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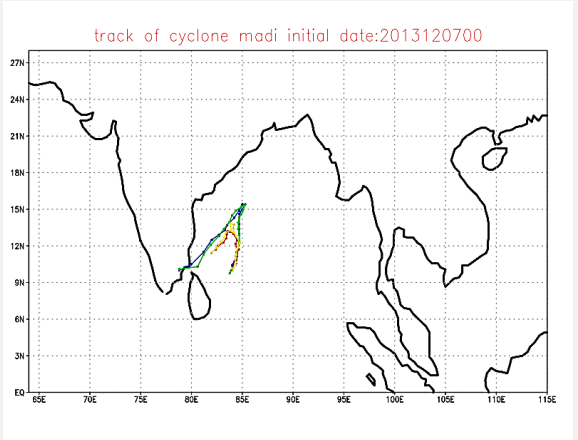
| Name | Ms. Pampi Malakar |  |
| Affiliation<br>Qualification<br>Program<br>Duration | Department of Physics, Assam University, Silchar<br>Ph.D. Scholar<br>Advance Research Programme<br>Three months | |
| Project Title | Indian satellites radiance assimilation in WRF model to study Tropical Cyclones over North Indian Ocean.<br><br>Impact of Indian satellite radiance data on tropical cyclone track prediction over the North Indian Ocean is studied using numerical weather prediction model (ARW-WRF). Radiance data from INSAT-3D Imager & Sounder and Megha-Tropiques SAPHIR are assimilated using 3D-VAR technique for this purpose. Results from this study have been compared with Indian Meteorological Department and Joint Typhoon Warning Centre best cyclone track data sets. Results from this study are encouraging. |  <br>Track of the tropical cyclone MADI with (Yellow) and without (Red) assimilation of satellite data. Green and Blue lines show the JTWC and IMD best tracks. |