

### **A summary of changes made in SCATSAT-1 DP software - Version 1.1.3:**

Following changes have been made in generation of Level-1B products:

1. Finding the data peak of footprint – leading to improvement in slice balancing and overall radiometric quality
2. Increase in number of slices from 14 to 15 for outer beam
3. Use of loopback Cal power as source of transmit power in new version 1.1.3. Till version 1.1.2, FESA Telemetry Power has been used.

Following changes have been made in generation of Level-2B products:

1. Fine-tuning of GMF tables using updated Level-2A data
2. An improvement in the handling of negative  $\sigma_0$  is introduced.
3. For directional ambiguity removal, the first guess winds are obtained by spatio-temporal interpolation to the exact location and times of SCATSAT-1 data.
4. A new parameter named "Rain\_corrected\_wind\_speed" is introduced in the Level-2B data which gives the user, an improved wind product under rainy conditions.