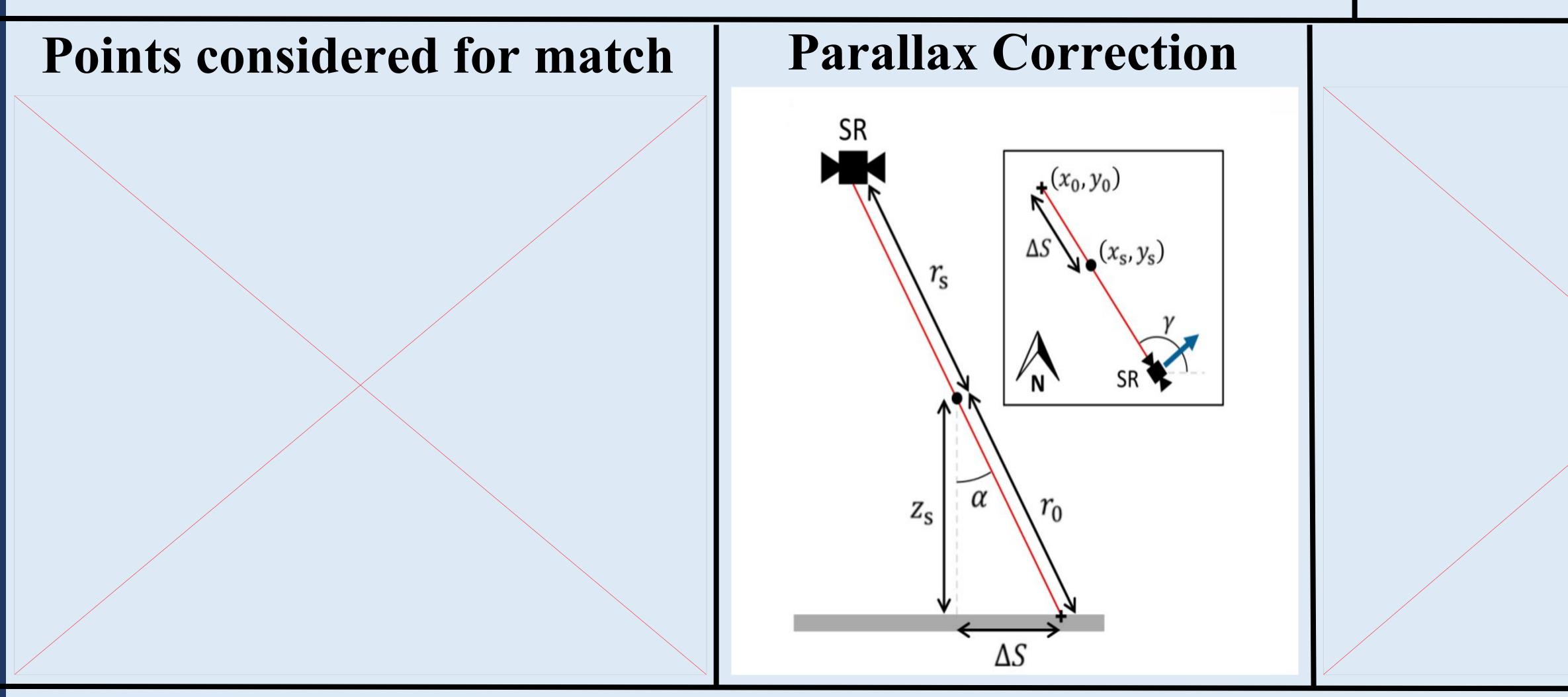
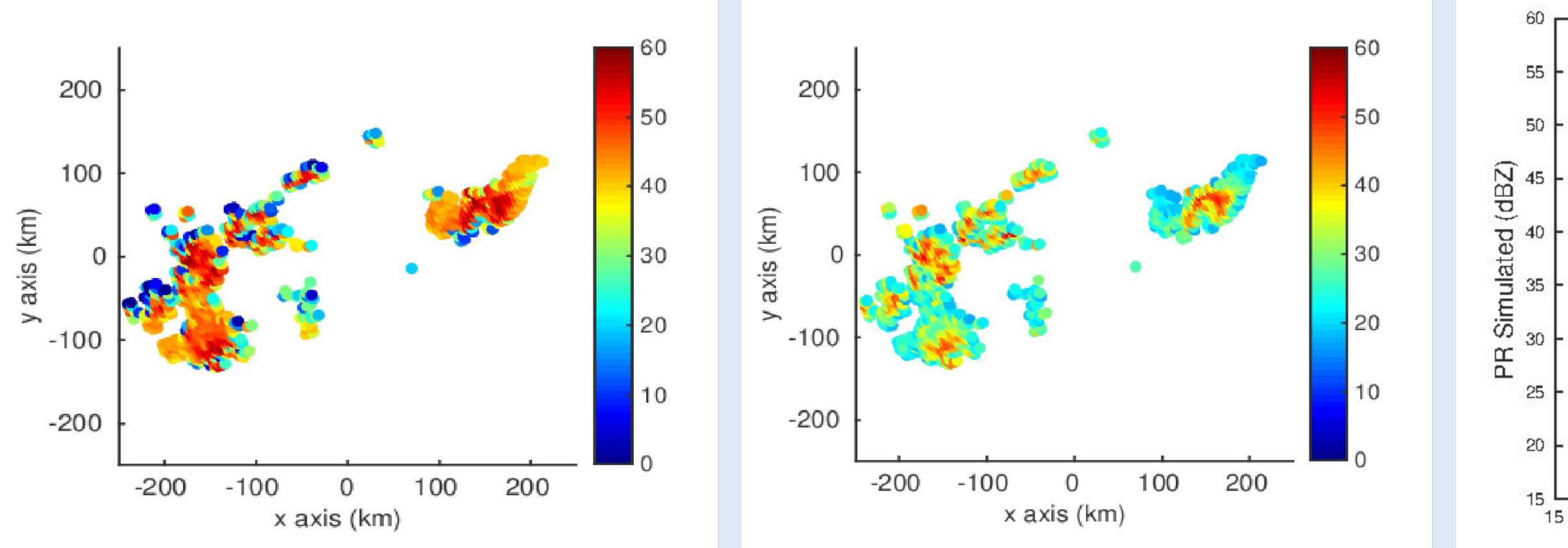
Abstract

In the present work, a methodology based on aligning the space and ground radar data onto common footprint geometry after accounting for different viewing angle, etc. is employed for calibration. Data from Dual Polarization Ground Radar (GR) for the month of June, July, August and September, 2013 is utilized. The space radar used for the comparison is TRMM PR aboard TRMM satellite. After alignment is achieved, the calibration is performed using curve fitting technique.





GR Reflectivity

Intercomparison of Indian Ground Radar and Space Radar using alignment methodology **Alok Sharma and Dr. Srinivas Ramanujam Kannan** School of Mechanical Sciences, IIT Bhubaneswar



HDF

SR Reflectivity

• **TRMM PR :** TRMM version 7 products 2A23 and 2A25 (Ku Band) stored in format. Extracted data contains precipitation radar reflectivity, geolocation data (latitude and longitude of scans), type of rain, intensity of rain, height of bright band, width of bright band etc. • Ground Radar Data (GR) : Reflectivity data form Dual-Pol Radar at IMD Delhi. Beam Width is 1° with 831 range bins. • PR orbits with 100 rain certain pixels within 100 km range of GR are considered for alignment.

