

The Information of dataset

Data	Resolution	Source and download path	Sensor platform	Acquisition date	Data number	Imaging date	Spectral	Location
Digital elevation model (DEM)	0.4" × 0.4" (about 10m square)	Geographical information Authority of Japan https://fgd.gsi.go.jp/download/mapGis.php?tab=dem	Aerial survey	2019.11	6342	2018.07.26		
Land use and land cover classifications	30m (OLI) 100m (TIRS)	United States Geological Survey https://earthexplorer.usgs.gov/	Landset 8	2021.3	LC08_L2SP_107030_20200531_20200820_107030_202150923_20200908_02	2015.09.23 2020.08.20	Operational Land Imager (OLI): Band 1 Visible (0.43 - 0.45 μm) 30 m Band 2 Visible (0.450 - 0.51 μm) 30 m Band 3 Visible (0.53 - 0.59 μm) 30 m Band 4 Red (0.64 - 0.67 μm) 30 m Band 5 Near-Infrared (0.85 - 0.88 μm) 30 m Band 6 SWIR 1 (1.57 - 1.65 μm) 30 m Band 7 SWIR 2 (2.11 - 2.29 μm) 30 m Band 8 Panchromatic (PAN) (0.50 - 0.68 μm) 15 m Band 9 Cirrus (1.36 - 1.38 μm) 30 m Thermal Infrared Sensor (TIRS): Band 10 TIRS 1 (10.6 - 11.19 μm) 100 m Band 11 TIRS 2 (11.5 - 12.51 μm) 100 m	705 kilometers above sea level
Soil types	1/200,000	Ministry of Land, Infrastructure, Transport and Tourism of Japan https://nlftp.mlit.go.jp/kokjo/inspect/landclassification/land/l_n		2019.11	Hokkaido_1200,000 Land Classification Basic Survey	1978		

Radar precipitation data	Daily	ational_map_20-1.html Japan Meteorological Business Support Center http://www.jmbasc.or.jp/jp/			One station per square kilometer
Minimum and maximum temperature	Daily	Japan Meteorological Agency https://www.data.jma.go.jp/gmd/risk/obsdl/index.php	2021.5	2009.01.01-2020.12.31	42°43.8' N 141°53.3' E
Wind speed					
Relative humidity	Daily				42°37.4' N 141°32.8' E
Solar radiation	Daily				43°41' N 141°20' E
