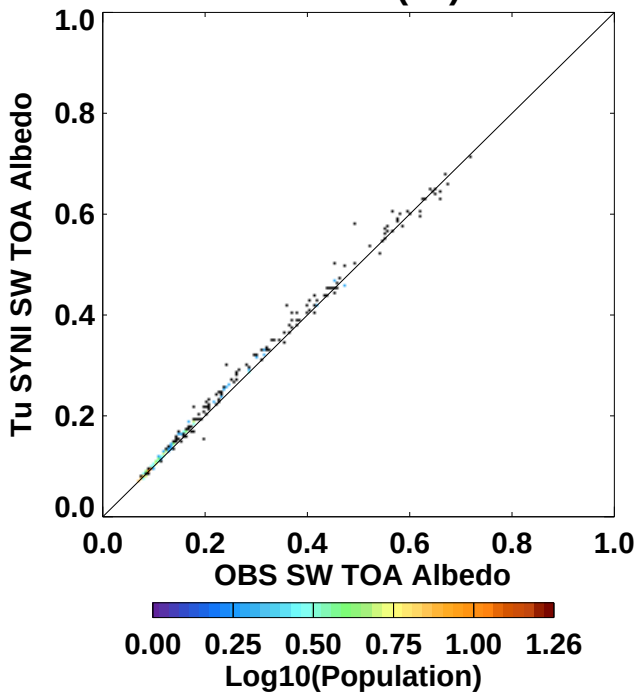
UT TOA Albedo(Hr)ALL



N= 4345.	Mean	(StdDev)
OBS SW TOA Albedo	0.284(	0.166)
UT SYNI SW TOA Albedo	0.290(	0.172)
Y-X	0.006(	0.032)
RMS(	0.033).....	

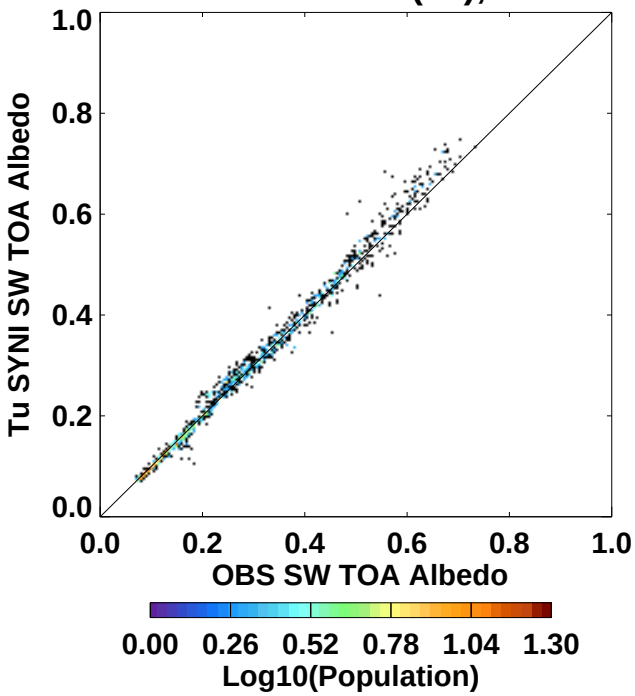
SYNI Beta3 Year 2002: Spatial Subset (aka STS) AllSky NAU

Tu TOA Albedo(Hr)CERES



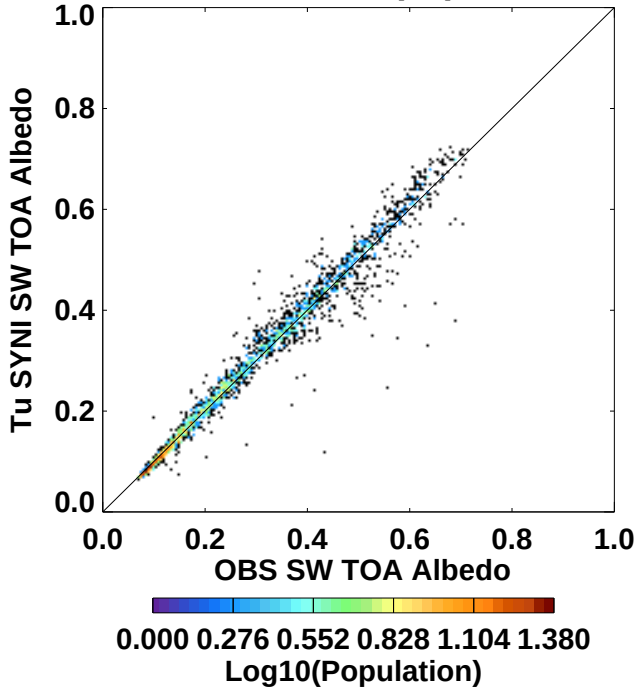
N= 321.	Mean	(StdDev)
OBS SW TOA Albedo	0.217(	0.167)
Tu SYNI SW TOA Albedo	0.223(	0.169)
Y-X	0.006(	0.011)
RMS(	0.013).....	

Tu TOA Albedo(Hr),GEO



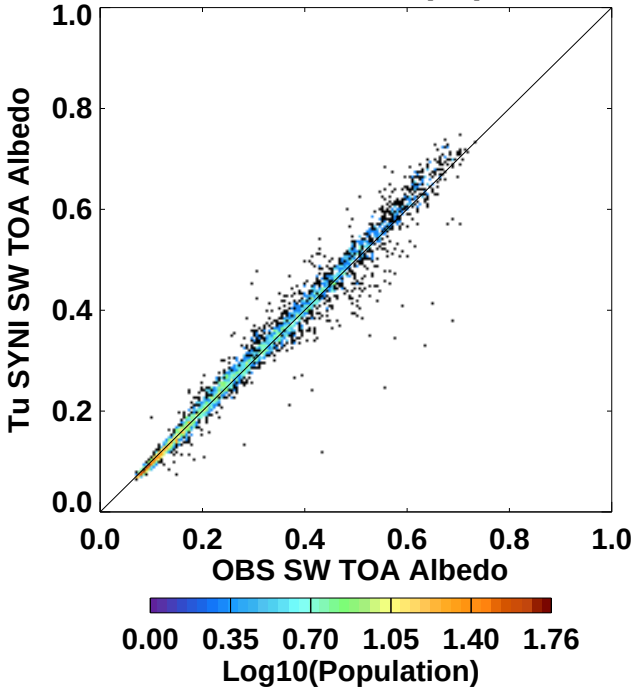
N= 1269.	Mean	(StdDev)
OBS SW TOA Albedo	0.290(	0.167)
Tu SYNI SW TOA Albedo	0.294(	0.173)
Y-X	0.004(	0.018)
RMS(	0.018).....	

Tu TOA Albedo(Hr)INTERP



N= 2755.	Mean	(StdDev)
OBS SW TOA Albedo	0.289(	0.164)
Tu SYNI SW TOA Albedo	0.292(	0.166)
Y-X	0.003(	0.028)
RMS(	0.028).....	

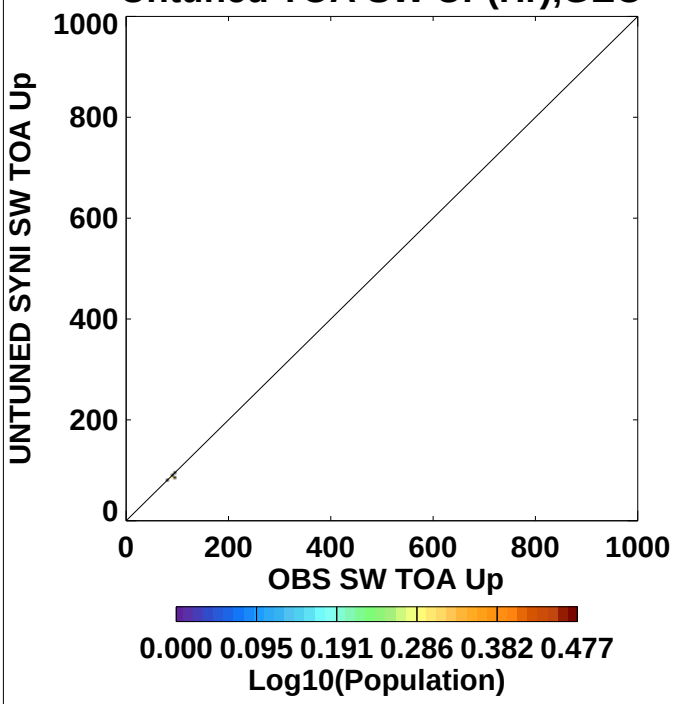
Tu TOA Albedo(Hr)ALL



N= 4345.	Mean	(StdDev)
OBS SW TOA Albedo	0.284(	0.166)
Tu SYNI SW TOA Albedo	0.288(	0.170)
Y-X	0.003(	0.024)
RMS(	0.025).....	

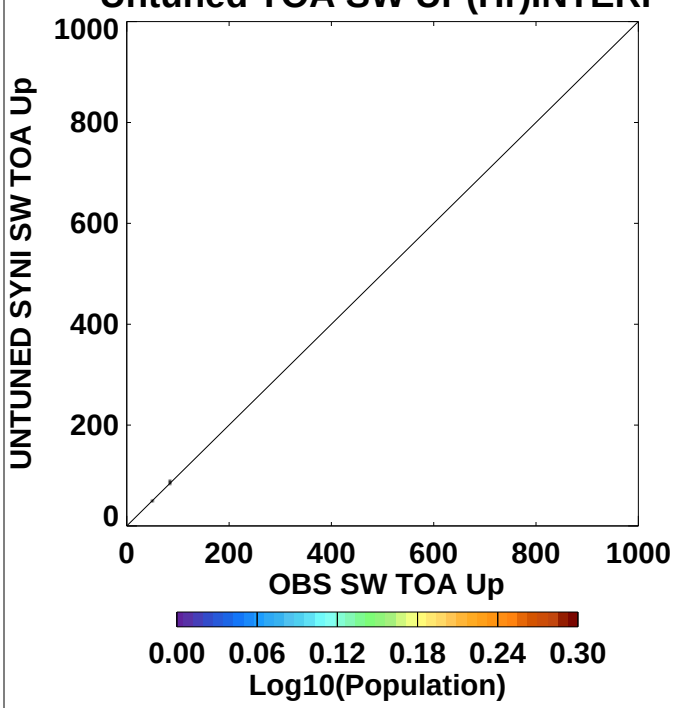
SYNI Beta3 Year 2002: Spatial Subset (aka STS) ClearSky 1% NAU

Untuned TOA SW UP(Hr),GEO



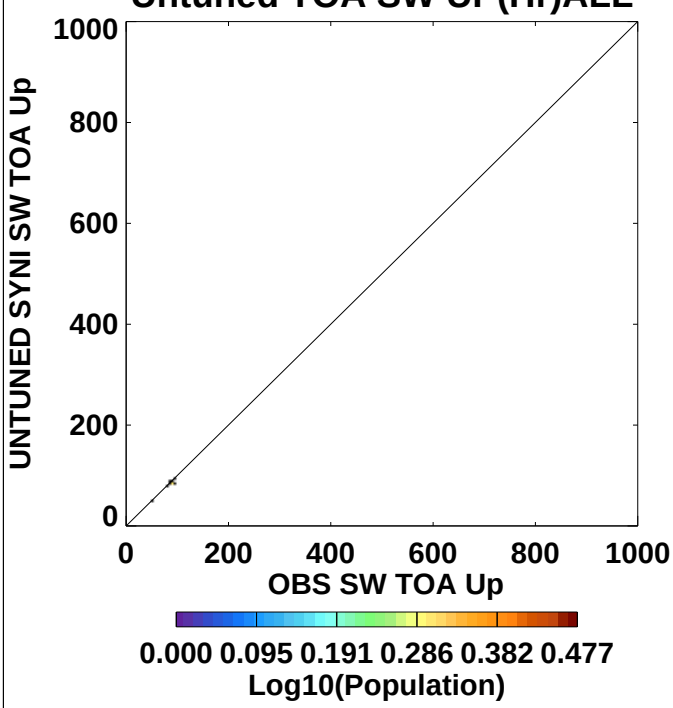
N= 8.	Mean	(StdDev)
OBS SW TOA Up	82.38(	4.62)
UNTUNED SYNI SW TOA Up	80.38(	4.08)
Y-X	-2.01(	3.47)
RMS(	3.82).....	

Untuned TOA SW UP(Hr)INTERP



N= 4.	Mean	(StdDev)
OBS SW TOA Up	68.60(	18.76)
UNTUNED SYNI SW TOA Up	70.41(	19.27)
Y-X	1.81(	3.06)
RMS(	3.21).....	

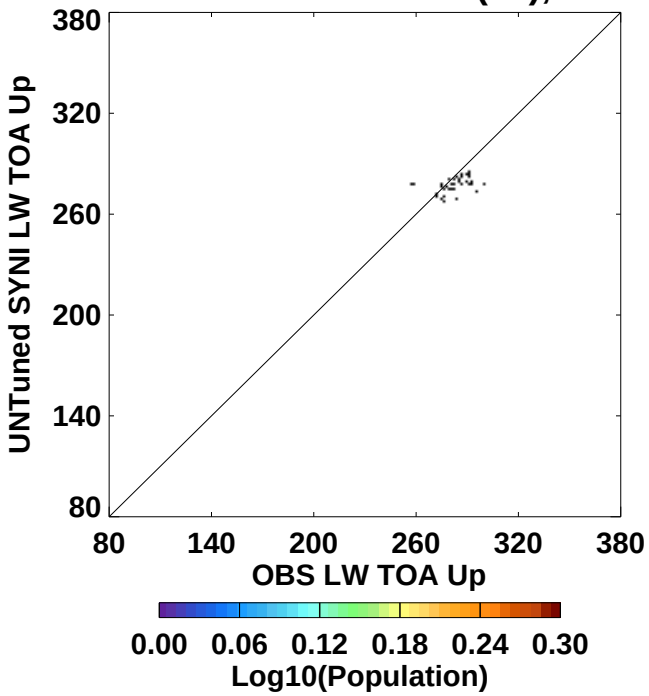
Untuned TOA SW UP(Hr)ALL



N= 13.	Mean	(StdDev)
OBS SW TOA Up	77.66(	11.95)
UNTUNED SYNI SW TOA Up	77.25(	11.18)
Y-X	-0.418(	3.73)
RMS(	3.61).....	

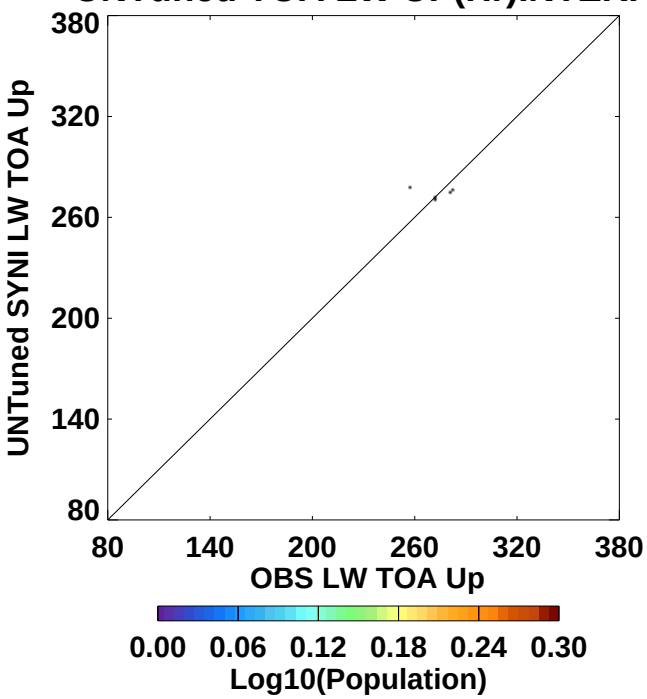
SYNI Beta3 Year 2002: Spatial Subset (aka STS) ClearSky 1% NAU

UNTuned TOA LW UP(Hr),GEO



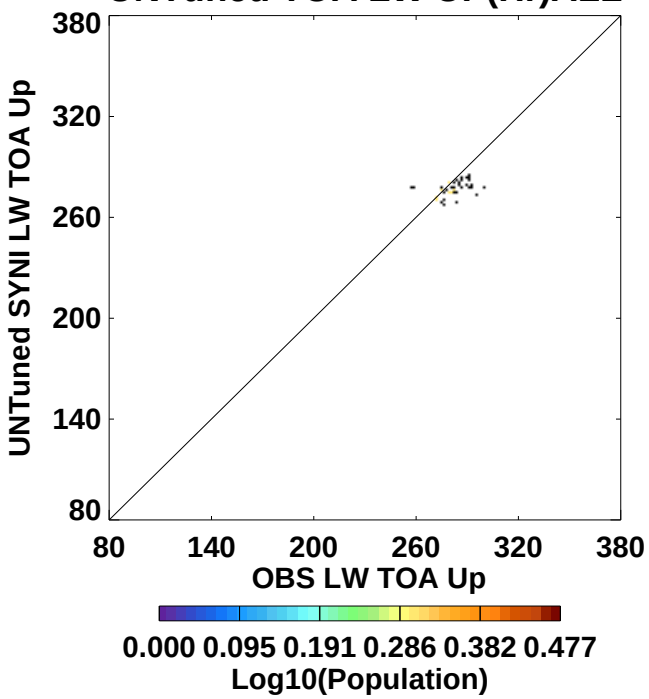
N= 38.	Mean	(StdDev)
OBS LW TOA Up	283.0(	9.15)
UNTuned SYNI LW TOA Up	278.3(	4.61)
Y-X	-4.71(	8.47)
RMS(	9.60).....	

UNTuned TOA LW UP(Hr)INTERP



N= 6.	Mean	(StdDev)
OBS LW TOA Up	270.9(	10.88)
UNTuned SYNI LW TOA Up	275.7(	2.90)
Y-X	4.81(	12.31)
RMS(	12.22).....	

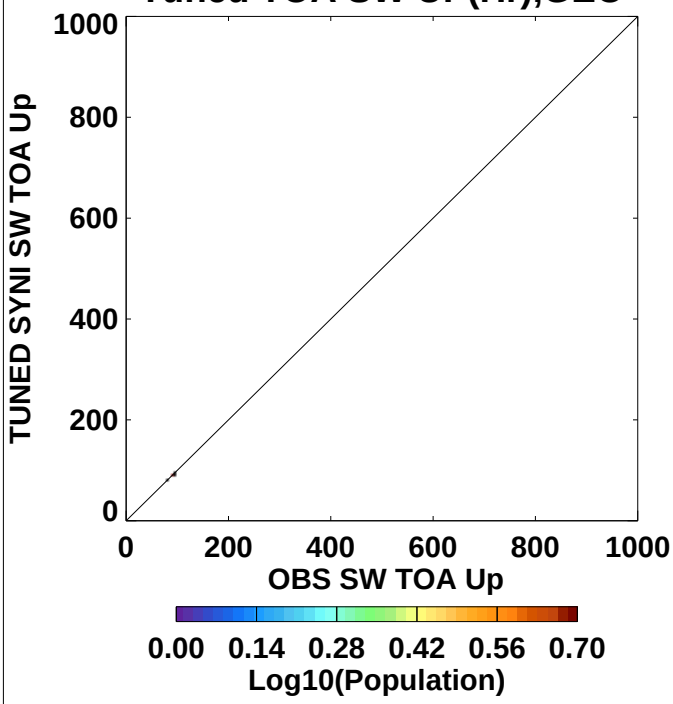
UNTuned TOA LW UP(Hr)ALL



N= 46.	Mean	(StdDev)
OBS LW TOA Up	281.5(	9.96)
UNTuned SYNI LW TOA Up	277.9(	4.39)
Y-X	-3.60(	9.34)
RMS(	9.91).....	

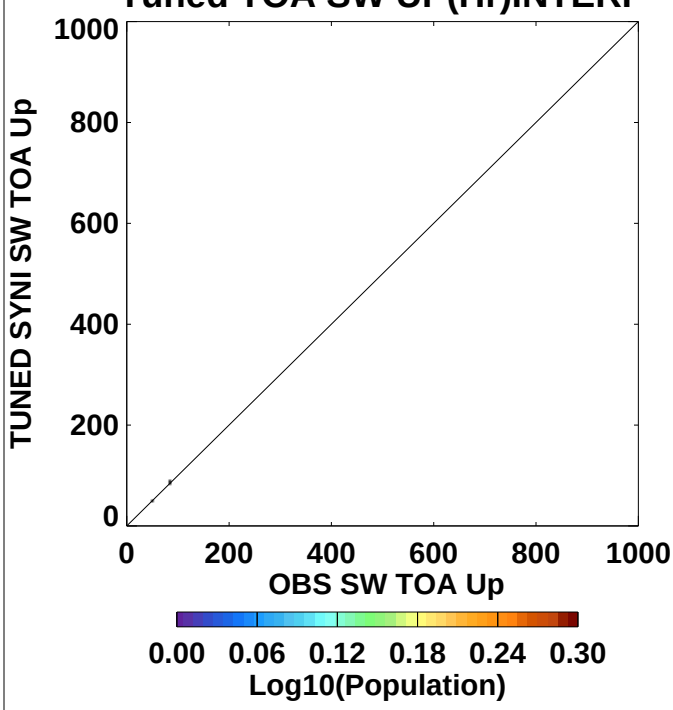
SYNI Beta3 Year 2002: Spatial Subset (aka STS) ClearSky 1% NAU

Tuned TOA SW UP(Hr),GEO



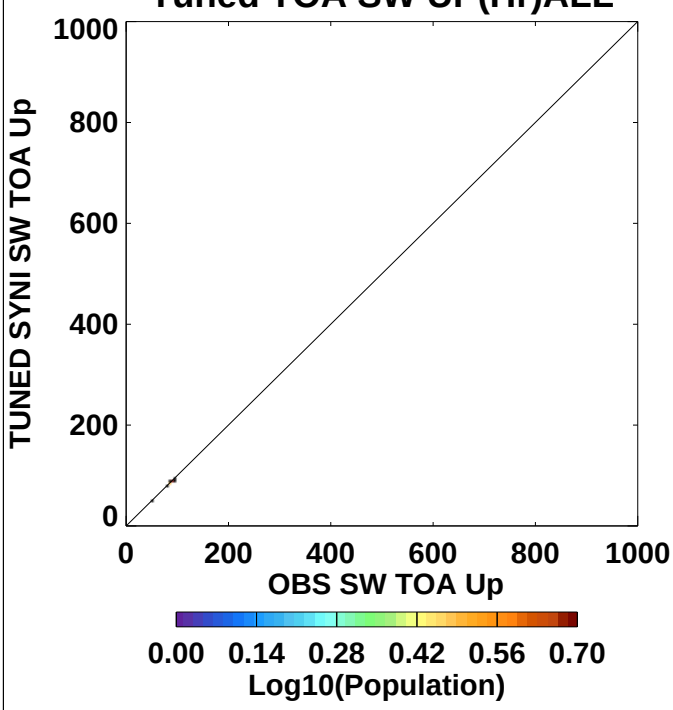
N= 8.	Mean	(StdDev)
OBS SW TOA Up	82.38	(4.62)
TUNED SYNI SW TOA Up	81.66	(4.16)
Y-X	-0.723	(1.79)
RMS(	1.82).....	

Tuned TOA SW UP(Hr)INTERP



N= 4.	Mean	(StdDev)
OBS SW TOA Up	68.60	(18.76)
TUNED SYNI SW TOA Up	70.06	(19.15)
Y-X	1.46	(2.46)
RMS(	2.58).....	

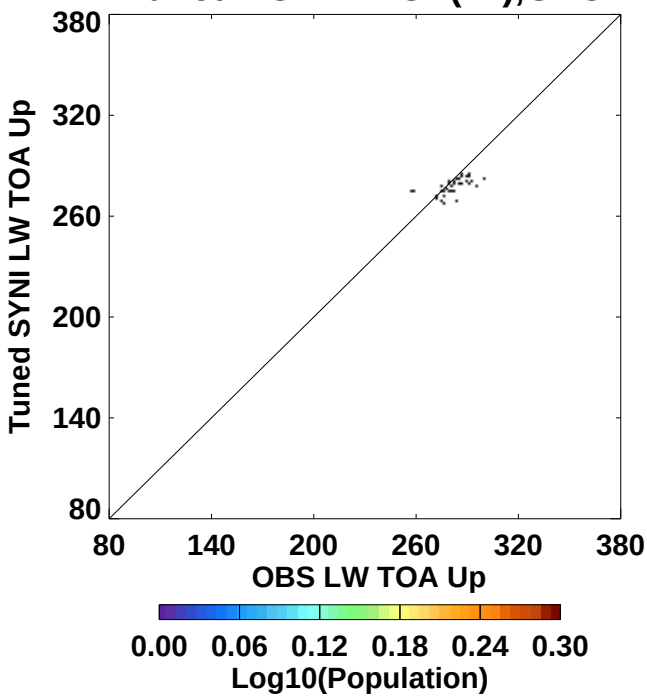
Tuned TOA SW UP(Hr)ALL



N= 13.	Mean	(StdDev)
OBS SW TOA Up	77.66	(11.95)
TUNED SYNI SW TOA Up	77.81	(11.48)
Y-X	0.147	(2.17)
RMS(	2.09).....	

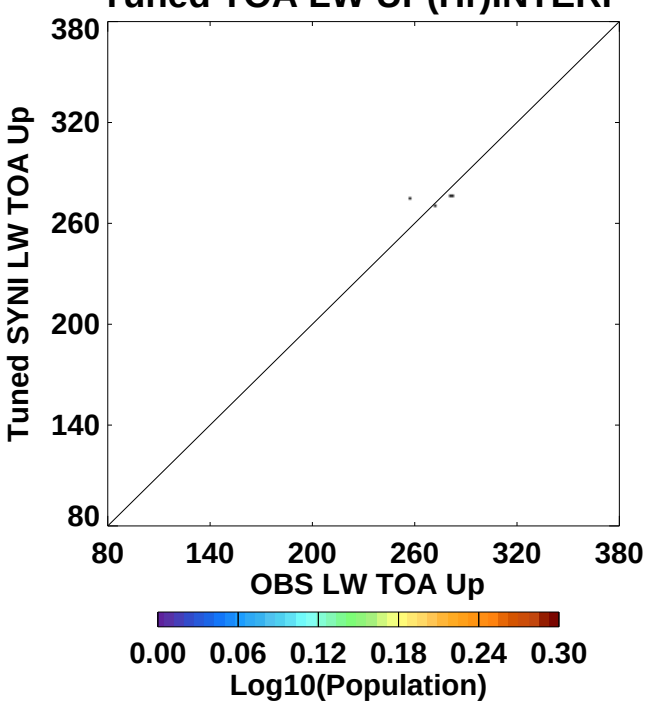
SYNI Beta3 Year 2002: Spatial Subset (aka STS) ClearSky 1% NAU

Tuned TOA LW UP(Hr),GEO



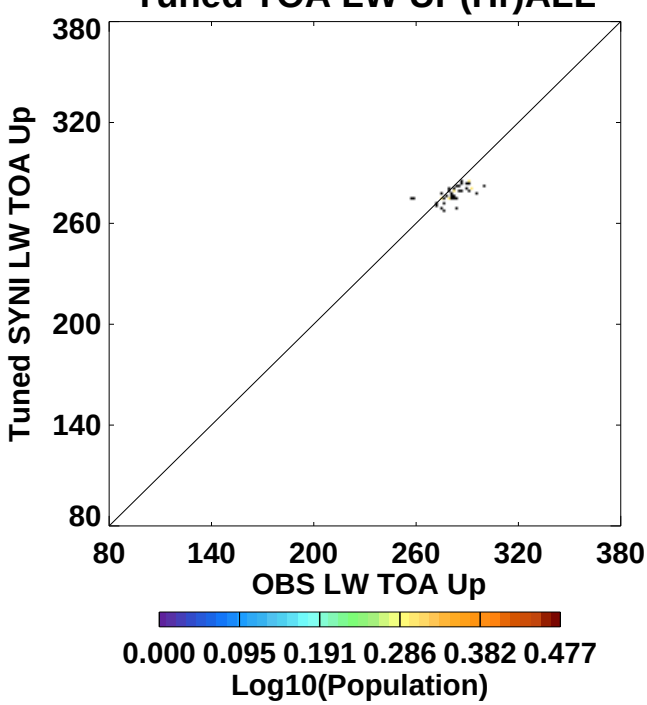
N= 38.	Mean	(StdDev)
OBS LW TOA Up	283.0(	9.15)
Tuned SYNI LW TOA Up	278.7(	4.73)
Y-X	-4.32(	7.22)
RMS(	8.33).....	

Tuned TOA LW UP(Hr)INTERP



N= 6.	Mean	(StdDev)
OBS LW TOA Up	270.9(	10.88)
Tuned SYNI LW TOA Up	274.9(	2.50)
Y-X	3.99(	11.09)
RMS(	10.88).....	

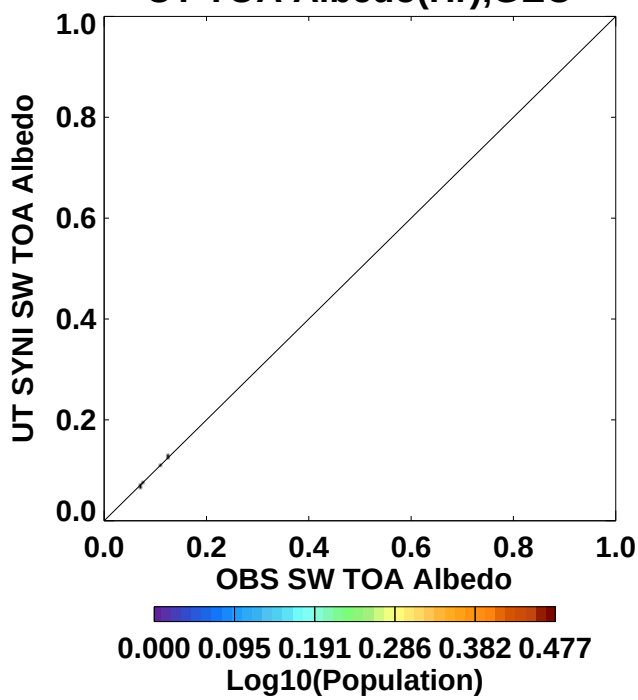
Tuned TOA LW UP(Hr)ALL



N= 46.	Mean	(StdDev)
OBS LW TOA Up	281.5(	9.96)
Tuned SYNI LW TOA Up	278.2(	4.58)
Y-X	-3.30(	8.07)
RMS(	8.63).....	

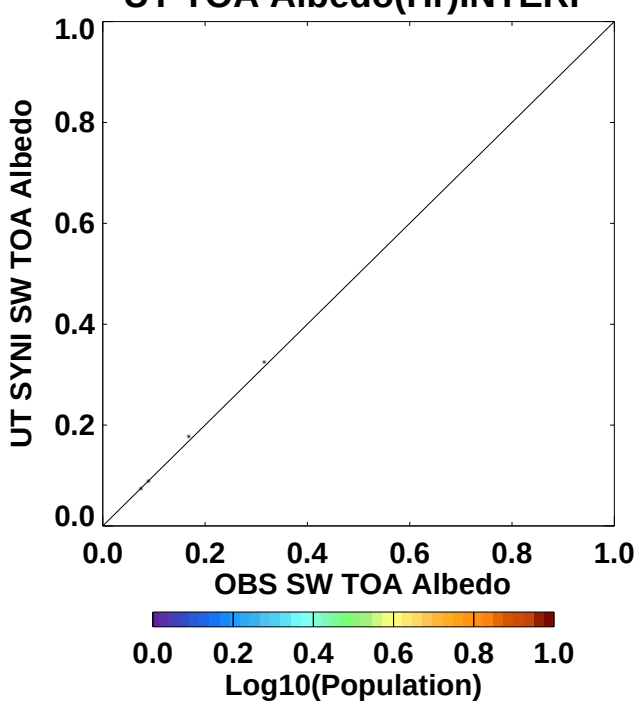
SYNI Beta3 Year 2002: Spatial Subset (aka STS) ClearSky 1% NAU

UT TOA Albedo(Hr),GEO



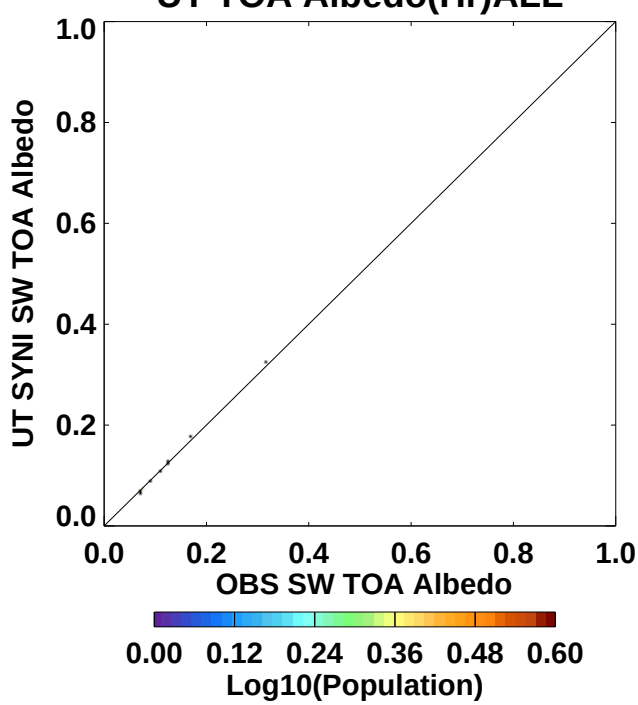
N=	8.	Mean	(StdDev)
	OBS SW TOA Albedo	0.082(	0.025)
	UT SYNI SW TOA Albedo	0.081(	0.027)
	Y-X	-0.001(	0.003)
	RMS(	0.003).....	

UT TOA Albedo(Hr)INTERP



N=	4.	Mean	(StdDev)
	OBS SW TOA Albedo	0.156(	0.112)
	UT SYNI SW TOA Albedo	0.162(	0.116)
	Y-X	0.005(	0.007)
	RMS(	0.008).....	

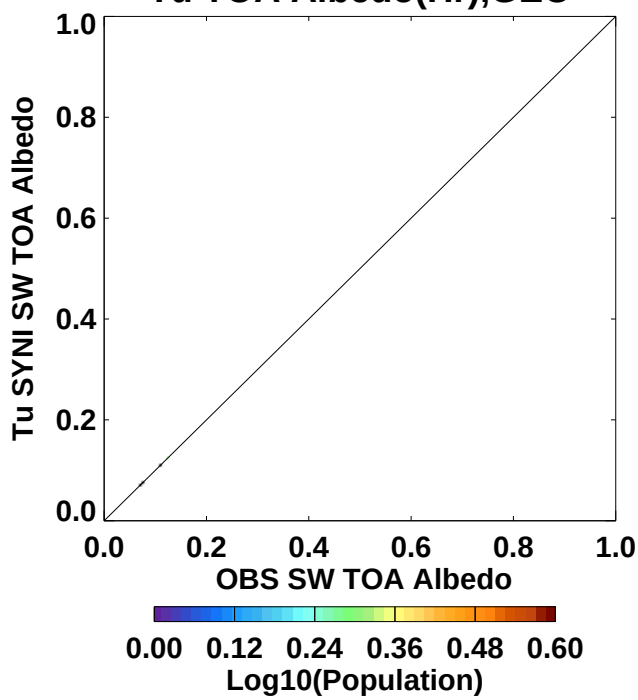
UT TOA Albedo(Hr)ALL



N=	13.	Mean	(StdDev)
	OBS SW TOA Albedo	0.103(	0.070)
	UT SYNI SW TOA Albedo	0.104(	0.074)
	Y-X	0.001(	0.005)
	RMS(	0.005).....	

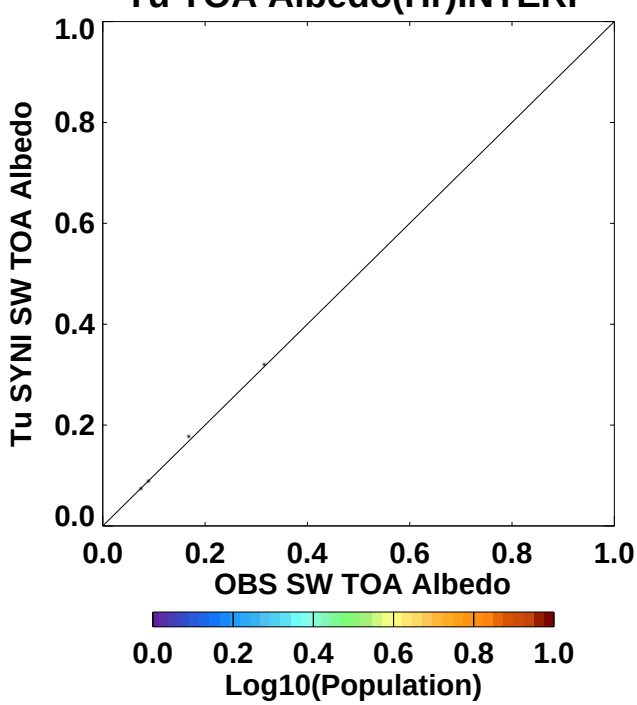
SYNI Beta3 Year 2002: Spatial Subset (aka STS) ClearSky 1% NAU

Tu TOA Albedo(Hr),GEO



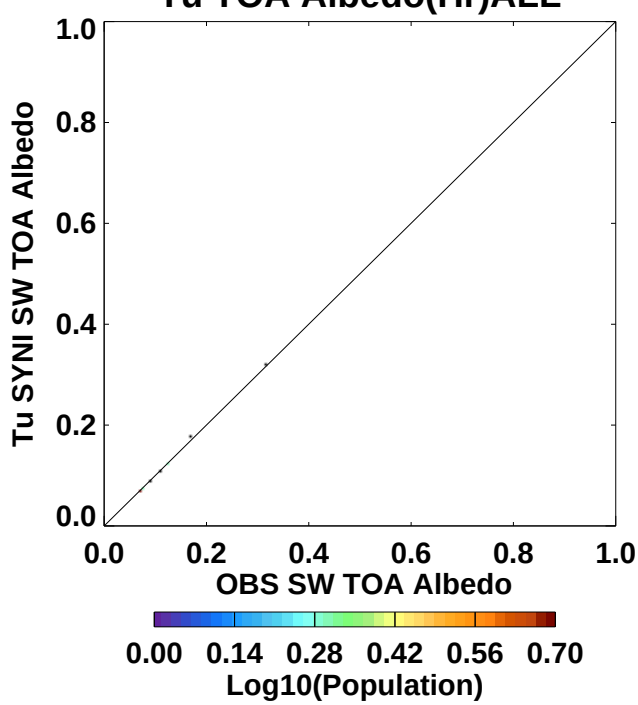
N=	8.	Mean	(StdDev)
	OBS SW TOA Albedo	0.082(	0.025)
	Tu SYNI SW TOA Albedo	0.082(	0.026)
	Y-X	-0.000(	0.002)
	RMS(	0.002).....	

Tu TOA Albedo(Hr)INTERP



N=	4.	Mean	(StdDev)
	OBS SW TOA Albedo	0.156(	0.112)
	Tu SYNI SW TOA Albedo	0.161(	0.115)
	Y-X	0.004(	0.005)
	RMS(	0.006).....	

Tu TOA Albedo(Hr)ALL



N=	13.	Mean	(StdDev)
	OBS SW TOA Albedo	0.103(	0.070)
	Tu SYNI SW TOA Albedo	0.105(	0.073)
	Y-X	0.001(	0.004)
	RMS(	0.004).....	