

Supplementary Information

This documents presents several plots to support the material displayed in the manuscript.

Fig.S1 shows a zonally averaged comparison of the surface albedo retrieved by the IUP OMPS-LP standard retrieval, with the values from TROPOMI and VIIRS datasets. We found a general agreement between the three values; however, we notice a small discrepancy between the IUP retrieved values and TROPOMI/VIIRS data, which increases towards northern high latitudes.

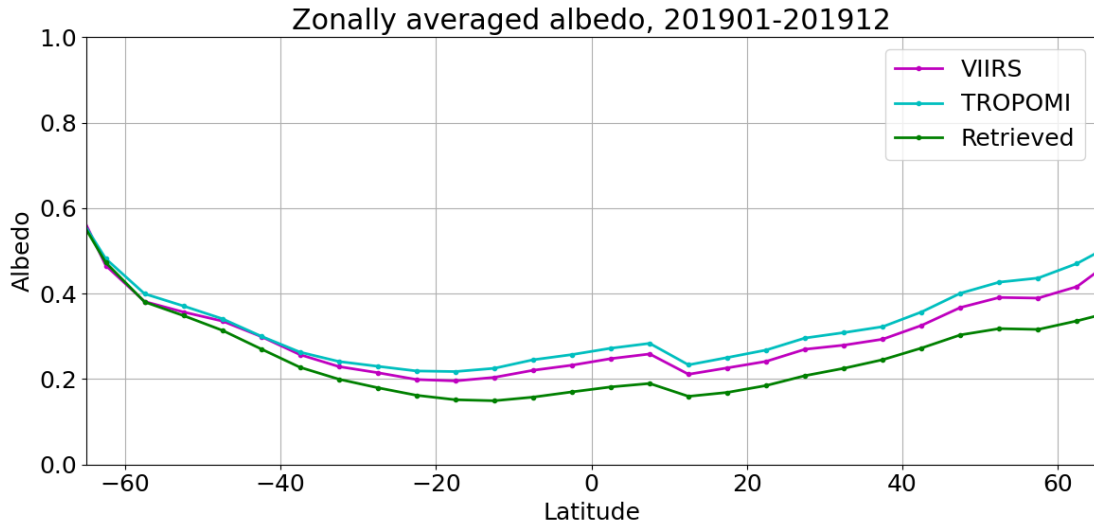


Figure S1: Comparison of the zonally averaged surface albedo retrieved by the IUP OMPS-LP standard retrieval, from TROPOMI and from VIIRS datasets. Values averaged over 2019.

Fig.S2 shows an example of OMPS-LP orbit section characterized by a strong isolated surface reflectivity peak, i.e. two consecutive Tangent Points (TPs) with high reflectivity values (above 0.5) are surrounded by low reflectivity TPs (below 0.3).

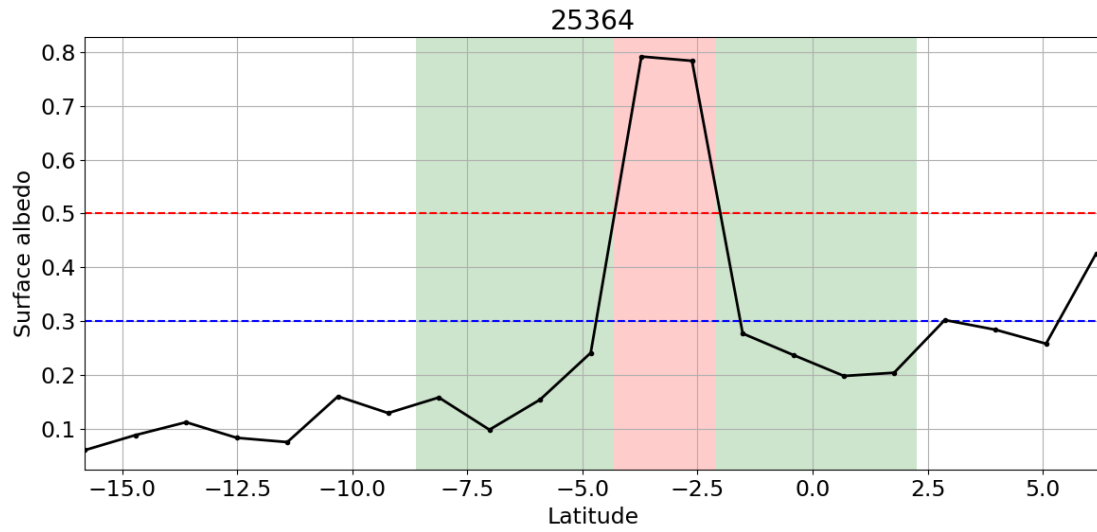


Figure S2: Example of orbit displaying a strong isolated surface reflectivity peak, with two consecutive high reflectivity TPs surrounded by low reflectivity pixels.