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| 50 | Primary Seismological Stations |
| 120 | Auxiliary Seismological Stations |
| 11 | Hydroacoustic Stations |
| 60 | Infrasound Stations |
| 80 | Radionuclide Stations |
| 16 | Radionuclide Laboratories |
| 337 | Total Number of Facilities |



COMPREHENSIVE NUCLEAR-TEST-BAN TREATY ORGANIZATION

International Monitoring System



The boundaries and presentation of material on this map do not imply the expression of any opinion on the part of the Comprehensive Nuclear-Test-Ban Treaty Organization (CTBTO) Preparatory Commission concerning the legal status of any country, territory, or area.

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Monitoring facilities by type and location

(as of August 2021)

PRIMARY SEISMOLOGICAL STATIONS

TOTAL: 50 STATIONS

#	State responsible & location	Latitude	Longitude	Type of station
1	Paso Flores	40.7 S	70.6 W	3-component
2	Warramunga, NT	19.9 S	134.3 E	Array
3	Alice Springs, NT	23.7 S	133.9 E	Array
4	Stephens Creek, NSW	31.9 S	141.6 E	3-component
5	Mawson, Antarctica	67.6 S	62.9 E	3-component
6	La Paz	16.3 S	68.1 W	3-component
7	Brasilia	15.6 S	48.0 W	3-component
8	Lac du Bonnet, Man.	50.2 N	95.9 W	3-component
9	Yellowknife, N.W.T.	62.5 N	114.6 W	Array
10	Schefferville, Quebec	54.8 N	66.8 W	3-component
11	Bangui	5.2 N	18.4 E	3-component
12	Hailar	49.5 N	119.8 E	Array
13	Lanzhou	36.0 N	103.7 E	Array
14	El Rosal	4.9 N	74.3 W	3-component
15	Dimbokro	6.7 N	4.9 W	3-component
16	Luxor	26.0 N	33.5 E	Array
17	Lahti	61.4 N	26.1 E	Array
18	Tahiti	17.6 S	149.6 W	3-component
19	Freyung	48.8 N	13.7 E	Array
20	TBD			
21	Tehran	35.9 N	51.1 E	3-component
22	Matsushiro	36.5 N	138.2 E	Array
23	Makanchi	46.8 N	82.3 E	Array
24	Kilimambogo	1.1 S	37.3 E	3-component
25	Songino	47.8 N	106.4 E	Array
26	Torodi	13.1 N	1.7 E	Array
27	Hamar	60.8 N	10.8 E	Array
28	Karasjok	69.5 N	25.5 E	Array
29	Pari	33.7 N	73.3 E	Array
30	Villa Florida	26.3 S	57.3 W	3-component
31	Wonju	37.5 N	127.9 E	Array
32	Khabaz	43.7 N	42.9 E	3-component
33	Zalesov	53.9 N	84.8 E	Array
34	Norilsk	69.3 N	87.6 E	3-component
35	Peleduy	59.6 N	112.6 E	Array
36	Petrovavlovsk-Kamchatskiy	53.1 N	157.7 E	Array
37	Ussuriysk	44.2 N	132.0 E	Array
38	Haleban	23.4 N	44.5 E	Array
39	Boshof	28.6 S	25.3 E	3-component
40	Sonseca	39.7 N	4.0 W	Array
41	Chiang Mai	18.5 N	98.9 E	Array
42	Kesra	35.7 N	9.3 E	3-component
43	Keskin	39.7 N	33.6 E	Array
44	Turkmenistan	37.9 N	58.1 E	Array
45	Malin	50.7 N	29.2 E	Array
46	Lajitas, TX	29.3 N	103.7 W	Array
47	Mina, NV	38.4 N	118.3 W	Array
48	Pinedale, WY	42.8 N	109.6 W	Array
49	Eielson, AK	64.8 N	146.9 W	Array
50	Vanda, Antarctica	77.5 S	161.9 E	3-component

Three-component stations are seismological stations with sensors that measure seismic motion in three orthogonal directions (one vertical and two horizontal) of the arriving seismic waves, enabling detection of the time and amplitude of arrivals from events such as earthquakes and explosions, and in many cases also an estimate of the direction to the source of the event.

Array stations consist of geometrically arranged seismic sensors. These arrays are more sensitive than individual three-component seismic stations and in particular measure the direction to the source of an event with a high accuracy.

Primary stations transmit data continuously to the International Data Centre.

AUXILIARY SEISMOLOGICAL STATIONS

TOTAL: 120 STATIONS

#	State responsible & location	Latitude	Longitude	Type of station
1	Coronel Fontana	31.6 S	68.2 W	3-component
2	Ushuaia	54.8 S	68.4 W	3-component
3	Garni	40.1 N	44.7 E	3-component
4	Charters Towers, QLD	20.1 S	146.3 E	3-component
5	Fitzroy Crossing, WA	18.1 S	125.6 E	3-component
6	Narrabin, WA	32.9 S	117.2 E	3-component
7	Barijadala, Chittagong	22.7 N	91.6 E	3-component
8	San Ignacio	16.0 S	61.1 W	3-component
9	Lobatse	25.0 S	25.6 E	3-component
10	Pitinga	0.7 S	60.0 W	3-component
11	Riachuelo	5.8 S	35.9 W	3-component
12	Igualit, NU	63.7 N	68.5 W	3-component
13	Dease Lake, B.C.	58.4 N	130.0 W	3-component
14	Sadown, Ont.	44.8 N	79.1 W	3-component
15	Bella Bella, B.C.	52.2 N	128.1 W	3-component
16	Resolute, NU	74.7 N	94.9 W	3-component
17	Inuvik, N.W.T.	68.3 N	133.5 W	3-component
18	Easter Island	27.1 S	109.3 W	3-component
19	Limon Verde	22.6 S	68.9 W	3-component
20	Baijiatuan	40.0 N	116.2 E	3-component
21	Kunming	25.1 N	102.7 E	3-component
22	Sheshan	31.1 N	121.2 E	3-component
23	Xian	34.0 N	108.9 W	3-component
24	Rarotonga	21.2 S	159.8 W	3-component
25	Las Juntas de Abangares	10.3 N	85.0 W	3-component
26	Vranov	49.3 N	16.6 E	3-component
27	Søndre Stromfjord, Greenland	67.0 N	50.6 W	3-component
28	Arta Tunnel	11.5 N	42.8 E	3-component
29	Kottamya	29.9 N	31.8 E	3-component
30	Furi	8.9 N	38.7 E	3-component
31	Monasavu, Viti Levu	17.7 S	178.1 E	3-component
32	Dzumac, New Caledonia	22.1 S	166.4 E	3-component
33	Montagne des Peres, GF	5.1 N	52.6 W	3-component
34	Masuku	1.7 S	13.6 E	3-component
35	SANAE Station, Antarctica	71.7 S	2.8 W	3-component
36	Anogia, Crete	35.3 N	24.9 E	3-component
37	El Apazote	15.0 N	90.5 W	3-component
38	Borgarnes	64.7 N	21.3 W	3-component
39	TBD			
40	Lembang, Java Barat	6.8 S	107.6 E	3-component
41	Jayapura, Irian Jaya	2.5 S	140.7 E	3-component
42	Sorong, Irian Jaya	0.9 S	131.3 E	3-component
43	Parapat, Sumatra	2.7 N	98.9 E	3-component
44	Kappang, Sulawesi Selatan	5.0 S	119.8 E	3-component
45	Baumata, Timur	10.2 S	123.7 E	3-component
46	Kerman	30.0 N	56.8 E	3-component
47	Shushtar	32.1 N	48.8 E	3-component
48	Eilath	29.7 N	35.6 E	3-component
49	Mount Meron	33.0 N	35.4 E	Array
50	Valguarnera, Sicily	37.5 N	14.4 E	3-component
51	Ohita, Kyushu	33.1 N	130.9 E	3-component
52	Kunigami, Okinawa	26.8 N	128.3 E	3-component
53	Hachijoima, Izu Islands	33.1 N	139.8 E	3-component
54	Kamikawa-ashi, Hokkaido	44.1 N	142.6 E	3-component
55	Chichijima, Ogasawara	27.1 N	142.2 E	3-component
56	Tel-Alasfar	32.2 N	36.9 E	3-component
57	Borovoye	53.0 N	70.4 E	Array
58	Kurchatov	50.7 N	78.6 E	Array
59	Aktubinsk	50.4 N	58.0 E	3-component
60	Ala-Archa	42.6 N	74.5 E	3-component
61	Ambodihratomo	18.6 S	47.2 E	3-component
62	Kowa	14.5 N	4.0 W	3-component

* Jointly administered station

AUXILIARY SEISMOLOGICAL STATIONS

TOTAL: 120 STATIONS

#	State responsible & location	Latitude	Longitude	Type of station
1	Tepeh, Quintana Roo	20.4 N	88.5 W	3-component
2	Colonia Cuauhtémoc	17.1 N	94.9 W	3-component
3	Matías Romero, Oaxaca	24.1 N	110.3 W	3-component
4	Barloche	41.1 S	71.2 W	
5	Midelt	32.8 N	4.6 W	3-component
6	Tsumeb	19.2 S	17.6 E	3-component
7	Everest	28.0 N	86.8 E	3-component
8	Rata Peaks, South Island	43.7 S	171.1 E	3-component
9	Raoul Island	29.3 S	177.9 W	3-component
10	Urewera, North Island	38.3 S	177.1 E	3-component
11	Spitsbergen	78.2 N	16.4 E	Array
12	Jan Mayen	71.0 N	8.5 W	3-component
13	Edea *			
14	Sidney	48.7 N	123.5 W	
15	Resolute, NU	74.7 N	95.0 W	
16	Yellowknife, N.W.T.*	62.5 N	114.5 W	
17	St. John's N.L.*	47.6 N	52.7 W	
18	Punta Arenas	53.1 S	70.9 W	
19	Hanga Roa, Easter Island *	27.1 S	109.3 W	
20	Beijing *	40.0 N	116.4 E	
21	Lanzhou	36.0 N	104.0 E	
22	Guangzhou *	23.1 N	113.3 E</td	