



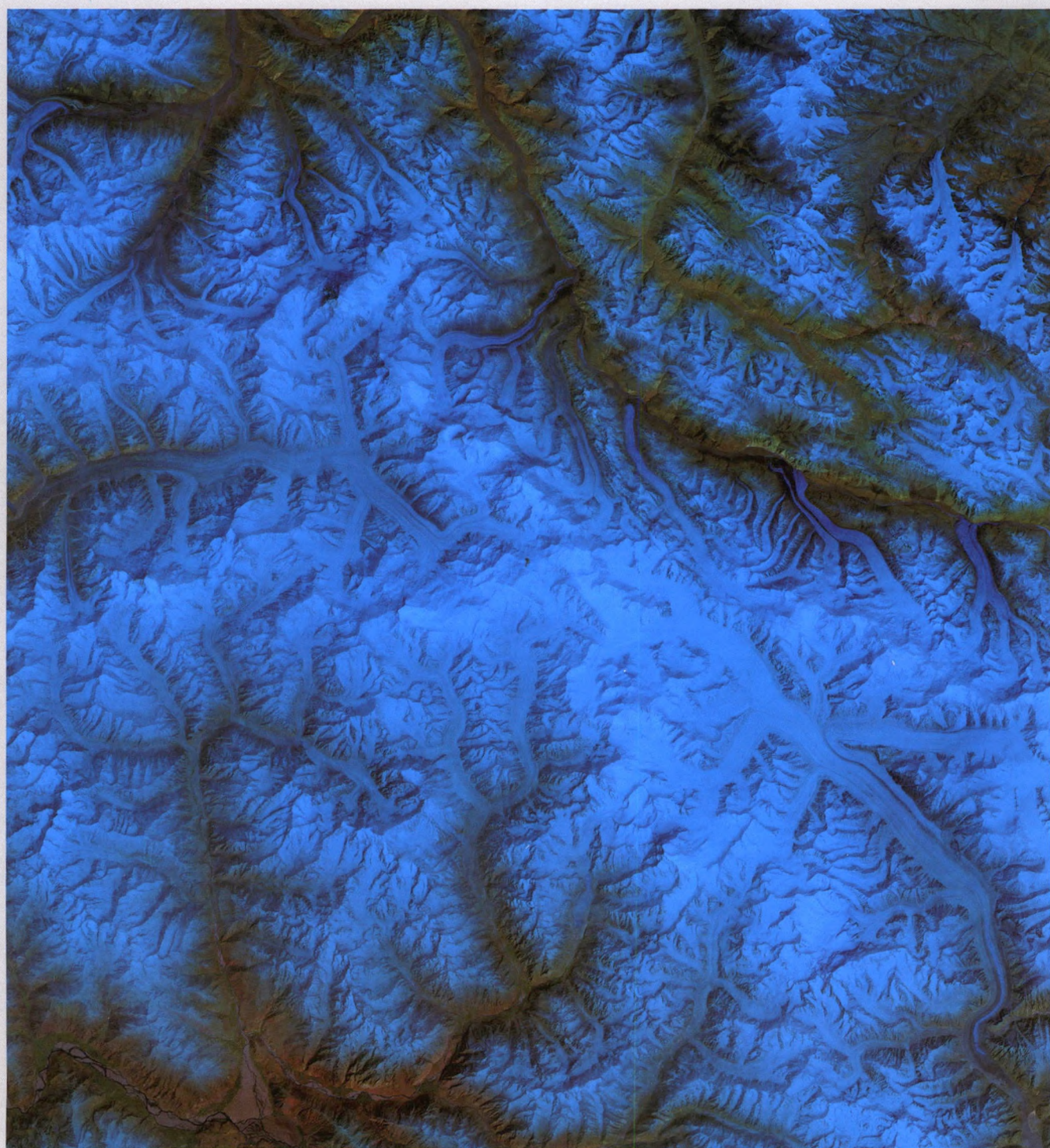
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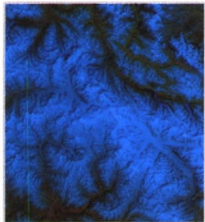
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封面说明

About the Cover

多时相融合的光学遥感数据产品

High quality optical remote sensing products by multi-temporal images fusion

获取高质量的无云光学影像一直是光学卫星遥感追求的目标。以往由于光学卫星数量少、重访周期长、受云雨影响大，很难获得高质量的数据，研究工作着重于对少数图像进行深入挖掘。随着海量遥感数据急速增加，从数据无限多的理想情况出发，结合卫星重返周期限制的现实状况来设计研究方案，以获取高质量的遥感影像成为可能。中国科学院中国遥感卫星地面站利用欧空局哨兵二号卫星星座重返周期短的特点，通过大数据融合技术，将多时序数据合成为一组无云数据集，涵盖从可见光到短波红外 10/20 m 分辨率的 9 个波段。封面影像就是利用 78 个时相合一的帕米尔高原假彩色合成影像。未来将在此技术基础上融合多源多时相的海量遥感数据提供年度、季度甚至月度的高质量融合产品。

Acquiring high quality cloud-free optical image is always the goal of researchers. In the past, it was difficult to obtain due to the small number of optical satellites, long revisit period and heavy influence of cloud and rain. The research focus was to further analyse the limited images. With the rapid increase of massive remote sensing data, nowadays it is possible to design a research program based on the ideal situation of unlimited data and the reality situation about satellite revisit cycle limitation, so as to obtain high-quality remote sensing images. China Remote Sensing Ground Station, Chinese Academy of Sciences, taking advantage of the short return period of Sentinel2 constellation, synthesizes the multi-sequence data into a cloud-free data set through the big data fusion technology. The data set contains 9 bands of 10/20 m resolution. The cover image is a false-color composite image of the Pamirs with the data fusion of 78 time phases. In the future, based on this technology, massive multi-source and multi-temporal remote sensing data will be fused to provide high-quality fusion products on an annual, quarterly or even monthly basis.

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