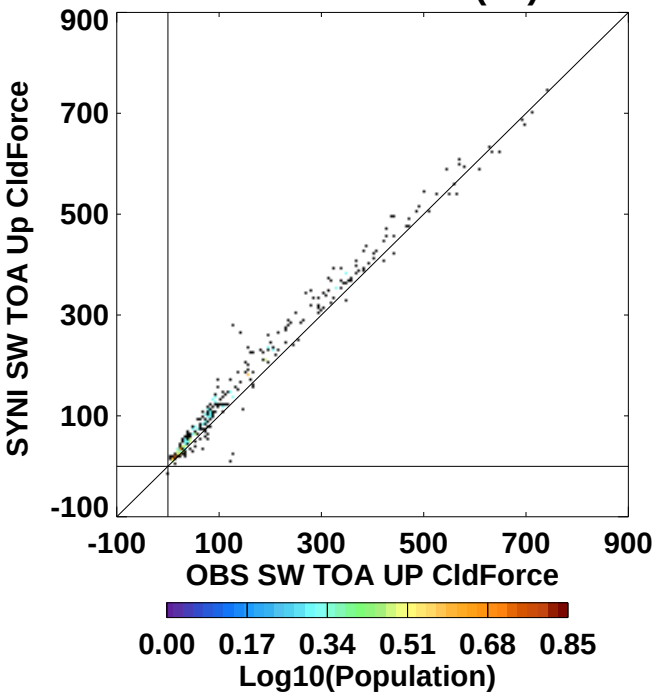
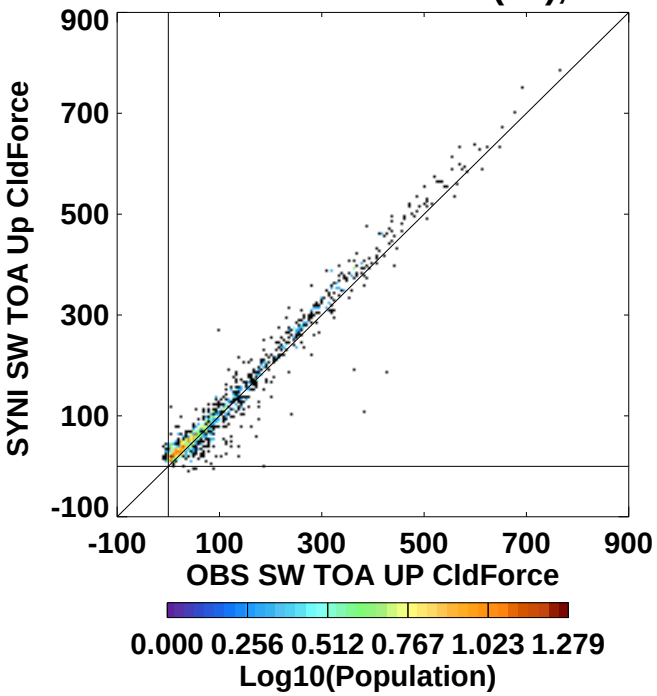
SYNI Beta3 Year 2002: Spatial Subset (aka STS) AllSky MAN

CldFor UT TOA SW UP(Hr)CERES



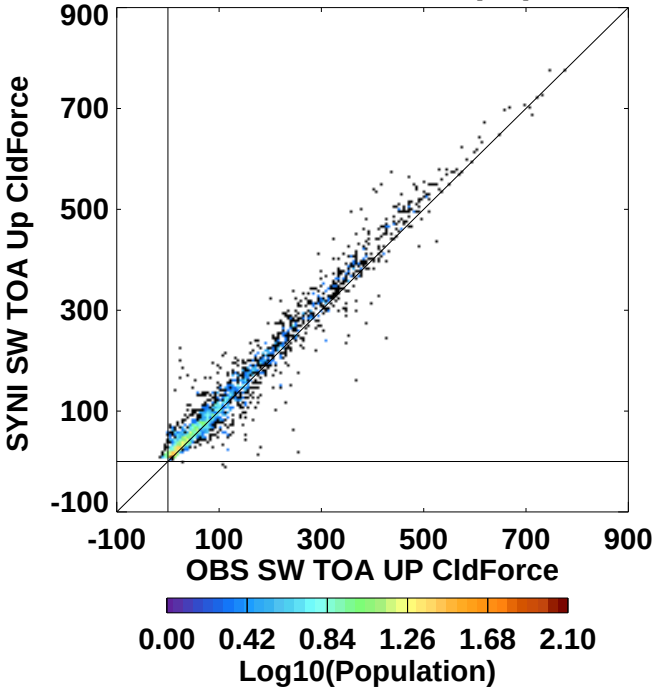
N= 310.	Mean	(StdDev)
OBS SW TOA UP CldForce	160.0(	168.6)
SYNI SW TOA Up CldForce	177.5(	172.5)
Y-X	17.50(	24.21)
RMS(	29.84).....	

CldFor UT TOA SW UP(Hr),GEO



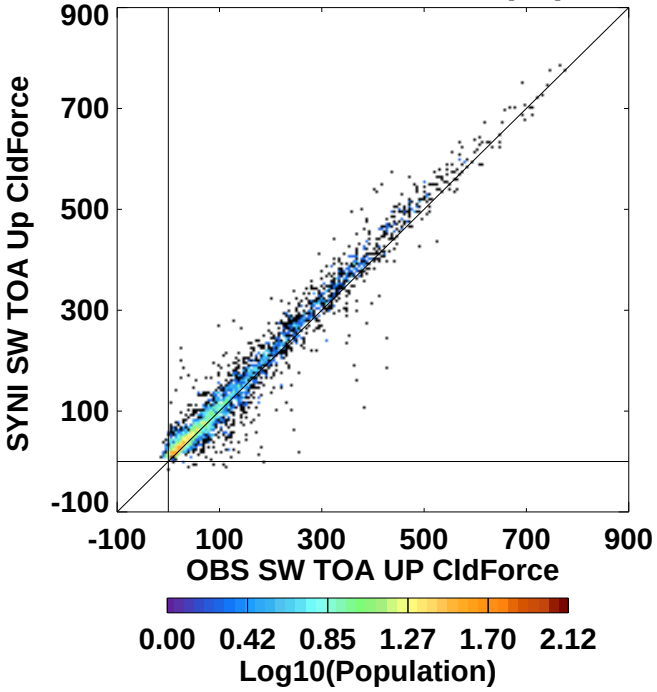
N= 1247.	Mean	(StdDev)
OBS SW TOA UP CldForce	114.8(	134.2)
SYNI SW TOA Up CldForce	122.7(	138.7)
Y-X	7.92(	26.76)
RMS(	27.90).....	

CldFor UT TOA SW UP(Hr)INTERP



N= 2673.	Mean	(StdDev)
OBS SW TOA UP CldForce	116.4(	134.3)
SYNI SW TOA Up CldForce	126.9(	139.1)
Y-X	10.59(	26.84)
RMS(	28.85).....	

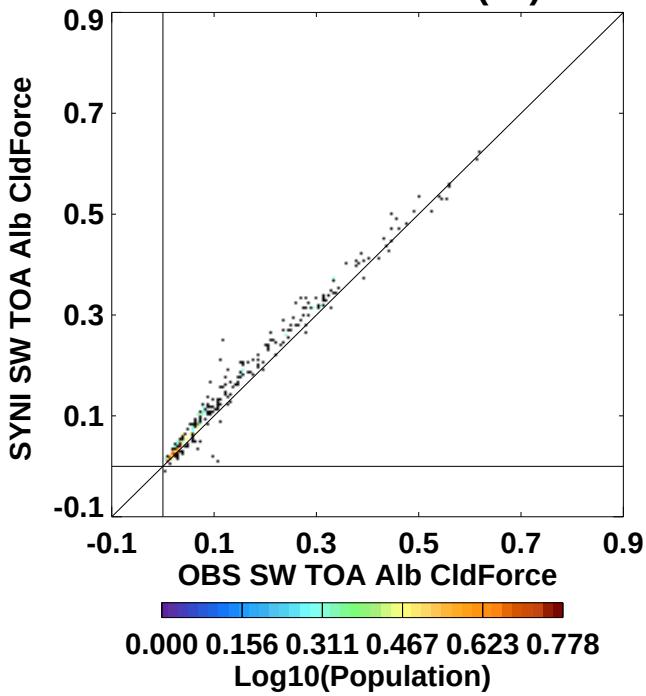
CldFor UT TOA SW UP(Hr)ALL



N= 4230.	Mean	(StdDev)
OBS SW TOA UP CldForce	119.1(	137.5)
SYNI SW TOA Up CldForce	129.4(	142.3)
Y-X	10.31(	26.73)
RMS(	28.65).....	

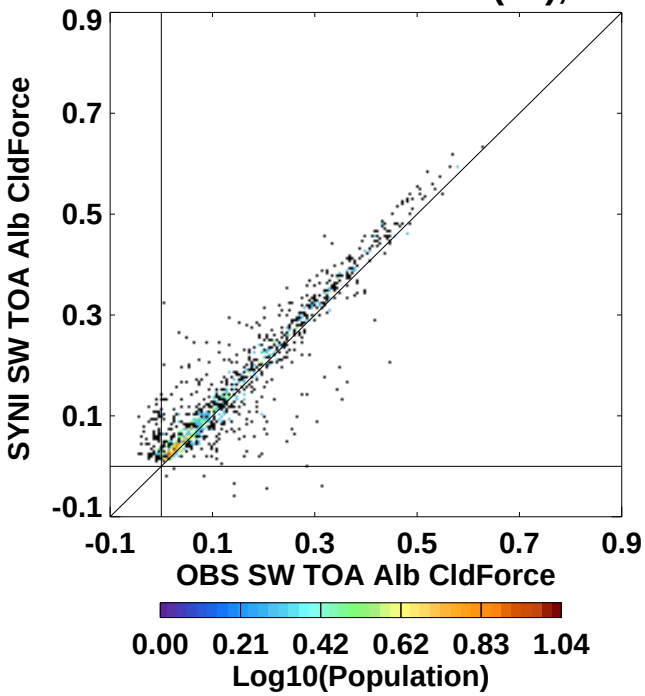
SYNI Beta3 Year 2002: Spatial Subset (aka STS) AllSky MAN

CldFor UT TOA SWALB(Hr)CERES



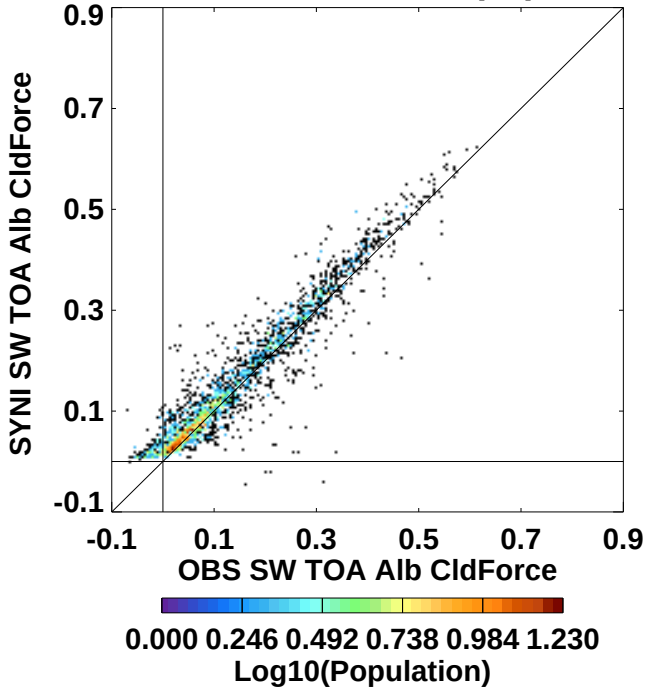
N= 310.	Mean	(StdDev)
OBS SW TOA Alb CldForce	0.134(	0.141)
SYNI SW TOA Alb CldForce	0.149(	0.145)
Y-X	0.015(	0.020)
RMS(	0.025).....	

CldFor UT TOA SWALB(Hr),GEO



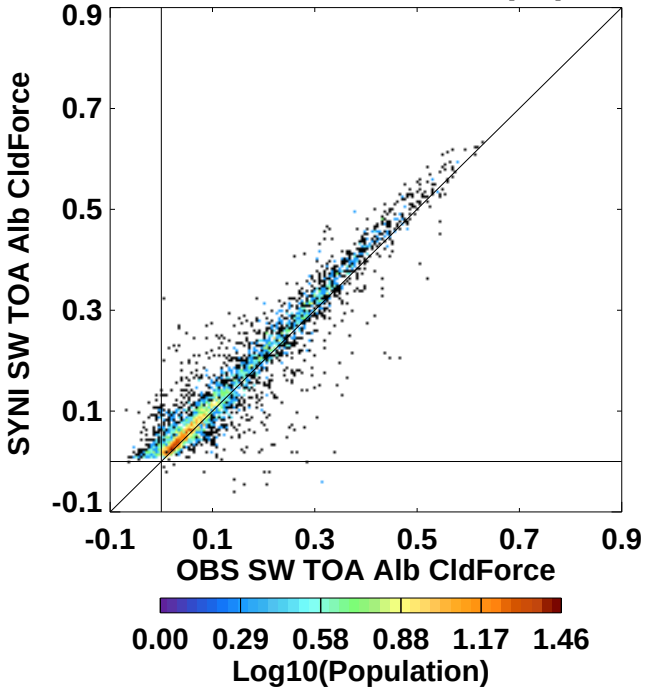
N= 1247.	Mean	(StdDev)
OBS SW TOA Alb CldForce	0.138(	0.134)
SYNI SW TOA Alb CldForce	0.151(	0.136)
Y-X	0.014(	0.049)
RMS(	0.051).....	

CldFor UT TOA SWALB(Hr)INTERP



N= 2673.	Mean	(StdDev)
OBS SW TOA Alb CldForce	0.138(	0.132)
SYNI SW TOA Alb CldForce	0.153(	0.132)
Y-X	0.015(	0.039)
RMS(	0.042).....	

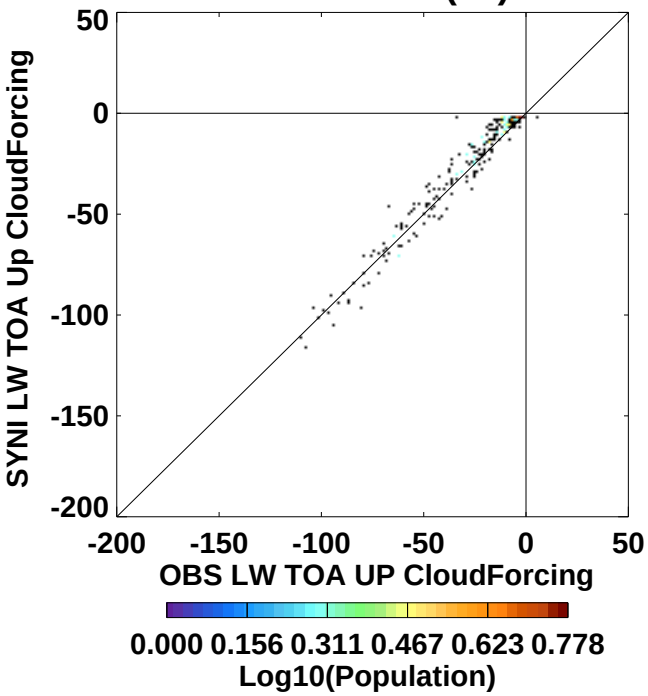
CldFor UT TOA SWALB(Hr)ALL



N= 4230.	Mean	(StdDev)
OBS SW TOA Alb CldForce	0.138(	0.133)
SYNI SW TOA Alb CldForce	0.152(	0.134)
Y-X	0.015(	0.041)
RMS(	0.044).....	

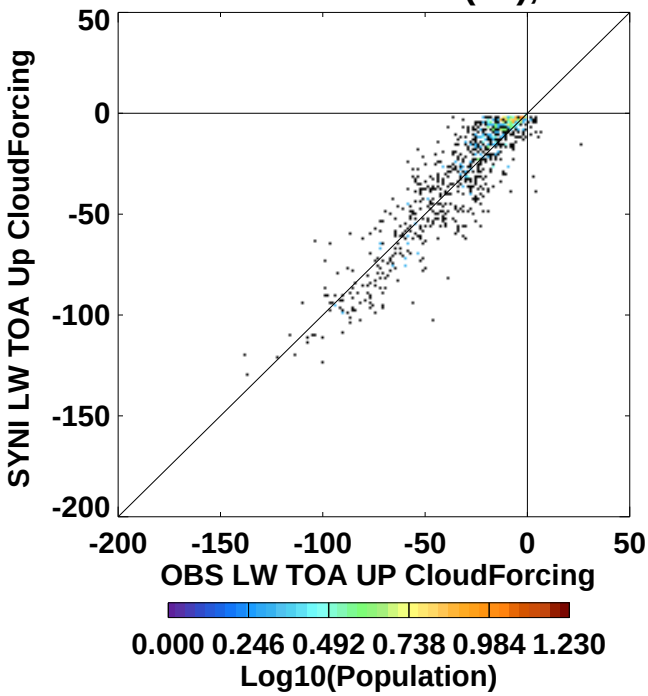
SYNI Beta3 Year 2002: Spatial Subset (aka STS) AllSky MAN

CldForced TOA LW(Hr)CERES



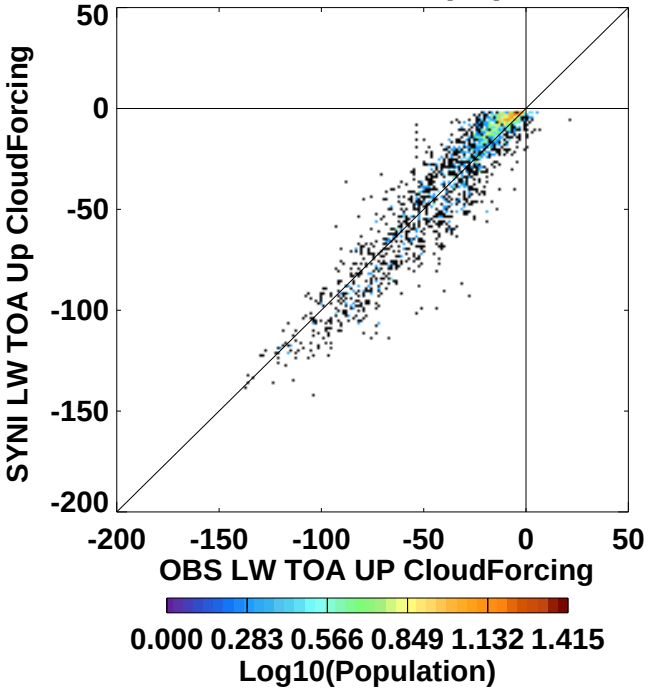
N= 237.	Mean	(StdDev)
OBS LW TOA UP CloudForcing	-29.46	(26.38)
SYNI LW TOA Up CloudForcing	-26.79	(28.16)
Y-X	2.67	(5.75)
RMS(	6.33).....	

CldForced TOA LW(Hr),GEO



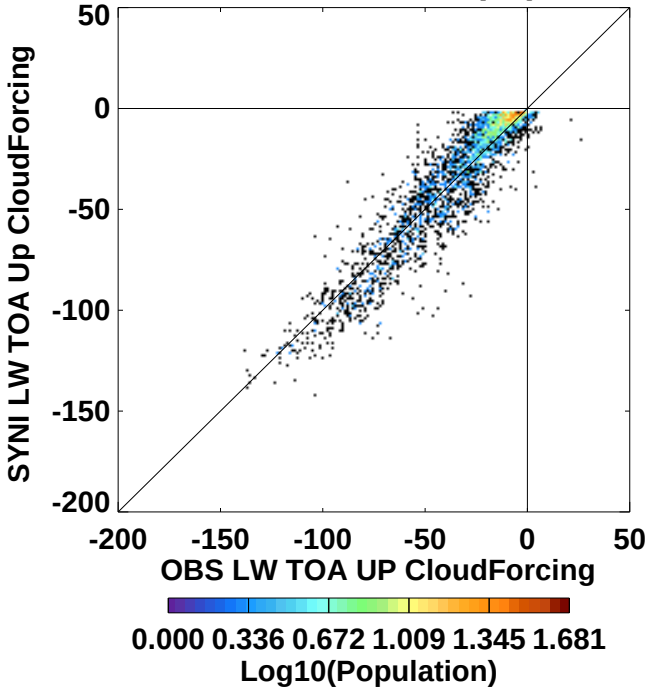
N= 897.	Mean	(StdDev)
OBS LW TOA UP CloudForcing	-28.87	(26.09)
SYNI LW TOA Up CloudForcing	-27.44	(28.66)
Y-X	1.43	(11.37)
RMS(	11.46).....	

CldForced TOA LW(Hr)INTERP



N= 2052.	Mean	(StdDev)
OBS LW TOA UP CloudForcing	-33.91	(28.90)
SYNI LW TOA Up CloudForcing	-33.48	(32.69)
Y-X	0.434	(11.32)
RMS(	11.33).....	

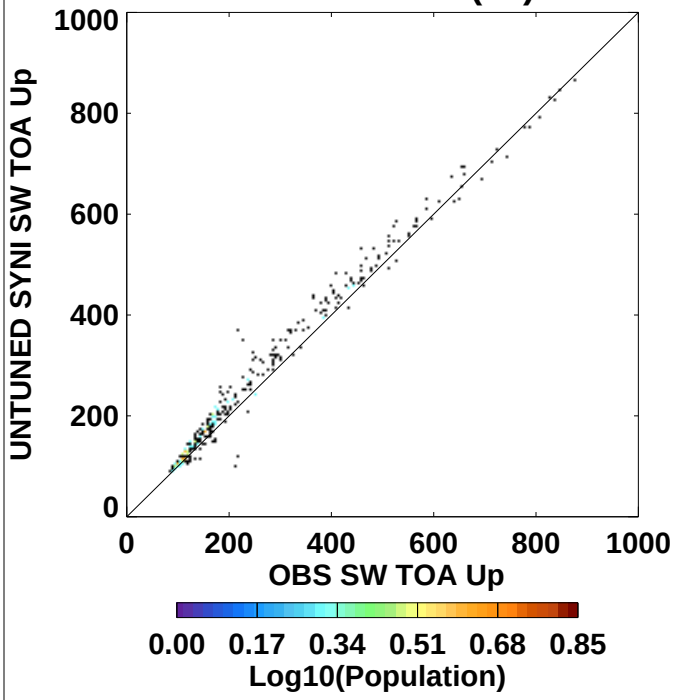
CldForced TOA LW(Hr)ALL



N= 3186.	Mean	(StdDev)
OBS LW TOA UP CloudForcing	-32.16	(28.05)
SYNI LW TOA Up CloudForcing	-31.28	(31.41)
Y-X	0.880	(11.04)
RMS(	11.07).....	

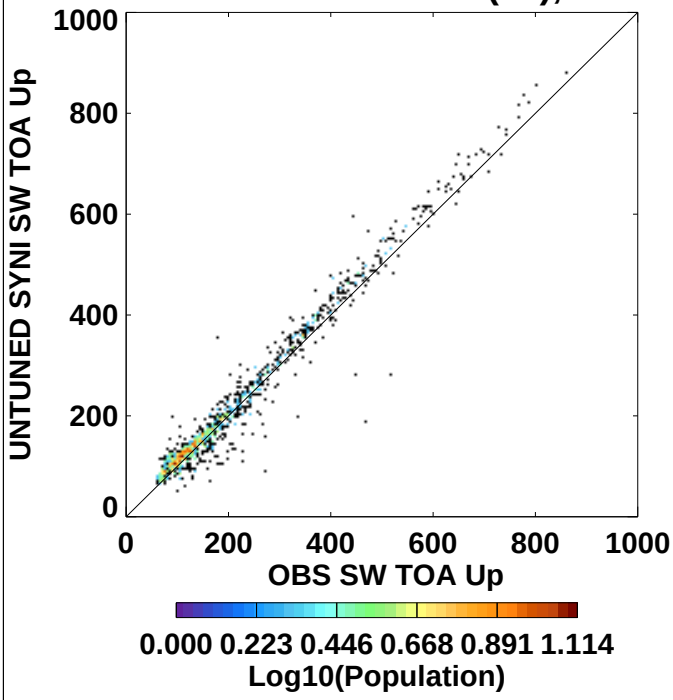
SYNI Beta3 Year 2002: Spatial Subset (aka STS) AllSky MAN

Untuned TOA SW UP(Hr)CERES



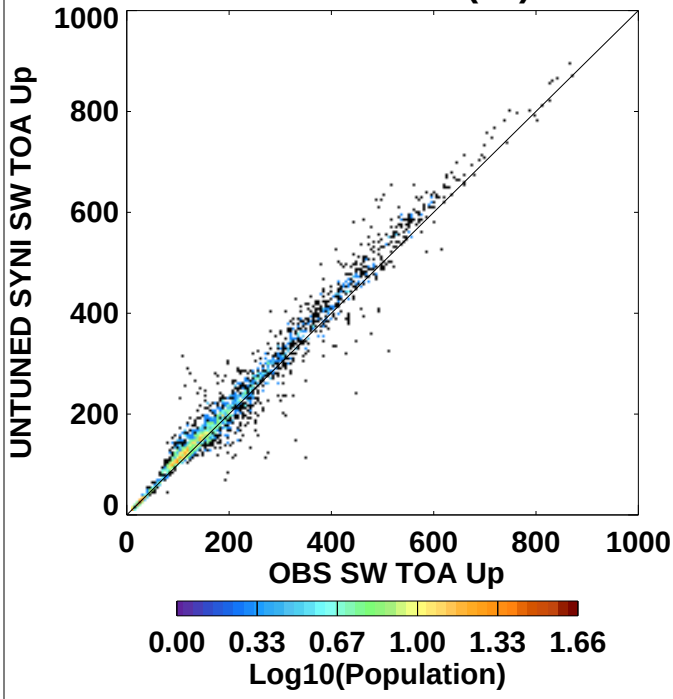
N= 323.	Mean	(StdDev)
OBS SW TOA Up	259.5(	179.5)
UNTUNED SYNI SW TOA Up	276.9(	182.5)
Y-X	17.48(	24.13)
RMS(	29.77).....	

Untuned TOA SW UP(Hr),GEO



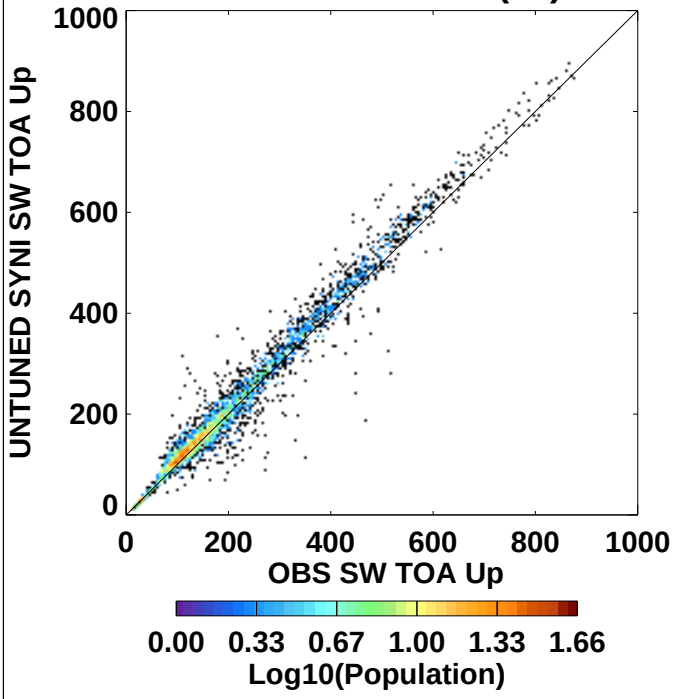
N= 1294.	Mean	(StdDev)
OBS SW TOA Up	204.7(	145.1)
UNTUNED SYNI SW TOA Up	213.1(	150.5)
Y-X	8.43(	26.86)
RMS(	28.14).....	

Untuned TOA SW UP(Hr)INTERP



N= 2780.	Mean	(StdDev)
OBS SW TOA Up	200.5(	150.6)
UNTUNED SYNI SW TOA Up	211.5(	156.4)
Y-X	11.06(	26.79)
RMS(	28.98).....	

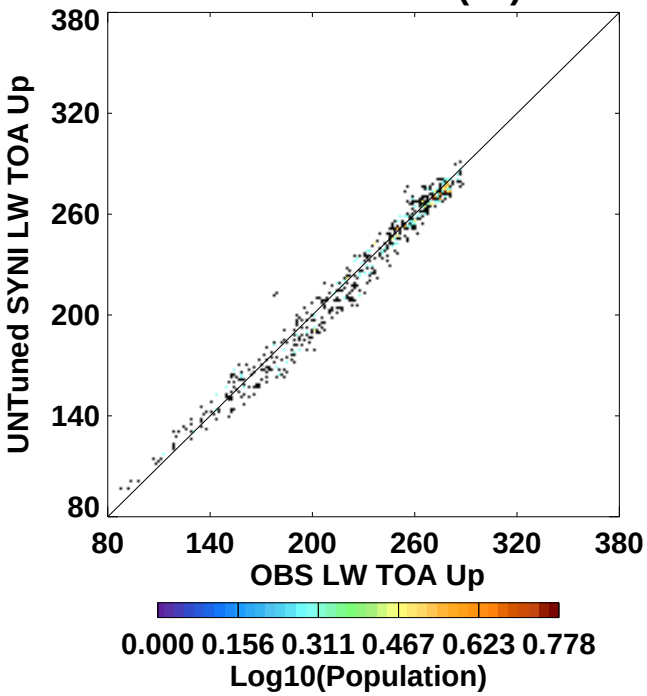
Untuned TOA SW UP(Hr)ALL



N= 4397.	Mean	(StdDev)
OBS SW TOA Up	206.0(	152.0)
UNTUNED SYNI SW TOA Up	216.8(	157.6)
Y-X	10.76(	26.71)
RMS(	28.79).....	

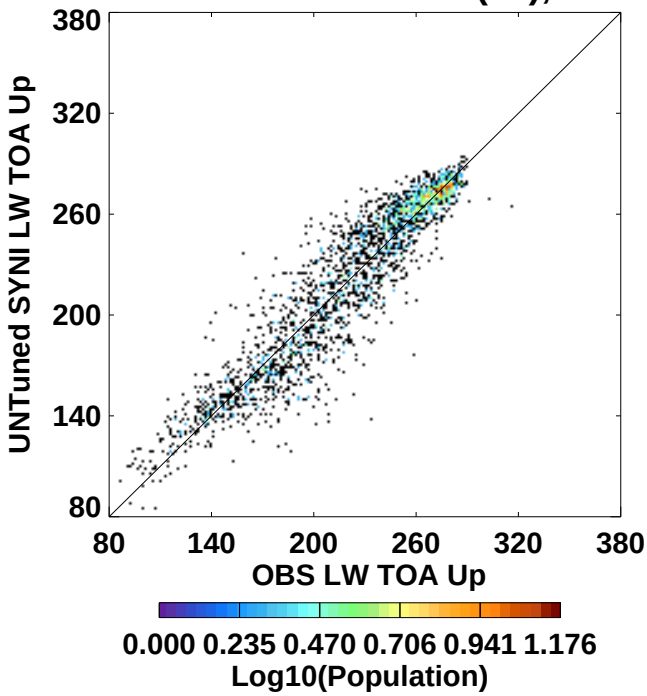
SYNI Beta3 Year 2002: Spatial Subset (aka STS) AllSky MAN

UNTuned TOA LW UP(Hr)CERES



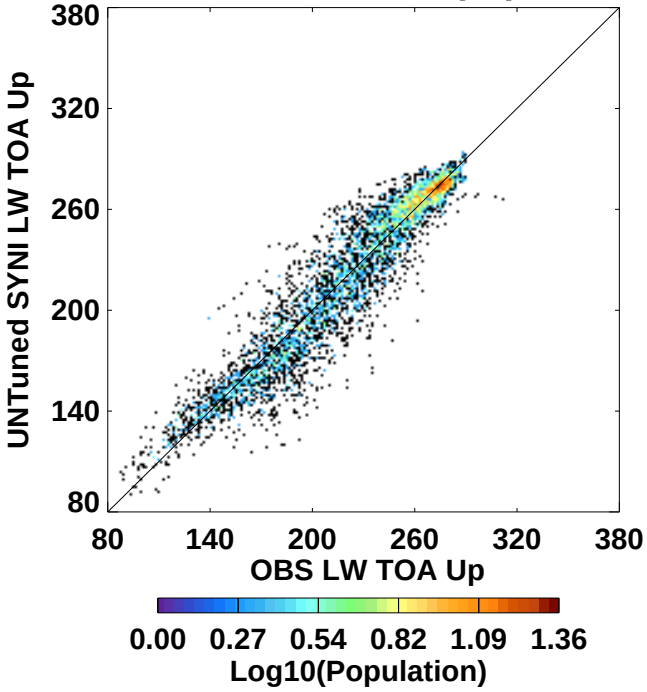
N= 629.	Mean	(StdDev)
OBS LW TOA Up	226.2(	47.22)
UNTuned SYNI LW TOA Up	224.2(	47.26)
Y-X	-2.03(	7.05)
RMS(	7.33).....	

UNTuned TOA LW UP(Hr),GEO



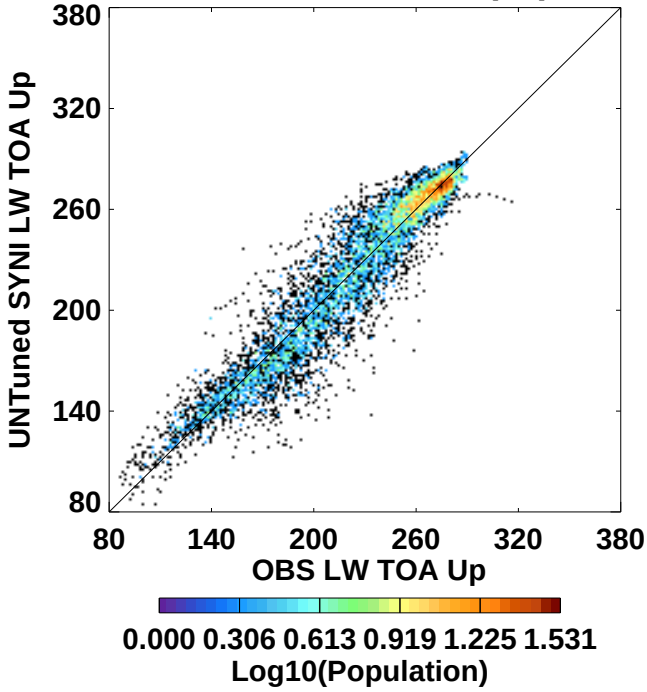
N= 2631.	Mean	(StdDev)
OBS LW TOA Up	224.4(	47.08)
UNTuned SYNI LW TOA Up	224.6(	49.15)
Y-X	0.149(	16.73)
RMS(	16.73).....	

UNTuned TOA LW UP(Hr)INTERP



N= 5494.	Mean	(StdDev)
OBS LW TOA Up	223.2(	45.85)
UNTuned SYNI LW TOA Up	222.9(	48.04)
Y-X	-0.298(	14.58)
RMS(	14.58).....	

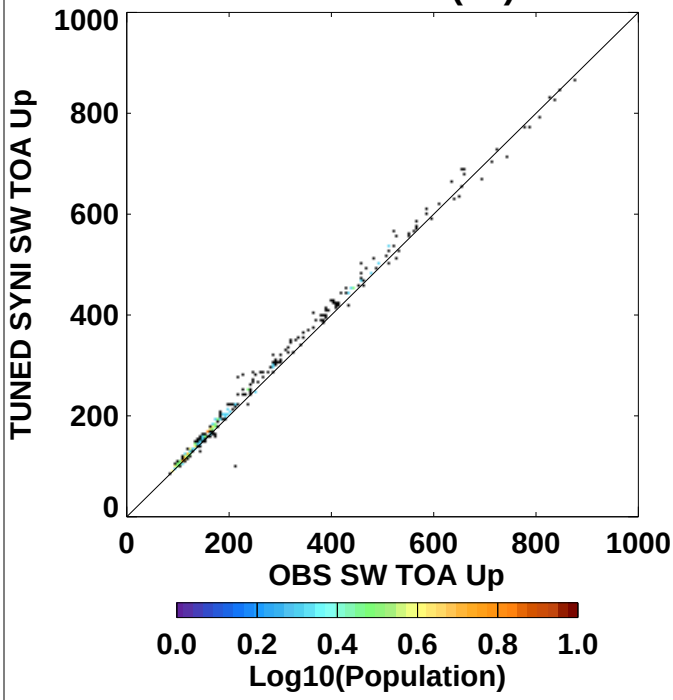
UNTuned TOA LW UP(Hr)ALL



N= 8754.	Mean	(StdDev)
OBS LW TOA Up	223.8(	46.32)
UNTuned SYNI LW TOA Up	223.5(	48.32)
Y-X	-0.288(	14.88)
RMS(	14.88).....	

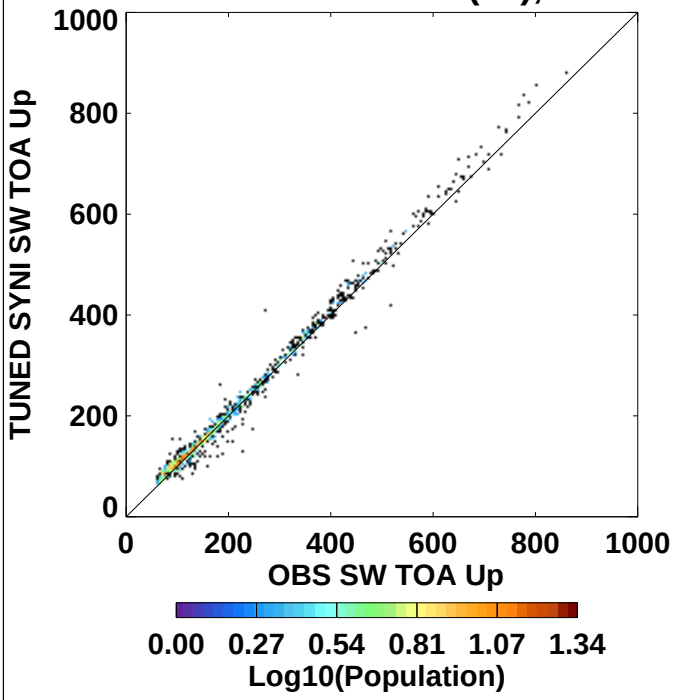
SYNI Beta3 Year 2002: Spatial Subset (aka STS) AllSky MAN

Tuned TOA SW UP(Hr)CERES



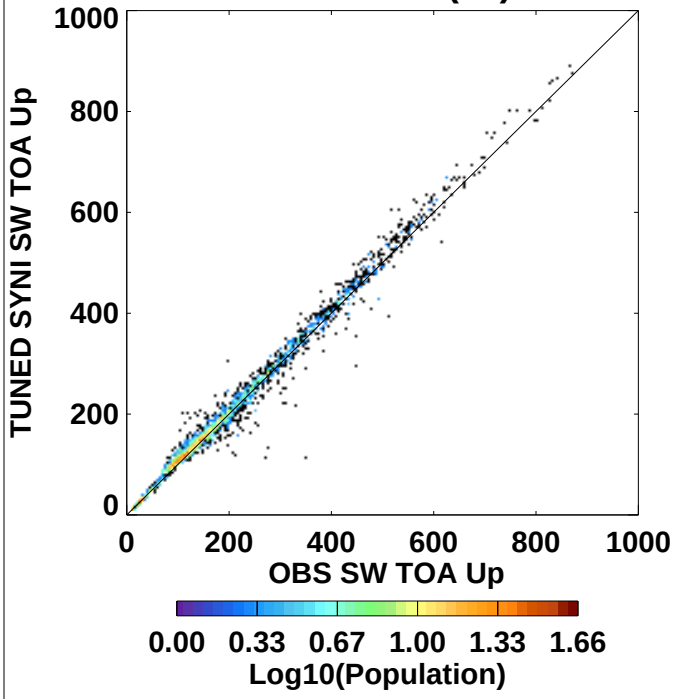
N= 323.	Mean	(StdDev)
OBS SW TOA Up	259.5(	179.5)
TUNED SYNI SW TOA Up	267.5(	180.9)
Y-X	8.01(	12.62)
RMS(	14.93).....	

Tuned TOA SW UP(Hr),GEO



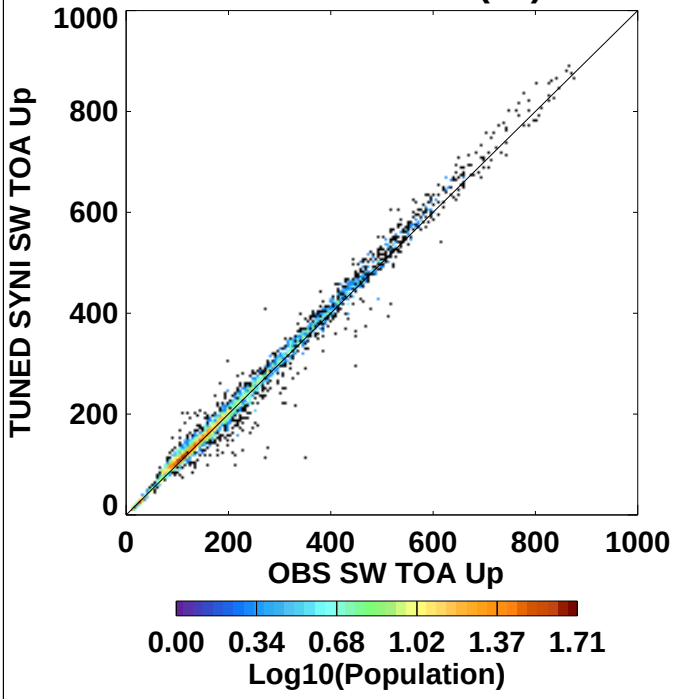
N= 1294.	Mean	(StdDev)
OBS SW TOA Up	204.7(	145.1)
TUNED SYNI SW TOA Up	209.5(	148.3)
Y-X	4.87(	14.42)
RMS(	15.22).....	

Tuned TOA SW UP(Hr)INTERP



N= 2780.	Mean	(StdDev)
OBS SW TOA Up	200.5(	150.6)
TUNED SYNI SW TOA Up	206.3(	152.6)
Y-X	5.80(	16.99)
RMS(	17.95).....	

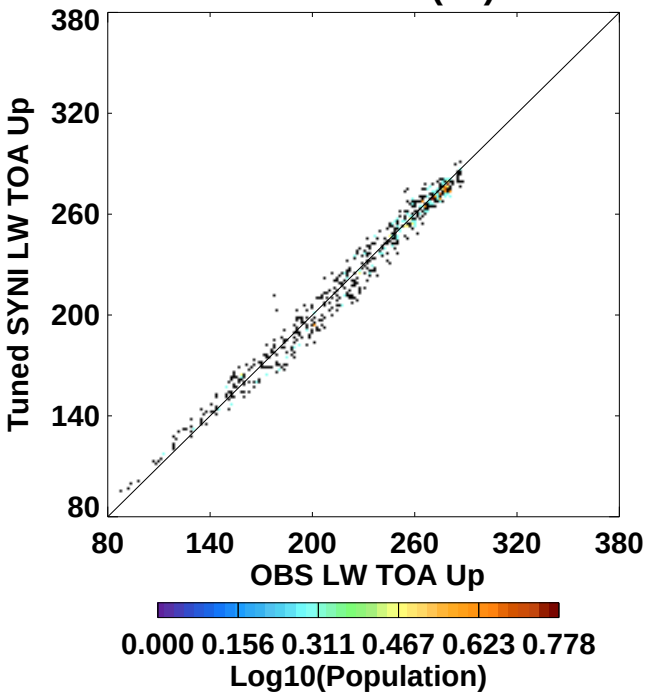
Tuned TOA SW UP(Hr)ALL



N= 4397.	Mean	(StdDev)
OBS SW TOA Up	206.0(	152.0)
TUNED SYNI SW TOA Up	211.7(	154.4)
Y-X	5.69(	16.00)
RMS(	16.98).....	

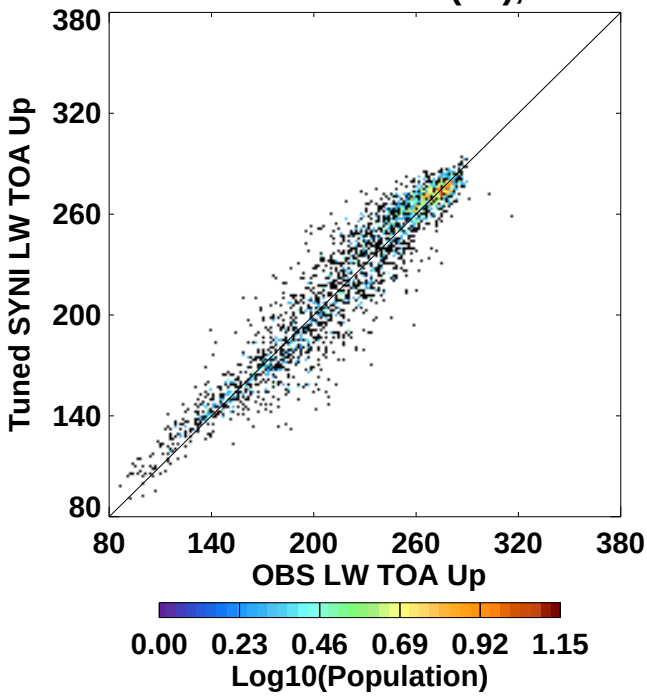
SYNI Beta3 Year 2002: Spatial Subset (aka STS) AllSky MAN

Tuned TOA LW UP(Hr)CERES



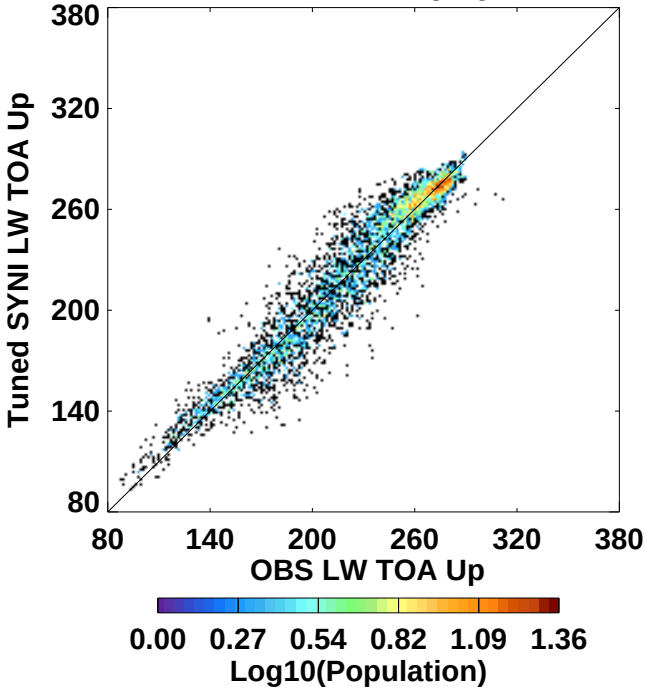
N= 629.	Mean	(StdDev)
OBS LW TOA Up	226.2	(47.22)
Tuned SYNI LW TOA Up	225.4	(46.88)
Y-X	-0.821	(6.54)
RMS(	6.59).....	

Tuned TOA LW UP(Hr),GEO



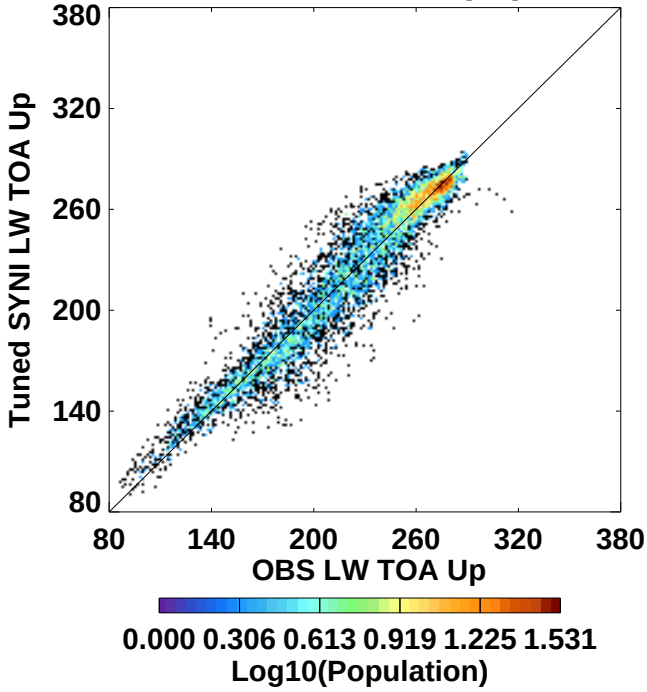
N= 2631.	Mean	(StdDev)
OBS LW TOA Up	224.4	(47.08)
Tuned SYNI LW TOA Up	225.5	(48.26)
Y-X	1.03	(14.21)
RMS(	14.25).....	

Tuned TOA LW UP(Hr)INTERP



N= 5494.	Mean	(StdDev)
OBS LW TOA Up	223.2	(45.85)
Tuned SYNI LW TOA Up	223.8	(47.28)
Y-X	0.614	(12.80)
RMS(	12.82).....	

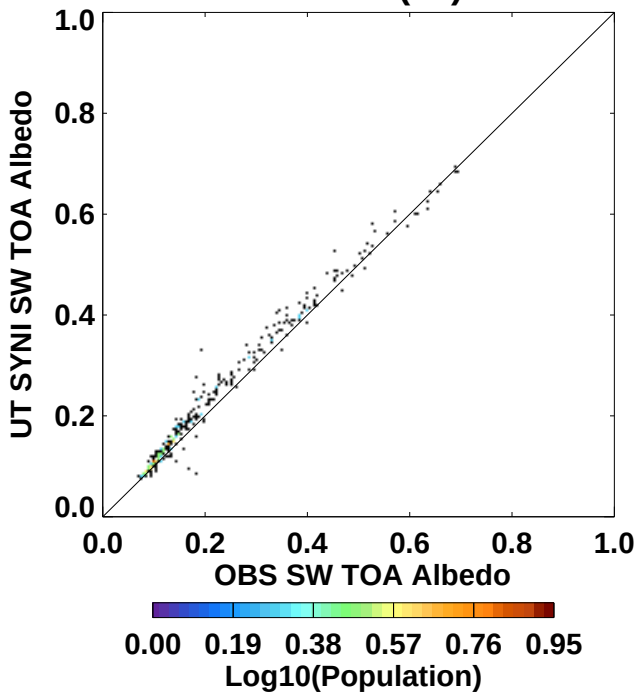
Tuned TOA LW UP(Hr)ALL



N= 8754.	Mean	(StdDev)
OBS LW TOA Up	223.8	(46.32)
Tuned SYNI LW TOA Up	224.4	(47.55)
Y-X	0.635	(12.92)
RMS(	12.93).....	

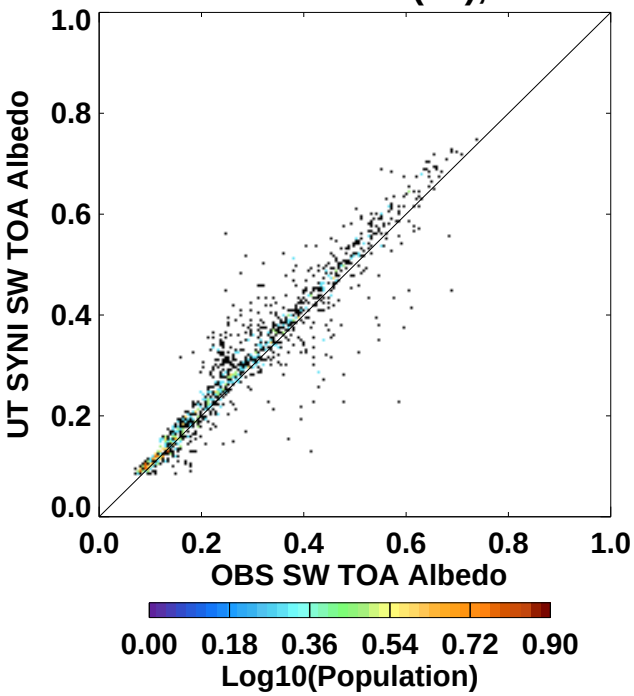
SYNI Beta3 Year 2002: Spatial Subset (aka STS) AllSky MAN

UT TOA Albedo(Hr)CERES



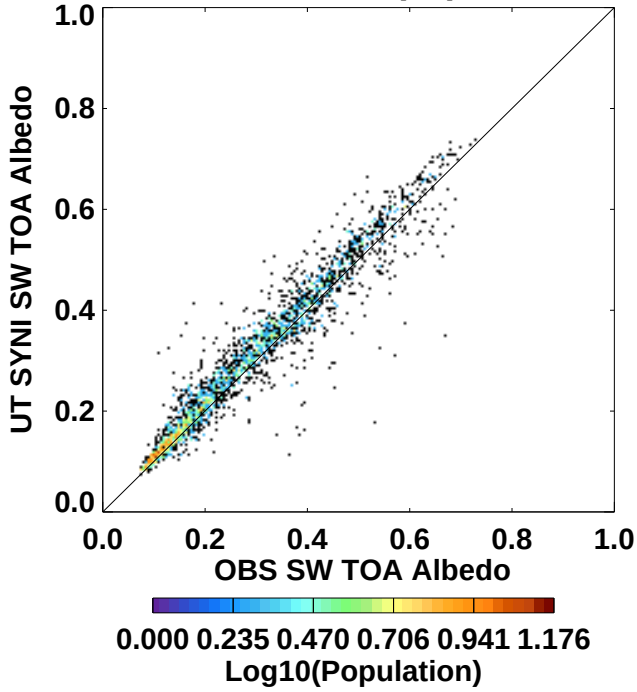
N= 323.	Mean	(StdDev)
OBS SW TOA Albedo	0.219(	0.150)
UT SYNI SW TOA Albedo	0.234(	0.153)
Y-X	0.015(	0.020)
RMS(	0.025).....	

UT TOA Albedo(Hr),GEO



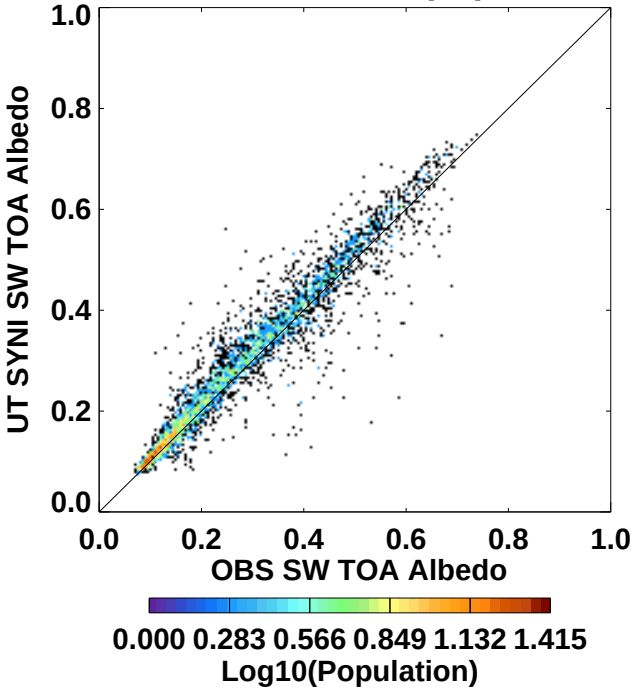
N= 1294.	Mean	(StdDev)
OBS SW TOA Albedo	0.283(	0.151)
UT SYNI SW TOA Albedo	0.298(	0.157)
Y-X	0.014(	0.048)
RMS(	0.050).....	

UT TOA Albedo(Hr)INTERP



N= 2780.	Mean	(StdDev)
OBS SW TOA Albedo	0.288(	0.151)
UT SYNI SW TOA Albedo	0.303(	0.153)
Y-X	0.015(	0.039)
RMS(	0.042).....	

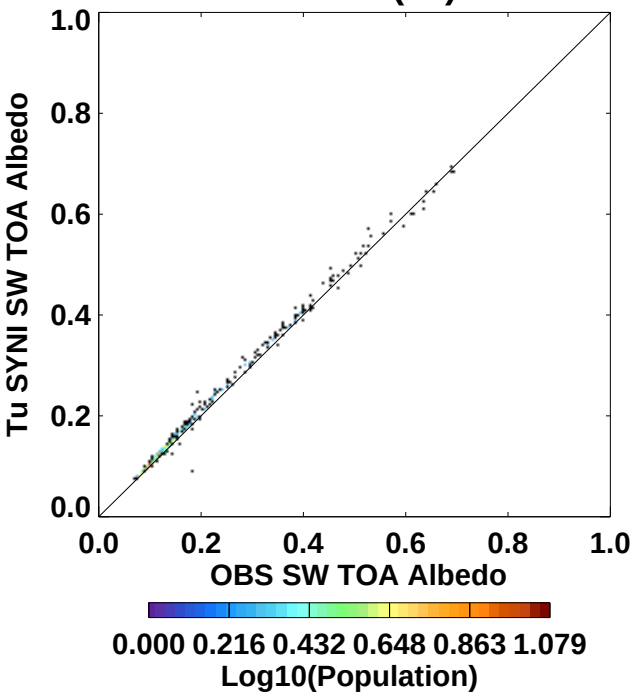
UT TOA Albedo(Hr)ALL



N= 4397.	Mean	(StdDev)
OBS SW TOA Albedo	0.281(	0.152)
UT SYNI SW TOA Albedo	0.296(	0.155)
Y-X	0.015(	0.041)
RMS(	0.044).....	

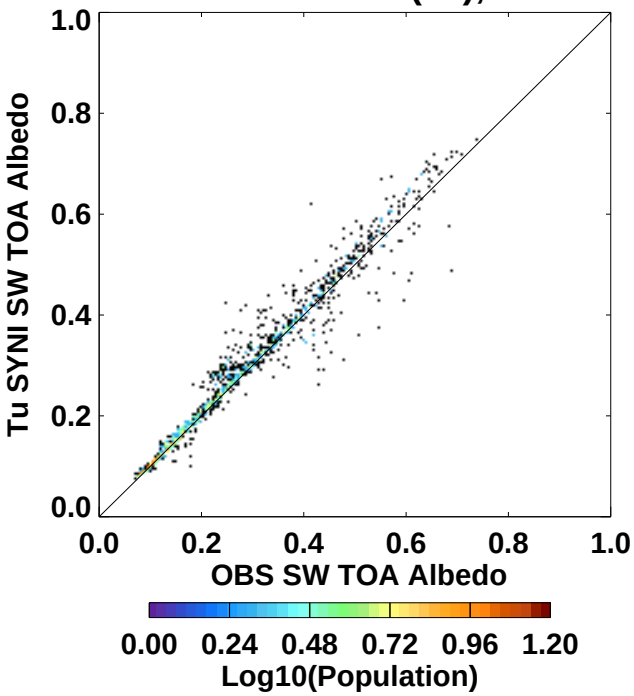
SYNI Beta3 Year 2002: Spatial Subset (aka STS) AllSky MAN

Tu TOA Albedo(Hr)CERES



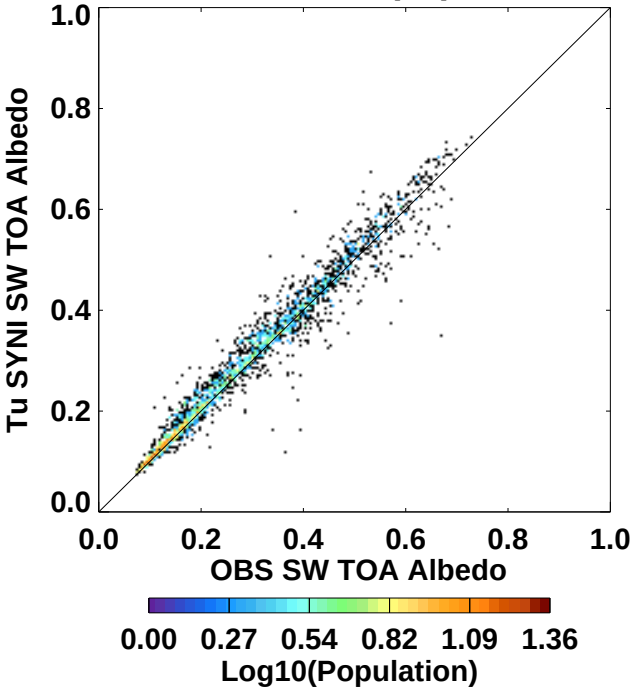
N= 323.	Mean	(StdDev)
OBS SW TOA Albedo	0.219(	0.150)
Tu SYNI SW TOA Albedo	0.225(	0.152)
Y-X	0.007(	0.011)
RMS(	0.013).....	

Tu TOA Albedo(Hr),GEO



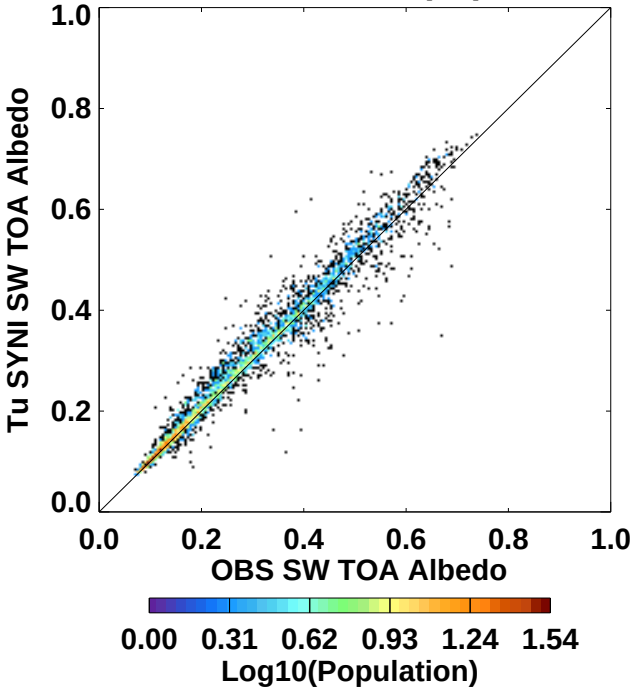
N= 1294.	Mean	(StdDev)
OBS SW TOA Albedo	0.283(	0.151)
Tu SYNI SW TOA Albedo	0.292(	0.155)
Y-X	0.009(	0.031)
RMS(	0.032).....	

Tu TOA Albedo(Hr)INTERP



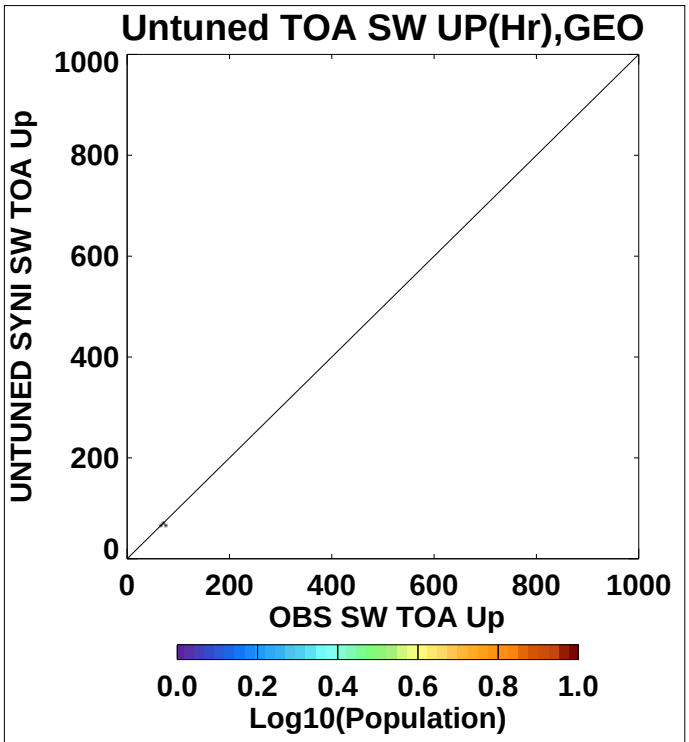
N= 2780.	Mean	(StdDev)
OBS SW TOA Albedo	0.288(	0.151)
Tu SYNI SW TOA Albedo	0.297(	0.152)
Y-X	0.009(	0.029)
RMS(	0.031).....	

Tu TOA Albedo(Hr)ALL

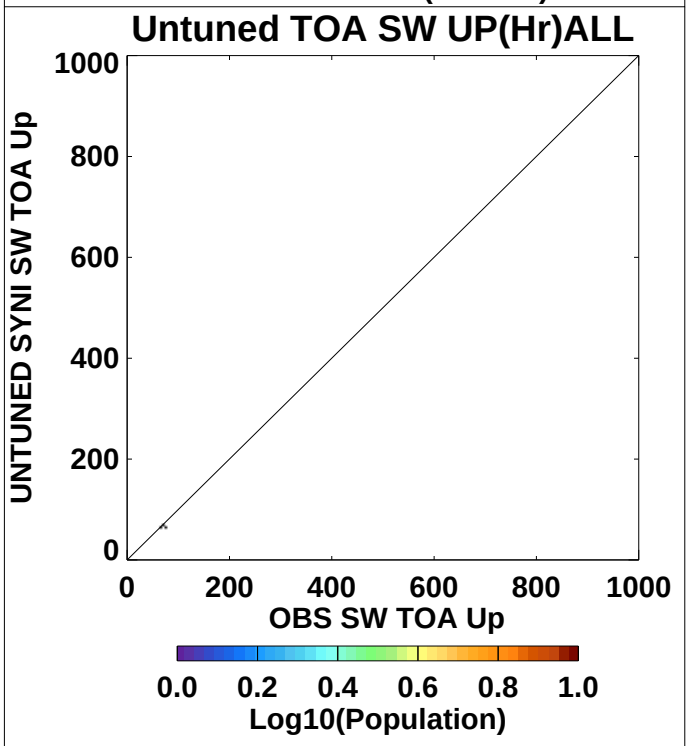


N= 4397.	Mean	(StdDev)
OBS SW TOA Albedo	0.281(	0.152)
Tu SYNI SW TOA Albedo	0.290(	0.154)
Y-X	0.009(	0.029)
RMS(	0.030).....	

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



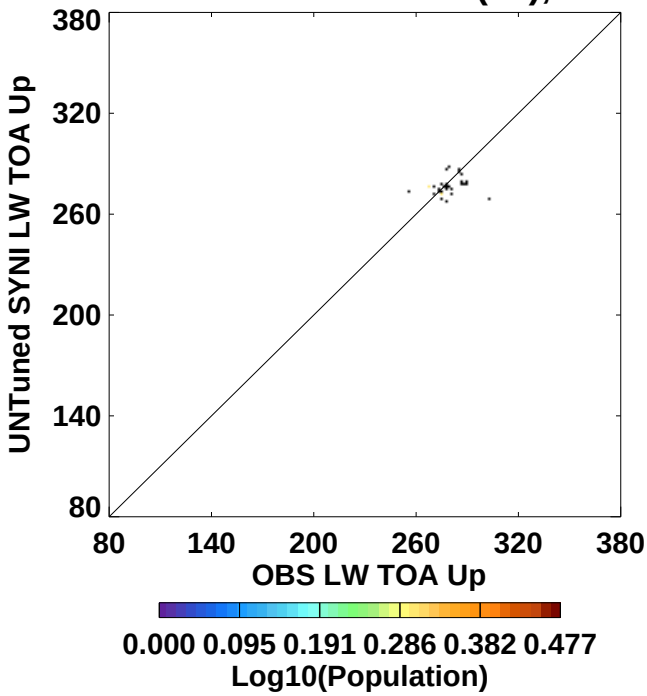
N=	3.	Mean	(StdDev)
OBS SW TOA Up		61.70(	5.52)
UNTUNED SYNI SW TOA Up		60.78(	3.35)
Y-X		-0.921(	5.80)
RMS(		4.82).....	



N=	3.	Mean	(StdDev)
OBS SW TOA Up		61.70(	5.52)
UNTUNED SYNI SW TOA Up		60.78(	3.35)
Y-X		-0.921(	5.80)
RMS(		4.82).....	

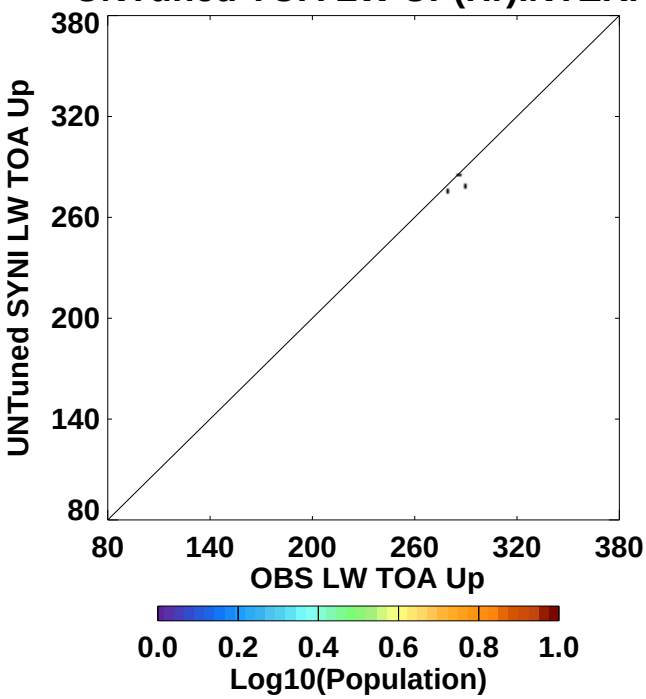
SYNI Beta3 Year 2002: Spatial Subset (aka STS) ClearSky 1% MAN

UNTuned TOA LW UP(Hr),GEO



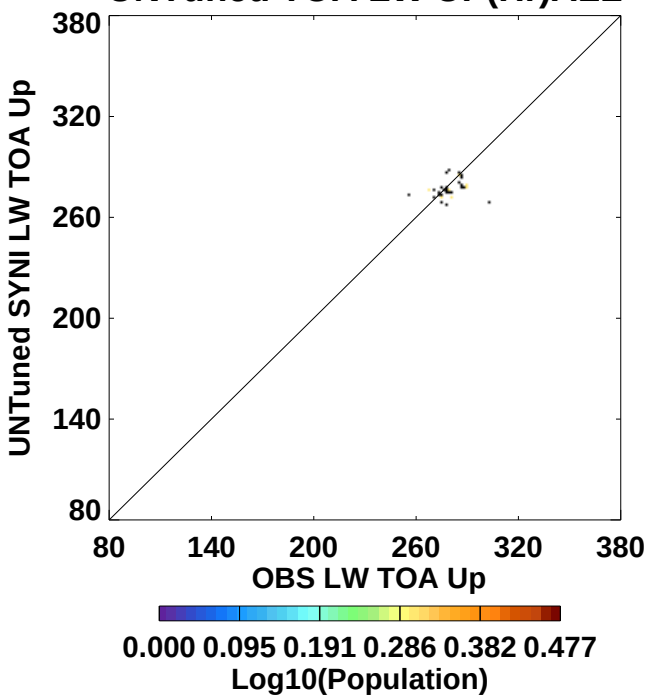
N= 33.	Mean	(StdDev)
OBS LW TOA Up	279.6(	8.54)
UNTuned SYNI LW TOA Up	277.5(	5.05)
Y-X	-2.11(	8.90)
RMS(	9.02).....	

UNTuned TOA LW UP(Hr)INTERP



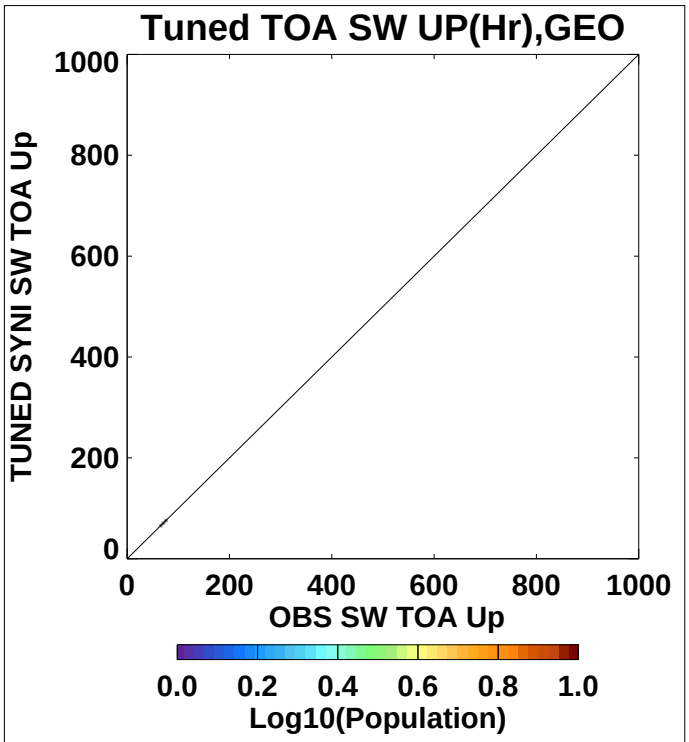
N= 6.	Mean	(StdDev)
OBS LW TOA Up	285.8(	4.58)
UNTuned SYNI LW TOA Up	280.6(	4.60)
Y-X	-5.18(	4.79)
RMS(	6.78).....	

UNTuned TOA LW UP(Hr)ALL

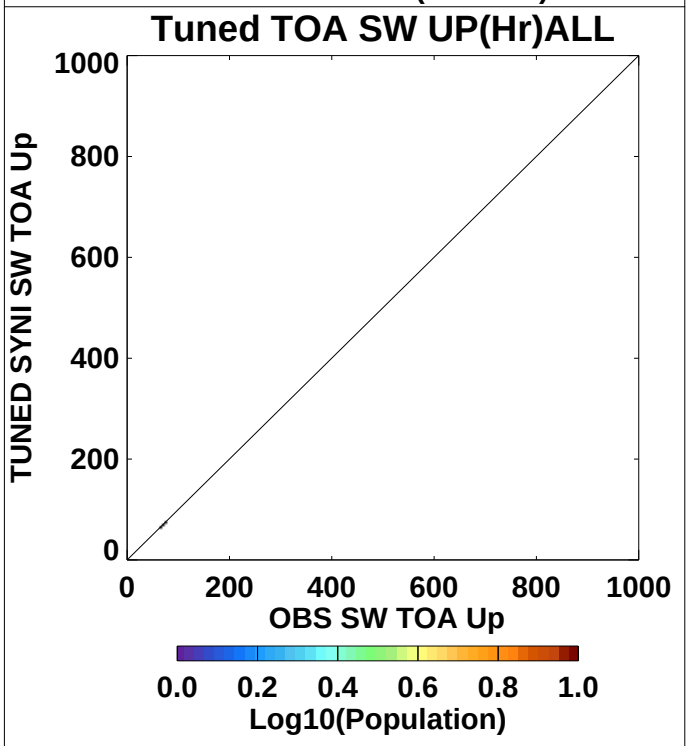


N= 41.	Mean	(StdDev)
OBS LW TOA Up	280.7(	8.15)
UNTuned SYNI LW TOA Up	277.9(	5.01)
Y-X	-2.78(	8.27)
RMS(	8.63).....	

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



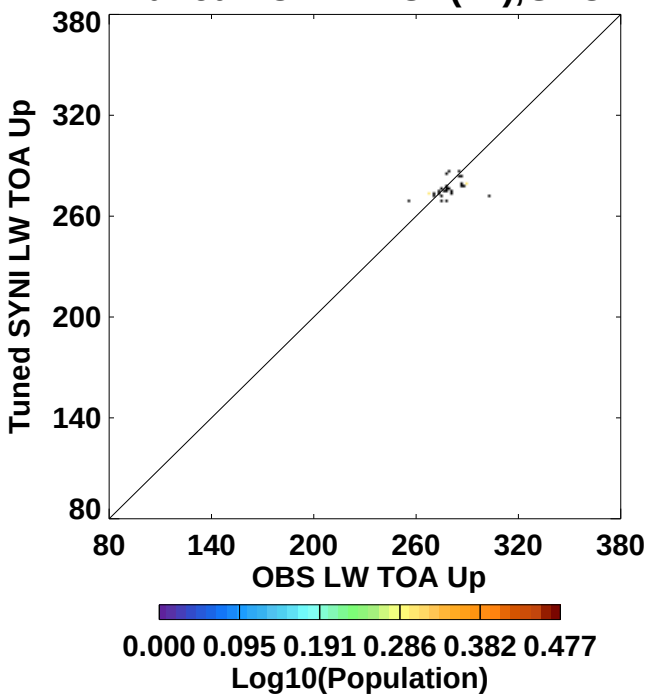
N=	3.	Mean	(StdDev)
	OBS SW TOA Up	61.70(	5.52)
	TUNED SYNI SW TOA Up	61.94(	4.91)
	Y-X	0.242(	0.912)
	RMS(	0.783).....	



N=	3.	Mean	(StdDev)
	OBS SW TOA Up	61.70(	5.52)
	TUNED SYNI SW TOA Up	61.94(	4.91)
	Y-X	0.242(	0.912)
	RMS(	0.783).....	

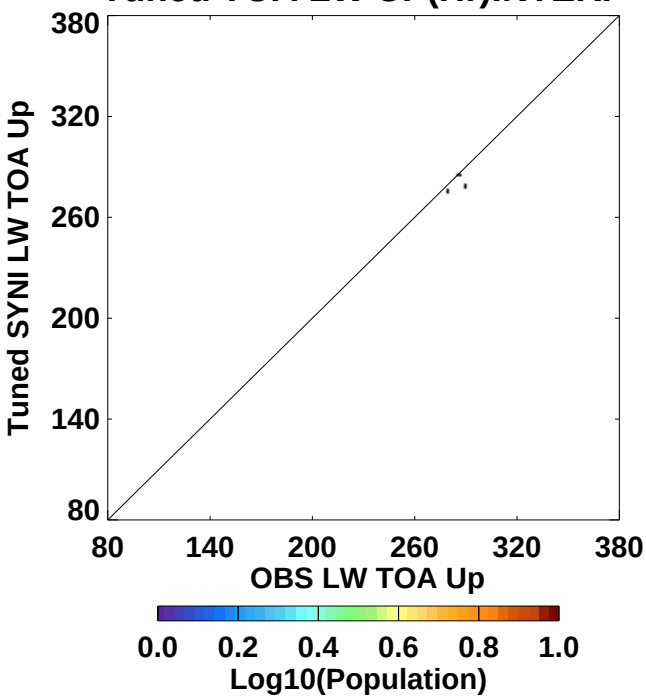
SYNI Beta3 Year 2002: Spatial Subset (aka STS) ClearSky 1% MAN

Tuned TOA LW UP(Hr),GEO



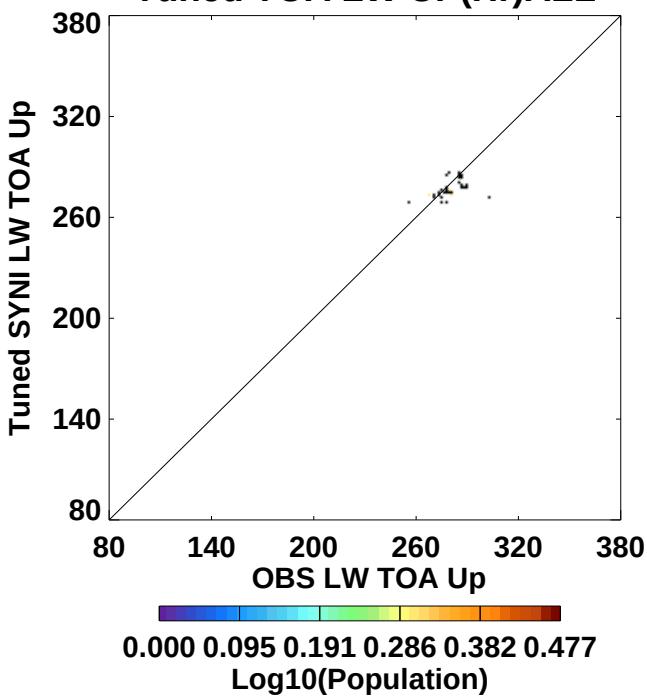
N= 33.	Mean	(StdDev)
OBS LW TOA Up	279.6(	8.54)
Tuned SYNI LW TOA Up	276.9(	4.88)
Y-X	-2.66(	7.67)
RMS(	8.01).....	

Tuned TOA LW UP(Hr)INTERP



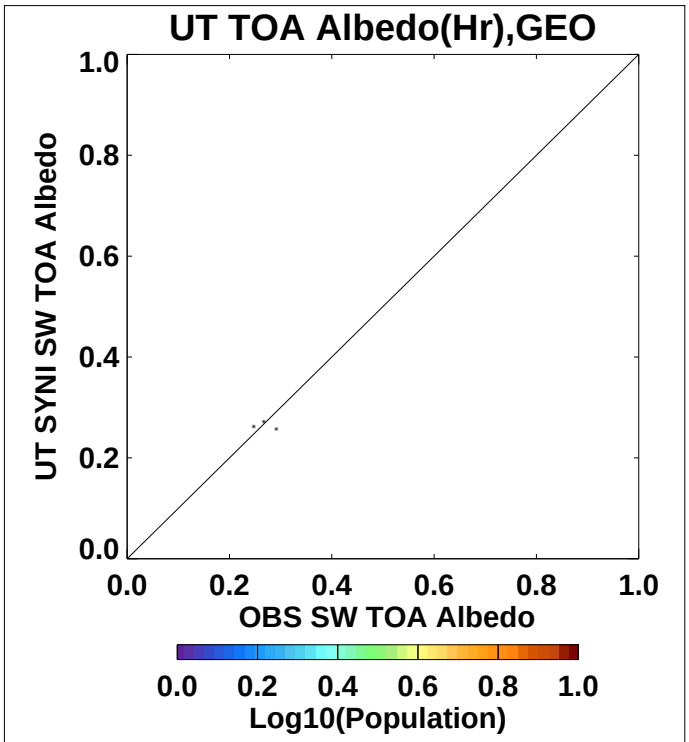
N= 6.	Mean	(StdDev)
OBS LW TOA Up	285.8(	4.58)
Tuned SYNI LW TOA Up	280.8(	4.58)
Y-X	-4.97(	4.59)
RMS(	6.50).....	

Tuned TOA LW UP(Hr)ALL

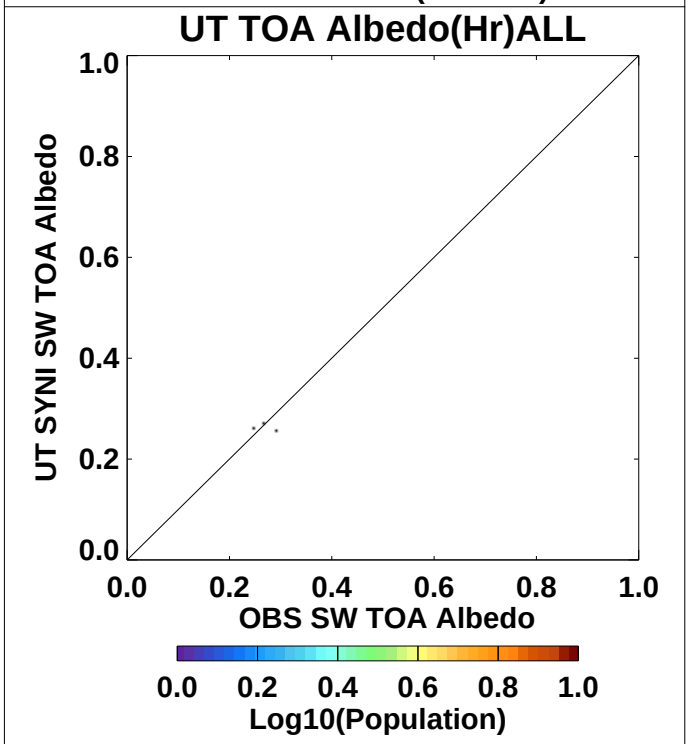


N= 41.	Mean	(StdDev)
OBS LW TOA Up	280.7(	8.15)
Tuned SYNI LW TOA Up	277.5(	4.92)
Y-X	-3.18(	7.14)
RMS(	7.73).....	

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

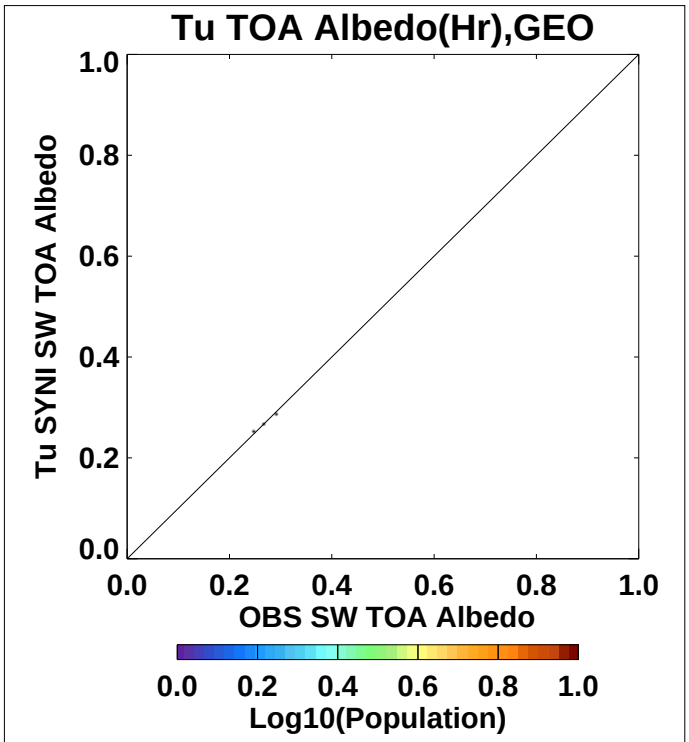


N=	3.	Mean	(StdDev)
	OBS SW TOA Albedo	0.264(	0.021)
	UT SYNI SW TOA Albedo	0.260(	0.008)
	Y-X	-0.004(	0.024)
	RMS(	0.020).....	

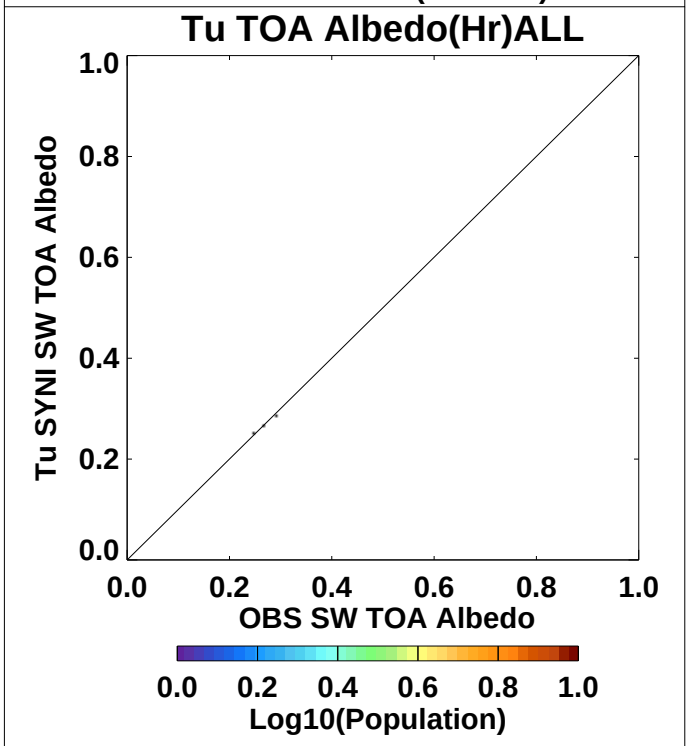


N=	3.	Mean	(StdDev)
	OBS SW TOA Albedo	0.264(	0.021)
	UT SYNI SW TOA Albedo	0.260(	0.008)
	Y-X	-0.004(	0.024)
	RMS(	0.020).....	

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



N=	3.	Mean	(StdDev)
	OBS SW TOA Albedo	0.264(	0.021)
	Tu SYNI SW TOA Albedo	0.265(	0.018)
	Y-X	0.001(	0.004)
	RMS(	0.003).....	



N=	3.	Mean	(StdDev)
	OBS SW TOA Albedo	0.264(	0.021)
	Tu SYNI SW TOA Albedo	0.265(	0.018)
	Y-X	0.001(	0.004)
	RMS(	0.003).....	