

Development of remote sensing of cryospheric processes: The ESA CoReH2O and its relation to other satellite missions

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The development and activities related to the planned ESA CoreH2O mission are described. This space-borne dual-frequency SAR mission is aimed for the improved monitoring of snow water equivalent, in order to investigate snow processes for hydrology, climate research and meteorology. CoReH2O is aimed to provide reliable information on snow cover with a spatial resolution of around 100 m, which is a totally new feature. The mission is one of the candidates for the next ESA Earth Explorer satellite.