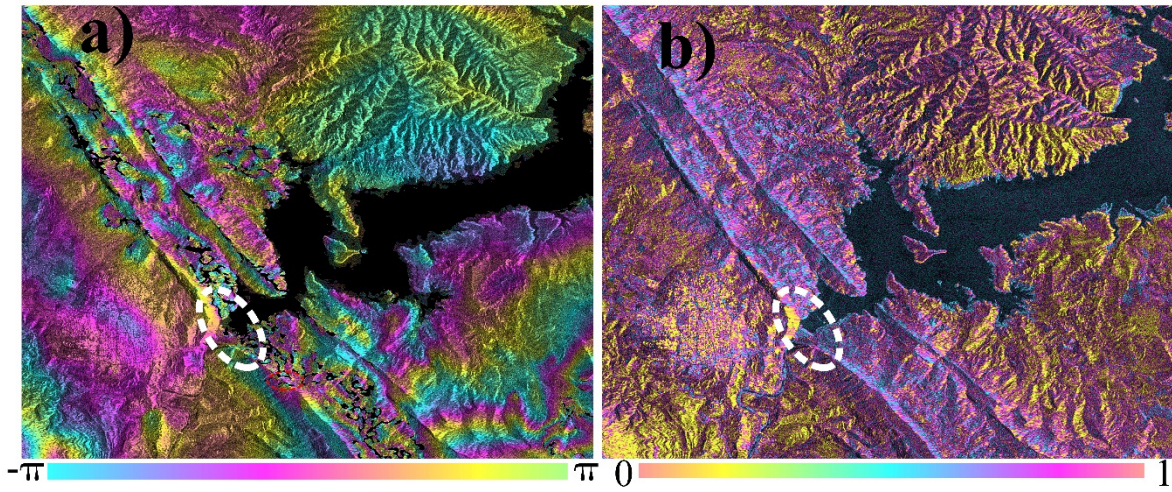
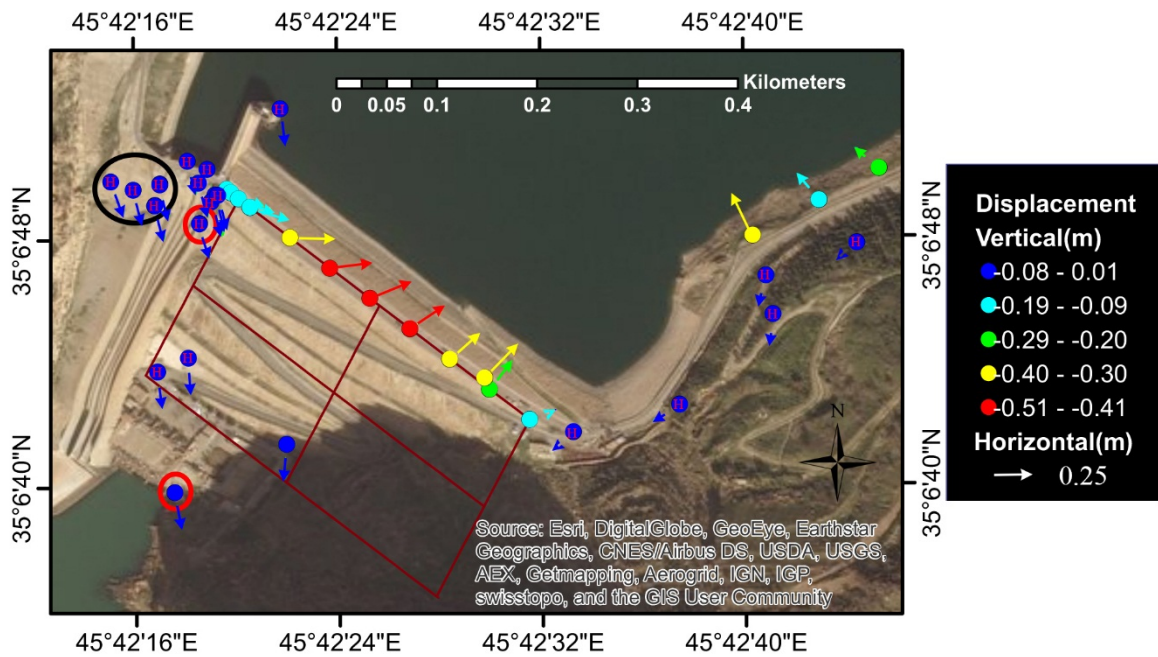


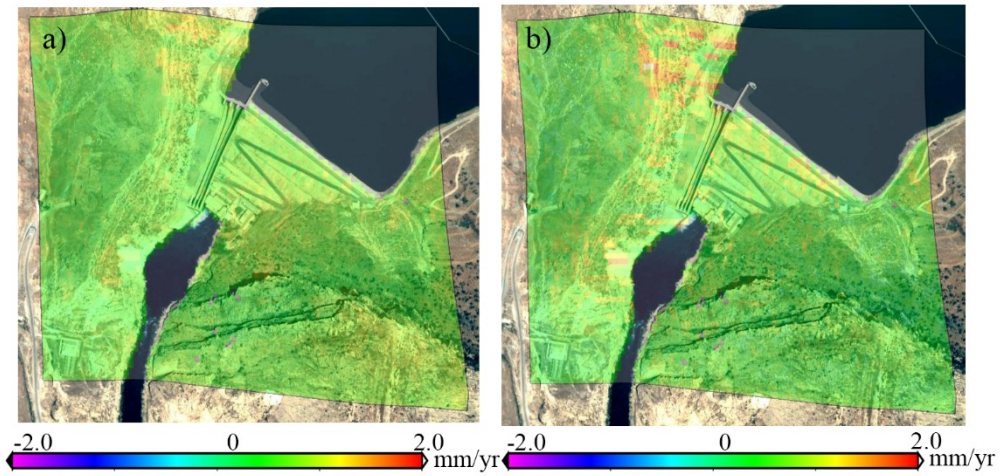
Supplementary Materials



**Figure S1.** Co-seismic interferogram (7 November 2017 – 19 November 2017): (a) Interferogram, and (b) Coherence. Derbandkhan dam is indicated with white oval.



**Figure S2.** The horizontal (indicated by arrows) and vertical (indicated by circles) displacements of the monitoring pillars on Derbandkhan dam measured by GPS and levelling. The source of the background image is from [16]. Note that (i) the horizontal displacements are referenced to ITRF08, and (ii) the pillars labelled with letter H were measured with GPS only.



**Figure S3.** The corresponding error maps of the mean linear velocity maps in Figures 4a and 4b respectively.

**Table S1.** Acquisition dates of Tracks, 6, 79, 72 and 174.

No.	Track 6	Track 79	Track 72	Track 174
1	2014-10-30	2014-11-04	2014-11-03	2014-11-10
2	2014-11-23	2014-11-28	2014-11-15	2014-12-04
3	2014-12-17	2014-12-22	2014-11-27	2014-12-28
4	2015-01-10	2015-01-15	2014-12-09	2015-01-21
5	2015-02-03	2015-02-08	2014-12-21	2015-02-14
6	2015-03-11	2015-03-16	2015-01-02	2015-03-10
7	2015-04-04	2015-04-09	2015-01-14	2015-04-03
8	2015-04-28	2015-05-03	2015-01-26	2015-04-27
9	2015-05-22	2015-05-27	2015-02-07	2015-05-21
10	2015-06-15	2015-06-20	2015-03-03	2015-06-14
11	2015-07-09	2015-07-14	2015-03-15	2015-07-08
12	2015-08-02	2015-08-07	2015-03-27	2015-08-01
13	2015-08-26	2015-08-31	2015-04-08	2015-08-25
14	2015-09-19	2015-10-18	2015-04-20	2015-09-18
15	2015-10-13	2015-11-11	2015-05-02	2015-10-12
16	2015-12-24	2015-12-05	2015-05-26	2015-11-29
17	2016-02-10	2015-12-29	2015-06-07	2015-12-23
18	2016-03-05	2016-01-22	2015-06-19	2016-02-09
19	2016-03-29	2016-02-15	2015-07-01	2016-03-04
20	2016-04-22	2016-03-10	2015-07-13	2016-03-28
21	2016-05-16	2016-04-03	2015-08-06	2016-04-21
22	2016-06-09	2016-04-27	2015-08-30	2016-05-15
23	2016-07-03	2016-05-21	2015-09-23	2016-06-08
24	2016-07-27	2016-06-14	2015-10-05	2016-07-02
25	2016-08-20	2016-07-08	2015-10-17	2016-07-14
26	2016-09-13	2016-08-01	2015-10-29	2016-07-26
27	2016-10-07	2016-08-25	2015-11-10	2016-08-07
28	2016-10-31	2016-09-18	2015-11-22	2016-08-19
29	2016-11-24	2016-10-12	2015-12-04	2016-08-31

30	2016-12-18	2016-11-05	2015-12-16	2016-09-12
31	2017-01-11	2016-11-29	2015-12-28	2016-09-24
32	2017-02-04	2016-12-23	2016-01-09	2016-09-30
33	2017-02-16	2017-01-16	2016-01-21	2016-10-06
34	2017-02-28	2017-02-21	2016-02-02	2016-10-18
35	2017-03-12	2017-03-05	2016-02-14	2016-10-30
36	2017-03-24	2017-03-17	2016-02-26	2016-11-11
37	2017-04-05	2017-03-29	2016-03-09	2016-11-23
38	2017-04-17	2017-04-10	2016-03-21	2016-12-05
39	2017-04-29	2017-04-22	2016-04-14	2016-12-17
40	2017-05-23	2017-05-04	2016-04-26	2016-12-29
41	2017-06-04	2017-05-16	2016-05-08	2017-01-10
42	2017-06-16	2017-05-28	2016-05-20	2017-01-22
43	2017-06-28	2017-06-09	2016-06-01	2017-02-03
44	2017-07-10	2017-06-21	2016-06-13	2017-02-15
45	2017-07-22	2017-07-03	2016-07-07	2017-02-27
46	2017-08-03	2017-07-15	2016-07-19	2017-03-11
47	2017-08-15	2017-07-27	2016-07-31	2017-03-23
48	2017-08-27	2017-08-08	2016-08-12	2017-04-04
49	2017-09-08	2017-08-20	2016-08-24	2017-04-16
50	2017-09-20	2017-09-01	2016-09-05	2017-04-28
51	2017-10-02	2017-09-13	2016-09-17	2017-05-10
52	2017-10-14	2017-09-25	2016-09-29	2017-05-22
53	2017-10-26	2017-10-07	2016-10-11	2017-06-03
54	2017-11-07	2017-10-19	2016-10-23	2017-06-15
55	2017-11-19	2017-10-31	2016-11-04	2017-06-27
56	2017-11-25	2017-11-12	2016-11-16	2017-07-09
57	2017-12-01	2017-11-18	2016-11-28	2017-07-21
58	2017-12-13	2017-11-24	2016-12-10	2017-08-02
59	2017-12-25	2017-11-30	2016-12-22	2017-08-14
60	2017-12-31	2017-12-06	2017-01-03	2017-08-26
61	2018-01-06	2017-12-12	2017-01-15	2017-09-07
62	2018-01-12	2017-12-18	2017-01-27	2017-09-19
63	2018-01-18	2017-12-24	2017-02-08	2017-10-13
64	2018-01-30	2017-12-30	2017-02-20	2017-10-25
65	2018-02-17	2018-01-05	2017-03-04	2017-11-06
66	2018-02-23	2018-01-11	2017-03-16	2017-11-18
67	2018-03-01	2018-01-17	2017-03-28	2017-11-24
68	2018-03-07	2018-01-23	2017-04-09	2017-11-30
69		2018-01-29	2017-04-21	2017-12-06
70		2018-02-04	2017-05-03	2017-12-12
71		2018-02-10	2017-05-15	2017-12-18
72		2018-02-16	2017-05-27	2017-12-24
73		2018-02-22	2017-06-08	2017-12-30
74		2018-02-28	2017-06-20	2018-01-05
75		2018-03-06	2017-07-02	2018-01-11
76			2017-07-14	2018-01-17
77			2017-07-26	2018-01-23
78			2017-08-07	2018-01-29
79			2017-08-19	2018-02-04
80			2017-08-31	2018-02-10

81			2017-09-12	2018-02-16
82			2017-09-24	2018-02-22
83			2017-10-06	2018-02-28
84			2017-10-18	2018-03-06
85			2017-10-30	
86			2017-11-11	
87			2017-11-17	
88			2017-11-23	
89			2017-11-29	
90			2017-12-05	
91			2017-12-11	
92			2017-12-17	
93			2017-12-23	
94			2017-12-29	
95			2018-01-04	
96			2018-01-10	
97			2018-01-16	
98			2018-01-22	
99			2018-01-28	
100			2018-02-03	
101			2018-02-09	
102			2018-02-15	
103			2018-02-21	
104			2018-02-27	
105			2018-03-05	