

PAGODA TESTS

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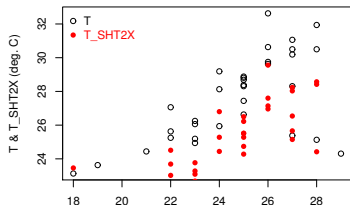
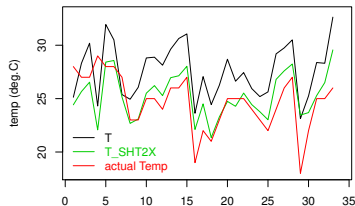
- Data from pagodas (P1–P5)
- T, T_SHT2X, RH_SHT2X
- T, T_SHT2X, compared with hourly & manually collected temp. data
- time-series & scatter graphs for comparison
- statistical indices: r , RMSE, MAE, bias, STM
- inconsistency in obs time



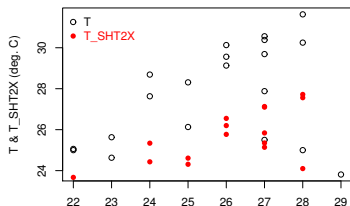
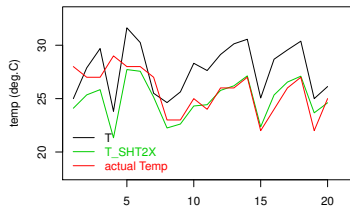
Figure: Installed pagodas¹

¹source: WIMEA–ICT issue No. 7

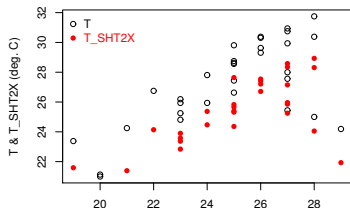
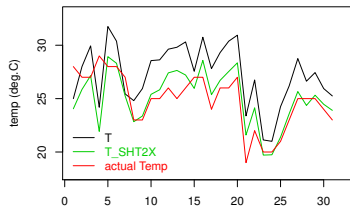
- generally similar trend
- r (0.609; 0.611 & self. cor.:0.931)
- RMSE (3.68; 2.15)
- MAE (3.49; 1.51)
- bias (2.94; 0.57)
- STM (0.82; 0.52)
- T_SHT2X performs well



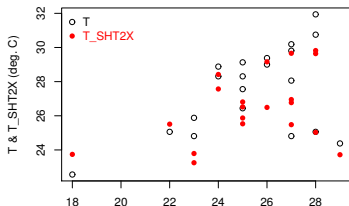
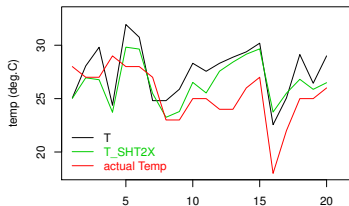
- generally similar trend
- r (0.386; 0.484 & self. cor.:0.918)
- RMSE (3.19; 2.10)
- MAE (3.00; 1.21)
- bias (2.03; -0.73)
- STM (0.70; -0.2)
- T_SHT2X performs well though gives lower temps.



- generally similar trend
- r (0.668; 0.729 & self. cor.:0.974)
- RMSE (3.25; 1.85)
- MAE (3.02; 1.26)
- bias (2.41; 0.21)
- STM (0.81; 0.42)
- T_SHT2X performs well .



- generally similar trend
- r (0.494; 0.428 & self. cor.:0.892)
- RMSE (3.30; 2.71)
- MAE (3.14; 2.14)
- bias (2.17; 1.14)
- STM (0.70; 0.5)
- T_SHT2X performs well.



- generally similar trend
- r (0.725; 0.662 & self. cor.:0.970)
- RMSE (4.44; 3.86)
- MAE (4.21; 3.47)
- bias (3.96; 3.17)
- STM (0.80; 0.8)
- T_SHT2X performs well.

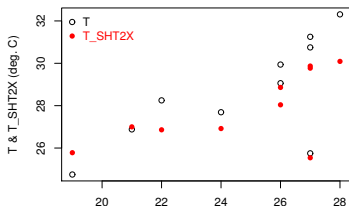
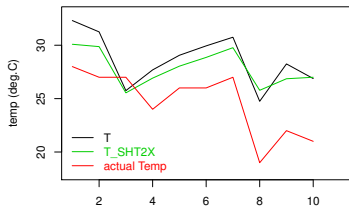


Table: statistical indices for T & T_SHT2X sensor

	P1	P2	P3	P4	P5
<i>r</i>	0.609	0.386	0.668	0.494	0.725
RMSE	3.68	3.19	3.25	3.30	4.44
MAE	3.49	3.00	3.02	3.14	4.21
ME (bias)	2.94	2.03	2.41	2.17	3.96
STM	0.82	0.70	0.81	0.70	0.80
T_SHT2X sensor					
<i>r</i>	0.611	0.484	0.729	0.428	0.662
RMSE	2.15	2.1	1.85	2.71	3.86
MAE	1.51	1.21	1.26	2.14	3.47
ME (bias)	0.57	-0.73	0.21	1.14	3.17
STM	0.52	-0.2	0.42	0.5	0.8

Comment: P3 is good & had registered many obs.