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Abstract:

Work at the JSO (Jordan Seismological Observatory) identified some differences in the result of seismic data analysis in most of international seismic data centers and the results of IDC products (REB and SSEB). Seismic data (origin time, Latitude, Longitude, Depth and magnitude) were compared for some events in the International Data Center products REB (Reviewed Event Bulletin) and SSEB (Standard Screened Event Bulletin) with the data for same events from other International Seismic Data Centers like: EMSC (Euro-Med Seismological Centre), GFZ (German Research Center for Geosciences), KOERI (KANDILLI Observatory and Earthquake Research Institute), JSO (Jordan Seismological Observatory), GII (Geophysical Institute of Israel) and others. It was found that there is not a big difference in the results especially in the ORIGIN TIME, LATITUDE, LONGITUDE and MAGNITUDE but there is a difference in the DEPTH. Further studies are needed to identify the reason for this cases. It may be from the analysis algorithm or from the velocity model used at the IDC, from travel time tables or from other logic reasons.



IRAQI IRANI BORDER Event, 2018-11-25							
#	Origin Time	Latitude(N)	Longitude(E)	Depth(Km)	Magnitude	Region	Network
1	16:37:32.2	34.40	45.71	10	6.2	Iran-Iraq Border	GFZ
2	16:37:31.7	34.33	45.71	10	6.3	Iran-Iraq Border	EMSC
3	16:37:30	34.330	45.710	10	6.3	Iran-Iraq Border	GII
4	16:37:44	34.7349°	45.1069	96	6.4	Iran-Iraq Border	KOERI
5	16:37:28	34.38	46.19	10	6.3	Iran-Iraq Border	JSO
6	16:37:31.430	34.3947	45.6727	9.8	6.0	Iran-Iraq Border	(IDC) CTBTO
7	16:37:31.8	34.359	45.712	10.5	6.4	Iran-Iraq Border	IRSC



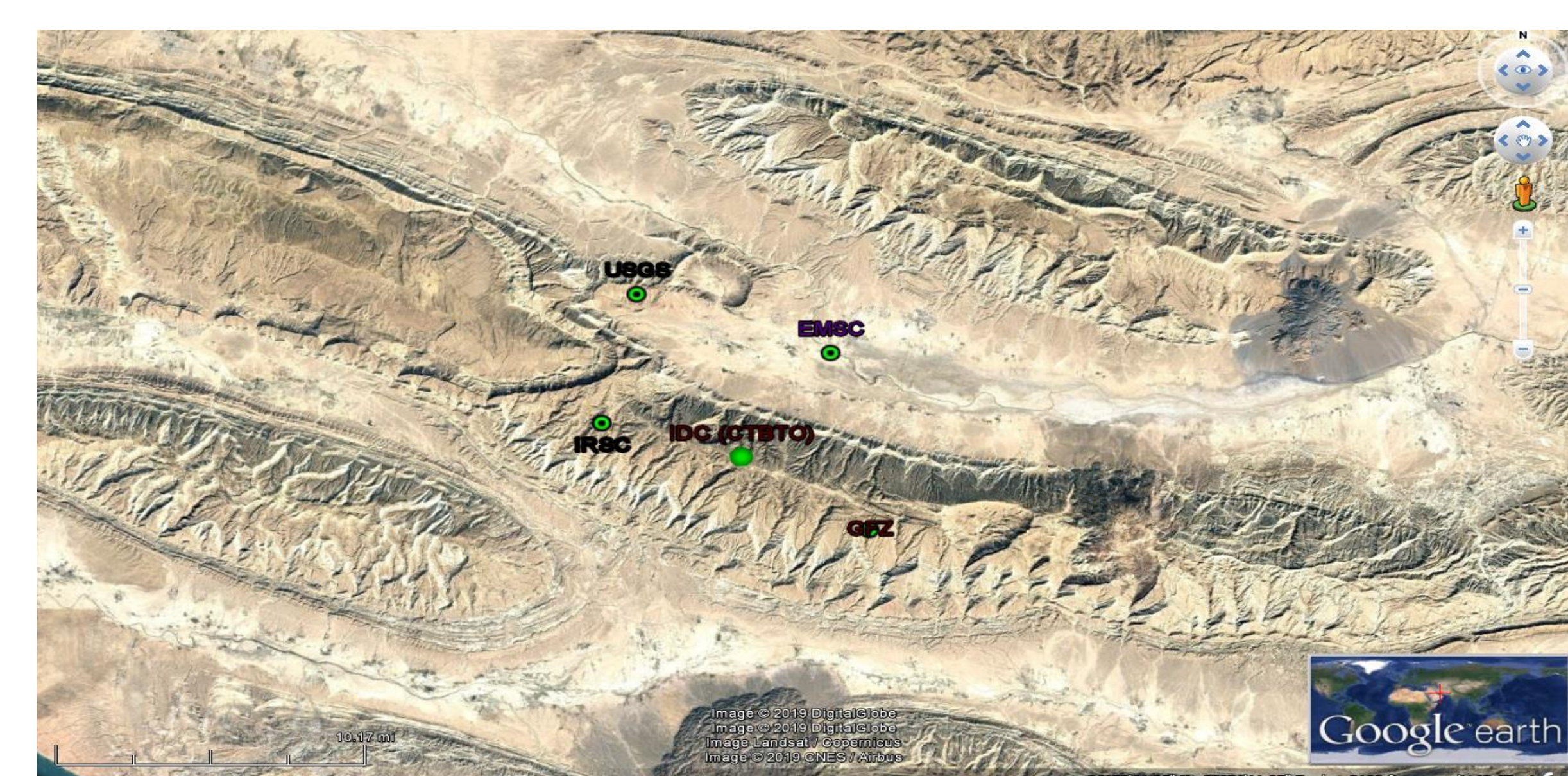
IRAQI IRANI BORDER Event, 2018-11-25							
#	Origin Time	Latitude(N)	Longitude(E)	Depth(Km)	Magnitude	Region	Network
1	17:09:36.8	34.31	45.69	10	5.3	Iran-Iraq Border	GFZ
2	17:09:36.5	34.25	45.77	10	5.2	Iran-Iraq Border	EMSC
3	17:09:40	34.3078°	45.3694	36	5.9	Iran-Iraq Border	KOERI
4	17:09:30.1	34.57	46.16	10	5.6	Iran-Iraq Border	JSO
5	17:09:33.900	34.3254	45.6824	0	5.1	Iran-Iraq Border	(IDC) CTBTO
6	17:09:36.4	34.348	45.665	7.2	5.2	Iran-Iraq Border	IRSC



IRAQI IRANI BORDER Event, 2018/12/04							
#	Origin Time	Latitude(N)	Longitude(E)	Depth(Km)	Magnitude	Region	Network
1	09:32:52	32.986	45.887	10	4.4	IRAQI IRANI BORDER	USGS
2	09:32:54.3	33.44	46.00	9	3.9	IRAQI IRANI BORDER	EMSC
3	09:32:53.050	33.4064	46.0134	0	4.4	IRAQI IRANI BORDER	CTBTO
4	09:32:54	33.46	45.96	8	3.8	IRAQI IRANI BORDER	IRSC



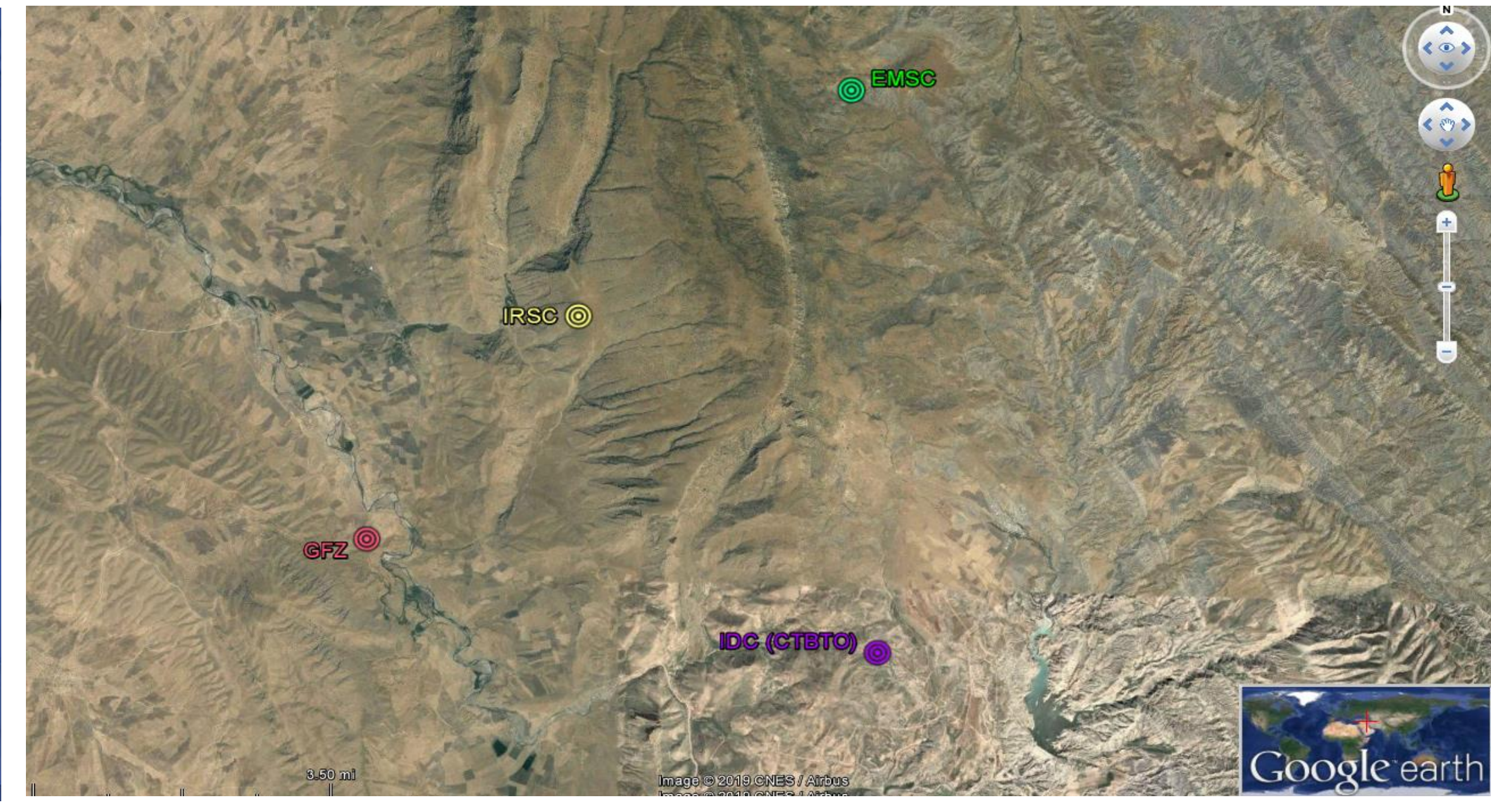
Cyprus Region Event, 2018-10-29							
#	Origin Time	Latitude(N)	Longitude(E)	Depth(Km)	Magnitude	Region	Network
1	12:09:14.6	34.40	33.46	10	4.6	Cyprus	GFZ
2	12:09:13.9	34.42	33.53	10	4.9	Cyprus	EMSC
3	12:09:14	34.423	33.579	9	4.4	Cyprus	GII
4	12:09:11	34.3580	33.5670	5.9	4.6	Cyprus	KOERI
5	12:09:13	34.40	33.46	10	4.6	Cyprus	JSO
6	12:09:23.730	34.8189	33.5315	77.3	4.0	Cyprus	(IDC) CTBTO



Iran, 2019/03/21							
#	Origin Time	Latitude(N)	Longitude(E)	Depth(Km)	Magnitude	Region	Network
1	10:03:58.8	26.95	53.98	10	4.4	Iran	GFZ
2	10:03:58.0	27.05	53.96	10	4.6	Iran	EMSC
3	10:03:57	27.01	53.84	17	4.4	Iran	IRSC
4	10:03:58	27.083	53.858	10	4.6	Iran	USGS
5	10:03:55.360	26.9907	53.9129	0	4.4	Iran	CTBTO



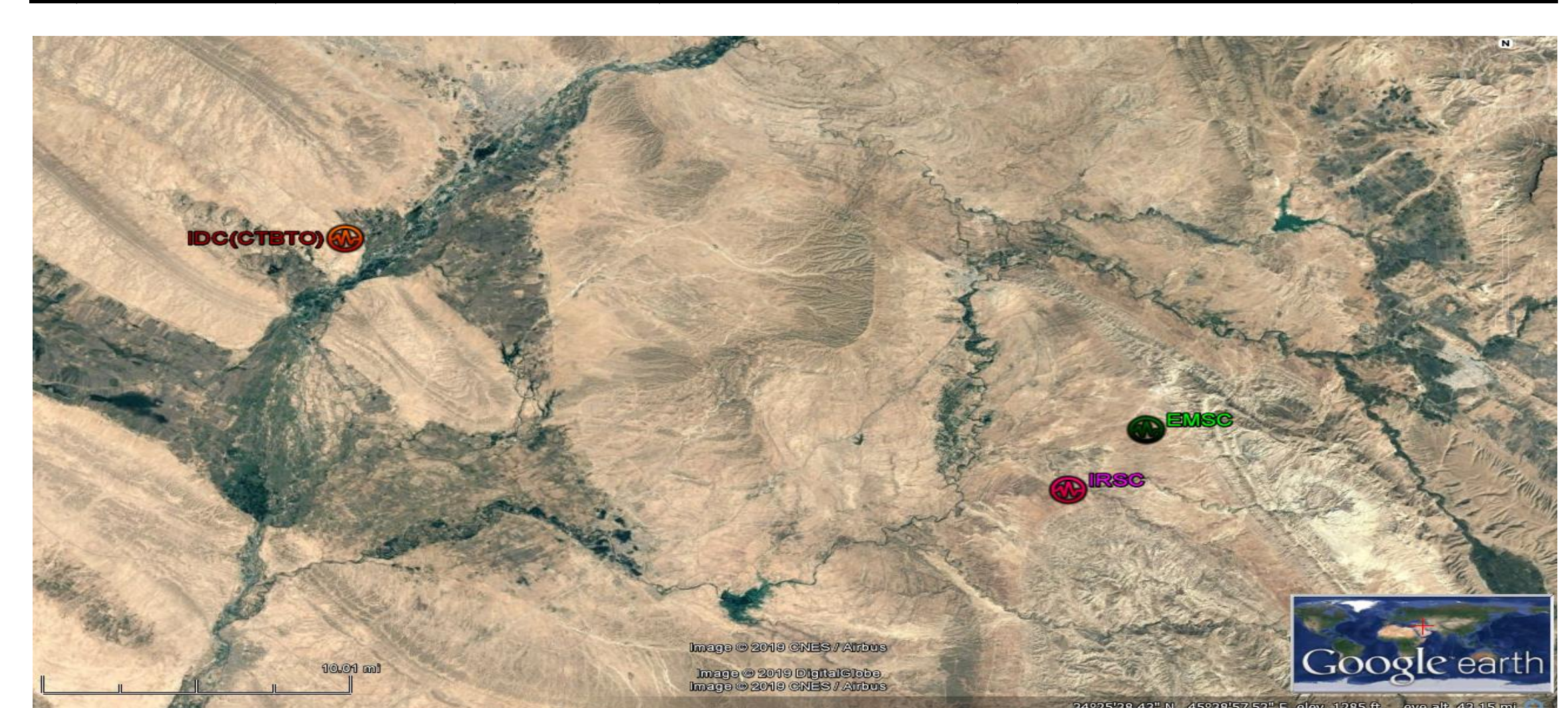
Western Iran Event, 2018-12-11							
#	Origin Time	Latitude(N)	Longitude(E)	Depth(Km)	Magnitude	Region	Network
1	08:35:27.7	31.34	48.18	10	4.5	Westren Iran	GFZ
2	08:35:27.1	31.31	48.13	10	4.3	Westren Iran	EMSC
3	08:35:27	31.262	48.159	10	4.6	Westren Iran	USGS
4	08:35:26.350	31.4935	48.2687	0.0	4.3	Westren Iran	CTBTO
5	08:35:28	31.35	48.25	19	4.3	Westren Iran	IRSC



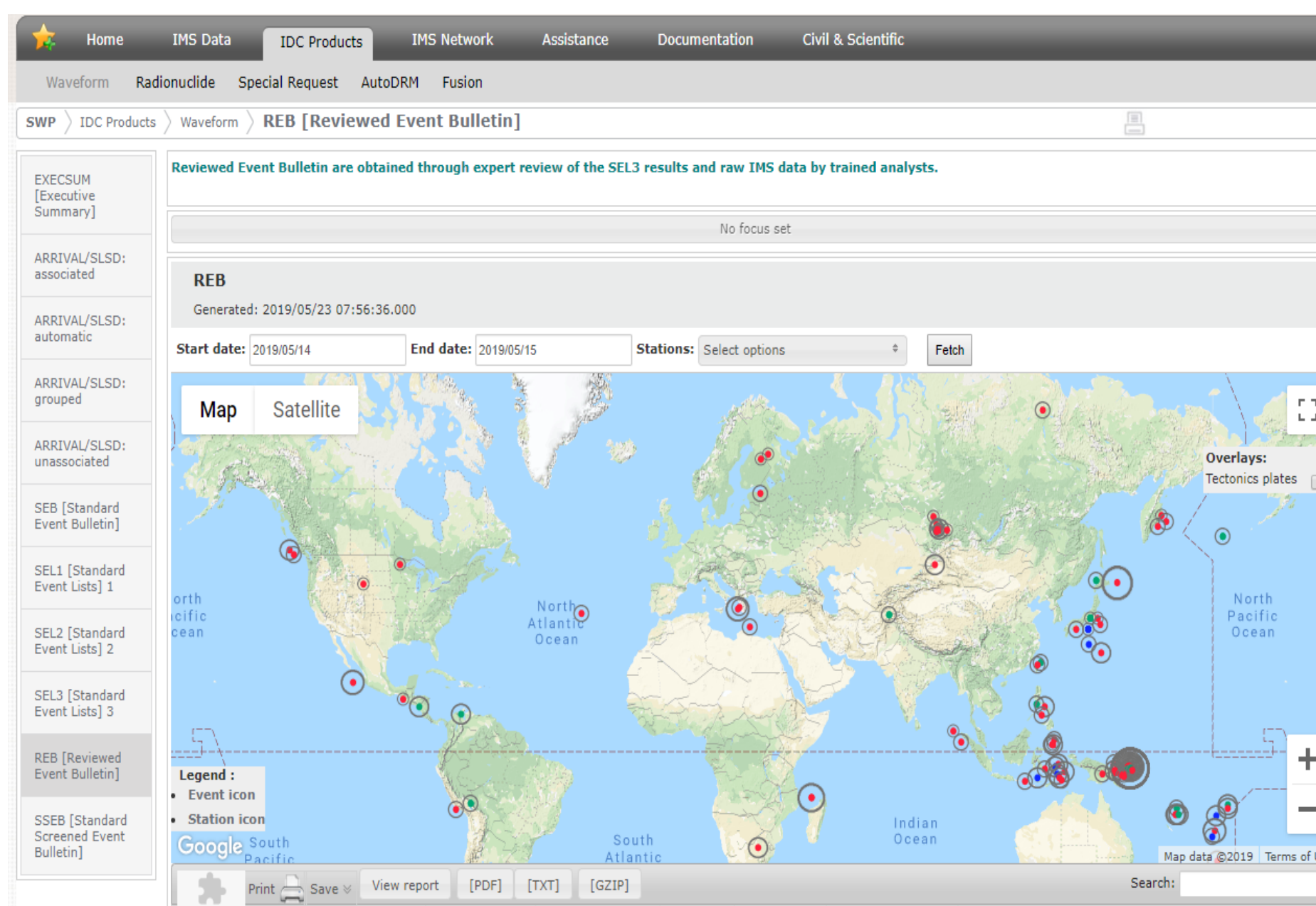
IRAN-IRAQ BORDER REGION 2019/05/11							
#	Origin Time	Latitude(N)	Longitude(E)	Depth(Km)	Magnitude	Region	Network
1	10:28:59.6	34.91	45.81	10	5.3	IRAN-IRAQ BORDER REGION	EMSC
2	10:28:59	34.83°	45.71	10	5	IRAN-IRAQ BORDER REGION	GFZ
3	10:28:57.230	34.8096	45.8155	0	4.0	IRAN-IRAQ BORDER REGION	CTBTO
4	1028 58.8	34.870	45.755	8.3	5.1	IRAN-IRAQ BORDER REGION	IRSC



Eastern Mediterranean Sea Event, 2019-05-15							
#	Origin Time	Latitude(N)	Longitude(E)	Depth(Km)	Magnitude	Region	Network
1	16:53:47.4	32.48	32.66	10	4.6	Eastern Mediterranean Sea	GFZ
2	16:53:45.9	32.65	32.56	10	4.8	Eastern Mediterranean Sea	EMSC
3	16:53:50	32.767	32.809	19	4.5	Eastern Mediterranean Sea	GII
4	16:53:48	32.8107	32.7967	23.2	4.9	Eastern Mediterranean Sea	KOERI
5	16:51:39	32.8498	32.6133	25	4.8	Eastern Mediterranean Sea	JSO
6	16:53:50.200	32.7965	32.6586	37.4	4.3	Eastern Mediterranean Sea	CTBTO



Iraq- Iran Border 2019/05/13							
#	Origin Time	Latitude(N)	Longitude(E)	Depth(Km)	Magnitude	Region	Network
1	21:42:05.6	34.41	45.68	7	3.5	IRAN-IRAQ BORDER	EMSC
2	21:42:05.590	34.5305	45.2263	0	3.9	IRAN-IRAQ BORDER	CTBTO
3	21:42:05.4	34.372	45.636	8.3	3.4	IRAN-IRAQ BORDER	IRSC



Center Code	Center Name	Website
CTBTO (IDC)	Comprehensive Nuclear Test Ban Treaty Organization /International Data Center	https://www.ctbto.org/
GFZ	German Research Center For Geosciences	http://geofon.gfz-potsdam.de/eqinfo/list.php
EMSC	European-Mediterranean Seismological Centre	https://www.emsc-csem.org/#2
KOERI	Kandilli Observatory and Earthquake Research Institute	http://www.koeri.boun.edu.tr/sismo/2/en/
GII	THE GEOPHYSICAL INSTITUTE OF ISRAEL	http://seis.gii.co.il/en/earthquake/latestEarthquakes.php
JSO	Jordan Seismological Observatory	www.memr.gov.jo
IRSC	Iranian Seismological Center	http://irsc.ut.ac.ir/
IRIS	Incorporated Research Institutions for Seismology	http://iris.iris.edu/seismon/
USGS	U.S. Geological Survey	https://earthquake.usgs.gov/earthquakes/

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