recorder will be used to record data from inaccessible regions. In this paper an attempt will be made to configure SAR in radiometer receiver mode to measure sea surface temperature and "gross soil moisture" over vast expanses of agricultural lands, especially in Punjab and Haryana.

Scientific Features In Support Of Payloads:

1. Emissivity of snow/ice is more than 0.9 while that of water is 0.4; thus a very large contrast in brightness temperature signature (260 K against 140 K) can be detected.
2. With the dielectric constant of 3.1 for snow/ice, as compared to 81 for water, electromagnetic signals from radar can penetrate several hundred meters even at L band (1 – 2 GHz).

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