

Induced and triggered seismicity below the city of Strasbourg, France from November 2019 to January 2021

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Supplementary information

Network	Station	Date of commissioning
FR	ECH	1980-01-01T00:00:00
FR	STR	1980-01-01T00:00:00
FR	WLS	1980-01-01T00:00:00
FR	SZBH	1998-07-20T00:00:00
FR	OPS	2009-06-06T00:00:00
FR	BETS	2012-01-18T00:00:00
FR	19T	2014-10-15T15:16:00
FR	XAFF	2018-04-05T10:00:00
FR	CIEL	2016-09-30
FR	LEMB	2017-01-18
FR	ILLF	2017-06-08
FR	WALT	2017-06-08
FR	NEEW	2017-12-20

FR	HOHE	2018-05-31
FR	ZELS	2018-05-31
FR	VOEL	2018-06-19

Table S1: list of RLBP velocimetric stations used.

Network	Station	Date of commissioning
RA	STSF	1999-12-20T10:00:00
RA	STMU	2001-09-18T10:00:00
RA	STDM	2002-04-22T10:00:00
RA	STRO	2008-07-17T10:00:00

Table S2: list of RESIF accelerometer stations used.

Network	Station	Date of commissioning	End or interruption date
AM	R41D6	2017-07-22T08:53:44	
AM	R9197	2017-07-22T09:40:41	
AM	RFA0F	2017-07-22T10:12:14	2019-04-22T20:13:59
AM	R4B4A	2017-08-03T04:12:10	
AM	R461D	2017-09-11T10:43:17	
AM	R60B1	2017-09-11T13:10:55.	
AM	R45CC	2018-10-15T19:12:00	
AM	RC515	2019-11-15T13:47:28	2019-12-12T17:00:16
AM	REA56	2019-11-15T20:25:11	
AM	RD699	2019-11-15T23:04:59	
AM	RA08F	2020-08-25T18:29:26	
AM	R16CA	2020-10-05T20:05:38	
AM	RC367	2020-10-16T17:08:55	
AM	RAA2E	2020-12-07T08:03:39	

Table S3: Period of operation of RaspberryShake stations located in the Strasbourg Eurometropole.

Germany	Luxembourg	Switzerland
II.BFO	GE.WLF	CH.BALST
II.IBFO		CH.BOURR
LE.ABH		CH.BRANT
LE.BABA		CH.SLE
LE.ENDD		CH.SULZ
LE.FELD		CH.ZUR
LE.GUT		
LE.KIZ		
LE.KTD		
LE.OPP		
LE.VOGT		

Table S4: list of stations in neighbouring countries used to locate events north of Strasbourg.

Network	Station	SiteName / Owner	Date of commissioning	End or interruption date
FR	ECK4	Eckbolsheim (Fonroche-Géothermie)	2017-01-01T00:00:00	2019-02-28T23:59:59
FR	ECK4	Eckbolsheim (Fonroche-Géothermie)	2019-03-01T00:00:00	
FR	VDH4	Vendenheim (Fonroche-Géothermie)	2016-01-01T00:00:00	2019-02-28T23:59:59
FR	VDH4	Vendenheim (Fonroche-Géothermie)	2019-03-01T00:00:00	
FR	ILLK	Illkirch (Electricité de Strasbourg)	2015-12-11T10:53:00	

Table S5: Liste of Fonroche-Geothermie and Électricité de Strasbourg public stations, available in real time.

Network	Station	Date of commissioning
XX	STRN5	2020-11-19T00:00:00.000
XX	STRN6	2020-11-19T00:00:00.000
XX	STRN8	2020-11-19T00:00:00.000
XX	STRN9	2020-11-19T00:00:00.000

Table S6: list of EOSt autonomous velocimetric stations used.

Network	Station	Date of commissioning	End or interruption date
AM	RA7C1	2018/10/12 10:45:25	
AM	R0320	2018/12/14 08:48:45	
AM	R3774	2018/12/14 11:07:55	
AM	R4A0F	2018/12/18 15:10:39	
AM	R73A5	2018/12/19 08:55:28	
AM	R79D9	2019/01/25 10:35:24	
AM	R95E6	2019/02/06 09:24:01	
AM	R0220	2019/02/06 12:23:30	
AM	R9D74	2019/02/15 14:42:43	
AM	R9DBD	2019/02/15 15:19:55	
AM	R69C1	2020/02/29 01:05:47	
AM	RD035	2020/07/02 16:43:30	
AM	R01F3	2020/07/04 09:28:31	
AM	R2673	2020/07/07 16:03:04	
AM	RA0D3	2020/07/09 07:48:32	
AM	RDE4D	2020/07/13 09:02:21	
AM	R4977	2020/07/13 10:11:59	
AM	R6780	2020/07/17 07:52:08	
AM	RFF1D	2020/07/17 11:59:41	

AM	RA36C	2020/07/17 15:01:57	
AM	R3732	2020/07/20 09:42:32	
AM	R890B	2020/07/20 13:42:18	
AM	R8BDB	2020/07/23 12:00:13	
AM	R1869	2020/08/13 18:11:49	
AM	RDFCF	2020/09/03 11:25:07	
AM	R8101	2020/09/06 16:36:21	
AM	RF025	2020/09/18 12:19:12	
AM	R1104	2020/09/18 15:07:44	
AM	R52B5	2020/09/21 15:44:05	
AM	RF5BC	2020/10/28 06:31:11	
AM	RB442	2020/10/30 07:32:17	
AM	RFAD2	2020/11/10 19:16:58	
AM	R31D3	2020/11/21 19:43:41	
AM	RE0A7	2020/12/02 12:58:44	
AM	RAAE1	2020/12/04 13:17:33	
AM	R7B4F	2020/12/17 20:17:29	
AM	R7C0A	2020/12/18 08:51:39	

Table S7: list of stations used, part of the citizen seismology project.

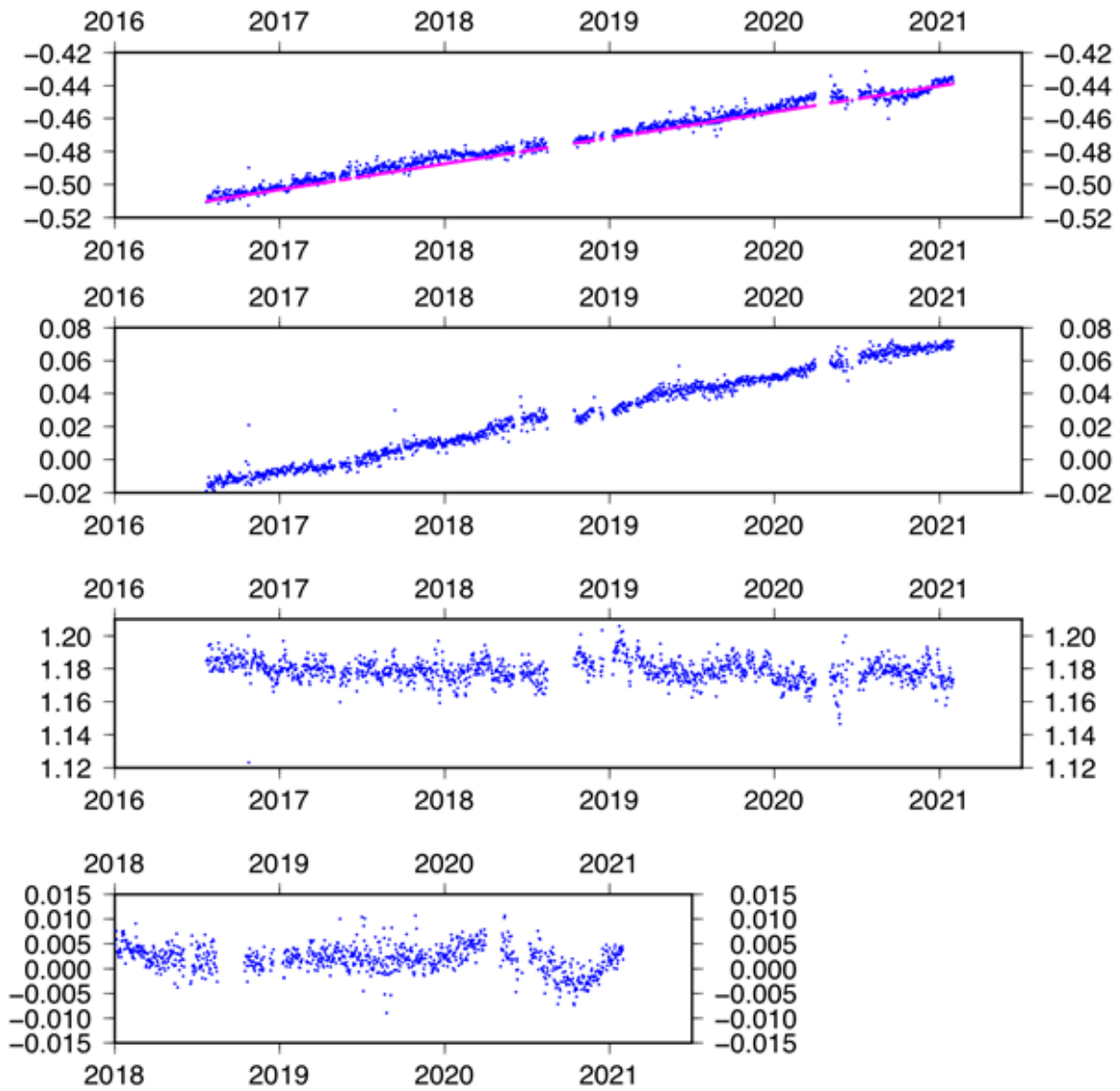


Figure S1 : North, East and Up component of the position of the REIC station located on the GEOVEN site. The pink line indicates the North movement of the Eurasian plate at this place. The figure at the bottom is the difference between the northward Eurasian movement and the movement of the site.