



United Nations Development Programme
(UNDP)

Research in Geospatial Data Analytics and
OpenAI for DiCRA Digital Public Good for
Climate Resilience

Deliverable #2

REFERENCE: RFP-136-IND-2022

Date of Submission: 16-03-2023

Submitted by



Spatial Products

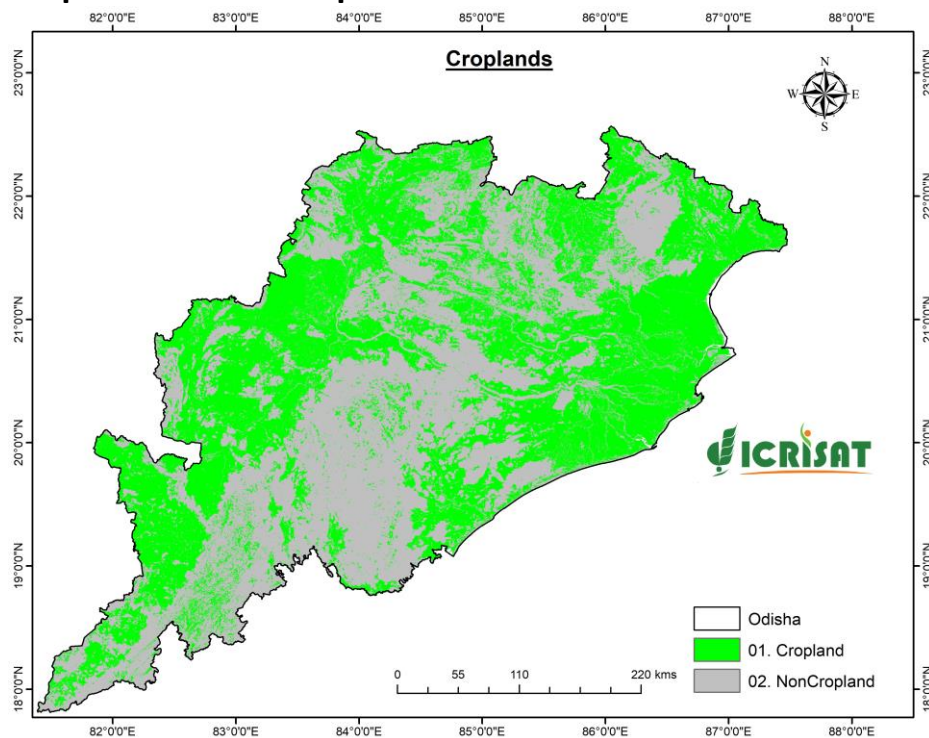
- Six layers for Telangana, Odisha and Jharkhand states were prepared using satellite imagery and ground data with the help of Machine learning algorithms and Spectral Matching Techniques as explained in Deliverable #1
- The deliverable #2 the "Deliverable -2" in the following link.

https://cgia-my.sharepoint.com/:f/g/personal/pranay_panjala_cgiar_org/EgiUzZlI8YBMhVqrZ6H_1WQBrM3ZHt0tDU6iUMp4X28VA?e=GrnEh7

- Croplands & Non-Croplands
- Irrigated and Rainfed Croplands
- Crop Intensity
- Crop Stress
- Length of Growing Periods
- Crop Type

Included Raw files (.img), Maps (.jpeg) and Metadata.

1. Croplands & Non-Croplands



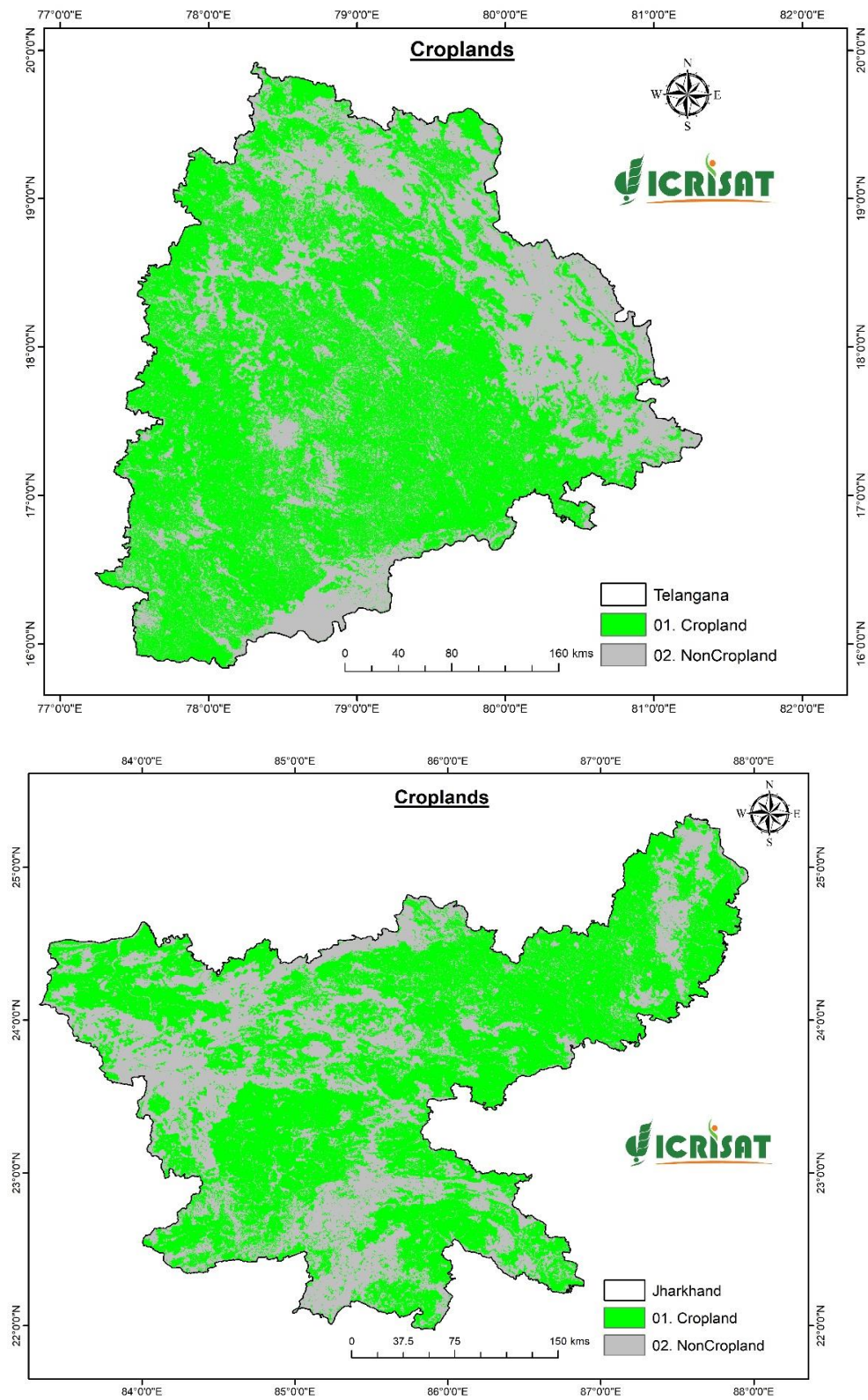
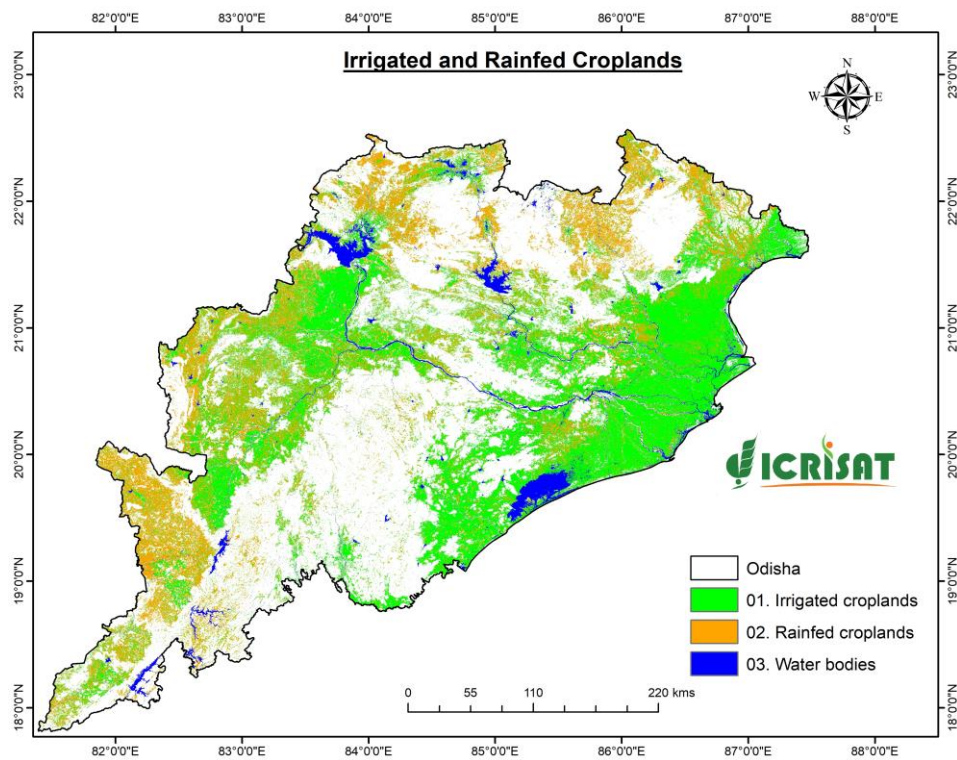
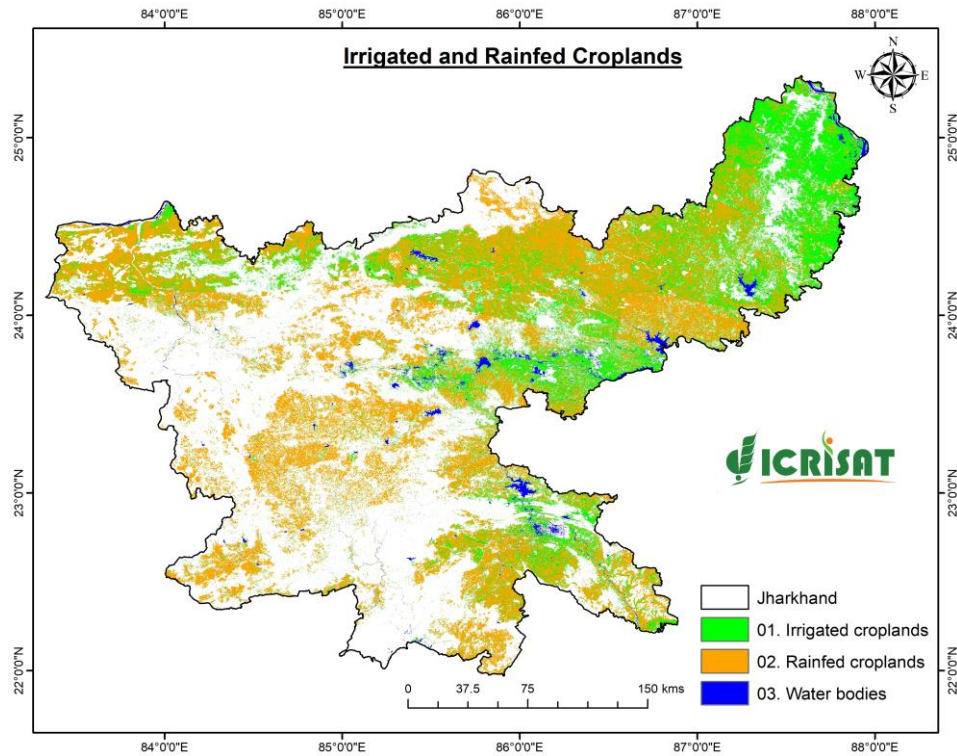


Figure 1: Maps of Croplands and Non-Croplands

2. Irrigated and Rainfed Croplands



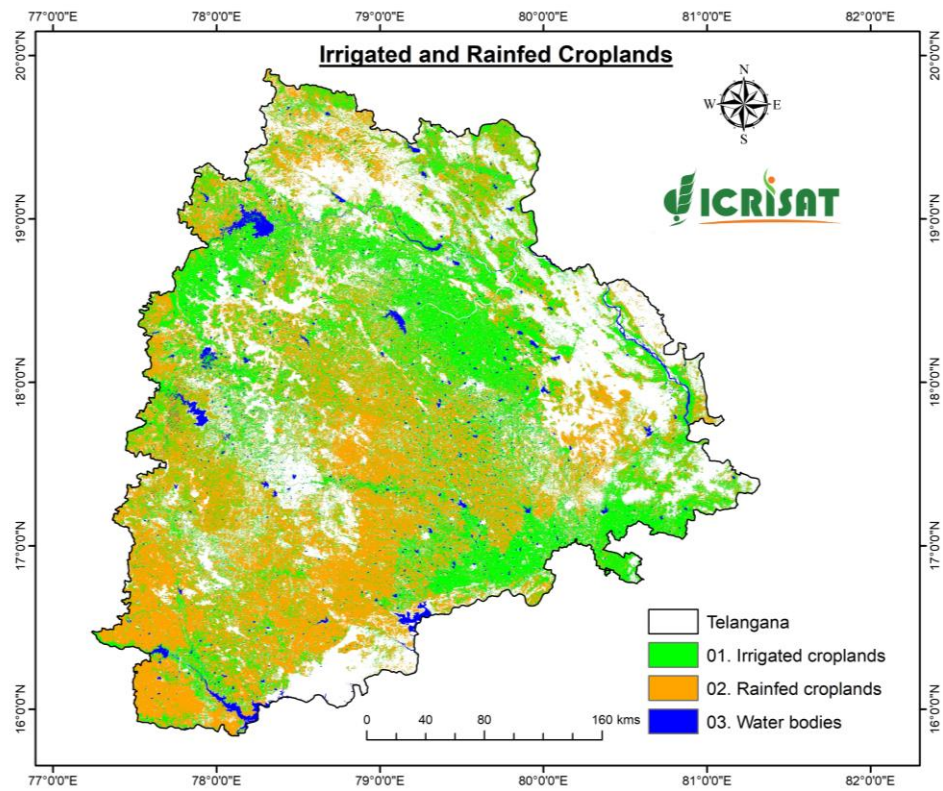
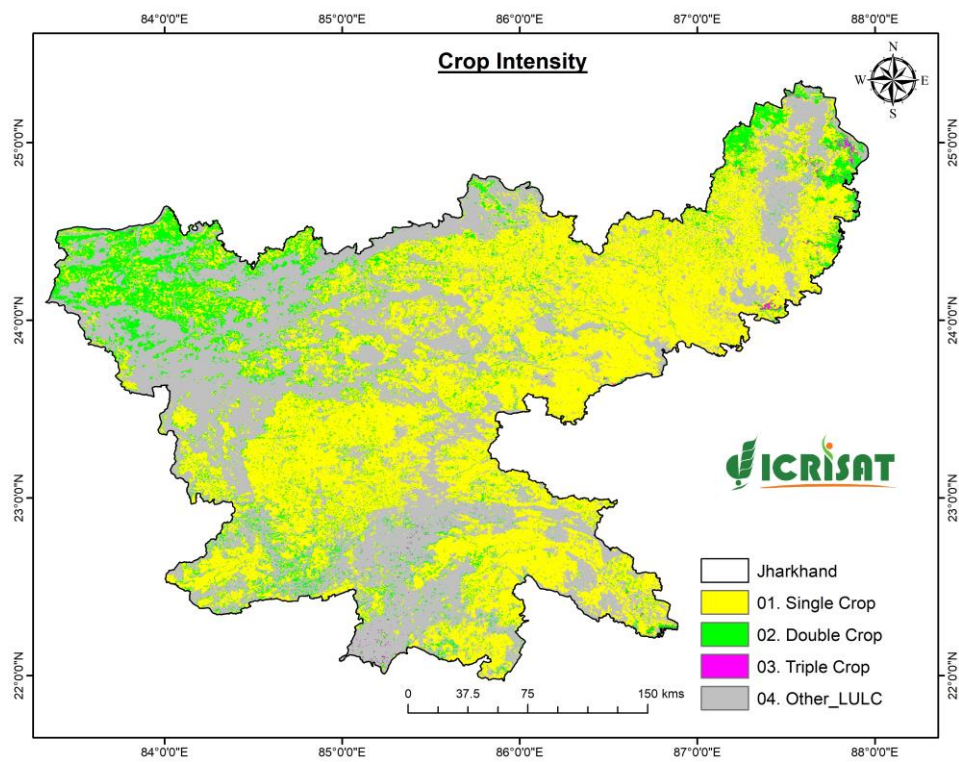


Figure 2: Maps of Irrigated and Rainfed Croplands

3. Crop Intensity



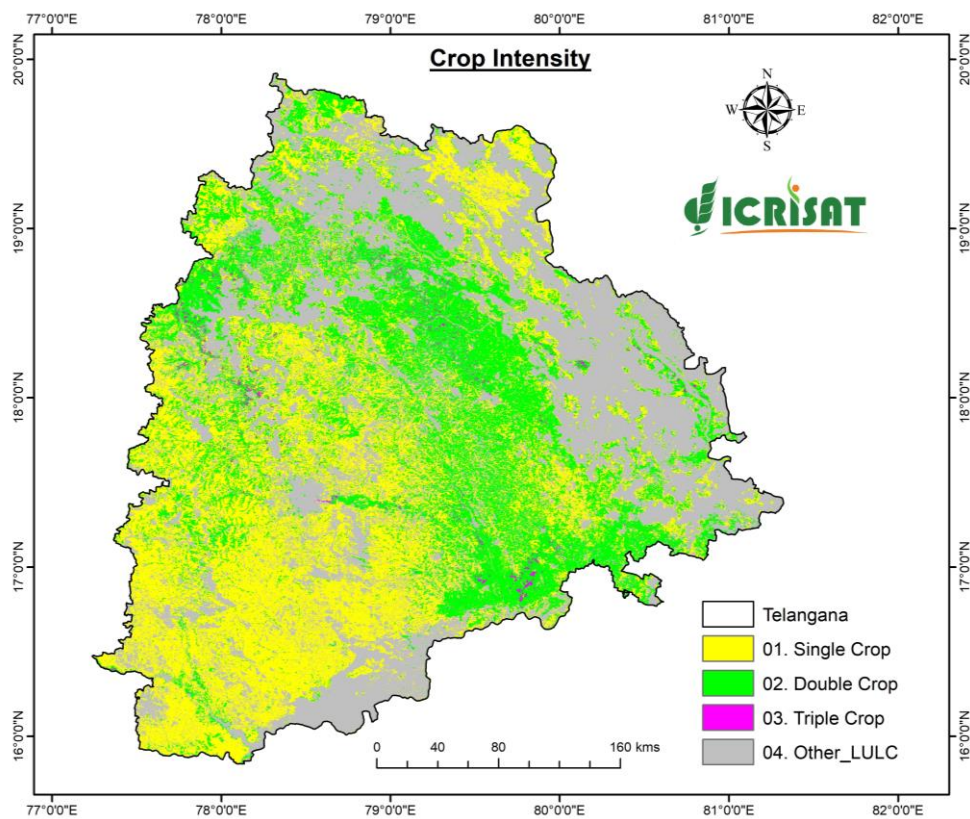
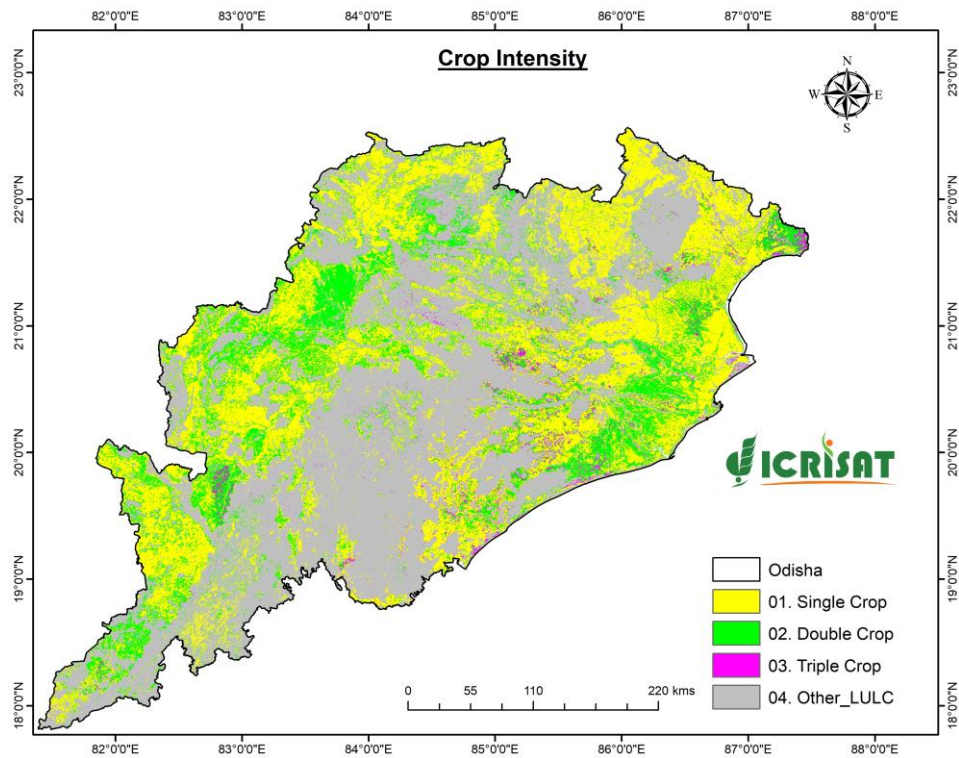
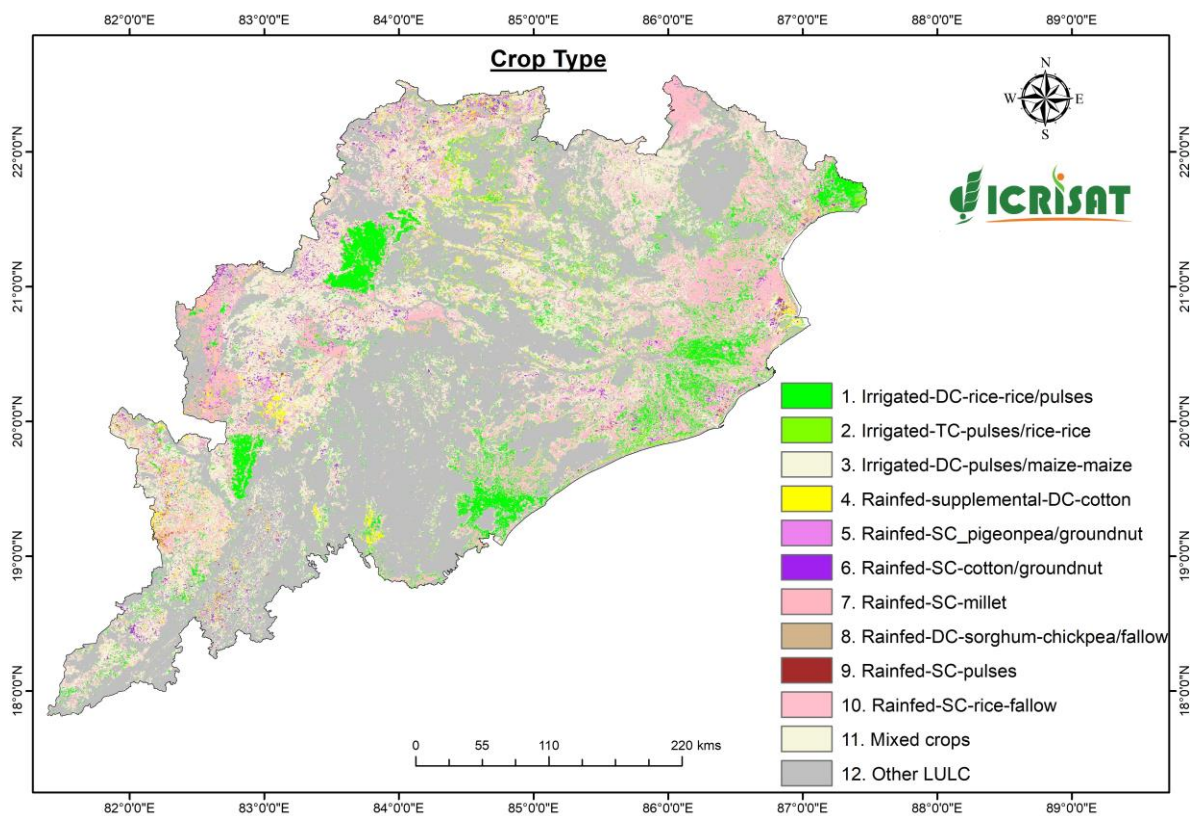
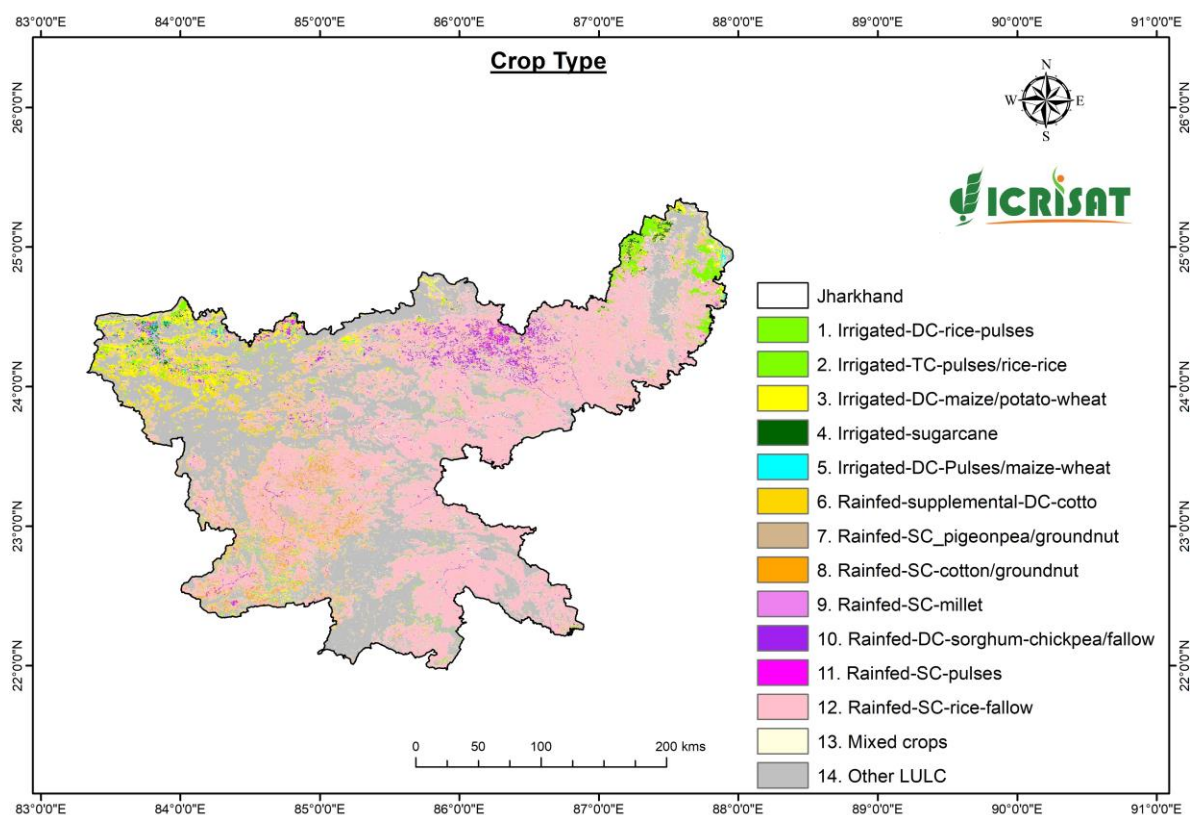


Figure 3: Maps of Crop Intensity

4. Crop Type



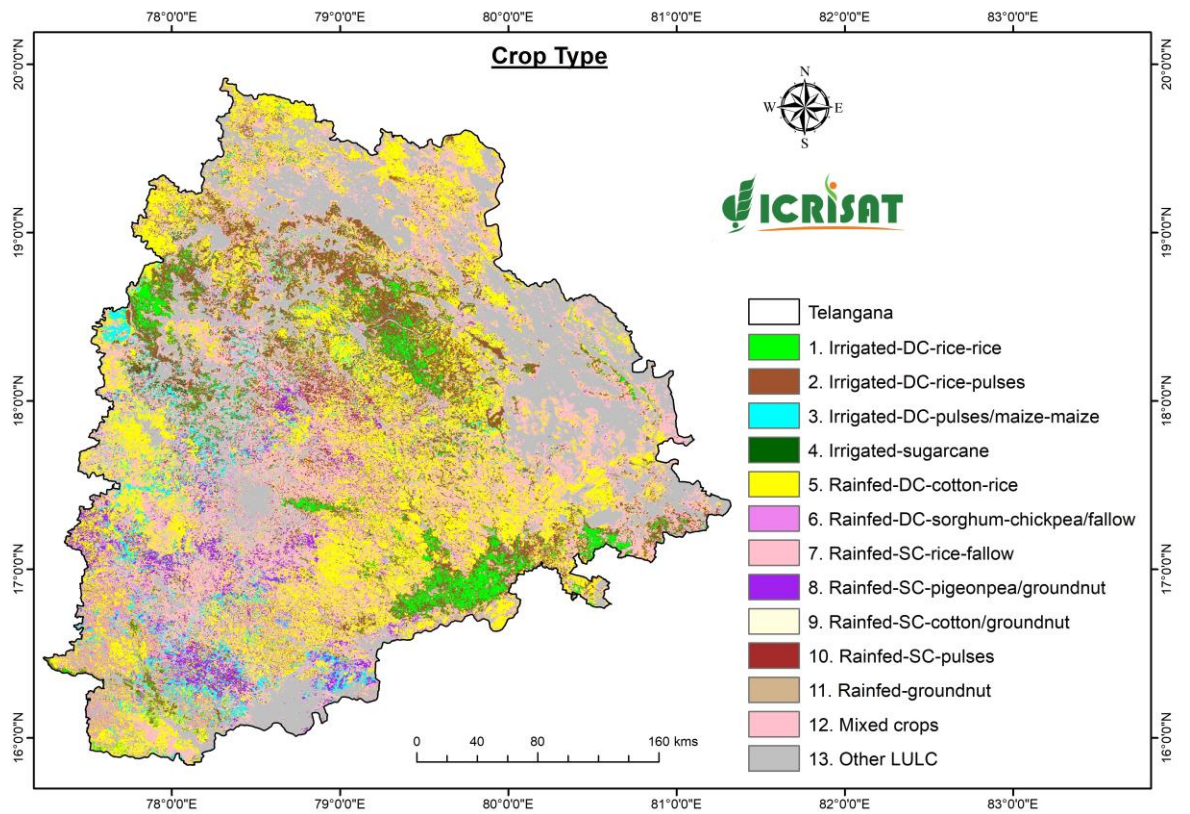
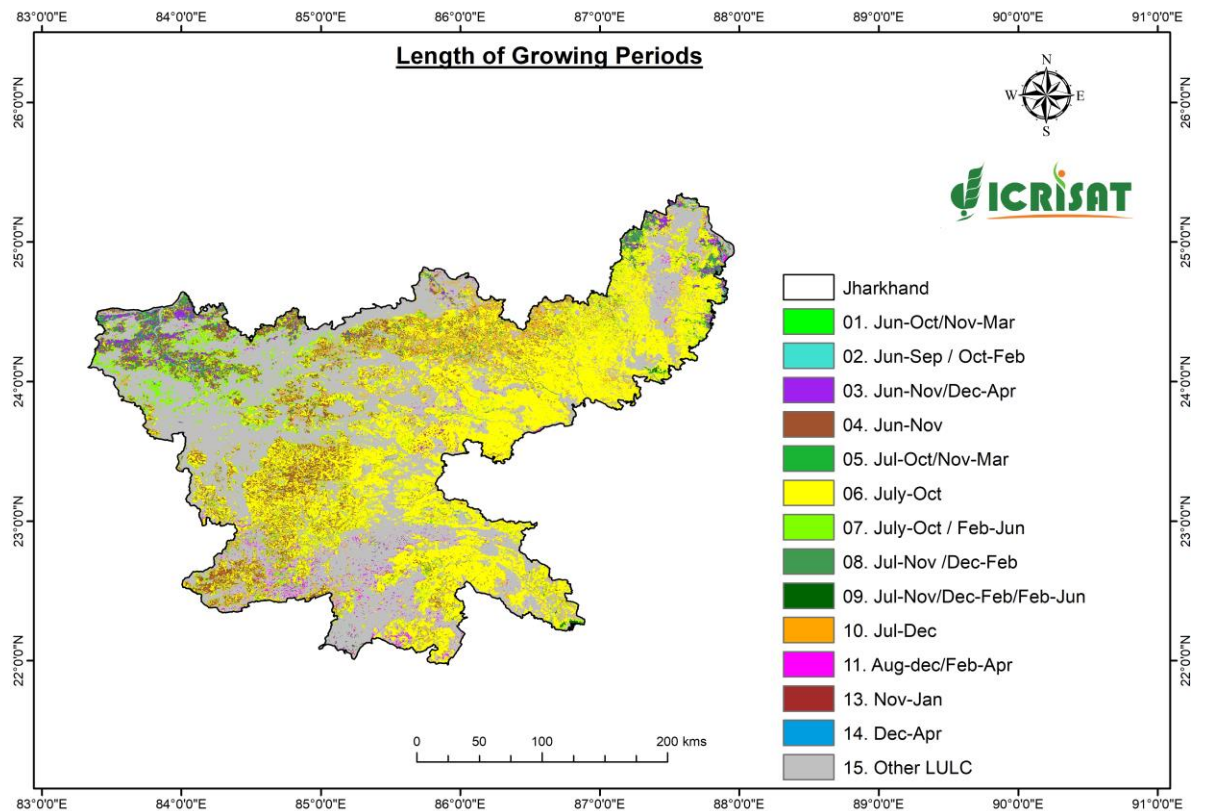


Figure 4: Maps of Crop Types

5. Length of Growing Periods



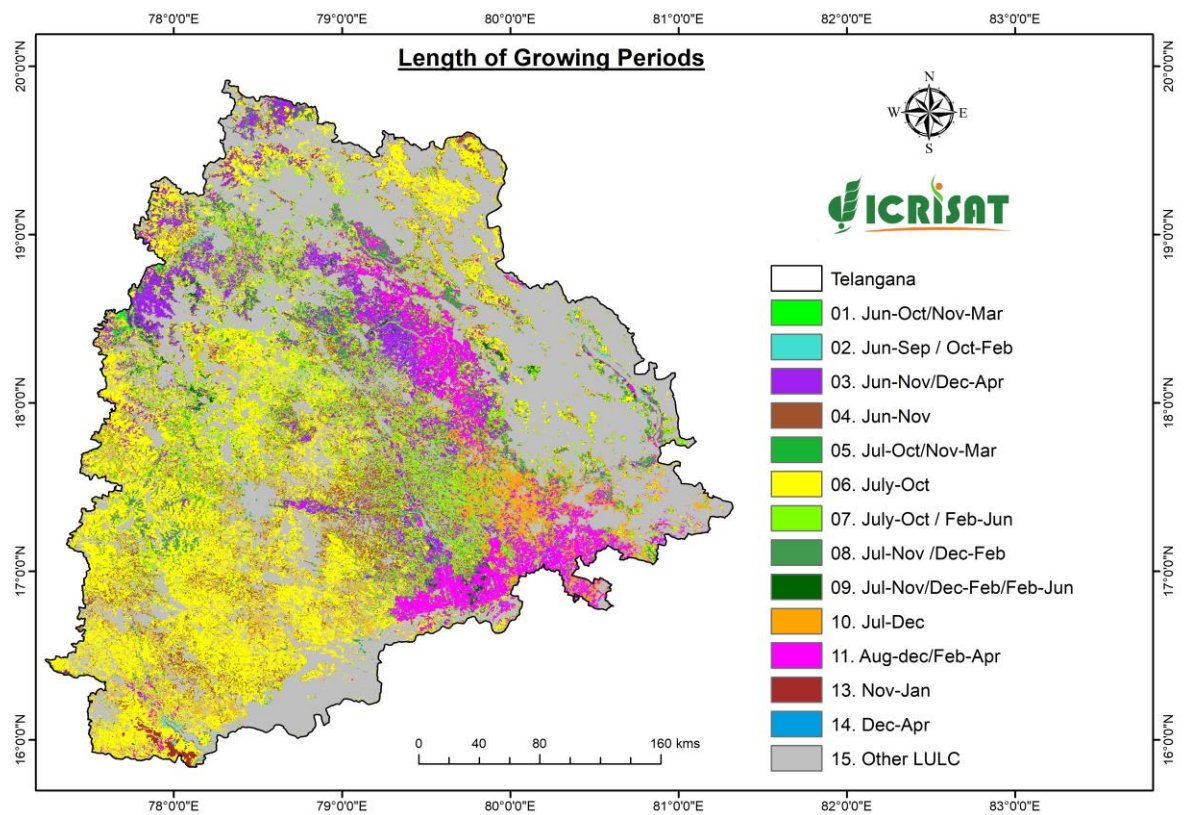
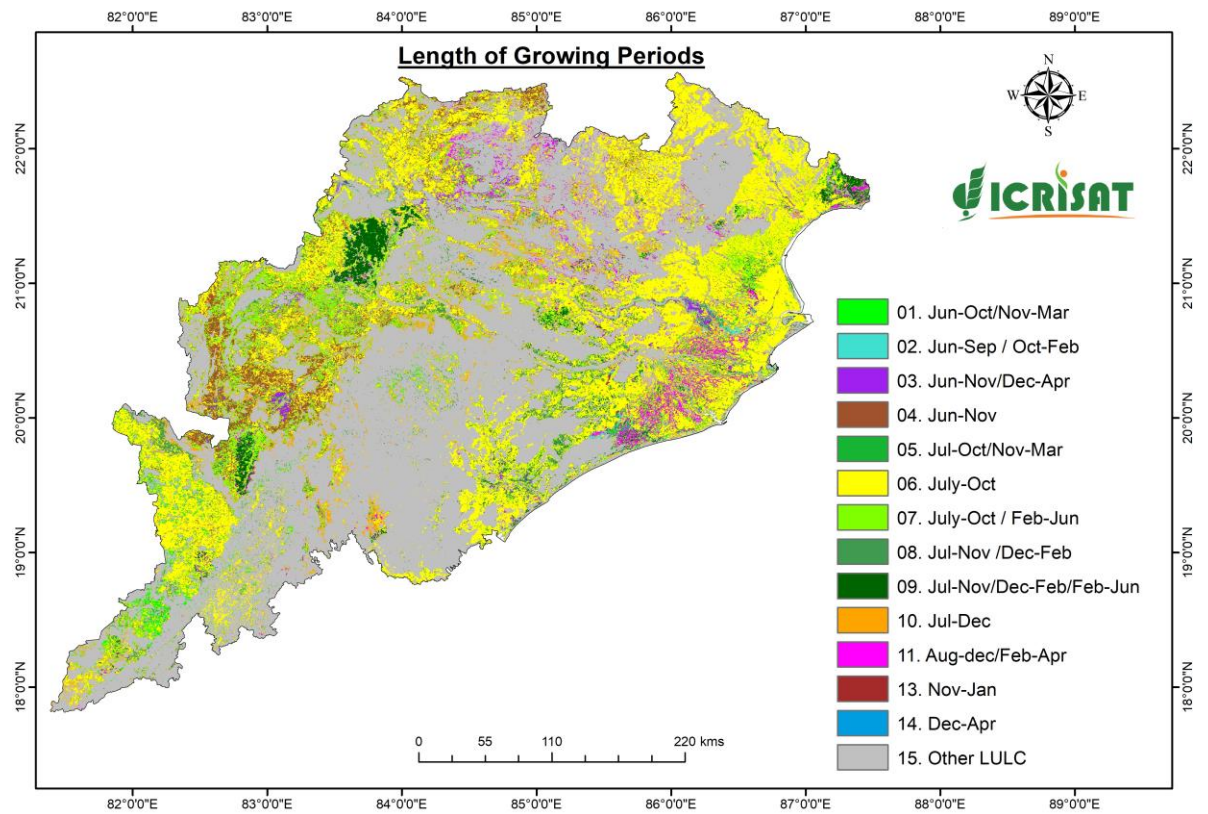
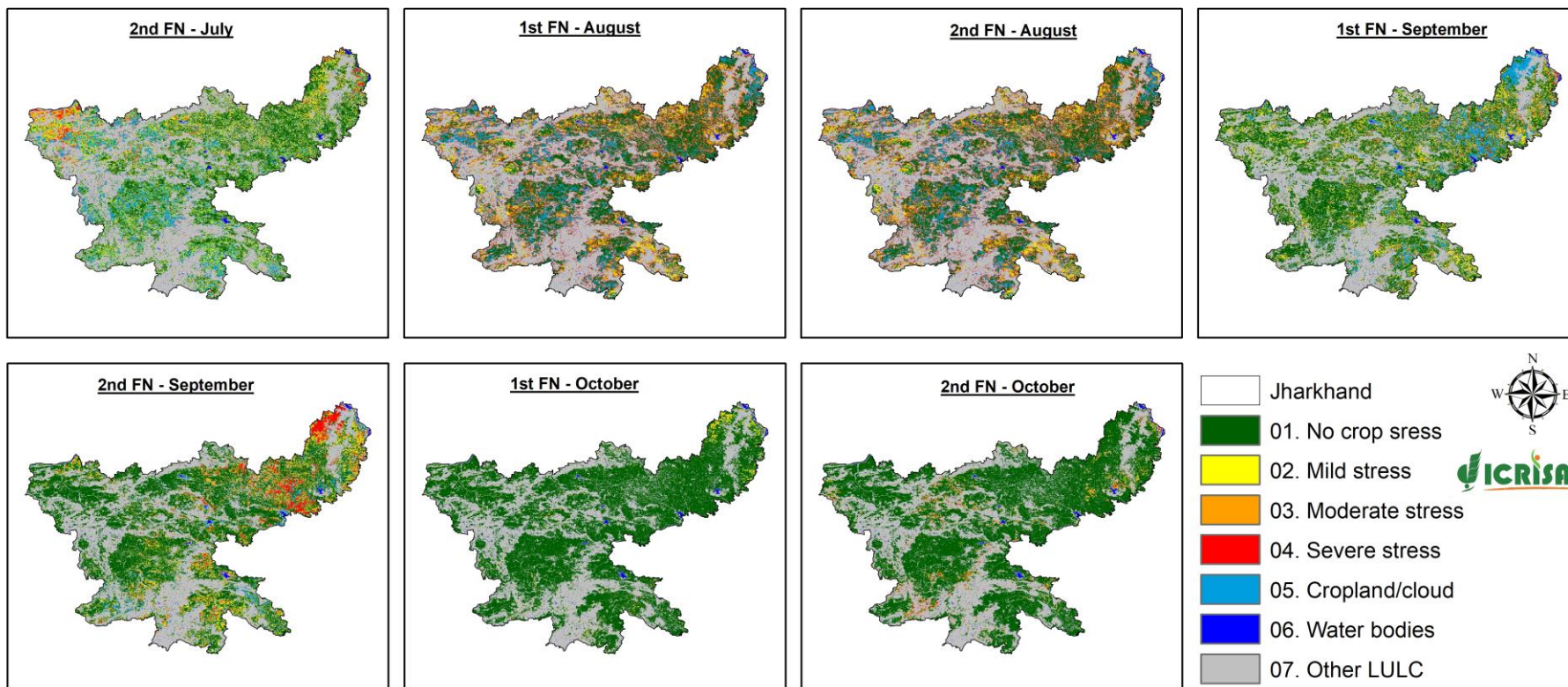


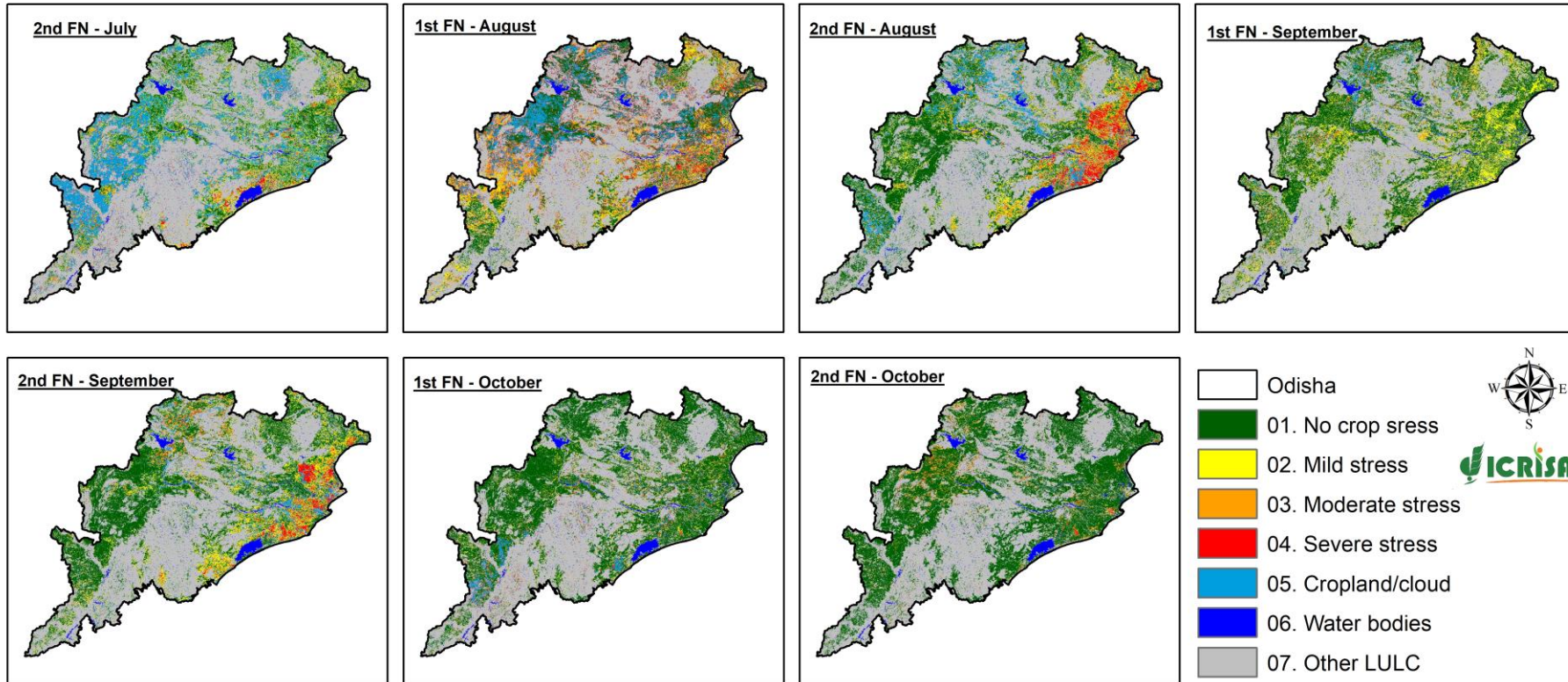
Figure 5: Maps of Length of Growing Periods

6. Crop Stress

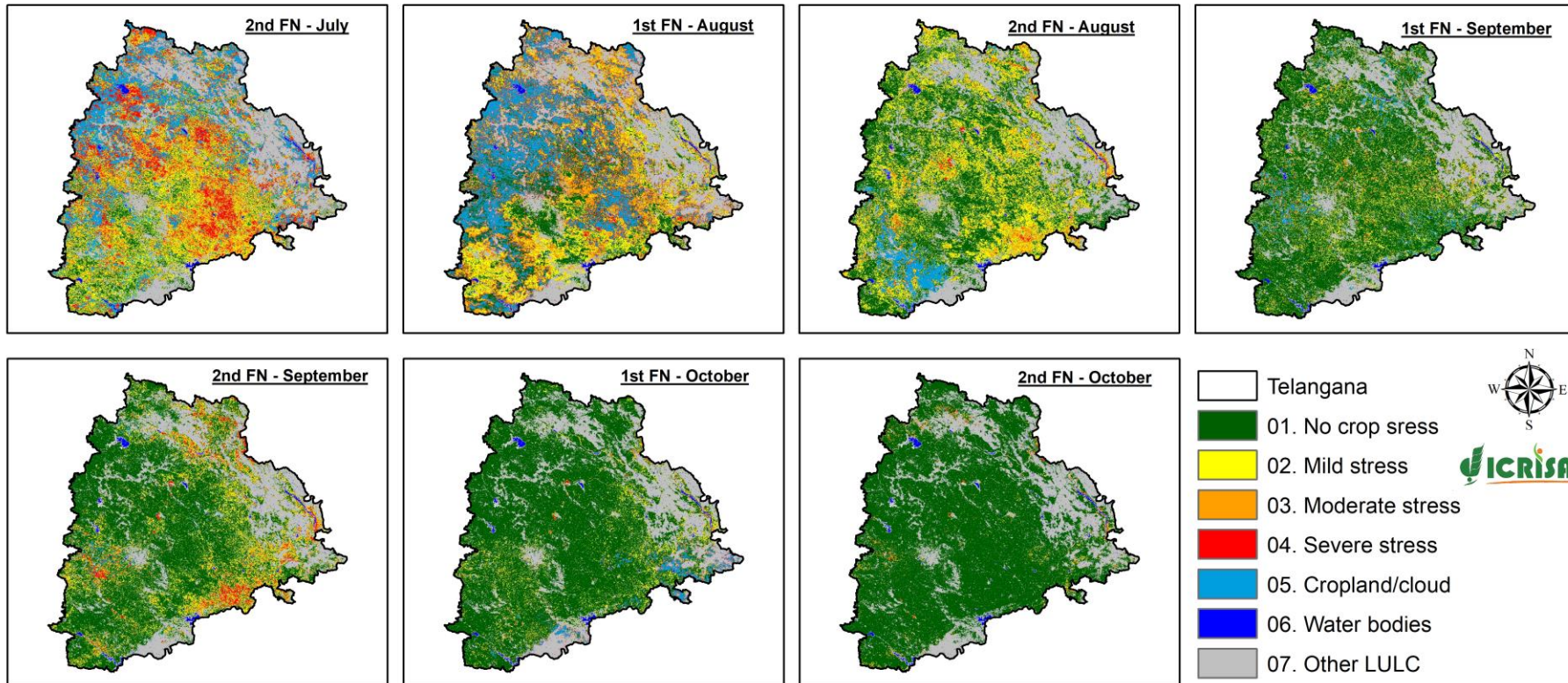
Crop Stress (2nd FN July to 2nd FN October)



Crop Stress (2nd FN July to 2nd FN October)



Crop Stress (2nd FN July to 2nd FN October)



About

ICRISAT works in agricultural research for development across the drylands of Africa and Asia, making farming profitable for smallholder farmers while reducing malnutrition and environmental degradation. We work across the entire value chain from developing new varieties to agribusiness and linking farmers to markets.

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