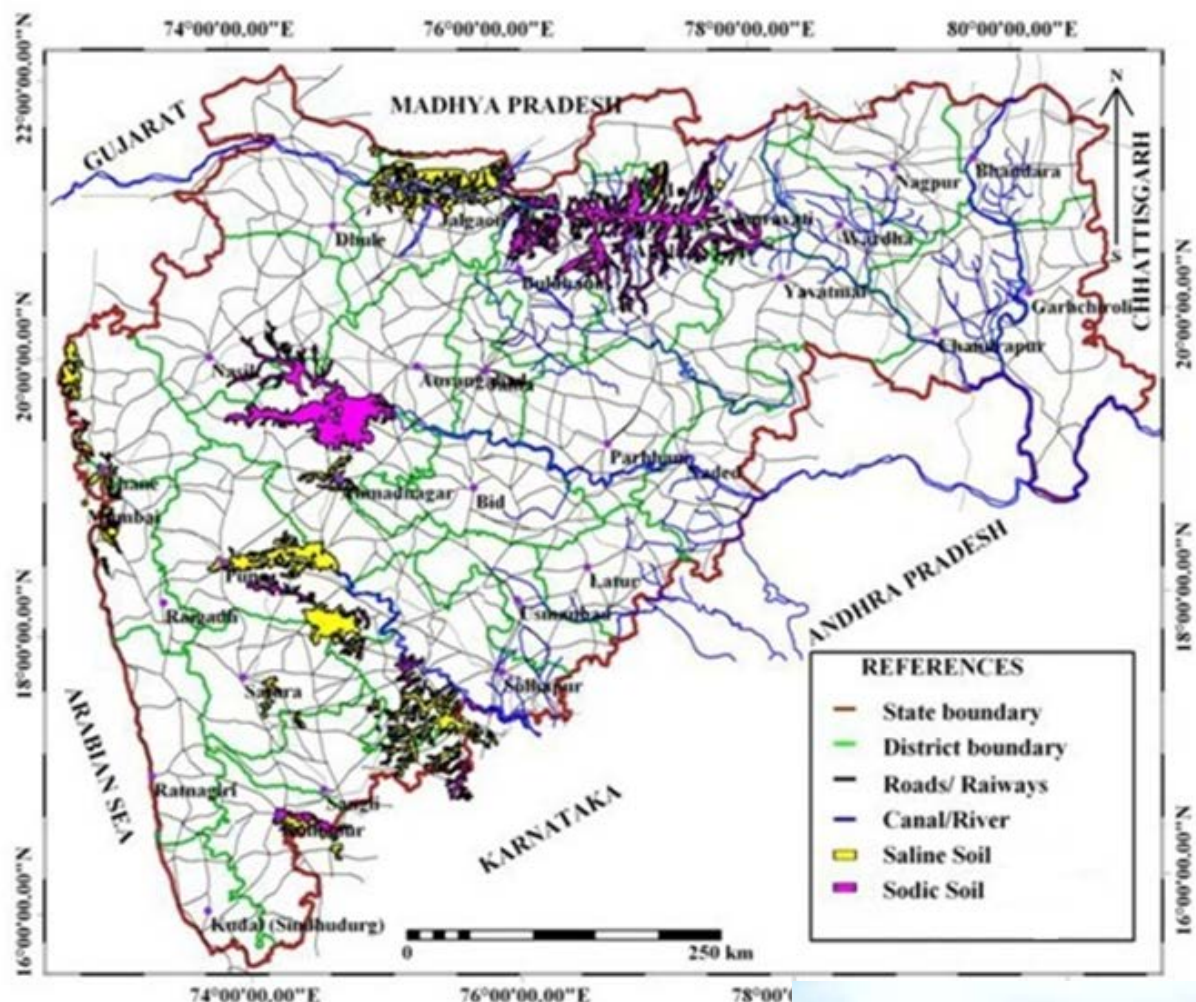


Land degradation: Soil salinity



Salt affected soils:

Geographical distribution of salt affected soils in India:

4 major tracts where salt affected soils occurring in India are as follows:

1. **Semi-arid Indo-Gangetic alluvial tract** (Punjab, Haryana, UP, Delhi, parts of Bihar)
2. **Arid tract** of Rajasthan and Gujrat
3. **Arid and semi-arid tract of central and Southern states** principally of the irrigated areas
4. **Coastal-alluvial soil**

State wise distribution of Saline and Alkali soils in India

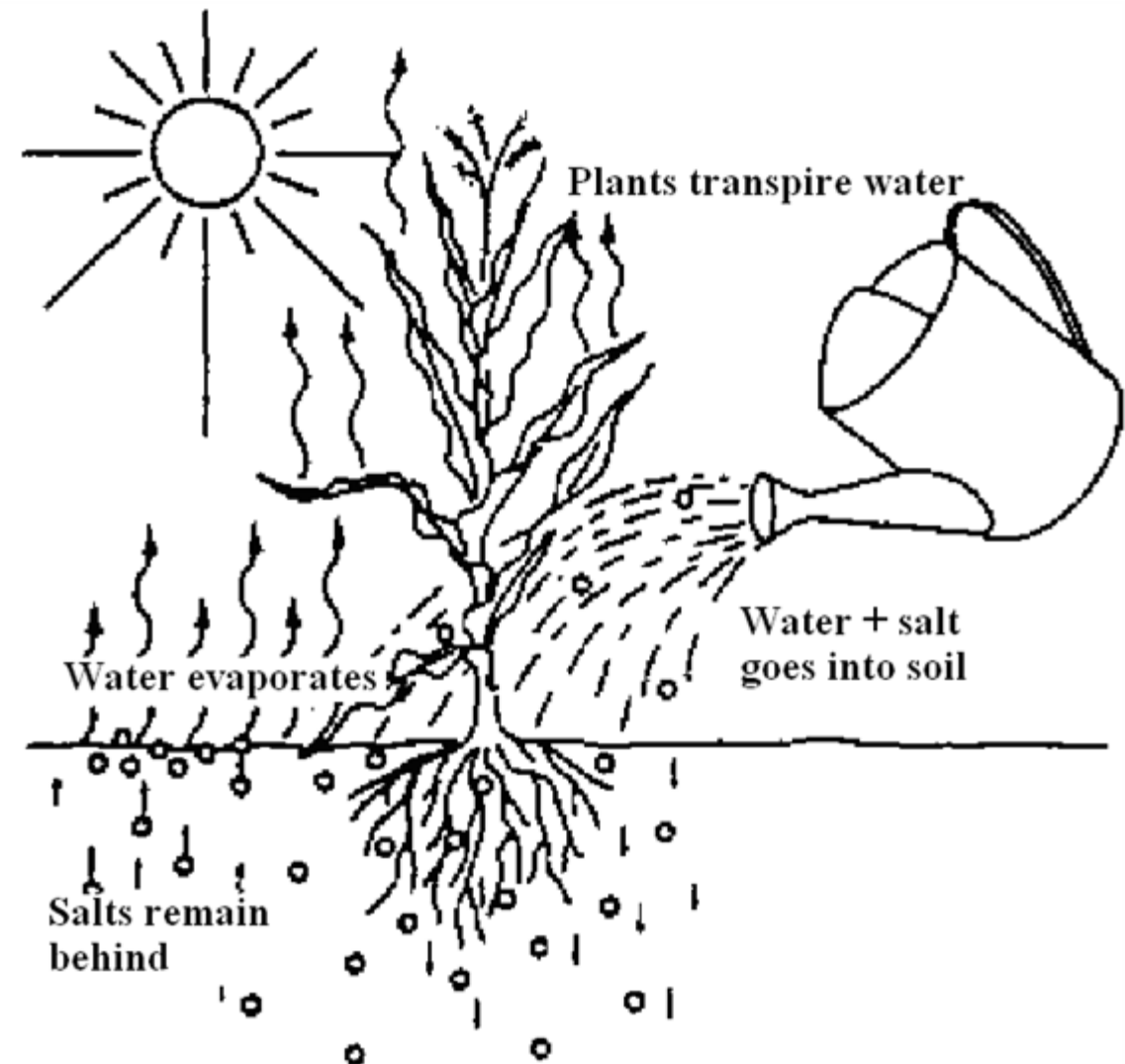
- | | |
|---------------------|-------------------------|
| 1. U.P----1.295 mha | 7. Maharastra—0.534 mha |
| 2. Gujrat—1.214 | 8. Orissa---0.404 |
| 3. W.B---0.850 | 9. Karnataka----0.404 |
| 4. Rajasthan—0.728 | 10. M.P---0.21 |
| 5. Punjab— 0.688 | 11. AP---0.04 |
| 6. Haryana---0.526 | |

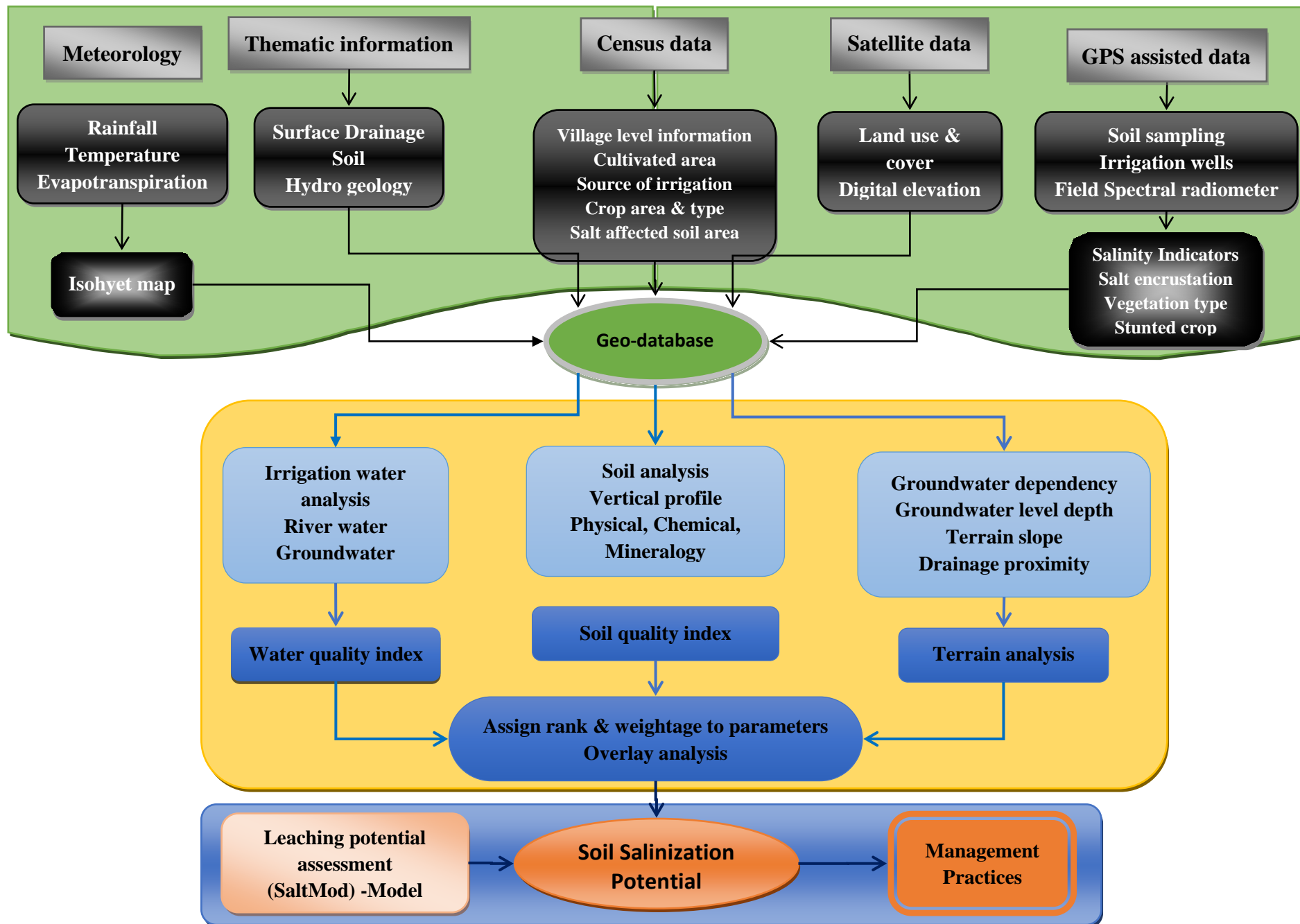


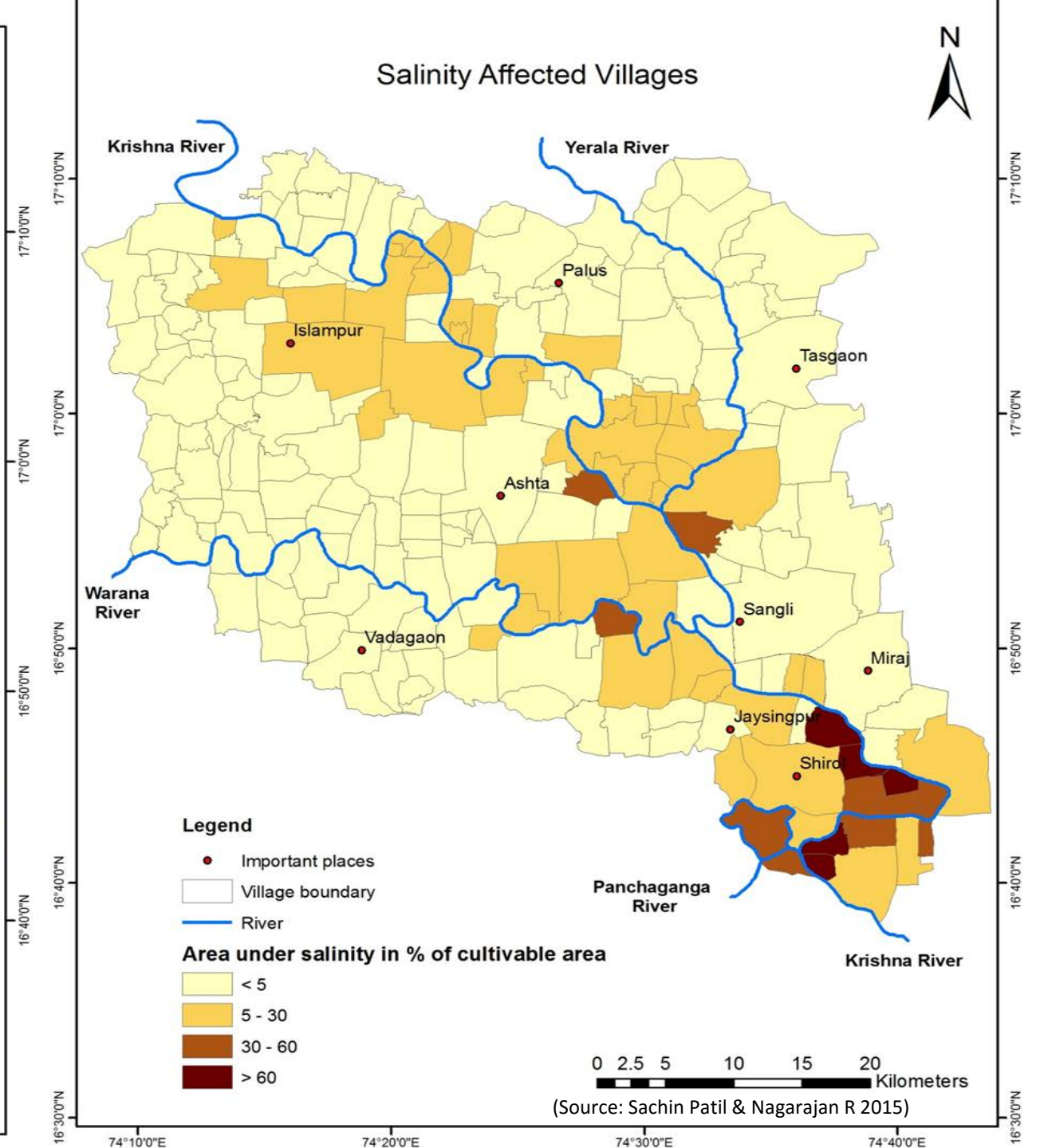
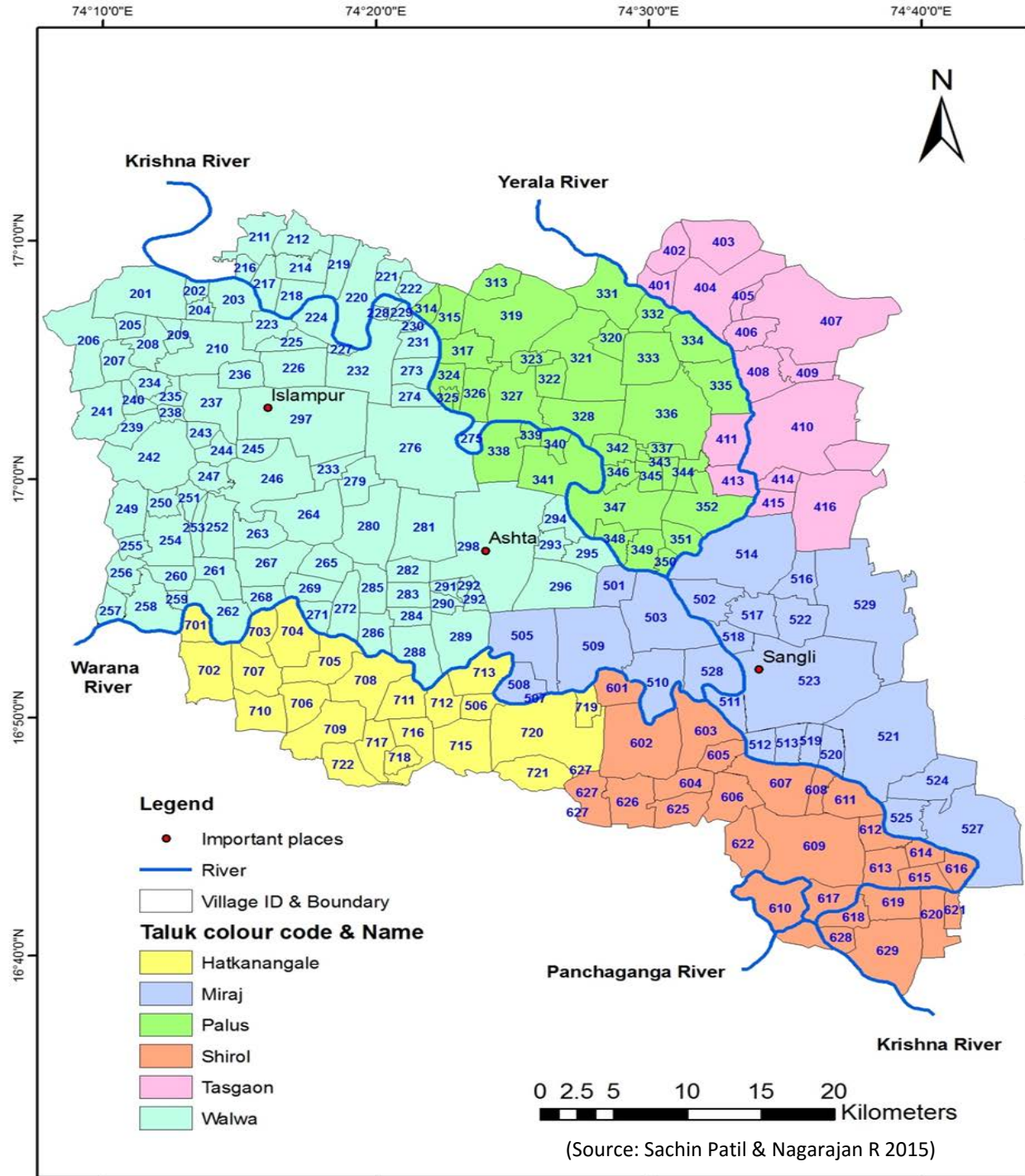
Soil Salinity

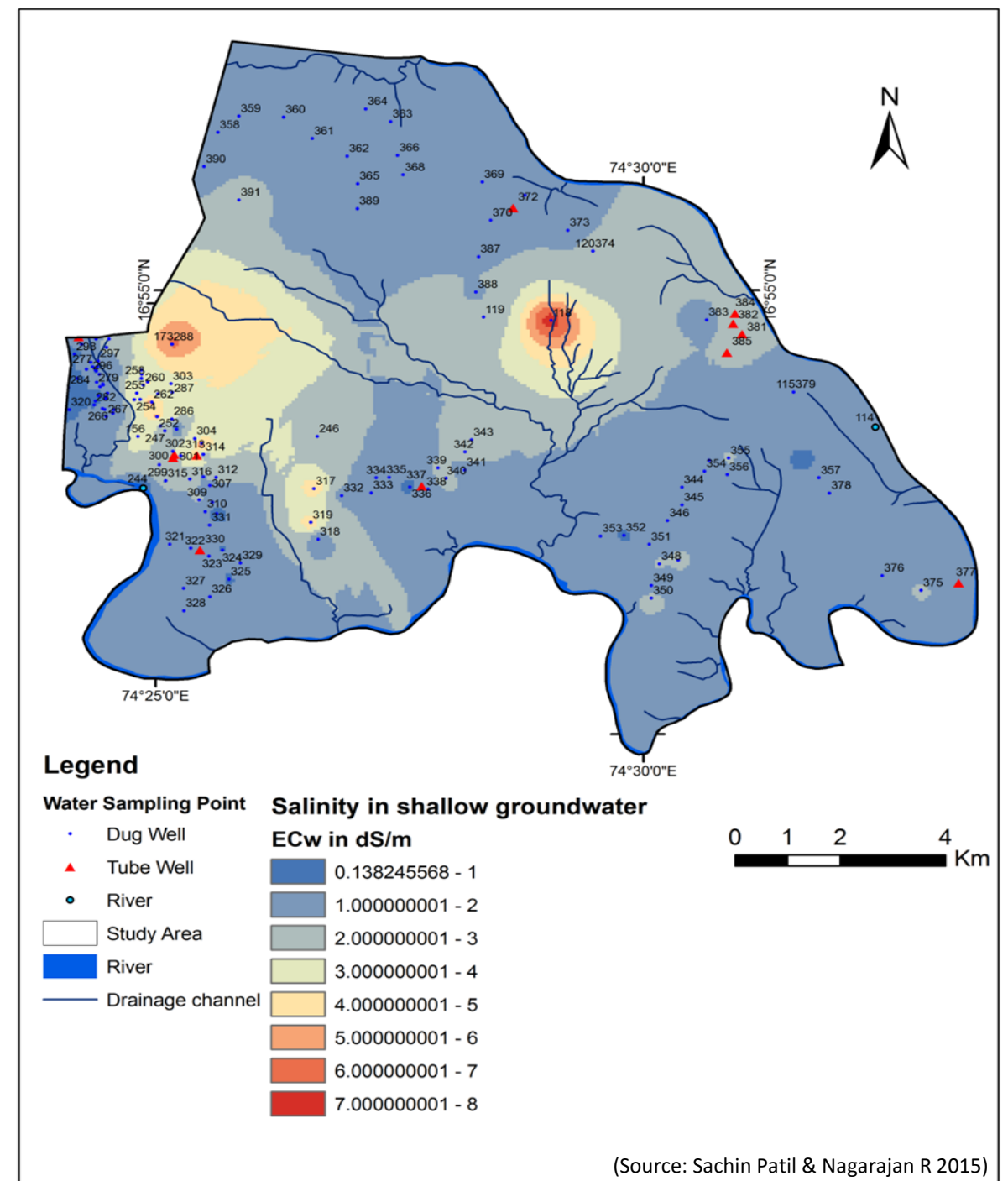
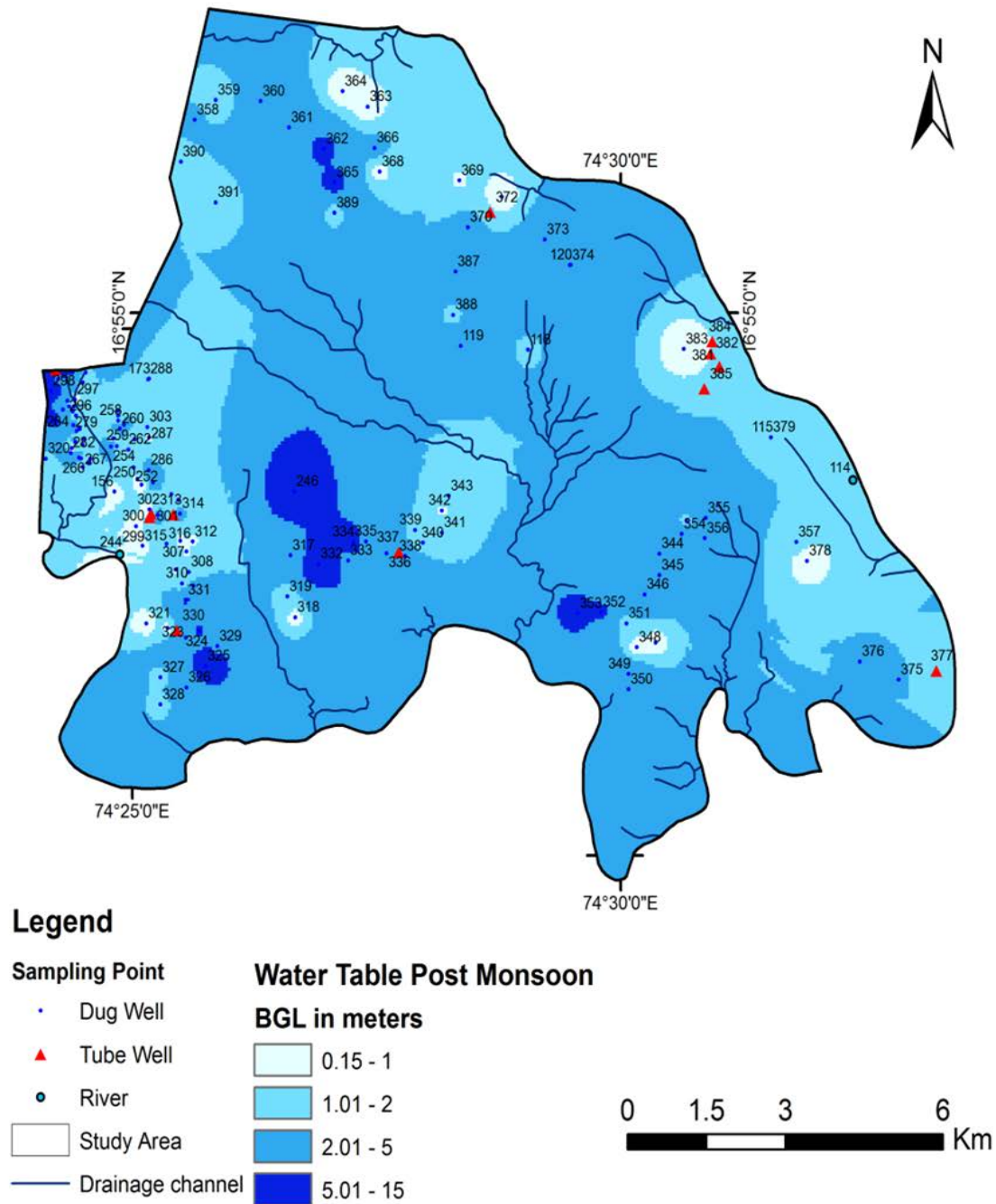
Scale of Conductivity*		Grass Response
mmhos/cm	ppm soluble salts	
0	0	Salinity negligible
2	1300	Sensitive plants may be affected
4	2600	Sensitive grasses affected (cool season grasses)
8	5200	Only salt tolerant grasses thrive (bermudagrass, meyer zoysia)
16	10,400	Only very salt tolerant grasses thrive (seashore paspalum, alkali sacaton)

*Electrical conductivity of saturated soil paste expressed as mmhos/cm.









Thank you