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Supplement of

Evaluation of multiple climate data sources for managing environmental resources in East Africa

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Supplementary material

Table S1: Evaluation results of individual RCMs against field meteorological stations covering the period of 1983–2005 for 21 validation areas of East Africa.

Validation area	HadGEM2			GFDL			MPI		
	CC	Rbias	RMSE	CC	Rbias	RMSE	CC	Rbias	RMSE
EthioShed1	0.44	-41.2	6.50	0.37	-36.1	6.97	0.43	-34.3	6.47
EthioShed2	0.4	37.0	5.40	0.29	63.1	7.08	0.37	37.1	5.4
EthioShed3	0.53	6.4	5.65	0.41	-37.7	5.64	0.50	16.7	6.1
EthioShed4	0.30	40.6	7.36	0.13	29.4	8.24	0.25	45.3	7.66
EthioShed5	0.11	-25.4	4.98	0.1	7.00	6.34	0.12	-9.60	5.10
EthioShed6	0.19	67.7	6.20	0.13	61.85	11.85	0.18	83.5	6.41
EthioShed7	0.34	-16.5	6.23	0.25	11.7	8.22	0.31	-7.1	6.43
EthioShed8	0.30	-6.0	7.73	0.26	53.6	11.42	0.29	18.0	8.28
EthioShed9	0.10	-58.5	4.37	0.10	-19.4	5.97	0.05	-41.6	4.98
EthioShed10	0.44	34.7	5.84	0.22	45.2	7.8	0.38	37.3	6.02
EthioShed11	0.07	-71.8	5.02	0.04	-38.7	5.64	0.14	-45.4	5.07
EthioShed12	0.04	-50.2	4.11	0.03	22.5	4.94	0.06	-16.9	4.35
EthioShed13	0.23	10.2	6.43	0.12	-2.0	6.86	0.19	28.7	6.89
EthioShed14	0.12	53.3	4.94	0.02	-51.5	5.41	0.10	-42.2	5.14
EthioShed15	0.18	20.1	5.28	0.08	56.4	6.53	0.15	36.8	5.44
EthioShed16	0.14	-9.0	5.51	0.10	40.1	7.45	0.12	1.9	5.75
EthioShed17	0.16	-25.7	4.46	0.1	-3.7	5.64	0.17	-13.9	4.56
KenShed1	0.01	-20.9	4.9	0.04	55.7	6.11	0.13	28.1	5.17
KenShed2	0.13	-6.1	7.27	0.13	61.6	12.91	0.2	45.2	8.03
TanzShed1	0.07	-10	6.5	0.1	94.1	8.45	0.124	24.9	6.79
TanzShed2	0.19	-22	0.23	0.16	39	0.23	0.13	27	0.23

Table S2: The performance of individual rainfall products in representing the observed daily rainfall characteristics in the 21 validation areas. The values for CHIRP, ARC2, CHIRPS, Had, MPI, GFDL, and RCMs is given as a percentage of deviation from the observed values. Lowest deviations are marked in bold. Rainfall characteristics (RC) 1, 2,3,4,5 and 6 represent (1) Number of wet days (days/year), (2) Average duration of wet periods (days), (3) Total amount of precipitation (mm/year), (4) Average amount of wet periods (mm), (5) Average duration of dry periods (days), and (6) Average daily precipitation (mm/day), respectively.

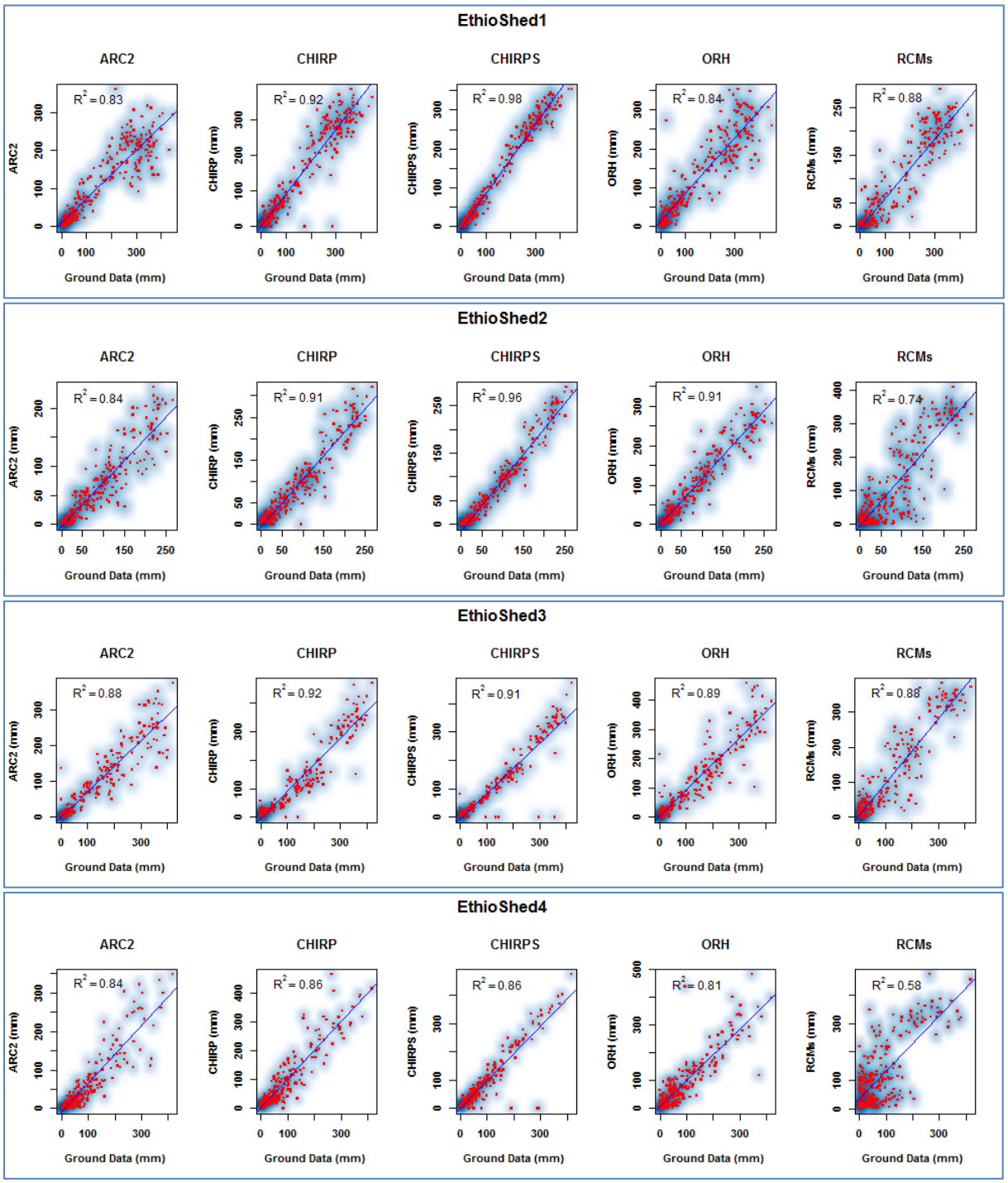
Validation area	RC	Observed	CHIRP	ARC2	CHIRPS	ORH	HadGEM2	MPI	GFDL	RCMs
EthShde1	1	268.3	-24.6	14.9	12.9	26.5	16.2	6.7	32.2	**-4.7**
	2	10.2	-91.4	26.3	17.3	244.5	-46.1	-36.8	**-14.9**	-44.8
	3	1824.4	**9.2**	43.0	15.6	24.6	76.2	57.6	61.9	64.8
	4	69.2	-87.6	57.2	20.1	239.2	-18.3	-6.6	**4.2**	-4.6
	5	3.7	154.9	**-9.0**	-21.0	72.0	-65.1	-49.5	-61.5	-32.8
	6	6.8	44.8	24.5	2.4	**-1.5**	51.6	47.7	22.4	72.9
EthShde2	1	242.8	-32.1	28.2	23.5	20.2	10.2	**1.8**	11.8	-20.1
	2	8.4	-96.4	12.2	20.4	204.9	-23.9	-26.8	**-3.7**	-46.8
	3	985.0	**-3.9**	40.7	8.1	-13.5	-24.2	-24.4	-36.5	-28.9
	4	34.2	-94.9	23.0	**5.4**	119.6	-47.7	-45.6	-45.3	-52.7

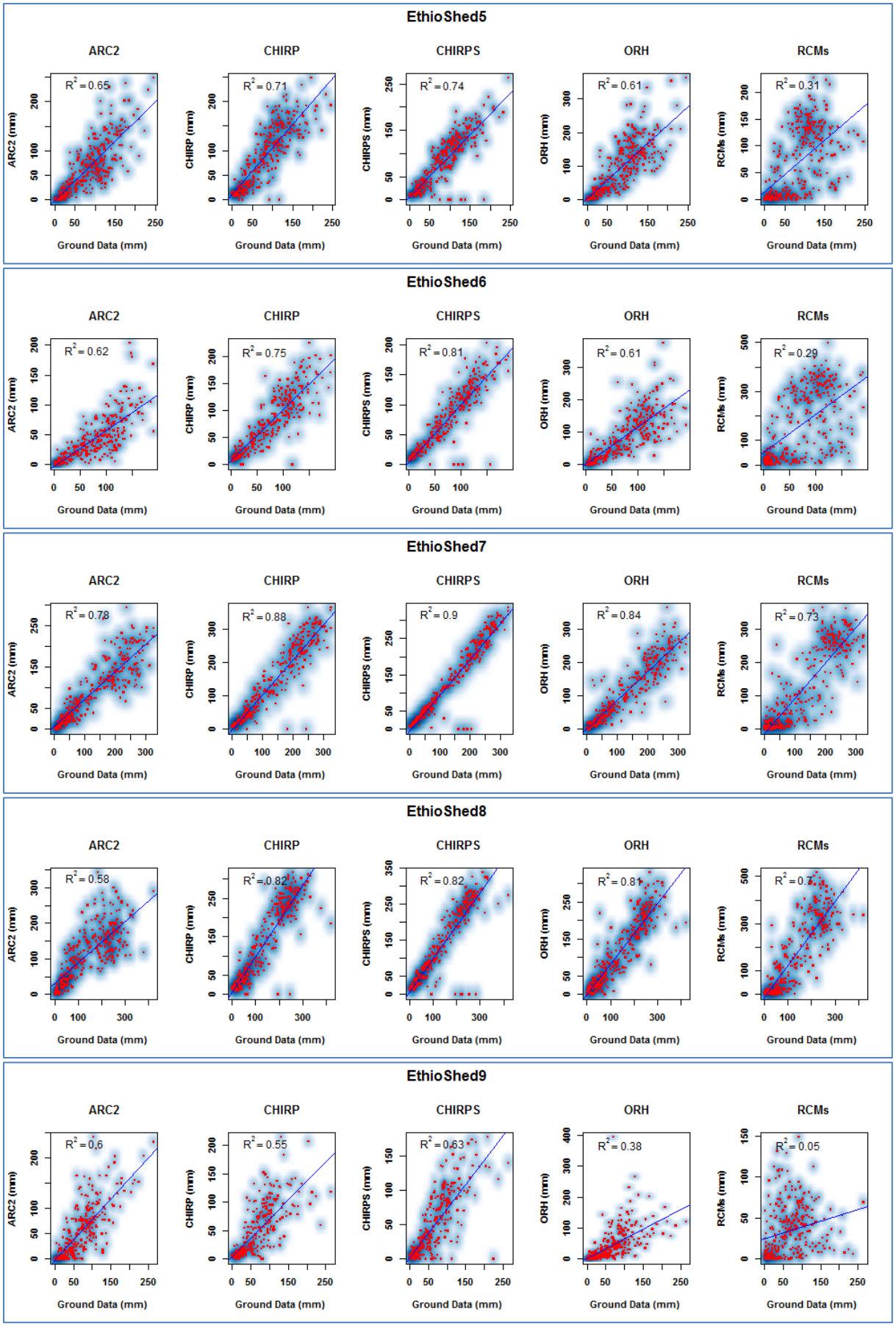
	5	4.2	183.2	-33.6	-29.3	90.1	-39.4	-30.6	**-28.7**	32.5
	6	4.1	41.5	**9.7**	-12.5	-28.0	-31.3	-25.7	-43.2	-11.1
EthShde3	1	215.2	-40.1	14.9	**-8.3**	15.3	-9.0	-12.6	19.9	-24.6
	2	9.4	-98.6	**8.1**	18.8	241.1	-35.6	-35.3	21.0	-44.6
	3	1299.8	12.7	41.3	16.8	10.5	-7.4	-15.8	57.7	**3.3**
	4	57.1	-97.4	32.9	51.4	227.1	-36.6	-37.6	59.2	**-24.1**
	5	6.4	369.2	-15.8	58.1	141.8	-24.0	**-9.1**	-20.5	34.5
	6	6.0	88.2	23.0	27.4	-4.1	**-1.6**	-3.7	31.5	37.0
EthShde4	1	166.9	-53.0	34.0	**-3.6**	4.9	-27.5	-31.0	-23.3	-47.4
	2	5.1	-95.3	41.9	**30.5**	139.1	-55.5	-53.5	-35.3	-72.1
	3	944.0	-3.2	60.5	**0.2**	-1.1	-30.7	-33.0	-25.4	-30.0
	4	29.0	-90.3	69.9	**35.7**	125.5	-57.4	-54.8	-37.0	-62.9
	5	6.1	296.5	-7.5	47.5	118.1	**-6.5**	7.7	13.0	117.9
	6	5.7	105.8	19.8	4.0	-5.7	-4.5	-2.9	**-2.7**	33.1
EthShde5	1	275.4	-22.7	32.4	20.7	48.3	26.7	12.6	40.6	**-1.4**
	2	8.4	-94.7	60.9	52.5	230.6	-38.7	-40.2	**-20.7**	-47.0
	3	1046.8	-6.9	29.0	**1.8**	-11.3	49.1	22.1	3.3	21.8
	4	31.8	-93.6	56.7	**28.6**	97.8	-28.9	-35.2	-41.7	-34.5
	5	2.7	73.8	-23.4	**-10.1**	11.4	-69.5	-60.4	-70.0	-43.8
	6	3.8	20.5	**-2.6**	-15.7	-40.2	17.6	8.5	-26.5	23.6
EthShde6	1	244.0	-31.8	19.5	**0.0**	20.1	0.0	-9.6	-4.9	-24.8
	2	7.3	-96.9	43.1	**17.4**	156.8	-48.2	-51.4	-51.2	-68.2
	3	914.8	-4.0	80.6	**-1.8**	-14.4	-40.2	-45.5	-68.6	-55.3
	4	27.5	-95.6	116.2	**15.3**	83.1	-69.0	-70.7	-83.9	-81.1
	5	3.6	131.8	**-0.9**	29.0	59.9	-45.8	-31.8	-42.5	24.6
	6	3.7	40.7	51.1	**-1.8**	-28.7	-40.2	-39.7	-67.0	-40.5
EthShde7	1	267.5	-24.8	14.6	**7.5**	56.2	11.4	8.4	22.4	-11.1
	2	9.5	-92.4	43.2	32.3	344.8	-42.8	-32.1	**-17.5**	-50.6
	3	1662.5	**-3.3**	42.1	4.8	15.8	20.2	7.6	-10.5	4.1
	4	59.1	-90.3	77.4	**28.9**	229.6	-38.3	-29	-39.7	-42.1
	5	3.5	130.1	**4.1**	13.9	43.2	-58.1	-37.6	-55.0	-15.2
	6	6.2	28.5	23.9	**-2.5**	-25.9	7.9	5.1	-26.8	17.2
EthShde8	1	289.3	-19.2	16.3	**4.9**	45.1	10.7	5.2	24.6	-9.2
	2	10.6	-95.4	53.3	18.9	330.6	-50.2	-44.9	**-15.8**	-59.6
	3	1778.8	3.5	26.7	**2.4**	23.5	2.5	-18.8	-37.6	-21.3
	4	65.0	-94.1	67.0	**16.1**	266.3	-53.9	-55.3	-57.8	-65.0
	5	2.8	110.9	**-1.9**	9.7	35.5	-65.3	-45.3	-61.4	-27.5
	6	6.1	28.0	8.9	**-2.3**	-14.9	-7.4	-18.9	-49.9	-13.4
EthShde9	1	244.3	-31.0	80.7	51.4	92.5	54.8	42.7	63.6	**-45.0**
	2	5.8	-93.2	64.3	67.0	239.9	**6.4**	16.8	36.4	-34.8
	3	813.1	36.6	33.2	**30.0**	50.4	182.5	100.8	45.3	93.2
	4	19.3	-86.5	**18.4**	46.7	165.6	94.3	64.4	21.2	32.5
	5	2.9	98.7	-48.9	-30.8	**-10.4**	-58.8	-49.0	-53.2	-23.5
	6	3.3	97.9	-28.0	-12.1	-21.9	82.5	40.7	**-11.2**	103.3
EthShde10	1	199.0	-44.4	63.5	**-0.3**	20.3	-10.8	-15.9	-7.5	-34.7

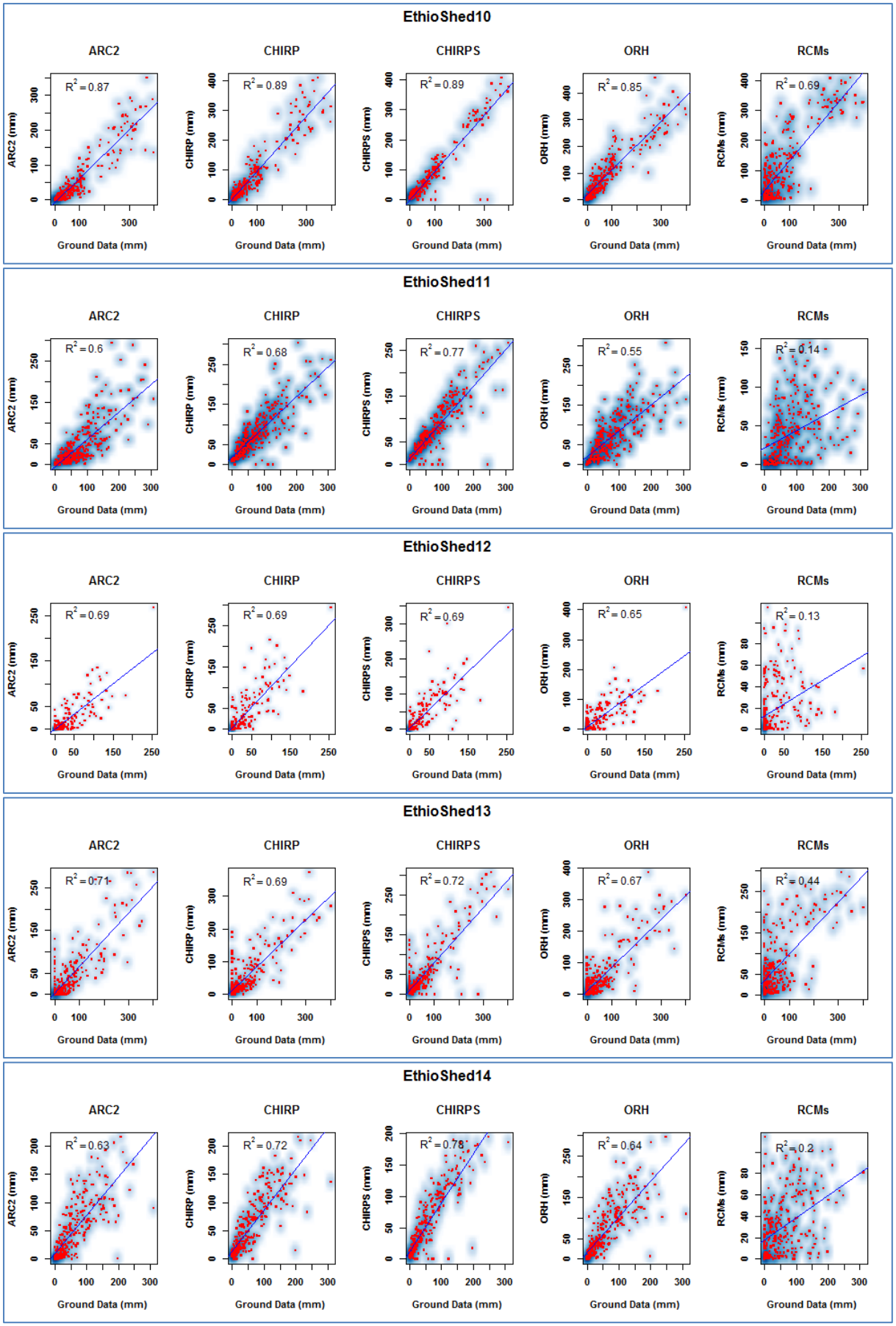
	2	6.8	-97.8	73.9	34.7	214.5	-38.5	-41.0	**-26.1**	-61.1
	3	992.7	**3.3**	66.5	4.9	-12.9	-25.7	-27.1	-31.1	-28.3
	4	33.9	-95.9	77.1	**41.8**	127.7	-48.8	-48.9	-44.9	-57.2
	5	5.7	242.5	-22.7	45.2	117.3	-16.1	**-9.4**	-11.2	64.0
	6	5.0	85.8	**1.8**	5.2	-27.6	-16.7	-13.4	-25.5	9.9
EthShde11	1	241.6	-32.2	42.6	5.6	**0.5**	12.2	-5.5	24.5	-19.6
	2	6.0	-96.1	59.7	**15.6**	76.4	-36.7	-49.8	-22.2	-68.2
	3	1001.4	**2.4**	68.6	3.3	12.2	257.3	83.1	63.1	107.7
	4	25.1	-94.1	88.7	13.1	96.9	101.8	-2.8	**1.9**	-17.9
	5	3.1	114.3	-23.6	**7.9**	73.6	-51.7	-40.1	-54.8	-24.7
	6	4.1	51.1	18.2	**-2.2**	11.6	218.5	93.8	31.0	158.3
EthShde12	1	32.0	-90.3	**-18.8**	-59.5	-69.1	-61.7	-72.0	-62.0	-82.2
	2	1.8	-90.2	-27.1	-15.3	**7.0**	-40.7	-50.5	-43.4	-68.3
	3	246.3	-18.9	47.9	-21.8	-26.1	103.3	20.3	-18.7	**17.1**
	4	14.2	**-17.7**	32.7	63.7	156.2	214.3	112.9	21.0	108.7
	5	18.6	1117.4	**-3.9**	153.1	342.9	86.6	136.2	76.9	225.3
	6	7.7	738.1	**82.1**	93.2	139.5	430.4	330.2	113.8	557.7
EthShde13	1	112.0	-61.9	**10.4**	-35.5	-22.8	-50.3	-51.7	-41.2	-64.0
	2	3.7	-98.0	24.8	**0.7**	88.4	-64.2	-64.3	-37.5	-77.3
	3	661.3	23.5	48.5	10.2	**5.0**	-19.0	-31.4	-13.9	-22.3
	4	22.0	-93.4	67.9	72.1	156.4	-41.7	-49.3	**-8.6**	-51.1
	5	6.6	323.9	**-9.4**	72.6	121.1	9.8	10.6	21.4	130.2
	6	5.9	224.0	**34.6**	70.9	36.1	62.8	42.2	46.3	115.6
EthShde14	1	145.5	-59.7	**0.6**	-24.9	-10.2	-21.4	-29.4	-15.3	-48.3
	2	3.2	-97.9	**-14.5**	-24.9	50.0	-54.7	-57.7	-37.6	-72.2
	3	709.4	2.3	21.6	**0.4**	-12.0	114.5	73.1	106.1	95.0
	4	15.8	-94.7	3.3	**0.4**	47.0	23.5	3.7	51.9	4.7
	5	4.9	171.2	**-9.3**	36.9	80.6	-27.6	-17.4	-16.3	40.2
	6	4.9	154.0	20.9	33.7	**-2.0**	172.8	145.1	143.3	277.1
EthShde15	1	80.9	-76.9	**-34.2**	-53.6	-62.2	-62.5	-66.9	-60.8	-71.7
	2	3.1	-95.3	-14.0	-15.9	**3.4**	-76.1	-77.5	-68.9	-79.3
	3	501.4	**5.3**	42.4	6.1	-55.8	-26.3	-36.5	-43.2	-36.2
	4	19.2	-78.5	86.1	92.5	**20.7**	-53.0	-56.9	-54.9	-53.4
	5	9.1	438.4	36.8	140.3	330.1	**5.5**	33.5	19.4	119.3
	6	6.2	356.8	116.3	128.9	**16.8**	96.5	91.5	44.8	125.5
EthShde16	1	164.3	-53.9	14.6	-21.9	**-11.6**	-19.8	-29.5	-23.4	-44.7
	2	3.7	-97.3	**-0.1**	-19.6	40.3	-59.5	-67.5	-54.9	-73.8
	3	822.5	-8.2	68.6	-12.2	-17.0	**4.2**	-8.7	-31.9	-15.1
	4	18.5	-94.7	47.0	**-9.6**	31.8	-47.4	-58.0	-59.9	-59.7
	5	4.1	182.6	**-22.8**	31.2	62.3	-40.2	-36.2	-28.2	27.2
	6	5.0	98.9	47.1	12.4	**-6.0**	29.8	29.4	-11.0	53.5
EthShde17	1	251.6	-29.8	20.8	**1.9**	17.6	16.6	3.1	21.9	-12.0
	2	8.5	-97.3	50.4	24.0	183.8	-34.3	-38.2	**-14.6**	-42.4
	3	917.6	-7.6	38.5	**-3.4**	-19.2	34.9	16.2	3.9	16.8
	4	30.9	-96.5	72.5	**17.6**	95.0	-24.0	-30.3	-27.2	-23.6

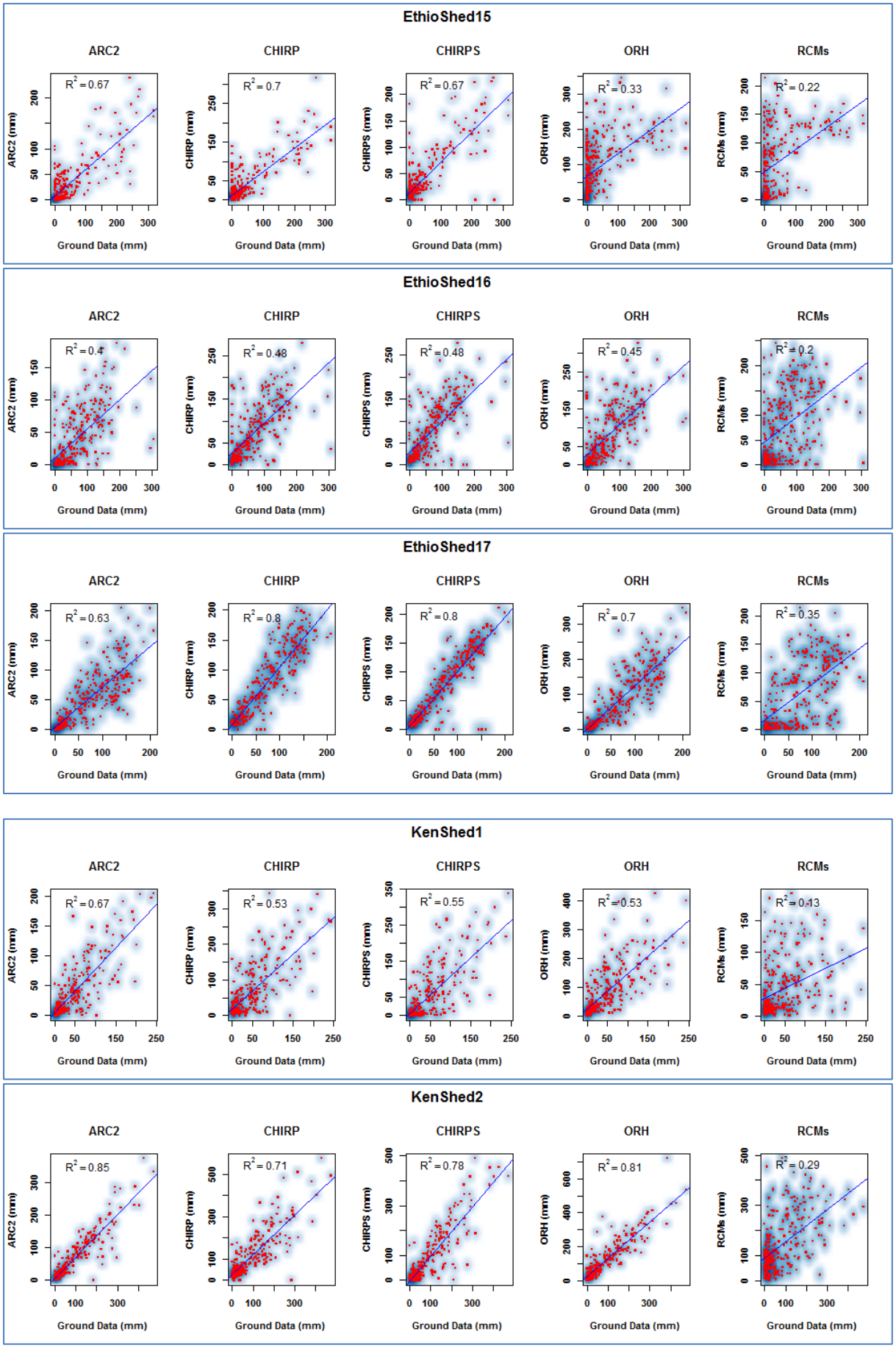
	5	3.8	151.8	**-0.6**	28.8	81.1	-55.6	-43.8	-49.7	-6.5
	6	3.6	31.5	14.7	**-5.2**	-31.3	15.6	12.7	-14.8	32.7
KenShed1	1	146.5	-58.6	-25.7	**16.2**	-47.0	-33.3	-39.8	-37.6	-53.7
	2	3.2	-96.5	-19.1	**-1.7**	-48.6	-51.1	-57.5	-62.4	-80.1
	3	554.6	-30.7	21.7	-14.3	-42.6	58.1	**0.8**	-13.7	6.5
	4	12.3	-94.2	32.5	-27.5	-44.4	**16.0**	-28.9	-48.0	-54.3
	5	4.8	215.7	56.1	-22.8	143.9	15.5	27.9	**2.2**	103.1
	6	3.8	67.7	63.7	-26.2	**8.2**	137.1	67.5	38.3	130.0
KenShed2	1	180.5	-48.1	**-4.9**	84.2	-38.6	-34.7	-41.9	-36.3	-47.8
	2	3.4	-92.9	**-9.4**	22.2	-54.3	-76.9	-83.9	-80.5	-91.8
	3	1018.0	-20.2	37.8	3.3	-24.7	**2.0**	-34.7	-61.7	-42.0
	4	18.9	-89.1	31.2	**-31.5**	-43.9	-63.9	-81.9	-88.3	-90.9
	5	3.2	91.5	**3.3**	-56.7	83.2	-26.1	-11.6	-34.5	41.3
	6	5.6	53.6	44.9	-44.0	22.7	56.2	12.4	-39.9	**11.2**
TanShed1	1	139.3	-59.7	5.7	**2.7**	-40.6	198.1	-51.5	-52.9	-61.0
	2	2.6	-89.6	-17.6	**-16.6**	-42.3	-78.8	-77.5	-80.5	-96.6
	3	705.5	-23.5	85.6	40.3	**-12.0**	579.8	-19.9	-48.5	-27.7
	4	13.3	-80.2	44.7	**14.0**	-14.4	-51.7	-62.8	-78.7	-93.7
	5	4.2	193.6	**-11.7**	-20.3	68.4	56.5	34.2	33.9	148.4
	6	5.1	89.9	75.6	36.7	48.3	128.1	65.3	**9.4**	85.8
TanShed2	1	74.4	-78.8	**-16.2**	-31.0	-51.4	-54.9	-74.7	-70.6	-78.9
	2	2.2	-94.3	-51.7	**-45.2**	-52.6	-74.6	-79.3	-70.9	-94.0
	3	626.3	-23.1	**-2.2**	-8.1	-36.3	39.6	-44.3	-49.8	-41.8
	4	17.8	-80.4	-46.2	-30.3	**-3.1**	-24.9	-56.4	-52.7	-84.2
	5	8.7	449.7	-29.7	**-10.3**	118.3	294.0	230.9	155.0	555.4
	6	8.0	246.8	**11.4**	27.1	25.2	195.4	110.0	62.8	163.7

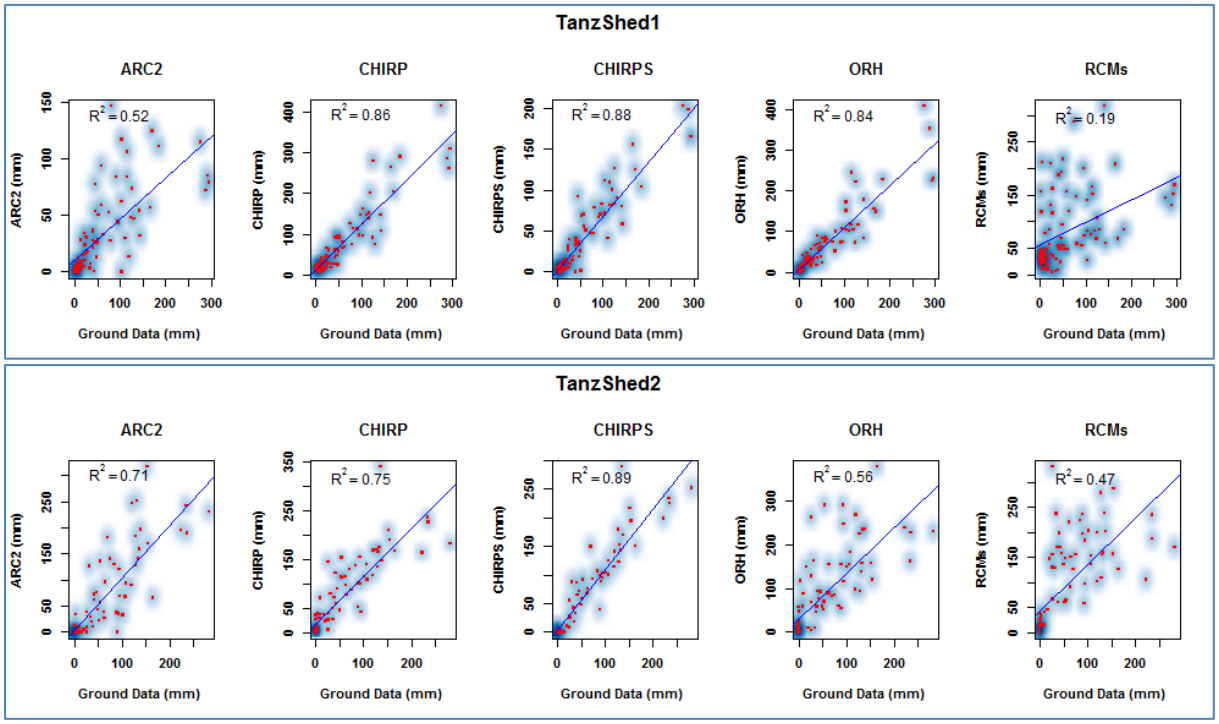
Fig. S1: Scatter plots of monthly rainfall for ARC2, CHIRP, CHIRPS, ORH, and RCMs for the 21 validation areas of Ethiopia (EthioShed1-17), Kenya (KenShed1-2), and Tanzania (TanzShed1-2) covering the period of 1983–2005 and aggregated from daily data. Shaded area displays the data density around the regression line.




EthioShed5
ARC2
CHIRP
CHIRPS
ORH
RCMs
R² = 0.65
R² = 0.71
R² = 0.74
R² = 0.61
R² = 0.31
EthioShed6
R² = 0.62
R² = 0.75
R² = 0.81
R² = 0.61
R² = 0.29
EthioShed7
R² = 0.78
R² = 0.88
R² = 0.9
R² = 0.84
R² = 0.73
EthioShed8
R² = 0.58
R² = 0.82
R² = 0.82
R² = 0.81
R² = 0.7
EthioShed9
R² = 0.6
R² = 0.55
R² = 0.63
R² = 0.38
R² = 0.05
ARC2 (mm)
CHIRP (mm)
CHIRPS (mm)
ORH (mm)
RCMs (mm)
Ground Data (mm)

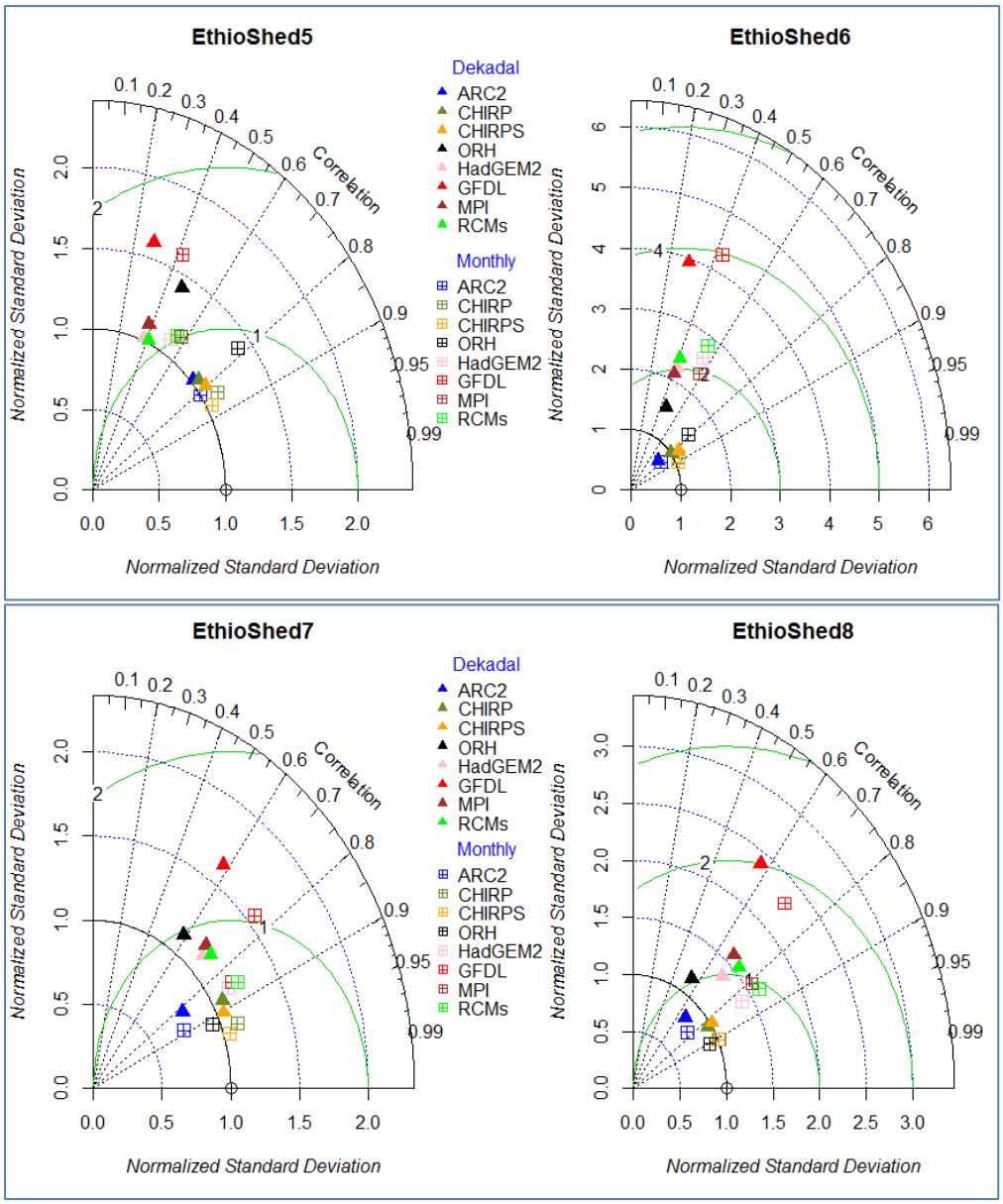

EthioShed10
ARC2
CHIRP
CHIRPS
ORH
RCMs
R² = 0.87
R² = 0.89
R² = 0.89
R² = 0.85
R² = 0.69
EthioShed11
R² = 0.6
R² = 0.68
R² = 0.77
R² = 0.55
R² = 0.14
EthioShed12
R² = 0.69
R² = 0.69
R² = 0.69
R² = 0.65
R² = 0.13
EthioShed13
R² = 0.71
R² = 0.69
R² = 0.72
R² = 0.67
R² = 0.44
EthioShed14
R² = 0.63
R² = 0.72
R² = 0.78
R² = 0.64
R² = 0.2
ARC2 (mm)
CHIRP (mm)
CHIRPS (mm)
ORH (mm)
RCMs (mm)
Ground Data (mm)

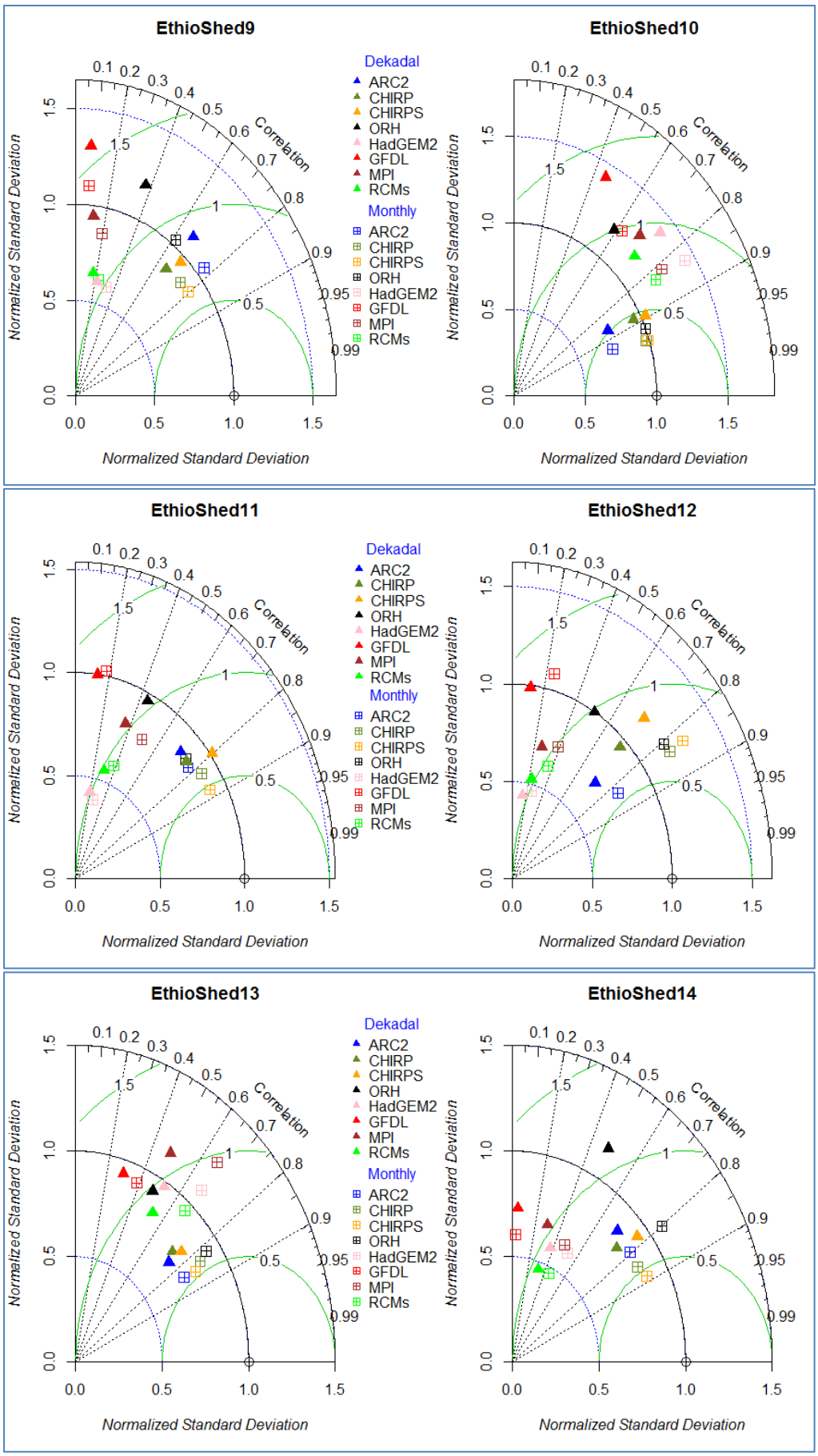

EthioShed15
ARC2
CHIRP
CHIRPS
ORH
RCMs
R² = 0.67
R² = 0.7
R² = 0.67
R² = 0.33
R² = 0.22
EthioShed16
R² = 0.4
R² = 0.48
R² = 0.48
R² = 0.45
R² = 0.2
EthioShed17
R² = 0.63
R² = 0.8
R² = 0.8
R² = 0.7
R² = 0.35
KenShed1
R² = 0.67
R² = 0.53
R² = 0.55
R² = 0.53
R² = 0.13
KenShed2
R² = 0.85
R² = 0.71
R² = 0.78
R² = 0.81
R² = 0.29
ARC2 (mm)
CHIRP (mm)
CHIRPS (mm)
ORH (mm)
RCMs (mm)
Ground Data (mm)

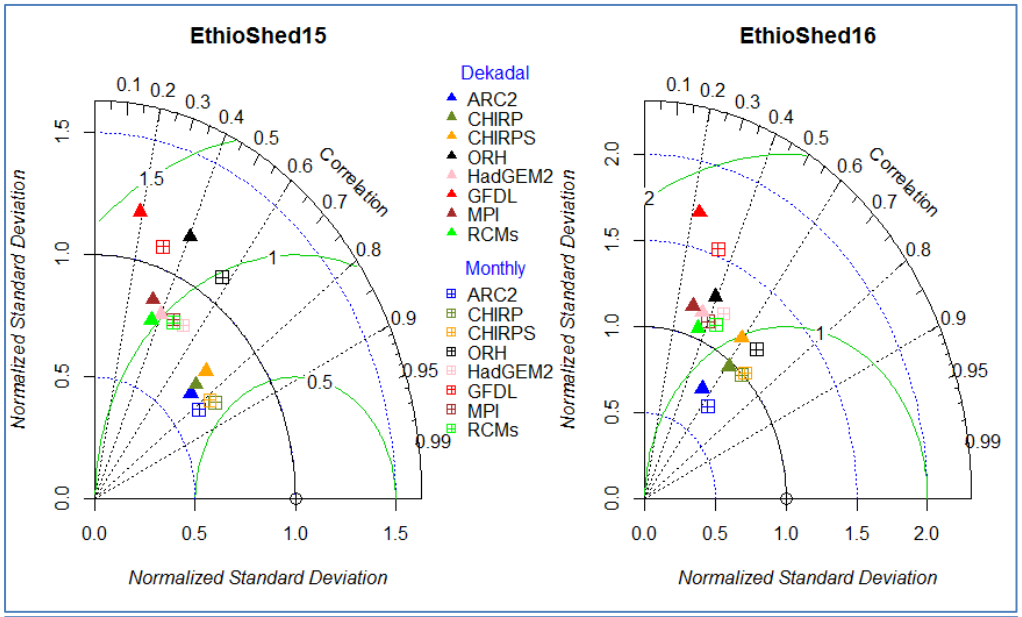

TanzShed1
ARC2
CHIRP
CHIRPS
ORH
RCMs
R2 = 0.52
R2 = 0.86
R2 = 0.88
R2 = 0.84
R2 = 0.19
ARC2 (mm)
CHIRP (mm)
CHIRPS (mm)
ORH (mm)
RCMs (mm)
Ground Data (mm)

TanzShed2
ARC2
CHIRP
CHIRPS
ORH
RCMs
R2 = 0.71
R2 = 0.75
R2 = 0.89
R2 = 0.56
R2 = 0.47
ARC2 (mm)
CHIRP (mm)
CHIRPS (mm)
ORH (mm)
RCMs (mm)
Ground Data (mm)

Fig. S2: Taylor diagram displaying the agreement between ground observation and synthesized dekadal and monthly rainfall for 13 validation areas of Ethiopia covering the period of 1983– 2005.




EthioShed9
EthioShed10
EthioShed11
EthioShed12
EthioShed13
EthioShed14
Dekadal
ARC2
CHIRP
CHIRPS
ORH
HadGEM2
GFDL
MPI
RCMs
Monthly
ARC2
CHIRP
CHIRPS
ORH
HadGEM2
GFDL
MPI
RCMs
Correlation
Normalized Standard Deviation
Normalized Standard Deviation


EthioShed15
EthioShed16
Dekadal
ARC2
CHIRP
CHIRPS
ORH
HadGEM2
GFDL
MPI
RCMs
Monthly
ARC2
CHIRP
CHIRPS
ORH
HadGEM2
GFDL
MPI
RCMs
Correlation
Normalized Standard Deviation
Normalized Standard Deviation

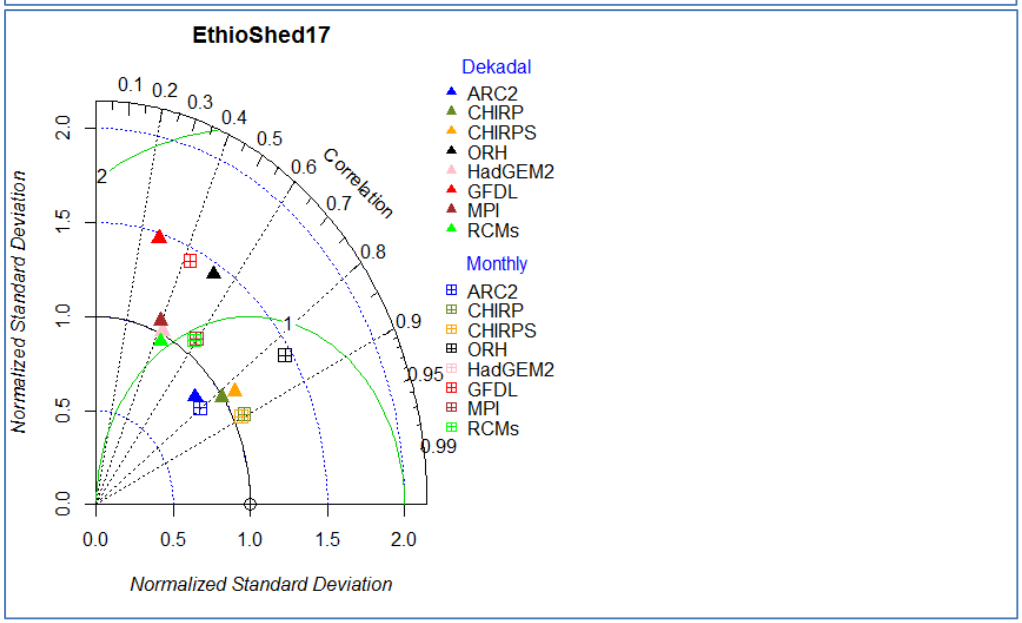
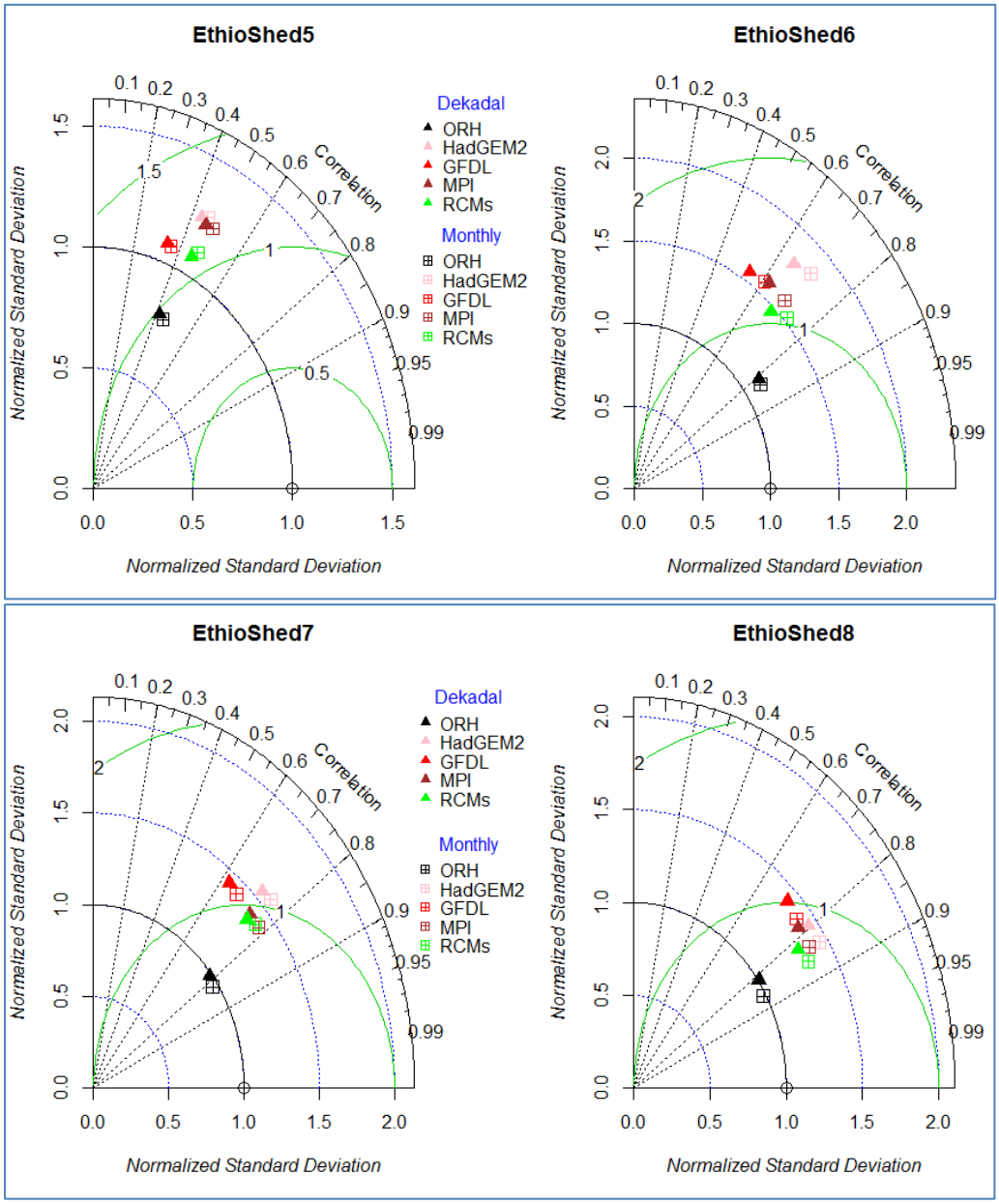
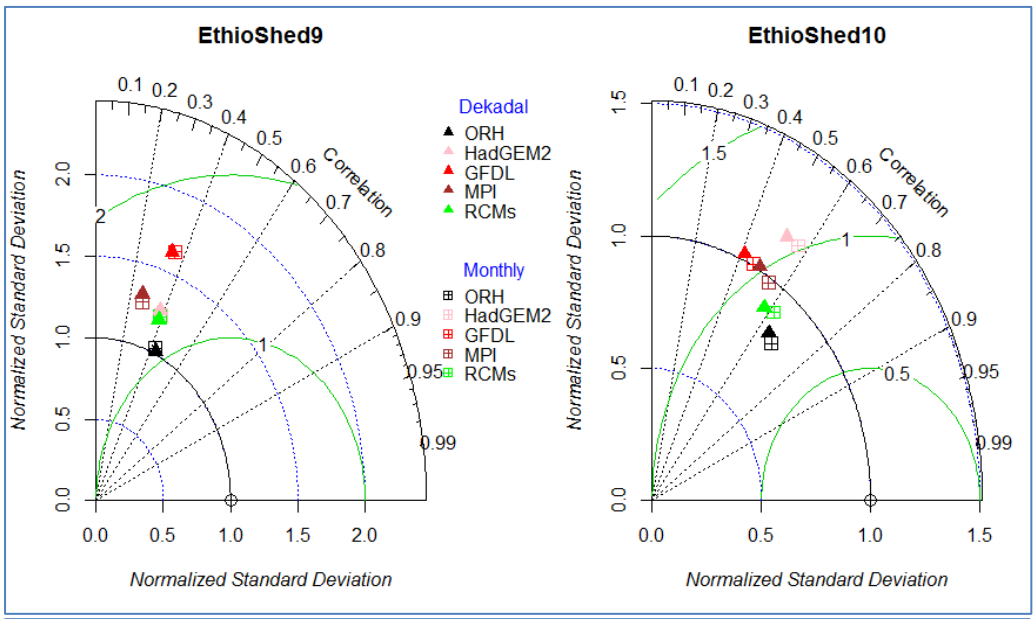
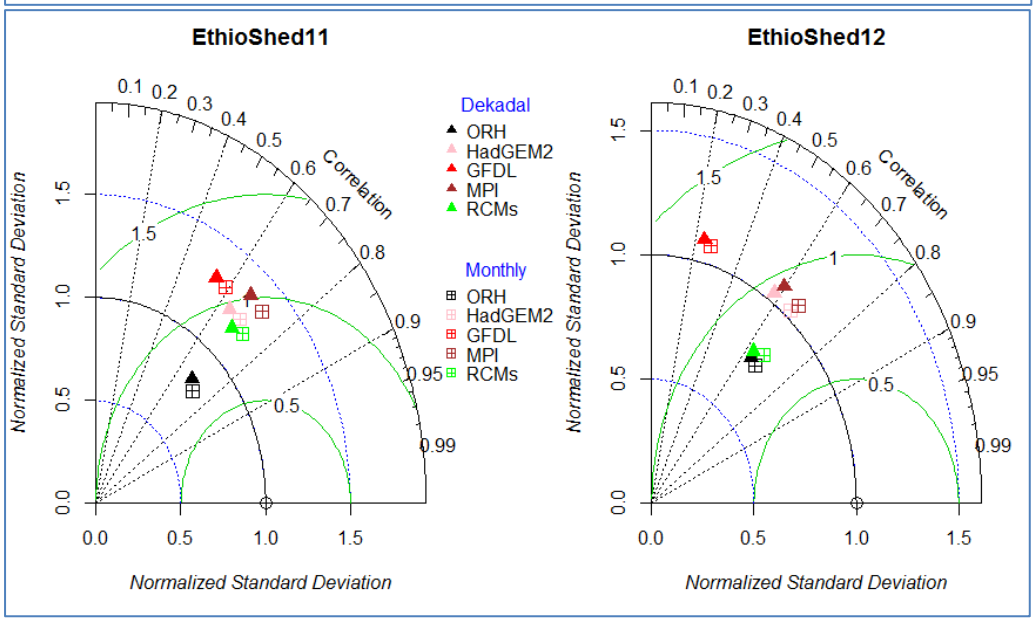
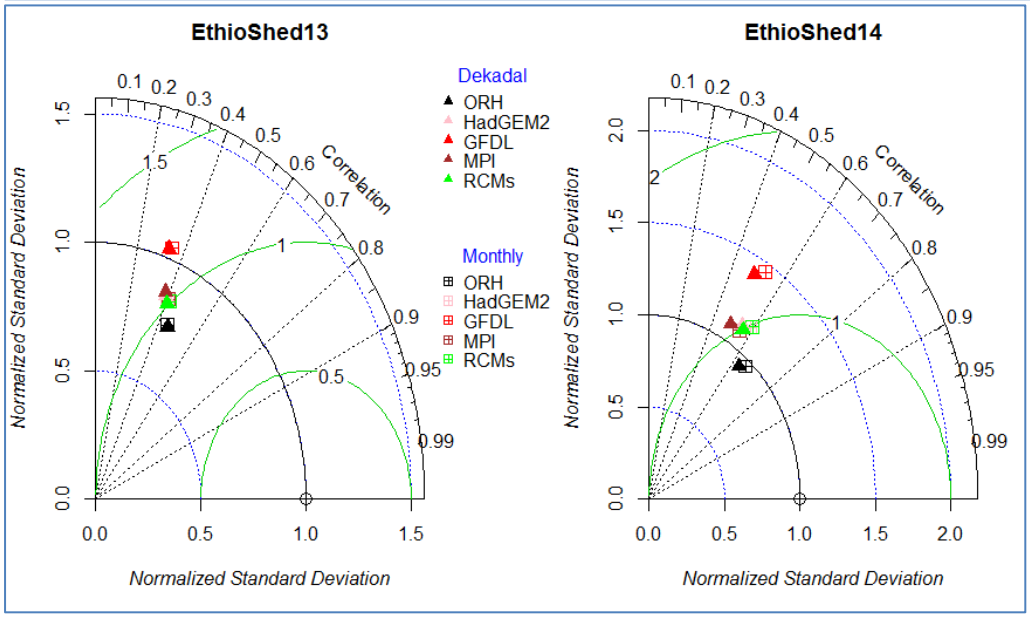

EthioShed17
Dekadal
ARC2
CHIRP
CHIRPS
ORH
HadGEM2
GFDL
MPI
RCMs
Monthly
ARC2
CHIRP
CHIRPS
ORH
HadGEM2
GFDL
MPI
RCMs
Correlation
Normalized Standard Deviation
Normalized Standard Deviation

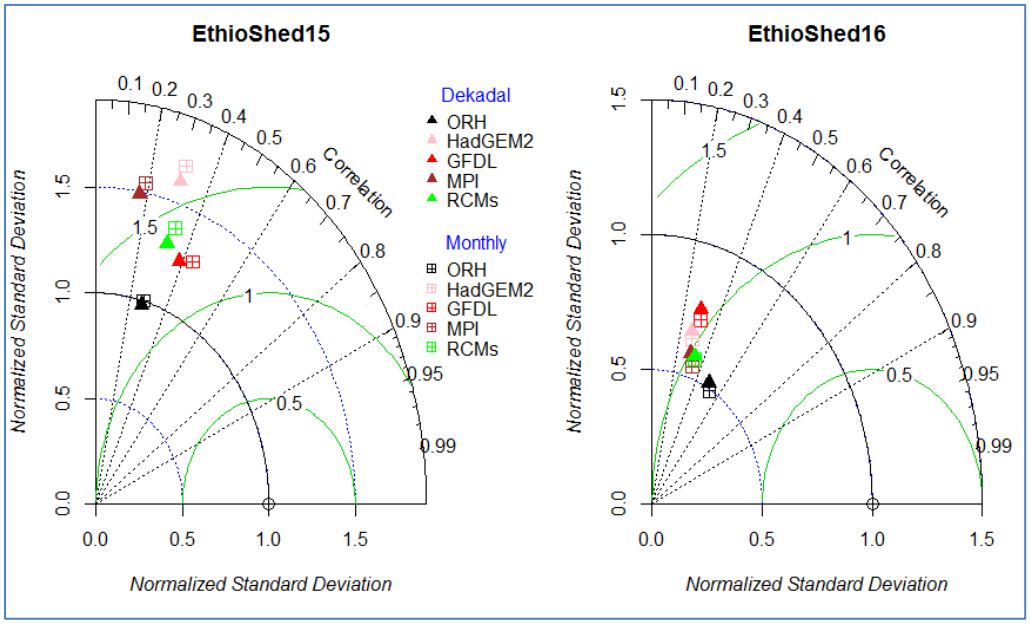
Fig. S3: Taylor diagram displaying the agreement between ground observation and synthesized dekadal and monthly T-max for 13 validation areas of Ethiopia covering the period of 1983– 2005.




EthioShed9
EthioShed10
Dekadal
ORH
HadGEM2
GFDL
MPI
RCMs
Monthly
ORH
HadGEM2
GFDL
MPI
RCMs
Correlation
Normalized Standard Deviation
Normalized Standard Deviation


EthioShed11
EthioShed12
Dekadal
ORH
HadGEM2
GFDL
MPI
RCMs
Monthly
ORH
HadGEM2
GFDL
MPI
RCMs
Correlation
Normalized Standard Deviation
Normalized Standard Deviation


EthioShed13
EthioShed14
Dekadal
ORH
HadGEM2
GFDL
MPI
RCMs
Monthly
ORH
HadGEM2
GFDL
MPI
RCMs
Correlation
Normalized Standard Deviation
Normalized Standard Deviation


EthioShed15
EthioShed16
Dekadal
ORH
HadGEM2
GFDL
MPI
RCMs
Monthly
ORH
HadGEM2
GFDL
MPI
RCMs
Correlation
Normalized Standard Deviation
Normalized Standard Deviation

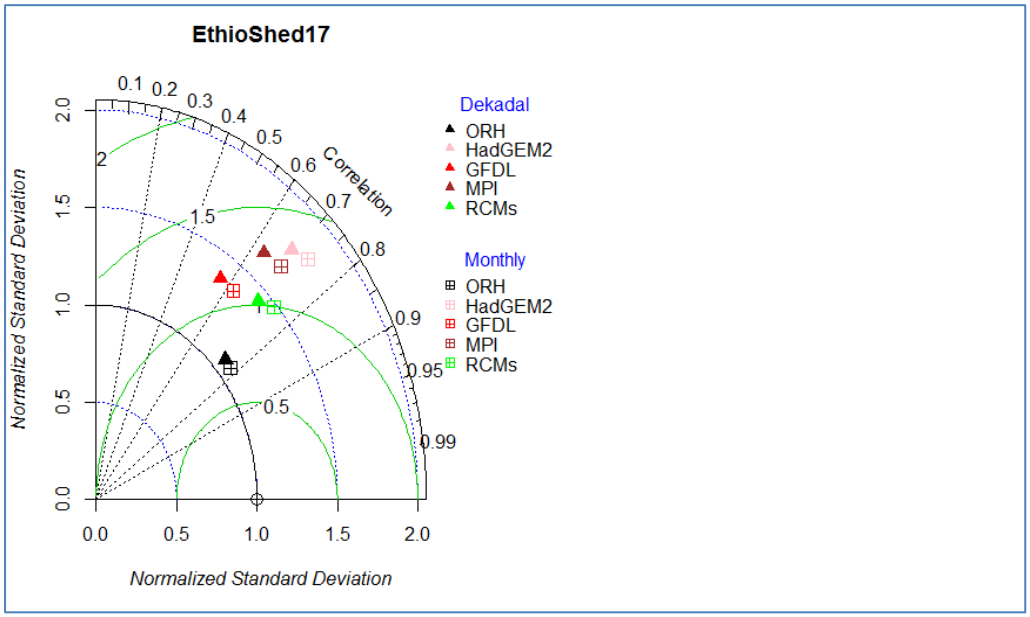
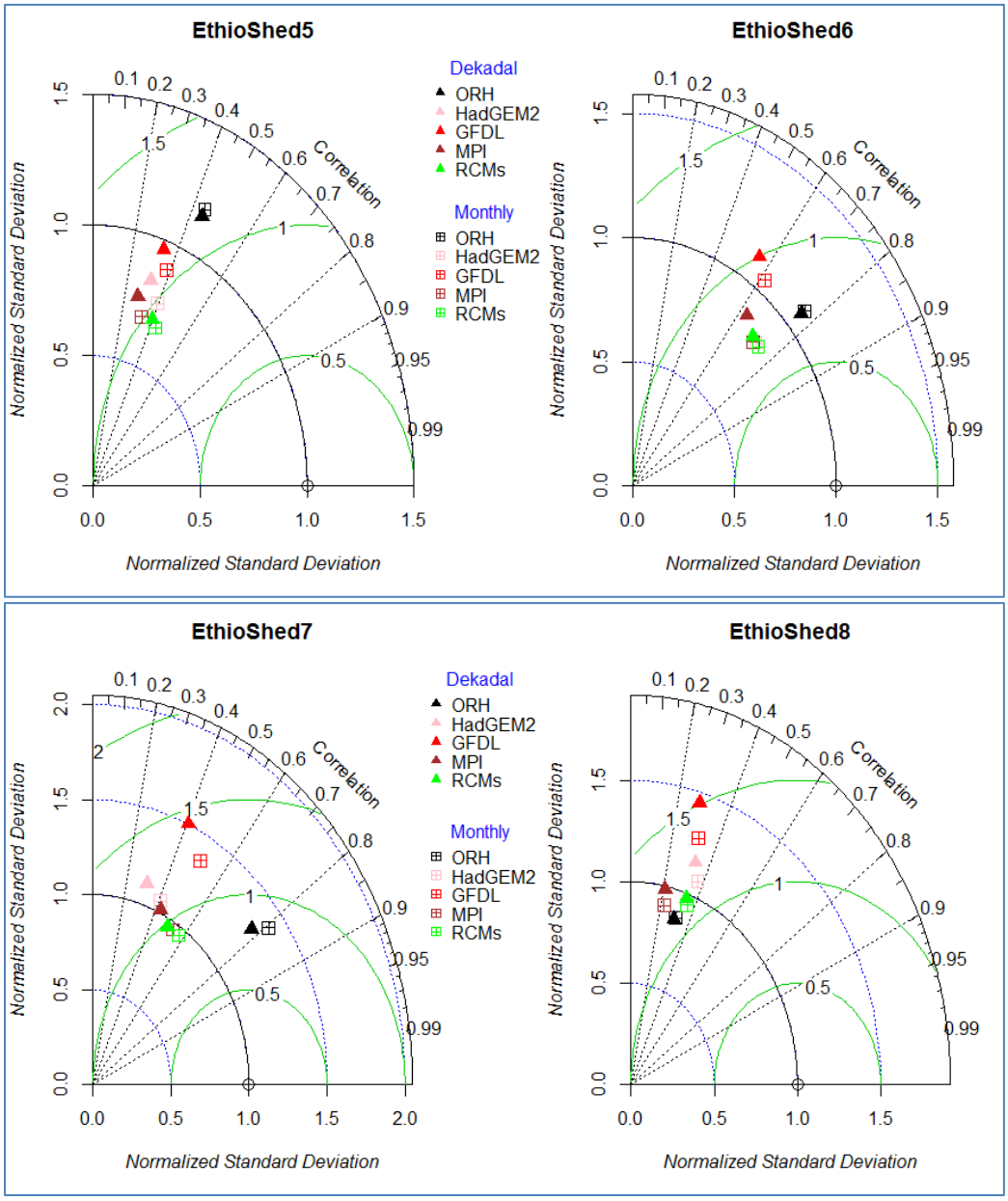
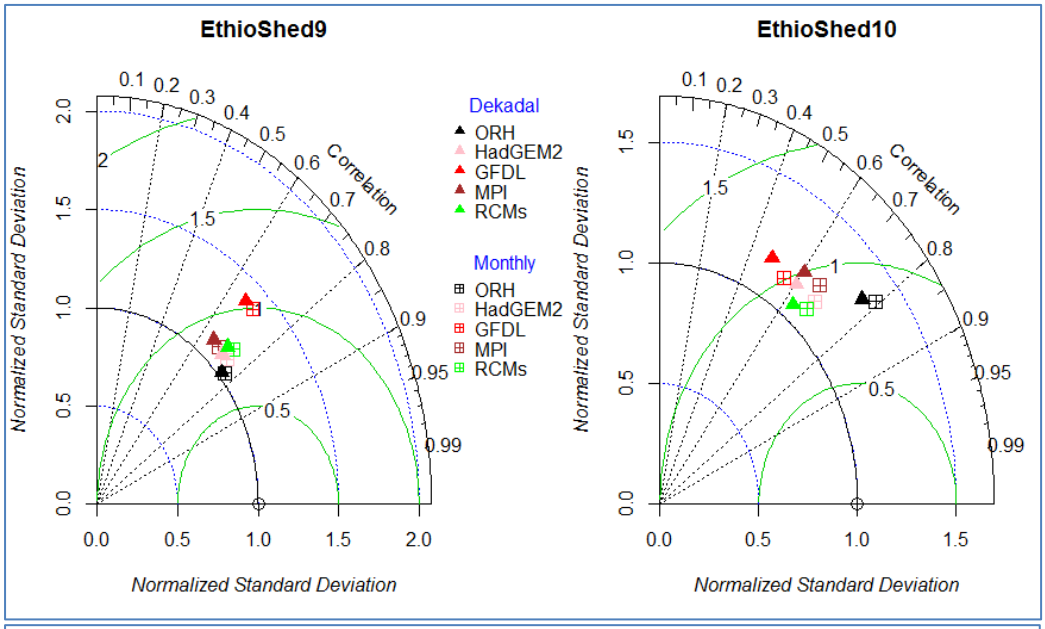
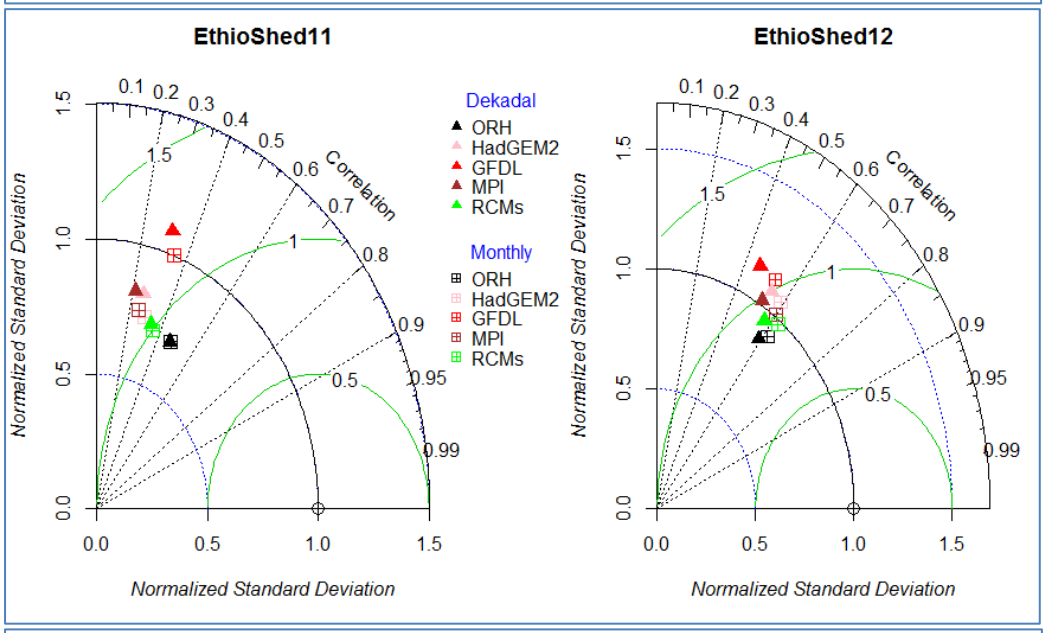
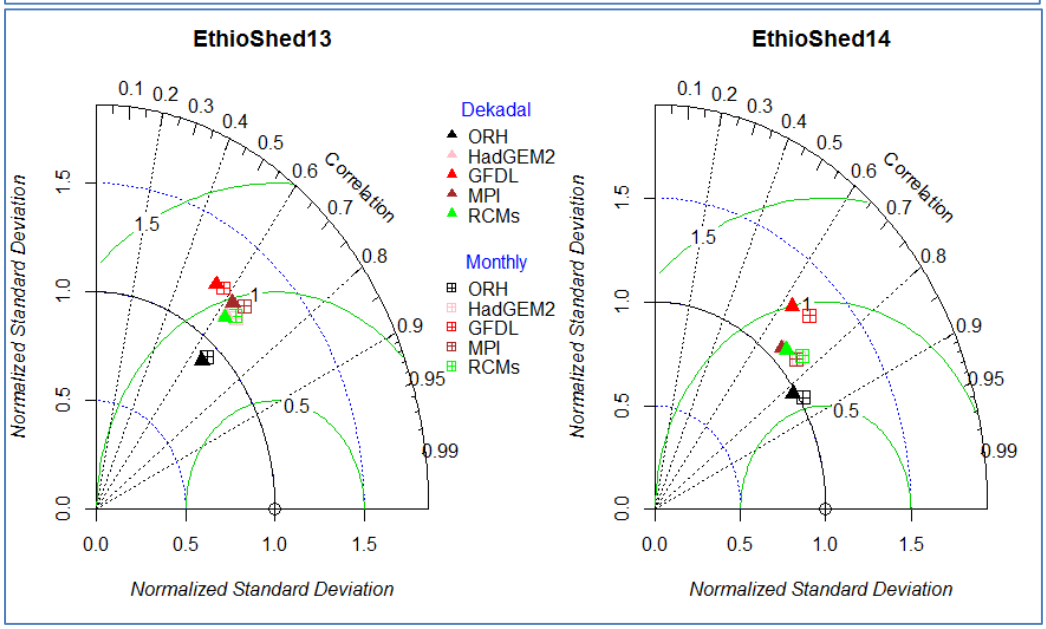

EthioShed17
Dekadal
ORH
HadGEM2
GFDL
MPI
RCMs
Monthly
ORH
HadGEM2
GFDL
MPI
RCMs
Correlation
Normalized Standard Deviation
Normalized Standard Deviation

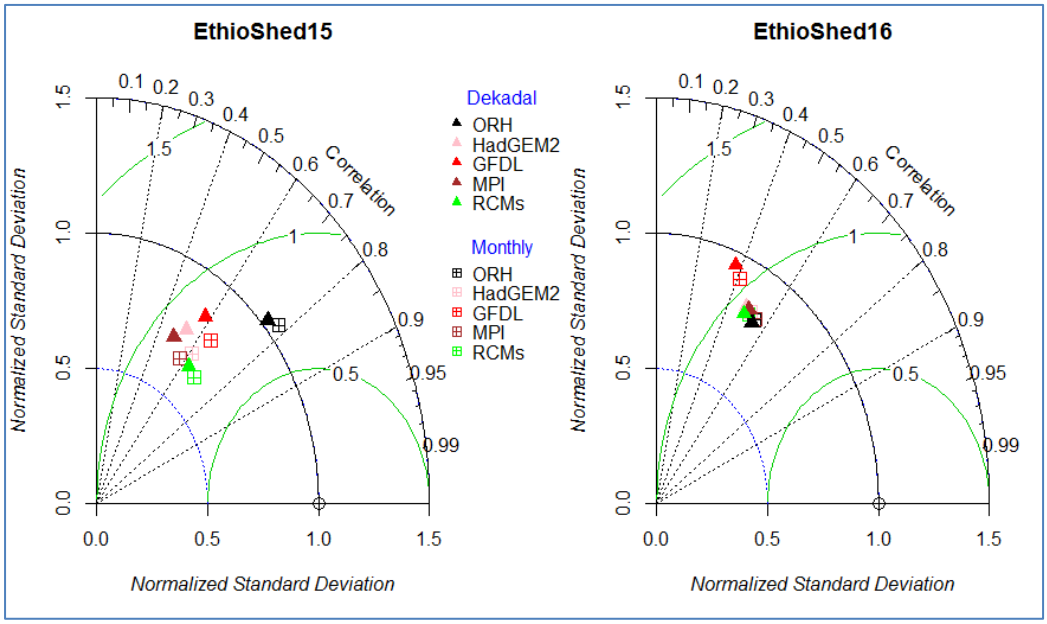
Fig. S4: Taylor diagram displaying the agreement between ground observation and synthesized dekadal and monthly T-min for 13 validation areas of Ethiopia covering the period of 1983– 2005.

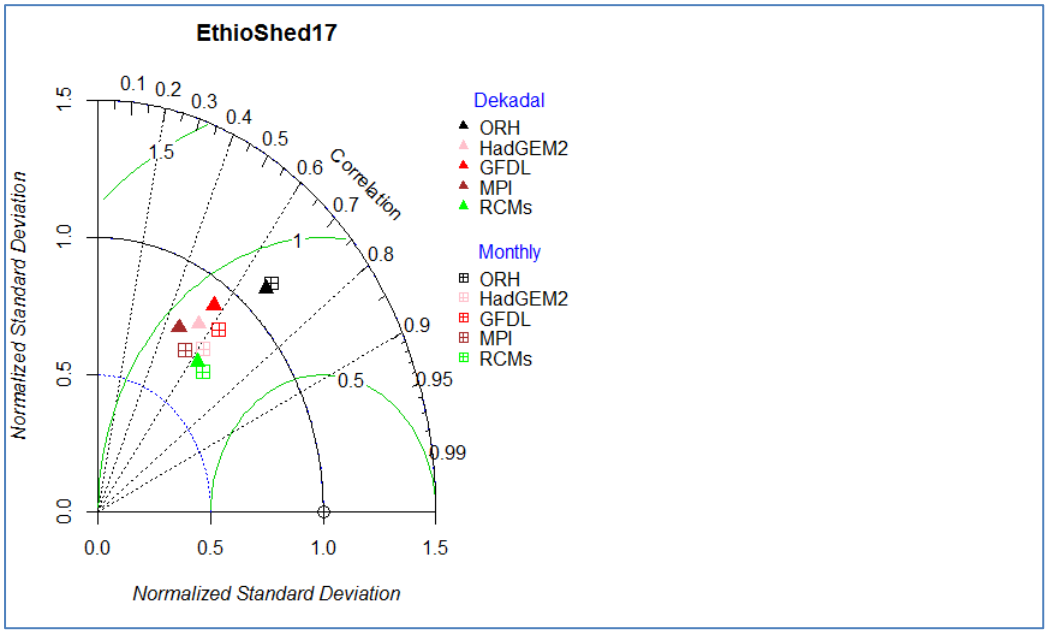



EthioShed9
EthioShed10
Dekadal
ORH
HadGEM2
GFDL
MPI
RCMs
Monthly
ORH
HadGEM2
GFDL
MPI
RCMs
Correlation
Normalized Standard Deviation
Normalized Standard Deviation


EthioShed11
EthioShed12
Dekadal
ORH
HadGEM2
GFDL
MPI
RCMs
Monthly
ORH
HadGEM2
GFDL
MPI
RCMs
Correlation
Normalized Standard Deviation
Normalized Standard Deviation


EthioShed13
EthioShed14
Dekadal
ORH
HadGEM2
GFDL
MPI
RCMs
Monthly
ORH
HadGEM2
GFDL
MPI
RCMs
Correlation
Normalized Standard Deviation
Normalized Standard Deviation


EthioShed15
EthioShed16
Correlation
Normalized Standard Deviation
Dekadal
ORH
HadGEM2
GFDL
MPI
RCMs
Monthly
ORH
HadGEM2
GFDL
MPI
RCMs


EthioShed17
Correlation
Normalized Standard Deviation
Dekadal
ORH
HadGEM2
GFDL
MPI
RCMs
Monthly
ORH
HadGEM2
GFDL
MPI
RCMs