



Supplement of

Formation, evolution, and drainage of short-lived glacial lakes in permafrost environments of the northern Teskey Range, Central Asia

Mirlan Daiyrov and Chiyuki Narama

Correspondence to: Mirlan Daiyrov (mirlan085@gmail.com) and Chiyuki Narama (narama@env.sc.niigata-u.ac.jp)

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Landsat-7 and 8

ID	Satellite	Acquisition date	Resolution (m)
1	Landsat-8/OLI	12-Jun-13	15 (pan)
2	Landsat-8/OLI	19-Jun-13	15 (pan)
3	Landsat-8/OLI	5-Jul-13	15 (pan)
4	Landsat-8/OLI	28-Jul-13	15 (pan)
5	Landsat-7 ETM+/SLC-off	29-Jul-13	15 (pan)
6	Landsat-8/OLI	30-Jul-13	15 (pan)
7	Landsat-8/OLI	6-Aug-13	15 (pan)
8	Landsat-8/OLI	15-Aug-13	15 (pan)
9	Landsat-8/OLI	29-Aug-13	15 (pan)
10	Landsat-8/OLI	31-Aug-13	15 (pan)
11	Landsat-8/OLI	1-Sep-13	15 (pan)
12	Landsat-8/OLI	7-Sep-13	15 (pan)
13	Landsat-7 ETM+/SLC-off	8-Sep-13	15 (pan)
14	Landsat-8/OLI	23-Sep-13	15 (pan)
15	Landsat-7 ETM+/SLC-off	24-Sep-13	15 (pan)
16	Landsat-7 ETM+/SLC-off	1-Oct-13	15 (pan)
17	Landsat-8/OLI	9-Oct-13	15 (pan)
18	Landsat-7 ETM+/SLC-off	10-Oct-13	15 (pan)
19	Landsat-8/OLI	5-May-14	15 (pan)
20	Landsat-7 ETM+/SLC-off	29-May-14	15 (pan)
21	Landsat-7 ETM+/SLC-off	14-Jun-14	15 (pan)
22	Landsat-8/OLI	15-Jun-14	15 (pan)
23	Landsat-8/OLI	27-Jun-14	15 (pan)
24	Landsat-7 ETM+/SLC-off	30-Jun-14	15 (pan)
25	Landsat-8/OLI	1-Jul-14	15 (pan)
26	Landsat-8/OLI	8-Jul-14	15 (pan)
27	Landsat-7 ETM+/SLC-off	9-Jul-14	15 (pan)
28	Landsat-7 ETM+/SLC-off	16-Jul-14	15 (pan)
29	Landsat-7 ETM+/SLC-off	25-Jul-14	15 (pan)
30	Landsat-7 ETM+/SLC-off	1-Aug-14	15 (pan)
31	Landsat-8/OLI	2-Aug-14	15 (pan)
32	Landsat-7 ETM+/SLC-off	10-Aug-14	15 (pan)
33	Landsat-8/OLI	25-Aug-14	15 (pan)
34	Landsat-8/OLI	1-Sep-14	15 (pan)
35	Landsat-7 ETM+/SLC-off	2-Sep-14	15 (pan)
36	Landsat-8/OLI	3-Sep-14	15 (pan)
37	Landsat-8/OLI	10-Sep-14	15 (pan)

38	Landsat-7 ETM+/SLC-off	18-Sep-14	15 (pan)
39	Landsat-8/OLI	19-Sep-14	15 (pan)
40	Landsat-8/OLI	26-Sep-14	15 (pan)
41	Landsat-7 ETM+/SLC-off	17-Jun-15	15 (pan)
42	Landsat-8/OLI	18-Jun-15	15 (pan)
43	Landsat-8/OLI	2-Jul-15	15 (pan)
44	Landsat-7 ETM+/SLC-off	3-Jul-15	15 (pan)
45	Landsat-8/OLI	4-Jul-15	15 (pan)
46	Landsat-8/OLI	11-Jul-15	15 (pan)
47	Landsat-7 ETM+/SLC-off	12-Jul-15	15 (pan)
48	Landsat-8/OLI	18-Jul-15	15 (pan)
49	Landsat-8/OLI	30-Jul-15	15 (pan)
50	Landsat-8/OLI	12-Aug-15	15 (pan)
51	Landsat-8/OLI	19-Aug-15	15 (pan)
52	Landsat-7 ETM+/SLC-off	20-Aug-15	15 (pan)
53	Landsat-8/OLI	21-Aug-15	15 (pan)
54	Landsat-8/OLI	4-Sep-15	15 (pan)
55	Landsat-7 ETM+/SLC-off	5-Sep-15	15 (pan)
56	Landsat-8/OLI	6-Sep-15	15 (pan)
57	Landsat-8/OLI	13-Sep-15	15 (pan)
58	Landsat-8/OLI	29-Sep-15	15 (pan)
59	Landsat-8/OLI	8-Oct-15	15 (pan)
60	Landsat-7 ETM+/SLC-off	10-Jun-16	15 (pan)
61	Landsat-8/OLI	11-Jun-16	15 (pan)
62	Landsat-7 ETM+/SLC-off	26-Jun-16	15 (pan)
63	Landsat-8/OLI	20-Jun-16	15 (pan)
64	Landsat-7 ETM+/SLC-off	12-Jul-16	15 (pan)
65	Landsat-8/OLI	13-Jul-16	15 (pan)
66	Landsat-8/OLI	20-Jul-16	15 (pan)
67	Landsat-7 ETM+/SLC-off	21-Jul-16	15 (pan)
68	Landsat-8/OLI	22-Jul-16	15 (pan)
69	Landsat-8/OLI	29-Jul-16	15 (pan)
70	Landsat-7 ETM+/SLC-off	30-Jul-16	15 (pan)
71	Landsat-8/OLI	7-Aug-16	15 (pan)
72	Landsat-7 ETM+/SLC-off	13-Aug-16	15 (pan)
73	Landsat-8/OLI	14-Aug-16	15 (pan)
74	Landsat-8/OLI	21-Aug-16	15 (pan)
75	Landsat-7 ETM+/SLC-off	22-Aug-16	15 (pan)
76	Landsat-8/OLI	23-Aug-16	15 (pan)

77	Landsat-7 ETM+/SLC-off	7-Sep-16	15 (pan)
78	Landsat-8/OLI	8-Sep-16	15 (pan)
79	Landsat-7 ETM+/SLC-off	14-Sep-16	15 (pan)
80	Landsat-8/OLI	15-Sep-16	15 (pan)
81	Landsat-8/OLI	22-Sep-16	15 (pan)
82	Landsat-7 ETM+/SLC-off	23-Sep-16	15 (pan)
83	Landsat-8/OLI	24-Sep-16	15 (pan)
84	Landsat-8/OLI	14-Jun-17	15 (pan)
85	Landsat-8/OLI	30-Jun-17	15 (pan)
86	Landsat-8/OLI	1-Jul-17	15 (pan)
87	Landsat-8/OLI	7-Jul-17	15 (pan)
88	Landsat-8/OLI	9-Jul-17	15 (pan)
89	Landsat-8/OLI	16-Jul-17	15 (pan)
90	Landsat-8/OLI	25-Jul-17	15 (pan)
91	Landsat-8/OLI	1-Aug-17	15 (pan)
92	Landsat-8/OLI	8-Aug-17	15 (pan)
93	Landsat-8/OLI	10-Aug-17	15 (pan)
94	Landsat-8/OLI	26-Aug-17	15 (pan)
95	Landsat-8/OLI	2-Sep-17	15 (pan)
96	Landsat-7 ETM+/SLC-off	17-Sep-17	15 (pan)
97	Landsat-8/OLI	11-Oct-17	15 (pan)
98	Landsat-8/OLI	25-Jun-18	15 (pan)
99	Landsat-8/OLI	10-Jul-18	15 (pan)
100	Landsat-8/OLI	19-Jul-18	15 (pan)

Purpose of use	ID	Satellite	Acquisition date
short-lived glacial lake analysis	1	Sentinel-2	10-Jun-16
short-lived glacial lake analysis	2	Sentinel-2	30-Jun-16
short-lived glacial lake analysis	3	Sentinel-2	17-Jul-16
short-lived glacial lake analysis	4	Sentinel-2	9-Aug-16
short-lived glacial lake analysis	5	Sentinel-2	29-Aug-16
short-lived glacial lake analysis	6	Sentinel-2	18-Sep-16
short-lived glacial lake analysis	7	Sentinel-2	8-Oct-16
short-lived glacial lake analysis	8	Sentinel-2	12-Jun-17
short-lived glacial lake analysis	9	Sentinel-2	15-Jun-17
short-lived glacial lake analysis	10	Sentinel-2	17-Jun-17
short-lived glacial lake analysis	11	Sentinel-2	21-Jun-17
short-lived glacial lake analysis	12	Sentinel-2	30-Jun-17
short-lived glacial lake analysis	13	Sentinel-2	2-Jul-17
short-lived glacial lake analysis	14	Sentinel-2	7-Jul-17
short-lived glacial lake analysis	15	Sentinel-2	9-Jul-17
short-lived glacial lake analysis	16	Sentinel-2	20-Jul-17
short-lived glacial lake analysis	17	Sentinel-2	22-Jul-17
short-lived glacial lake analysis	18	Sentinel-2	27-Jul-17
short-lived glacial lake analysis	19	Sentinel-2	9-Aug-17
short-lived glacial lake analysis	20	Sentinel-2	14-Aug-17
short-lived glacial lake analysis	21	Sentinel-2	29-Aug-17
short-lived glacial lake analysis	22	Sentinel-2	29-Aug-17
short-lived glacial lake analysis	23	Sentinel-2	31-Aug-17
short-lived glacial lake analysis	24	Sentinel-2	18-Sep-17
short-lived glacial lake analysis	25	Sentinel-2	20-Sep-17
short-lived glacial lake analysis	26	Sentinel-2	23-Sep-17
short-lived glacial lake analysis	27	Sentinel-2	10-Oct-17
short-lived glacial lake analysis	28	Sentinel-2	10-Jun-18
short-lived glacial lake analysis	29	Sentinel-2	17-Jun-18
short-lived glacial lake analysis	30	Sentinel-2	22-Jun-18
short-lived glacial lake analysis	31	Sentinel-2	30-Jun-18
short-lived glacial lake analysis	32	Sentinel-2	7-Jul-18
short-lived glacial lake analysis	33	Sentinel-2	10-Jul-18
short-lived glacial lake analysis	34	Sentinel-2	22-Jul-18
short-lived glacial lake analysis	35	Sentinel-2	25-Jul-18
short-lived glacial lake analysis	36	Sentinel-2	27-Jul-18
short-lived glacial lake analysis	37	Sentinel-2	27-Jul-18

short-lived glacial lake analysis	38	Sentinel-2	30-Jul-18
short-lived glacial lake analysis	39	Sentinel-2	1-Aug-18
short-lived glacial lake analysis	40	Sentinel-2	4-Aug-18
short-lived glacial lake analysis	41	Sentinel-2	9-Aug-18
short-lived glacial lake analysis	42	Sentinel-2	11-Aug-18
short-lived glacial lake analysis	43	Sentinel-2	14-Aug-18
short-lived glacial lake analysis	44	Sentinel-2	16-Aug-18
short-lived glacial lake analysis	45	Sentinel-2	20-Aug-18
short-lived glacial lake analysis	46	Sentinel-2	29-Aug-18
short-lived glacial lake analysis	47	Sentinel-2	31-Aug-18
short-lived glacial lake analysis	48	Sentinel-2	3-Sep-18
short-lived glacial lake analysis	49	Sentinel-2	5-Sep-18
short-lived glacial lake analysis	50	Sentinel-2	8-Sep-18
short-lived glacial lake analysis	51	Sentinel-2	13-Sep-18
short-lived glacial lake analysis	52	Sentinel-2	30-Sep-18
short-lived glacial lake analysis	53	Sentinel-2	6-Aug-19
short-lived glacial lake analysis	54	Sentinel-2	11-Aug-19
short-lived glacial lake analysis	55	Sentinel-2	21-Aug-19
short-lived glacial lake analysis	56	Sentinel-2	26-Aug-19
short-lived glacial lake analysis	57	Sentinel-2	29-Aug-19
short-lived glacial lake analysis	58	Sentinel-2	31-Aug-19

PlanetScope

	ID	Satellite	Acquisition date
short-lived glacial lake analysis	1	Planet Scope	28-Jul-13
short-lived glacial lake analysis	2	Planet Scope	18-Aug-13
short-lived glacial lake analysis	3	Planet Scope	27-Jun-14
short-lived glacial lake analysis	4	Planet Scope	30-Jun-17
short-lived glacial lake analysis	5	Planet Scope	15-Jul-17
short-lived glacial lake analysis	6	Planet Scope	31-Jul-17
short-lived glacial lake analysis	7	Planet Scope	18-Aug-17
short-lived glacial lake analysis	8	Planet Scope	10-Jul-18
short-lived glacial lake analysis	9	Planet Scope	27-Jul-18
short-lived glacial lake analysis	10	Planet Scope	19-Aug-18
short-lived glacial lake analysis	11	Planet Scope	23-Aug-18
short-lived glacial lake analysis	12	Planet Scope	29-Aug-18
short-lived glacial lake analysis	13	Planet Scope	30-Aug-18
short-lived glacial lake analysis	14	Planet Scope	5-Jul-19
short-lived glacial lake analysis	15	Planet Scope	23-Jul-19

short-lived glacial lake analysis	16	Planet Scope	7-Aug-19
short-lived glacial lake analysis	17	Planet Scope	12-Aug-19
short-lived glacial lake analysis	18	Planet Scope	23-Aug-19
short-lived glacial lake analysis	19	Planet Scope	26-Aug-19

short-lived glacial lake analysis

short-lived glacial lake analysis

ALOS/AV

short-lived glacial lake analysis

ID

Satellite

Acquisition date

short-lived glacial lake analysis

1

ALOS/AVNIR-2

2007/9/17

short-lived glacial lake analysis

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3	Korumdu lake analysis
3	Korumdu lake analysis
3	Korumdu lake analysis
3	Korumdu lake analysis

NIR-2

Resolution (m)	Purpose of use
2.5	Korumdu Glacier analysis
