

Table S1. List of SEVIRI images used to create the dataset.

Event ID	Number of SEVIRI images	Start date and time (UTC)	End date and time (UTC)
1	13	13 Dec 2020, 22:00	14 Dec 2020, 01:00
2	30	21 Dec 2020, 09:15	21 Dec 2020, 16:30
3	16	22 Dec 2020, 03:30	22 Dec 2020, 07:15
4	6	18 Jan 2021, 19:15	18 Jan 2021, 20:30
5	8	16 Feb 2021, 16:15	16 Feb 2021, 18:00
6	31	19 Feb 2021, 08:45	19 Feb 2021, 16:15
7	29	20 Feb 2021, 22:00	21 Feb 2021, 05:00
8	25	24 Feb 2021, 20:00	25 Feb 2021, 02:00
9	31	28 Feb 2021, 08:00	28 Feb 2021, 15:30
10	23	2 Mar 2021, 12:30	2 Mar 2021, 18:00
11	25	7 Mar 2021, 06:00	7 Mar 2021, 12:00
12	31	10 Mar 2021, 00:00	10 Mar 2021, 07:30
13	41	12 Mar 2021, 07:00	12 Mar 2021, 17:00
14	21	19 Mar 2021, 08:15	19 Mar 2021, 13:15
15	39	23 Mar 2021, 23:30	24 Mar 2021, 09:00
16	53	31 Mar 2021, 21:00	1 Apr 2021, 10:00
17	25	19 May 2021, 00:00	19 May 2021, 06:00
18	16	21 May 2021, 00:45	21 May 2021, 04:30
19	26	22 May 2021, 20:30	23 May 2021, 02:45
20	17	24 May 2021, 20:00	25 May 2021, 00:00
21	11	25 May 2021, 18:00	25 May 2021, 20:30
22	17	26 May 2021, 10:00	26 May 2021, 14:00
23	21	30 May 2021, 04:30	30 May 2021, 09:30
24	9	4 Jun 2021, 16:45	4 Jun 2021, 18:45
25	23	12 Jun 2021, 19:30	13 Jun 2021, 01:00
26	23	16 Jun 2021, 12:00	16 Jun 2021, 17:30
27	25	17 Jun 2021, 23:00	18 Jun 2021, 05:00
28	17	19 Jun 2021, 19:00	19 Jun 2021, 23:00
29	33	22 Jun 2021, 03:00	22 Jun 2021, 11:00
30	19	23 Jun 2021, 02:30	23 Jun 2021, 07:00
31	17	23 Jun 2021, 18:30	23 Jun 2021, 22:45
32	25	25 Jun 2021, 00:00	25 Jun 2021, 06:00
33	22	25 Jun 2021, 18:30	25 Jun 2021, 23:45
34	14	26 Jun 2021, 16:15	26 Jun 2021, 19:30
35	23	27 Jun 2021, 09:15	27 Jun 2021, 14:45
36	30	28 Jun 2021, 14:30	28 Jun 2021, 21:45
37	37	1 Jul 2021, 23:00	2 Jul 2021, 08:00
38	18	4 Jul 2021, 15:00	4 Jul 2021, 19:15
39	38	6 Jul 2021, 22:00	7 Jul 2021, 11:00
40	37	8 Jul 2021, 20:30	9 Jul 2021, 10:00
41	27	14 Jul 2021, 10:30	14 Jul 2021, 17:00
42	37	20 Jul 2021, 05:30	20 Jul 2021, 14:30
43	35	31 Jul 2021, 18:30	1 Aug 2021, 03:00
44	42	9 Aug 2021, 01:45	9 Aug 2021, 12:00
45	38	29 Aug 2021, 15:00	30 Aug 2021, 01:00
46	27	21 Sep 2021, 07:30	21 Sep 2021, 14:00
47	30	23 Oct 2021, 08:45	23 Oct 2021, 16:00
48	34	10 Feb 2022, 19:30	11 Feb 2022, 03:45
49	24	21 Feb 2022, 11:15	21 Feb 2022, 17:00