



Supplement of

Updates to C-LSAT 2.1 and the development of high-resolution land surface air temperature and diurnal temperature range datasets

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Table S1. Tavg temporal coverage of observation stations at both annual and monthly scales.

Months	Temporal coverage (%)			
	20–50	50–80	80–100	>100
January	20.52	45.82	9.25	21.80
February	20.40	45.80	9.42	21.90
March	20.32	45.64	9.54	21.88
April	20.45	45.52	9.39	21.97
May	20.17	45.66	9.36	22.01
June	20.34	45.51	9.40	21.91
July	20.27	45.34	9.46	21.88
August	20.15	45.50	9.38	21.91
September	20.28	45.49	9.54	21.88
October	19.98	45.67	9.51	22.03
November	19.99	45.80	9.58	21.95
December	20.24	45.61	9.57	21.85
All	24.07	42.49	9.16	18.36

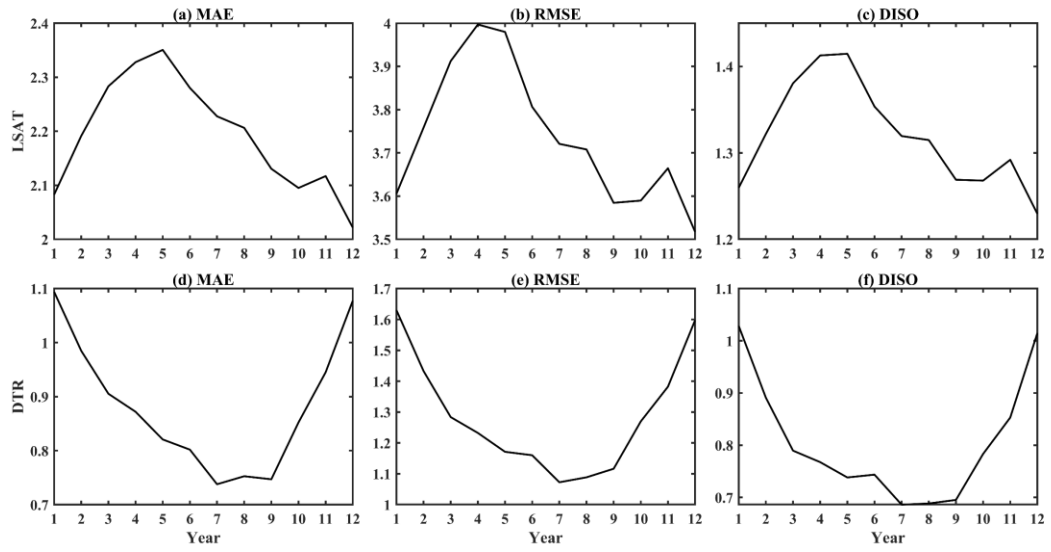


Figure S1. MAE, RMSE, and DISO validation results of the climatology fields over the Tibetan Plateau for C-LSAT HRv1 (a–c) and C-LDTR HRv1 (d–f).

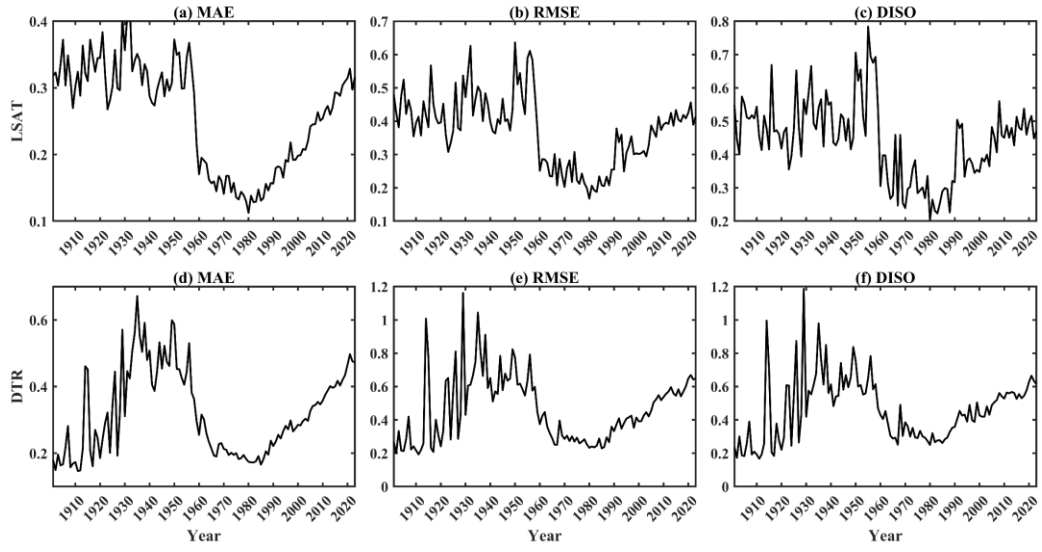


Figure S2. MAE, RMSE, and DISO validation results of the anomaly fields over the Tibetan Plateau for C-LSAT HRv1 (a–c) and C-LDTR HRv1 (d–f).