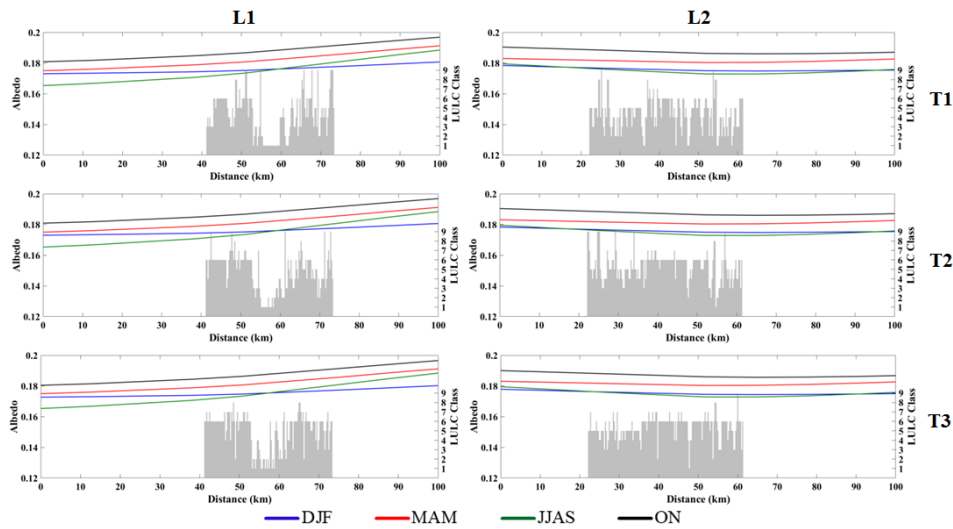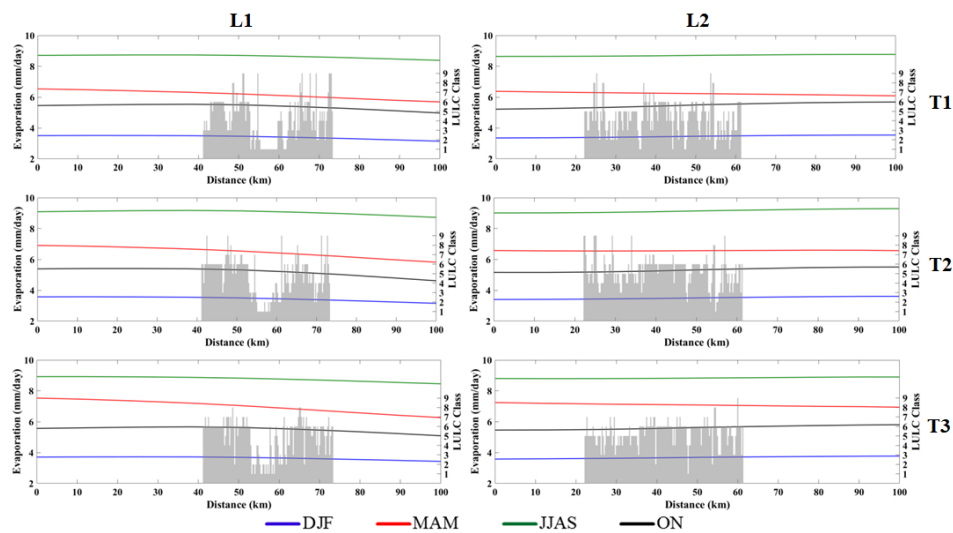1
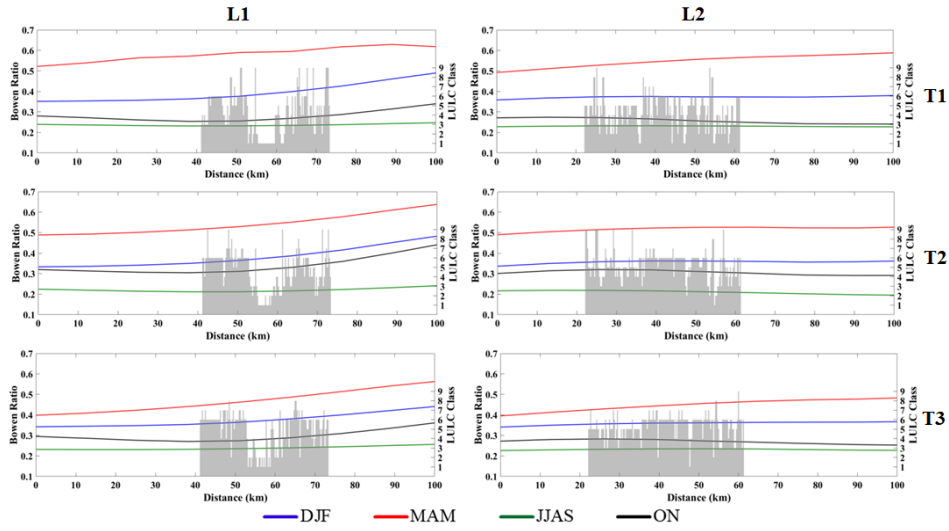

2

Figure S1. Spatial profile of albedo calculated from ERA-Interim dataset (0.125° spatial resolution), varying with LULC classes for NE-SW (L1) and NW-SE (L2) transect for various seasons during time periods- 1991-1999 (T1), 2000-2008 (T2), and 2009-2016 (T3). Representation of LULC classes is as follows: 1- Dense Forest, 2- Open Forest, 3- Scrubs/Degraded Forest, 4- Plantations, 5- Cultivable Area, 6- Built-up Area, 7- Road Rail Network, 8- River/ Waterbody, and 9- Wasteland.
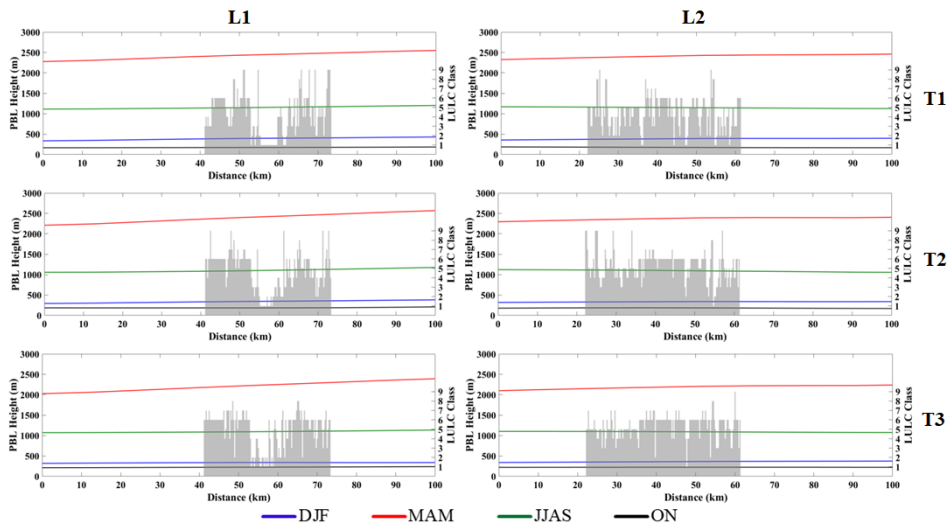

Figure S2. Same as Figure S1, but for evaporation (mm/day).

Figure S3. Same as Figure S1, but for Bowen ratio.

Figure S4. Same as Figure S1, but for PBL height (m).