

Ortho Products from Legacy Missions (1988-2005)

IRS-1A/1B/1C/1D are ISRO's first generation satellites with a vision of documenting the entirety of Earth from space and were launched in 1988, 1991, 1995 and 1997 respectively. Each mission had multi sensor multi resolution capability with LISS-1(72.5 m), LISS-2(36.25m) sensors in IRS-1A/1B, LISS-3(23.m), PAN(5.8m) and WIFS(188m) in IRS1C/1D. Multi decadal data is available with systematic coverage of entire Indian region from 1988 onwards. This data has been extensively used by the remote sensing user community for forestry, drought, urban, agriculture and land resources applications. Data products were being supplied in LGSOWG format with standard geo-rectified spatial correction level which had spatial accuracy around 1.5 km.

With the advent of many contemporary global satellites today, legacy data can be used along with these latest satellite data sets for various operational time series analysis and projects like change detection, land and water resource monitoring etc. Ortho rectified products from legacy missions with enhanced radiometry in Geo-tiff format are now available from NRSC in an operational manner for L1/L2/L3/WIF sensors. The spatial accuracy of these products are validated with standard references and found to be in good agreement (better than 3 pixels). Products can now be ordered from Bhoonidhi.



IRS-1C, L3 DELHI Ortho Image overlaid on BHUVAN
 Right: IRS-1C, L3,23m, 96/51 , 05MAR2002-FCC
 Left: Carto-2S , 1m BHUVAN Base Layer

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|-----------------------------------|---|
| Spatial Resolution | :24m(L-3 :G,R,NIR), 70m(L-3:SWIR), 180m(WIF) 36m(L-2:B,G,R,NIR) 72m(L-1:B,G,R,NIR) |
| Image File Format | :Geo TIFF |
| Projection | :UTM(LISS), LCC (WIF) |
| Datum | :WGS-84 |
| Radiometric Correction | : Top of Atmosphere (TOA) Radiance |
| Geometric Correction Level | : Ortho Corrected |
| Number of bands | : 4 (LISS), 2(WIF) |

Web links:

bhoonidhi.nrsc.gov.in
bhuvan.nrsc.gov.in

For further details, please

☎ +91-40-2388 4423

✉ bhoonidhi@nrsc.gov.in , data@nrsc.gov.in ,
gdndc@nrsc.gov.in