

1. Project Title : National Carbon Project(NCP)-Vegetation Carbon Pool (VCP)

2. Scope and Objectives:

NCP focuses on carbon cycle and its various aspects on forest, agriculture, landuse change, soils,etc. This project has three components; (i) Vegetation Carbon Pool, (ii) Soil Carbon Pool (SCP) and (iii) Vegetation and Soil Carbon fluxes. The outputs and results from the project will be useful for policy decision on environmental issues. It aims to understand and quantify the spatial and temporal dynamics and its stock and fluxes for modeling of net carbon balance.

3. Centre : North Eastern Space applications Centre (NESAC)

Collaborating Agency : Indian Institute of Remote Sensing (IIRS),Dehradun

4. Funding Agency : Indian Institute of Remote Sensing (IIRS),Dehradun

5. Study Area : Assam) and Meghalaya

6. Brief Methodology :

Non-destructive methods of volume, biomass and carbon estimation is being carried out using existing volume equation and specific gravity. Field data has been collected in Assam (15 sample points) and Meghalaya (30 sample points) in 0.1 ha plot area covering different ecosystems for the inventory of the trees, shrubs and herbaceous vegetation.

7. Data Used : IRS P6 LISS III

8. Status of the Project : Field data collection has been completed.

9. Results of the Project : Field data integration is being carried out for carbon modeling.

10. Utilization/Success Stories: The outputs and results from the project will be useful inputs for policy decision in view of global warming, CDM,NATCOM commitments, UNFCC etc.

11. Extension of scope of the project: