Appendix
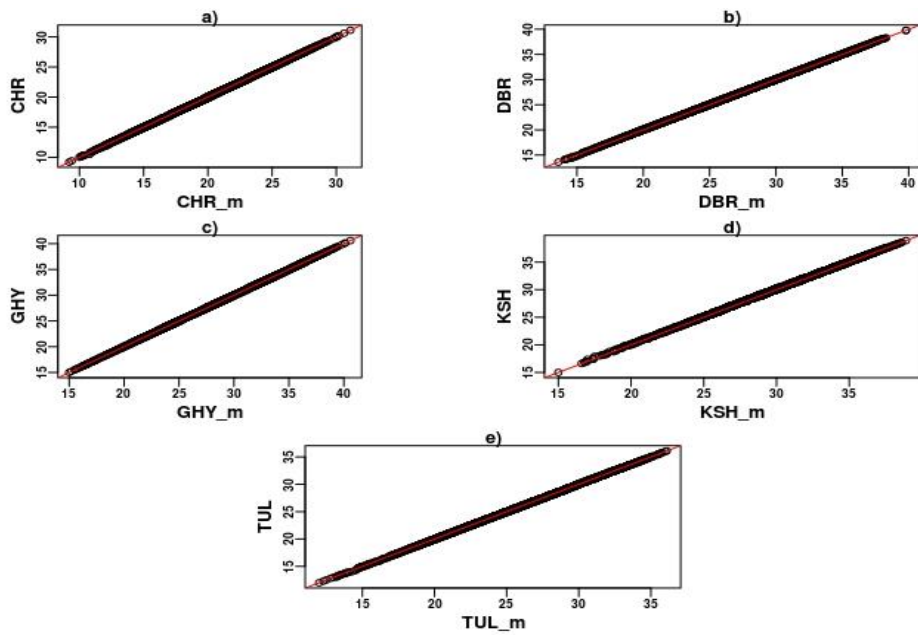
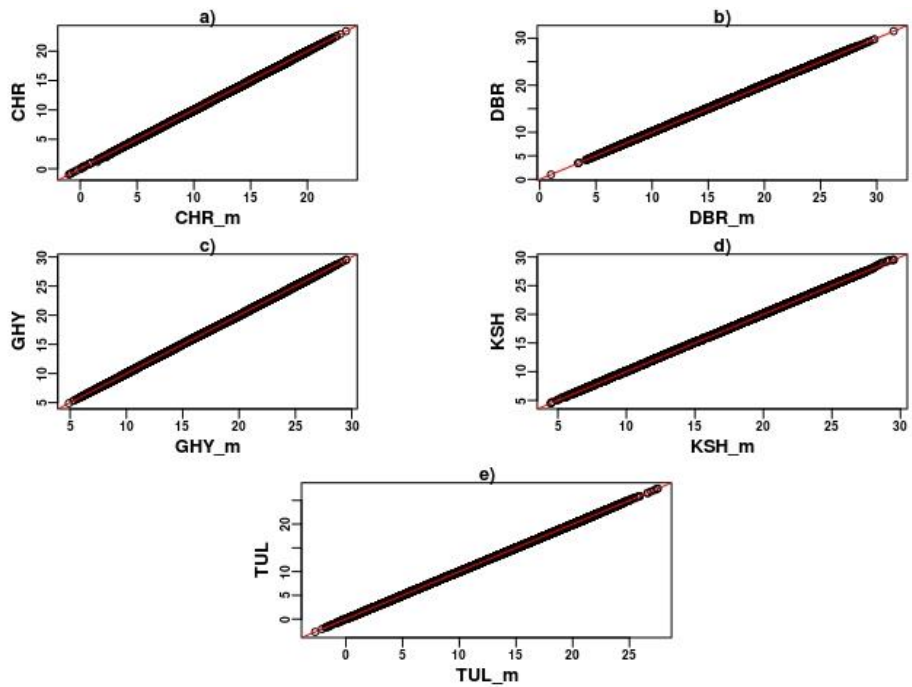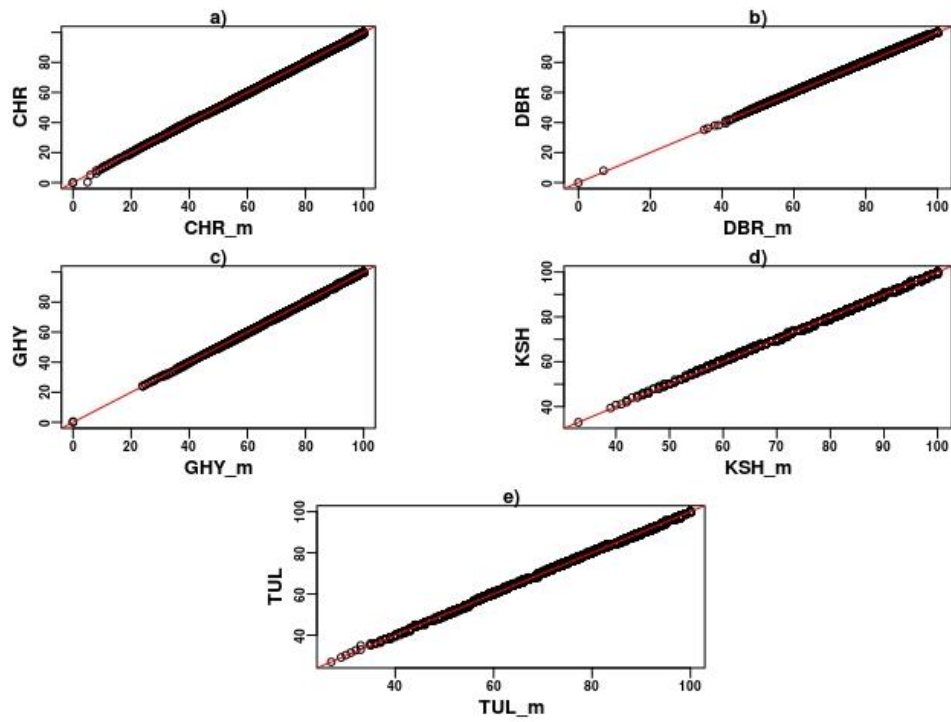## 1. Q-Q plots for MaxT
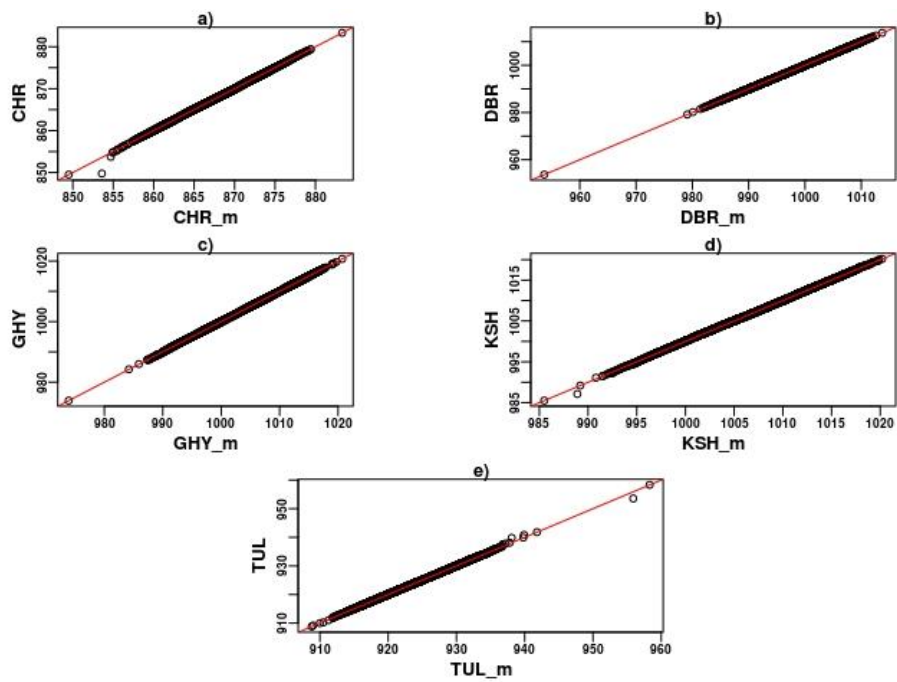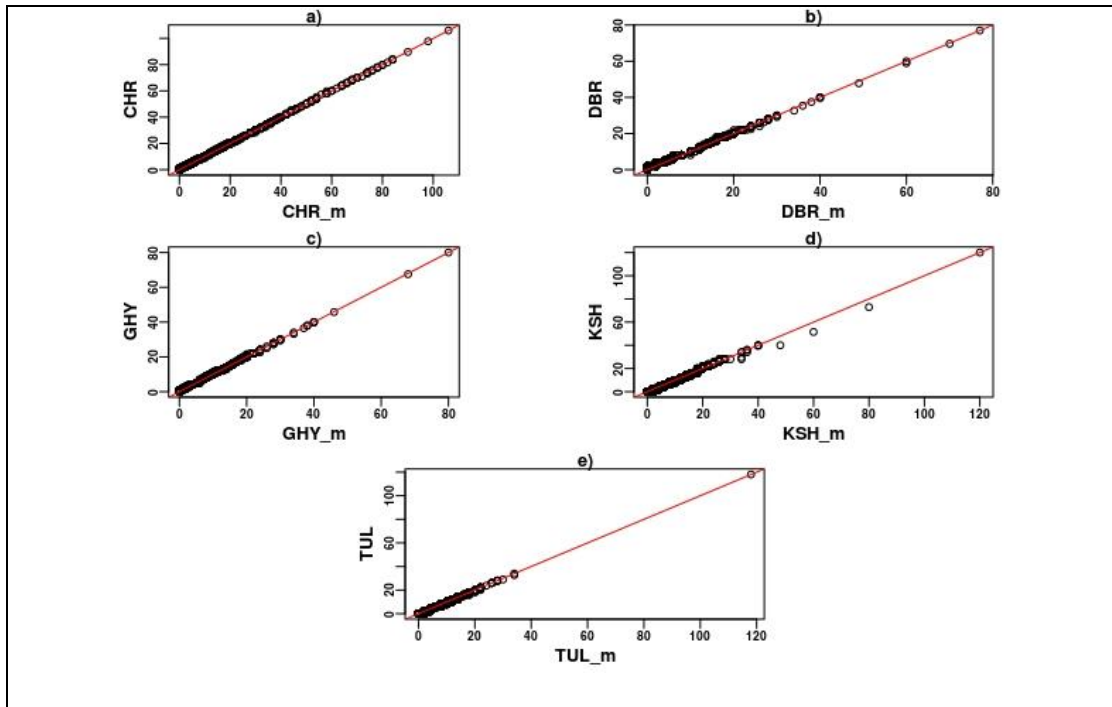

2. Q-Q plots for MinT

3. Q-Q plots for RH

4. Q-Q plots for SLP

5. Q-Q plots for WS

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List of Publications:

In Journals:

1. **Parashmoni Borah**, Suhasini Hazarika and Amit Prakash **(2022): Assessing the state of homogeneity, variability and trends in the rainfall time series from 1969 to 2017 and its significance for groundwater in north-east India**, *Natural Hazards*, **111**:585–617, DOI: https://doi.org/10.1007/s11069-021-05068-y

2. Suhasini Hazarika**, Parashmoni Borah** and Amit Prakash **(2019)**. **The assessment of return probability of maximum ozone concentrations in an urban environment of Delhi: A Generalized Extreme Value analysis approach**, *Atmospheric Environment,* **202**:53-63, DOI: https://doi.org/10.1016/j.atmosenv.2019.01.021.

Papers presented in Seminar and Conferences:

1. **Testing the homogeneity in a station recorded data- How important it is in a climatological study: A statistical approach. Parashmoni Borah**, Suhasini Hazarika, Amit Prakash; Oral presentation at National Seminar on CURRENT PERSPECTIVES IN ENVIRONMENTAL POLLUTION: CHALLENGES AND OPPORTUNITIES, organized by Department of Environmental Science, Tezpur University, supported by UGC-SAP DRS (I) **[7-8th June, 2019].**

2. **Interpreting association of meteorological condition with ground level ozone and its precursor compound using canonical correlation analysis.** Suhasini Hazarika, **Parashmoni Borah**, Amit Prakash; Oral presentation at National Seminar on CURRENT PERSPECTIVES IN ENVIRONMENTAL POLLUTION: CHALLENGES AND OPPORTUNITIES, organized by Department of Environmental Science, Tezpur University, supported by UGC-SAP DRS (I) **[7-8th June, 2019].**

3. **Noise Pollution and Associated Annoyance due to Various Modes of Transport in Tezpur, Assam.** Suhasini Hazarika**, Parashmoni Borah,** Kaushik Chatterjee, Daisy Das and Amit Prakash; Oral presentation at State

Level Conference on IMPACT OF NOISE POLLUTION ON ENVIRONMENT WITH SPECIAL REFERENCE OF TRAFFIC NOISE, oraganized by Department of Physics, Dhing College, Nagaon, Assam **[20th June, 2017]**.

4. **Seasonal and Annual Variation in the Temperature and Rainfall in the North-East India: A Spectral Approach: Parashmoni Borah,** Suhasini Hazarika and Amit Prakash; Poster presentation at Research Conclave, 2017 organized by Student Academic Board, IIT Guwahati **[16th-19th March, 2017]**.

5. **An Estimation of Extreme VOC Concentration in Urban Atmosphere of Delhi:** Suhasini Hazarika, **Parashmoni Borah** and Amit Prakash; Poster presentation at Research Conclave, 2017 organized by Student Academic Board, IIT Guwahati **[16th-19th March, 2017]**.

6. **Effectiveness of Arima Model in Predicting PM$_{2.5}$ Concentration Following Different Distribution Pattern: A Case Study of Varanasi:** Suhasini Hazarika**, Parashmoni Borah and** Amit Prakash; Poster presentation in National level conference on Climate Change and Society, organized by Department of Environmental Science, Tezpur University **[24th-25th February, 2017].**

7. **Study of Soil Thermal Structure and Its Effect on Radiation Budget Estimation:** Kamalini Gogoi, Suhasini Hazarika, **Parashmoni Borah** and Amit Prakash; Poster presentation at National Seminar on Climate Change and Society, organised by Department of Environmental Scienece, Tezpur University **[24th-25th February, 2017]**.

8. **Seasonal Variation in PM$_{10}$ Concentrations under Different Meteorological Conditions over Guwahati, Assam: Parashmoni Borah,** Suhasini Hazarika and Amit Prakash; **Proceedings of Indian Aerosol Science and Technology Association, IASTA (Indian Arosol Science and Technoology Association) Bulletin** of conference on *Aerosols and Climate Change: Insights and Challanges*, Vol. 22 (1 & 2), 134-138, *ISSN 09714510* **[December, 2016]**.