

IV. ATTIVITÀ DI RILIEVO PREVISTE NEL 2017

Le attività dell'Ufficio dell'Autorità Nazionale previste per il 2017 sono legate alla partecipazione alle riunioni e ai workshop della Commissione Preparatoria della CTBTO, ed in particolare:

- Gruppo di Lavoro A
 - 51^ Sessione 29-31 maggio 2017
 - 52^ Sessione 23-25 ottobre 2017
- Gruppo di Lavoro B
 - 48^ Sessione 20 febbraio - 3 marzo 2017
 - 49^ Sessione 21-31 agosto 2017
- Commissione Preparatoria
 - 48^ Sessione 22-23 giugno 2017
 - 49^ Sessione 13-15 novembre 2017
- *Workshop for Radionuclide Laboratories (Austria, 3-7 aprile 2017)*
- *Capacity Building: NDC Waveform Analyst Training Course (Vienna, 13 marzo-17 aprile)*
- *Technical Meeting on Seismic, Hydroacoustic, Infrasound (SHI) Software Engineering (Vienna, 20-21 aprile 2017)*
- *Science and Technology Conference (Vienna, 26 – 30 giugno 2017)*

La conferenza è la sesta della serie “*Science and Technology Conferences*” ideata per rafforzare la collaborazione fra le diverse comunità scientifiche e la Commissione Preparatoria della CTBTO. L'edizione 2017 sarà dedicata a cinque aree tematiche: la geosfera e i suoi meccanismi, gli eventi e i siti nucleari, lo sviluppo di nuovi sensori, reti e metodologie, l'ingegnerizzazione dei sistemi di misura ed il monitoraggio delle esplosioni nucleari nel contesto economico-socio-politico. ENEA parteciperà con quattro lavori tematici sulle OSI e sul monitoraggio dello xeno radioattivo.
- *Technical Meeting on the IDC Validation and Acceptance Test Plan (Vienna, 3-4 luglio 2017)*

V. CONCLUSIONI

Nel corso del 2016 si sono conseguiti avanzamenti nell'universalizzazione del CTBT, nonostante il Trattato non sia ancora entrato in vigore a 20 anni dall'apertura alla firma. Si registrano con soddisfazione, infatti, le ratifiche da parte della Repubblica dell'Unione del Myanmar e del Regno dello Swaziland, che portano così a **166** il numero degli Stati Parte, a fronte di 183 firme. Tuttavia, non si sono avuti progressi per quanto concerne l'adesione degli Stati con capacità nucleari avanzate, elencati nell'Annesso II (India, Pakistan, Cina, Corea del Nord, Egitto, Iran, Israele e Stati Uniti), **la cui ratifica è necessaria per l'entrata in vigore del Trattato.**

Nel 2016, con l'obiettivo di dare un ulteriore impulso all'universalizzazione del CTBT, si sono tenuti due importanti incontri: la riunione del Gruppo di personalità eminenti (GEM) impegnate nell'azione di sensibilizzazione della comunità internazionale a sostegno del Trattato (13-14 giugno) e la VIII riunione ministeriale per l'entrata in vigore del Trattato organizzata dal Gruppo "*Friends of the CTBT*", che si è tenuta il 21 settembre a margine dell'Assemblea Generale delle Nazioni Unite.

Inoltre, si sono raggiunti alcuni importanti risultati in seno alle Nazioni Unite. Fra questi l'adozione, il 23 settembre scorso, con 14 voti a favore e un astenuto (Egitto), della **Risoluzione 2310**, promossa da parte statunitense e volta a contribuire al rafforzamento del processo per l'entrata in vigore del CTBT. Il documento è stato co-sponsorizzato da circa 40 Paesi e dalla maggior parte dei Membri dell'Unione Europea, Italia inclusa. Un ulteriore risultato è rappresentato dall'adozione, con voto quasi unanime, della **Risoluzione 71/86 sul CTBT** approvata da 183 Stati dell'Assemblea Generale delle Nazioni Unite. Soltanto un Paese ha votato contro (Corea del Nord), mentre tre si sono astenuti (India, Mauritius e Siria). La Risoluzione accoglie con soddisfazione la ratifica del CTBT da parte dell'Unione del Myanmar e del Regno dello Swaziland ed esorta tutti gli Stati che non hanno ancora firmato il Trattato, in particolare quelli la cui ratifica è necessaria per la sua entrata in vigore (Stati dell'Annesso II), a firmare e a ratificare al più presto. La Risoluzione condanna, inoltre, i test nucleari condotti dalla Corea del Nord il 6 gennaio e il 9 settembre 2016.

Nonostante tali progressi, resta ancora molto lavoro da fare. I **test nordcoreani** dimostrano la necessità di conseguire un bando effettivo degli esperimenti nucleari. In tale ambito, l'Italia ha sostenuto pienamente le condanne dei test da parte del Consiglio di Sicurezza delle Nazioni Unite e della Comunità internazionale e segue con grande attenzione gli sviluppi nella penisola coreana, in stretto raccordo con i partner. L'Italia ha pertanto accolto con favore l'adozione delle Risoluzioni 2270 e 2231 (2016), con le quali il Consiglio di Sicurezza delle Nazioni Unite ha irrobustito il regime sanzionatorio nei confronti della Corea del Nord.

L'entrata in vigore del Trattato costituisce una delle priorità della politica italiana in materia di disarmo e non proliferazione nucleare, come dimostrato dalla partecipazione attiva del nostro Paese alle iniziative dirette a promuovere l'universalizzazione del CTBT. L'Italia è stata il settimo contribuente al bilancio ordinario del Segretariato Tecnico Provvisorio della Commissione Preparatoria (gli importi versati nel 2016 sono indicati nella sezione III.B.1) e partecipa al Sistema Internazionale di Monitoraggio attraverso la stazione sismologica di Enna dell'Istituto Nazionale di Geofisica e Vulcanologia. Nel 2016, il laboratorio per la rilevazione dei radionuclidi dell'Istituto Superiore per la Protezione e la Ricerca Ambientale, la seconda struttura nazionale prevista dal Trattato, ha conseguito la certificazione da parte del Segretariato Tecnico Provvisorio, rafforzando così il regime di verifica del CTBT.

È importante evidenziare, infine, come la messa a disposizione della stazione sismologica di Cludinico (Udine) come *Cooperating National Facility* (ex Art. IV del CTBT) costituisca la prima proposta formale in tal senso da parte di uno Stato che ha sottoscritto il Trattato. Ciò

consente al Sistema Internazionale di Monitoraggio di estendere la sua base di rilevamento ed analisi dati e all'Istituto di Oceanografia e Geofisica Sperimentale-OGS, che gestisce la stazione, di cooperare con una rete globale di strutture equivalenti, con risvolti scientifici e positivi per le attività di ricerca dell'Istituto. Tale cooperazione rappresenta inoltre un importante segnale politico proprio nell'anno in cui è caduto il ventennale dall'apertura alla firma del CTBT.

ALLEGATI

ALLEGATO A

IL SISTEMA DI MONITORAGGIO INTERNAZIONALE

State	Location	Type	Treaty Code
<u>Argentina</u>	Paso Flores PLCA	Primary Seismic Station	PS01
<u>Argentina</u>	Coronel Fontana CFA	Auxiliary Seismic Station	AS001
<u>Argentina</u>	Ushuaia USHA	Auxiliary Seismic Station	AS002
<u>Argentina</u>	Buenos Aires	Radionuclide Station	RN01
<u>Argentina</u>	Salta	Radionuclide Station	RN02
<u>Argentina</u>	Bariloche	Radionuclide Station	RN03
<u>Argentina</u>	National Board of Nuclear Regulation Buenos Aires	Radionuclide Laboratory	RL01
<u>Argentina</u>	Paso Flores	Infrasound Station	IS01
<u>Argentina</u>	Ushuaia	Infrasound Station	IS02
<u>Armenia</u>	Garni GNI	Auxiliary Seismic Station	AS003
<u>Australia</u>	Warramunga, NT WRA	Primary Seismic Station	PS02
<u>Australia</u>	Alice Springs, NT ASAR	Primary Seismic Station	PS03
<u>Australia</u>	Stephens Creek, SA STKA	Primary Seismic Station	PS04
<u>Australia</u>	Mawson, Antarctica MAW	Primary Seismic Station	PS05
<u>Australia</u>	Charters Towers, QLD CTA	Auxiliary Seismic Station	AS004
<u>Australia</u>	Fitzroy Crossing, WA FITZ	Auxiliary Seismic Station	AS005
<u>Australia</u>	Narrogin, WA NWAO	Auxiliary Seismic Station	AS006
<u>Australia</u>	Melbourne, VIC	Radionuclide Station	RN04
<u>Australia</u>	Mawson, Antarctica	Radionuclide Station	RN05
<u>Australia</u>	Townsville, QLD	Radionuclide Station	RN06
<u>Australia</u>	Macquarie Island	Radionuclide Station	RN07
<u>Australia</u>	Cocos Islands	Radionuclide Station	RN08
<u>Australia</u>	Darwin, NT	Radionuclide Station	RN09
<u>Australia</u>	Perth, WA	Radionuclide Station	RN10
<u>Australia</u>	Australian Radiation Laboratory Melbourne, VIC	Radionuclide Laboratory	RL02
<u>Australia</u>	Cape Leeuwin, WA	Hydroacoustic Station	HA01
<u>Australia</u>	Davis Base, Antarctica	Infrasound Station	IS03
<u>Australia</u>	Narrogin, WA	Infrasound Station	IS04
<u>Australia</u>	Hobart, TAS	Infrasound Station	IS05
<u>Australia</u>	Cocos Islands	Infrasound Station	IS06
<u>Australia</u>	Warramunga, NT	Infrasound Station	IS07
<u>Austria</u>	Austrian Research Centre Seibersdorf	Radionuclide Laboratory	RL03
<u>Bangladesh</u>	Chittagong CHT	Auxiliary Seismic Station	AS007
<u>Bolivia</u>	La Paz LPAZ	Primary Seismic Station	PS06
<u>Bolivia</u>	San Ignacio SIV	Auxiliary Seismic Station	AS008

<u>Bolivia</u>	La Paz	Infrasound Station	IS08
<u>Botswana</u>	Lobatse LBTB	Auxiliary Seismic Station	AS009
<u>Brazil</u>	Brasilia BDFB	Primary Seismic Station	PS07
<u>Brazil</u>	Pitinga PTGA	Auxiliary Seismic Station	AS010
<u>Brazil</u>	Rio Grande do Norte RGNB	Auxiliary Seismic Station	AS011
<u>Brazil</u>	Rio de Janeiro	Radionuclide Station	RN11
<u>Brazil</u>	Recife	RadionuclidStation	RN12
<u>Brazil</u>	Institute of Radiation Protection and Dosimetry Rio de Janeiro	Radionuclide Laboratory	RL04
<u>Brazil</u>	Brasilia	Infrasound Station	IS09
<u>Cameroon</u>	Douala	Radionuclide Station	RN13
<u>Canada</u>	Lac du Bonnet, Man. ULMC	Primary Seismic Station	PS08
<u>Canada</u>	Yellowknife, N.W.T. YKAC	Primary Seismic Station	PS09
<u>Canada</u>	Schefferville, Quebec SCH	Primary Seismic Station	PS10
<u>Canada</u>	Iqaluit, N.W.T. FRB	Auxiliary Seismic Station	AS012
<u>Canada</u>	Dease Lake, B.C. DLBC	Auxiliary Seismic Station	AS013
<u>Canada</u>	Sadowa, Ont. SADO	Auxiliary Seismic Station	AS014
<u>Canada</u>	Bella Bella, B.C. BBB	Auxiliary Seismic Station	AS015
<u>Canada</u>	Mould Bay, N.W.T. MBC	Auxiliary Seismic Station	AS016
<u>Canada</u>	Inuvik, N.W.T. INK	Auxiliary Seismic Station	AS017
<u>Canada</u>	Vancouver, B.C.	Radionuclide Station	RN14
<u>Canada</u>	Resolute, N.W.T.	Radionuclide Station	RN15
<u>Canada</u>	Yellowknife, N.W.T.	Radionuclide Station	RN16
<u>Canada</u>	St. John's N.L.	Radionuclide Station	RN17
<u>Canada</u>	Health Canada Ottawa, Ont	Radionuclide Laboratory	RL05
<u>Canada</u>	Queen Charlotte Islands, B.C.	Hydroacoustic Station	HA02
<u>Canada</u>	Lac du Bonnet, Man.	Infrasound Station	IS10
<u>Cape Verde</u>	Cape Verde Islands	Infrasound Station	IS11
<u>Central African Republic</u>	Bangui BGCA	Primary Seismic Station	PS11
<u>Central African Republic</u>	Bangui	Infrasound Station	IS12
<u>Chile</u>	Easter Island RPN	Auxiliary Seismic Station	AS018
<u>Chile</u>	Limon Verde LVC	Auxiliary Seismic Station	AS019
<u>Chile</u>	Punta Arenas	Radionuclide Station	RN18
<u>Chile</u>	Hanga Roa, Easter Island	Radionuclide Station	RN19
<u>Chile</u>	Juan Fernandez Island	Hydroacoustic Station	HA03
<u>Chile</u>	Easter Island	Infrasound Station	IS13
<u>Chile</u>	Juan Fernandez Island	Infrasound Station	IS14
<u>China</u>	Hailar HAI	Primary Seismic Station	PS12
<u>China</u>	Lanzhou LZH	Primary Seismic Station	PS13
<u>China</u>	Baijiatuan BJT	Auxiliary Seismic Station	AS020
<u>China</u>	Kunming KMI	Auxiliary Seismic Station	AS021

<u>China</u>	Sheshan SSE	Auxiliary Seismic Station	AS022
<u>China</u>	Xi'an XAN	Auxiliary Seismic Station	AS023
<u>China</u>	Beijing	Radionuclide Station	RN20
<u>China</u>	Lanzhou	Radionuclide Station	RN21
<u>China</u>	Guangzhou	Radionuclide Station	RN22
<u>China</u>	Beijing	Radionuclide Laboratory	RL06
<u>China</u>	Beijing	Infrasound Station	IS15
<u>China</u>	Kunming	Infrasound Station	IS16
<u>Colombia</u>	El Rosal XSA	Primary Seismic Station	PS14
<u>Cook Islands</u>	Rarotonga RAR	Auxiliary Seismic Station	AS024
<u>Cook Islands</u>	Rarotonga	Radionuclide Station	RN23
<u>Costa Rica</u>	Las Juntas de Abangares JTS	Auxiliary Seismic Station	AS025
<u>Cote d'Ivoire</u>	Dimbroko DBIC	Primary Seismic Station	PS15
<u>Cote d'Ivoire</u>	Dimbokro	Infrasound Station	IS17
<u>Czech Republic</u>	Vranov VRAC	Auxiliary Seismic Station	AS026
<u>Denmark</u>	Sondre Stromfjord, Greenland SFJ	Auxiliary Seismic Station	AS027
<u>Denmark</u>	Dundas, Greenland	Infrasound Station	IS18
<u>Djibouti</u>	Arta Tunnel ATD	Auxiliary Seismic Station	AS028
<u>Djibouti</u>	Djibouti	Infrasound Station	IS19
<u>Ecuador</u>	Isla San Cristobal, Galapagos Islands	Radionuclide Station	RN24
<u>Ecuador</u>	Galapagos Islands	Infrasound Station	IS20
<u>Egypt</u>	Luxor LXEG	Primary Seismic Station	PS16
<u>Egypt</u>	Kottamya KEG	Auxiliary Seismic Station	AS029
<u>Ethiopia</u>	Furi FURI	Auxiliary Seismic Station	AS030
<u>Ethiopia</u>	Filtu	Radionuclide Station	RN25
<u>Fiji</u>	Monasavu, Viti Levu MSVF	Auxiliary Seismic Station	AS031
<u>Fiji</u>	Nadi	Radionuclide Station	RN26
<u>Finland</u>	Lahti FINES	Primary Seismic Station	PS17
<u>Finland</u>	Centre for Radiation and Nuclear Safety Helsinki	Radionuclide Laboratory	RL07
<u>France</u>	Tahiti PPT	Primary Seismic Station	PS18
<u>France</u>	Port Laguerre, New Caledonia NOUC	Auxiliary Seismic Station	AS032
<u>France</u>	Kourou, French Guiana KOG	Auxiliary Seismic Station	AS033
<u>France</u>	Papeete, Tahiti	Radionuclide Station	RN27
<u>France</u>	Pointe-a-Pitre, Guadeloupe	Radionuclide Station	RN28
<u>France</u>	Reunion	Radionuclide Station	RN29
<u>France</u>	Port-aux-Francais, Kerguelen	Radionuclide Station	RN30
<u>France</u>	Cayenne, French Guiana	Radionuclide Station	RN31
<u>France</u>	Dumont d'Urville, Antartica	Radionuclide Station	RN32
<u>France</u>	Atomic Energy Commission Montlhery	Radionuclide Laboratory	RL08

<u>France</u>	Crozet Islands	Hydroacoustic Station	HA04
<u>France</u>	Guadeloupe	Hydroacoustic Station	HA05
<u>France</u>	Marquesas Islands	Infrasound Station	IS21
<u>France</u>	Port LaGuerre, New Caledonia	Infrasound Station	IS22
<u>France</u>	Kerguelen	Infrasound Station	IS23
<u>France</u>	Tahiti	Infrasound Station	IS24
<u>France</u>	Kourou, French Guiana	Infrasound Station	IS25
<u>Gabon</u>	Bambay BAMB	Auxiliary Seismic Station	AS034
<u>Germany</u>	Freyung GEC2	Primary Seismic Station	PS19
<u>Germany</u>	Schauinsland/Freiburg	Radionuclide Station	RN33
<u>Germany</u>	Freyung	Infrasound Station	IS26
<u>Germany</u>	Georg von Neumayer, Antarctica	Infrasound Station	IS27
<u>Germany/South Africa</u>	SANAE Station, Antarctica SNAA	Auxiliary Seismic Station	AS035
<u>Greece</u>	Anogia, Crete IDI	Auxiliary Seismic Station	AS036
<u>Guatemala</u>	Rabir RDG	Auxiliary Seismic Station	AS037
<u>Iceland</u>	Borgarnes BORG	Auxiliary Seismic Station	AS038
<u>Iceland</u>	Reykjavik	Radionuclide Station	RN34
<u>Indonesia</u>	Cibinong, Jawa Barat PACI	Auxiliary Seismic Station	AS040
<u>Indonesia</u>	Jayapura, Irian Jaya JAY	Auxiliary Seismic Station	AS041
<u>Indonesia</u>	Sorong, Irian Jaya SWI	Auxiliary Seismic Station	AS042
<u>Indonesia</u>	Parapat, Sumatera PSI	Auxiliary Seismic Station	AS043
<u>Indonesia</u>	Kappang, Sulawesi Selatan KAPI	Auxiliary Seismic Station	AS044
<u>Indonesia</u>	Kupang, Nusatenggara Timur KUG	Auxiliary Seismic Station	AS045
<u>Iran</u>	Tehran THR	Primary Seismic Station	PS21
<u>Iran</u>	Kerman KRM	Auxiliary Seismic Station	AS046
<u>Iran</u>	Masjed-e-Soleyman MSN	Auxiliary Seismic Station	AS047
<u>Iran</u>	Tehran	Radionuclide Station	RN36
<u>Iran</u>	Tehran	Infrasound Station	IS29
<u>Israel</u>	Eilath MBH	Auxiliary Seismic Station	AS048
<u>Israel</u>	Parod PARD	Auxiliary Seismic Station	AS049
<u>Israel</u>	Soreq Nuclear Research Centre Yavne	Radionuclide Laboratory	RL09
<u>Italy</u>	Enna, Sicily ENAS	Auxiliary Seismic Station	AS050
<u>Italy</u>	Laboratory of the National Agency for the Protection of the Environment Rome	Radionuclide Laboratory	RL10
<u>Japan</u>	Matsushiro MJAR	Primary Seismic Station	PS22
<u>Japan</u>	Ohita, Kyushu JNU	Auxiliary Seismic Station	AS051
<u>Japan</u>	Kunigami, Okinawa JOW	Auxiliary Seismic Station	AS052
<u>Japan</u>	Hachijojima, Izu Islands JHJ	Auxiliary Seismic Station	AS053

<u>Japan</u>	Kamikawa-asahi, Hokkaido JKA	Auxiliary Seismic Station	AS054
<u>Japan</u>	Chichijima, Ogasawara JCJ	Auxiliary Seismic Station	AS055
<u>Japan</u>	Okinawa	Radionuclide Station	RN37
<u>Japan</u>	Takasaki, Gunma	Radionuclide Station	RN38
<u>Japan</u>	Japan Atomic Energy Research Institute Tokai, Ibaraki	Radionuclide Laboratory	RL11
<u>Japan</u>	Tsukuba	Infrasound Station	IS30
<u>Jordan</u>	Ashqof	Auxiliary Station	AS056
<u>Kazakhstan</u>	Makanchi MAK	Primary Seismic Station	PS23
<u>Kazakhstan</u>	Borovoye BRVK	Auxiliary Seismic Station	AS057
<u>Kazakhstan</u>	Kurchatov KURK	Auxiliary Seismic Station	AS058
<u>Kazakhstan</u>	Aktyubinsk AKTO	Auxiliary Seismic Station	AS059
<u>Kazakhstan</u>	Aktyubinsk	Infrasound Station	IS31
<u>Kenya</u>	Kilimambogo KMBO	Primary Seismic Station	PS24
<u>Kenya</u>	Kilimambogo	Infrasound Station	IS32
<u>Kiribati</u>	Kiritimati	Radionuclide Station	RN39
<u>Kuwait</u>	Kuwait City	Radionuclide Station	RN40
<u>Kyrgyzstan</u>	Ala-Archa AAK	Auxiliary Seismic Station	AS060
<u>Libyan Arab Jamahiriya</u>	Misratah	Radionuclide Station	RN41
<u>Madagascar</u>	Antananarivo TAN	Auxiliary Seismic Station	AS061
<u>Madagascar</u>	Antananarivo	Infrasound Station	IS33
<u>Malaysia</u>	Kuala Lumpur	Radionuclide Station	RN42
<u>Mali</u>	Kowa KOWA	Auxiliary Seismic Station	AS062
<u>Mauritania</u>	Nouakchott	Radionuclide Station	RN43
<u>Mexico</u>	Tepich, Yucatan TEYM	Auxiliary Seismic Station	AS063
<u>Mexico</u>	Tuzandepeti, Veracruz TUVM	Auxiliary Seismic Station	AS064
<u>Mexico</u>	La Paz, Baja California Sur LPBM	Auxiliary Seismic Station	AS065
<u>Mexico</u>	Baja California	Radionuclide Station	RN44
<u>Mexico</u>	Clarion Island	Hydroacoustic Station	HA06
<u>Mongolia</u>	Javhlant JAVM	Primary Seismic Station	PS25
<u>Mongolia</u>	Ulaanbaatar	Radionuclide Station	RN45
<u>Mongolia</u>	Javhlant	Infrasound Station	IS34
<u>Morocco</u>	Midelt MDT	Auxiliary Seismic Station	AS066
<u>Namibia</u>	Tsumed TSUM	Auxiliary Seismic Station	AS067
<u>Namibia</u>	Tsumeb	Infrasound Station	IS35
<u>Nepal</u>	Everest EVN	Auxiliary Seismic Station	AS068
<u>New Zealand</u>	Erewhon, South Island EWZ	Auxiliary Seismic Station	AS069
<u>New Zealand</u>	Raoul Island RAO	Auxiliary Seismic Station	AS070
<u>New Zealand</u>	Urewera, North Island URZ	Auxiliary Seismic Station	AS071
<u>New Zealand</u>	Chatham Island	Radionuclide Station	RN46

<u>New Zealand</u>	Kaitaia	Radionuclide Station	RN47
<u>New Zealand</u>	National Radiation Laboratory Christchurch	Radionuclide Laboratory	RL12
<u>New Zealand</u>	Chatham Island	Infrasound Station	IS36
<u>Niger</u>	New Site	Primary Seismic Station	PS26
<u>Niger</u>	Bilma	Radionuclide Station	RN48
<u>Norway</u>	Hamar NAO	Primary Seismic Station	PS27
<u>Norway</u>	Karasjok ARAO	Primary Seismic Station	PS28
<u>Norway</u>	Spitsbergen SPITS	Auxiliary Seismic Station	AS072
<u>Norway</u>	Jan Mayen JMI	Auxiliary Seismic Station	AS073
<u>Norway</u>	Spitsbergen	Radionuclide Station	RN49
<u>Norway</u>	Karasjok	Infrasound Station	IS37
<u>Oman</u>	Wadi Sarin WSAR	Auxiliary Seismic Station	AS074
<u>Pakistan</u>	Pari PRPK	Primary Seismic Station	PS29
<u>Pakistan</u>	Rahimyar Khan	Infrasound Station	IS38
<u>Palau</u>	Palau	Infrasound Station	IS39
<u>Panama</u>	Panama City	Radionuclide Station	RN50
<u>Papua New Guinea</u>	Port Moresby PMG	Auxiliary Seismic Station	AS075
<u>Papua New Guinea</u>	Bialla BIAL	Auxiliary Seismic Station	AS076
<u>Papua New Guinea</u>	New Hanover	Radionuclide Station	RN51
<u>Papua New Guinea</u>	Rabaul	Infrasound Station	IS40
<u>Paraguay</u>	Villa Florida CPUP	Primary Seismic Station	PS30
<u>Paraguay</u>	Villa Florida	Infrasound Station	IS41
<u>Peru</u>	Cajamarca CAJP	Auxiliary Seismic Station	AS077
<u>Peru</u>	Nana NNA	Auxiliary Seismic Station	AS078
<u>Philippines</u>	Davao, Mindanao DAV	Auxiliary Seismic Station	AS079
<u>Philippines</u>	Tagaytay, Luzon TGY	Auxiliary Seismic Station	AS080
<u>Philippines</u>	Quezon City	Radionuclide Station	RN52
<u>Portugal</u>	Ponta Delgada, Sao Miguel, Azores	Radionuclide Station	RN53
<u>Portugal</u>	Flores	Hydroacoustic Station	HA07
<u>Portugal</u>	Azores	Infrasound Station	IS42
<u>Republic of Korea</u>	Wonju KSRS	Primary Seismic Station	PS31
<u>Romania</u>	Muntele Rosu MLR	Auxiliary Seismic Station	AS081
<u>Russian Federation</u>	Khabaz KBZ	Primary Seismic Station	PS32
<u>Russian Federation</u>	Zalesovo ZAL	Primary Seismic Station	PS33
<u>Russian Federation</u>	Norilsk NRI	Primary Seismic Station	PS34
<u>Russian</u>	Peleduy PDY	Primary Seismic Station	PS35

<u>Russian Federation</u>	Petropavlovsk-Kamchatskiy PET	Primary Seismic Station	PS36
<u>Russian Federation</u>	Ussuriysk USK	Primary Seismic Station	PS37
<u>Russian Federation</u>	Kirov KIRV	Auxiliary Seismic Station	AS082
<u>Russian Federation</u>	Kislovodsk KIVO	Auxiliary Seismic Station	AS083
<u>Russian Federation</u>	Obninsk OBN	Auxiliary Seismic Station	AS084
<u>Russian Federation</u>	Arti ARU	Auxiliary Seismic Station	AS085
<u>Russian Federation</u>	Seymchan SEY	Auxiliary Seismic Station	AS086
<u>Russian Federation</u>	Talaya TLY	Auxiliary Seismic Station	AS087
<u>Russian Federation</u>	Yakutsk YAK	Auxiliary Seismic Station	AS088
<u>Russian Federation</u>	Urgal URG	Auxiliary Seismic Station	AS089
<u>Russian Federation</u>	Bilibino BIL	Auxiliary Seismic Station	AS090
<u>Russian Federation</u>	Tiksi TIXI	Auxiliary Seismic Station	AS091
<u>Russian Federation</u>	Yuzhno-Sakhalinsk YSS	Auxiliary Seismic Station	AS092
<u>Russian Federation</u>	Magadan MA2	Auxiliary Seismic Station	AS093
<u>Russian Federation</u>	Zilim ZIL	Auxiliary Seismic Station	AS094
<u>Russian Federation</u>	Kirov	Radionuclide Station	RN54
<u>Russian Federation</u>	Norilsk	Radionuclide Station	RN55
<u>Russian Federation</u>	Peleduy	Radionuclide Station	RN56
<u>Russian Federation</u>	Bilibino	Radionuclide Station	RN57
<u>Russian Federation</u>	Ussuriysk	Radionuclide Station	RN58
<u>Russian Federation</u>	Zalesovo	Radionuclide Station	RN59
<u>Russian Federation</u>	Petropavlovsk-Kamchatskiy	Radionuclide Station	RN60
<u>Russian Federation</u>	Dubna	Radionuclide Station	RN61

<u>Russian Federation</u>	Central Radiation Control Laboratory Ministry of Defence Special Verification Service Moscow	Radionuclide Laboratory	RL13
<u>Russian Federation</u>	Dubna	Infrasound Station	IS43
<u>Russian Federation</u>	Petropavlovsk-Kamchatskiy	Infrasound Station	IS44
<u>Russian Federation</u>	Ussuriysk	Infrasound Station	IS45
<u>Russian Federation</u>	Zalesovo	Infrasound Station	IS46
<u>Samoa</u>	Afiamalu AFI	Auxiliary Seismic Station	AS095
<u>Saudi Arabia</u>	New Site	Primary Seismic Station	PS38
<u>Saudi Arabia</u>	Ar Rayn RAYN	Auxiliary Seismic Station	AS096
<u>Senegal</u>	Mbour MBO	Auxiliary Seismic Station	AS097
<u>Solomon Islands</u>	Honiara, Guadalcanal HNR	Auxiliary Seismic Station	AS098
<u>South Africa</u>	Boshof BOSA	Primary Seismic Station	PS39
<u>South Africa</u>	Sutherland SUR	Auxiliary Seismic Station	AS099
<u>South Africa</u>	Marion Island	Radionuclide Station	RN62
<u>South Africa</u>	Atomic Energy Corporation Pelindaba	Radionuclide Laboratory	RL14
<u>South Africa</u>	Boshof	Infrasound Station	IS47
<u>Spain</u>	Sonseca ESDC	Primary Seismic Station	PS40
<u>Sri Lanka</u>	Colombo COC	Auxiliary Seismic Station	AS100
<u>Sweden</u>	Hagfors HFS	Auxiliary Seismic Station	AS101
<u>Sweden</u>	Stockholm	Radionuclide Station	RN63
<u>Switzerland</u>	Davos DAVOS	Auxiliary Seismic Station	AS102
<u>TBD</u>	TBD	Primary Seismic Station	PS20
<u>TBD</u>	TBD	Auxiliary Seismic Station	AS039
<u>TBD</u>	TBD	Radionuclide Station	RN35
<u>TBD</u>	TBD	Infrasound Station	IS28
<u>Thailand</u>	Chiang Mai CMTO	Primary Seismic Station	PS41
<u>Thailand</u>	Bangkok	Radionuclide Station	RN65
<u>Tunisia</u>	Thala THA	Primary Seismic Station	PS42
<u>Tunisia</u>	Thala	Infrasound Station	IS48
<u>Turkey</u>	Belbashi BRTR	Primary Seismic Station	PS43
<u>Turkmenistan</u>	Alibeck GEYT	Primary Seismic Station	PS44
<u>Uganda</u>	Mbarara MBRU	Auxiliary Seismic Station	AS103
<u>Ukraine</u>	Malin AKASG	Primary Seismic Station	PS45
<u>United Kingdom</u>	Eskdalemuir EKA	Auxiliary Seismic Station	AS104
<u>United Kingdom</u>	BIOT/Chagos Archipelago	Radionuclide Station	RN66
<u>United Kingdom</u>	St. Helena	Radionuclide Station	RN67
<u>United Kingdom</u>	Tristan da Cunha	Radionuclide Station	RN68
<u>United Kingdom</u>	Halley, Antarctica	Radionuclide Station	RN69

<u>United Kingdom</u>	AWE Blacknest Chilton	Radionuclide Laboratory	RL15
<u>United Kingdom</u>	BIOT/Chagos Archipelago	Hydroacoustic Station	HA08
<u>United Kingdom</u>	Tristan da Cunha	Hydroacoustic Station	HA09
<u>United Kingdom</u>	Tristan da Cunha	Infrasound Station	IS49
<u>United Kingdom</u>	Ascension	Infrasound Station	IS50
<u>United Kingdom</u>	Bermuda	Infrasound Station	IS51
<u>United Kingdom</u>	BIOT/Chagos Archipelago	Infrasound Station	IS52
<u>United Republic of Tanzania</u>	Dar es Salaam	Radionuclide Station	RN64
<u>United States</u>	Lajitas, TX LJTX	Primary Seismic Station	PS46
<u>United States</u>	Mina, NV MNV	Primary Seismic Station	PS47
<u>United States</u>	Pinedale, WY PIWY	Primary Seismic Station	PS48
<u>United States</u>	Eiesoen, AK ELAK	Primary Seismic Station	PS49
<u>United States</u>	Vanda, Antarctica VNDA	Primary Seismic Station	PS50
<u>United States</u>	Guam, Marianas Islands GUMO	Auxiliary Seismic Station	AS105
<u>United States</u>	Palmer Station, Antarctica PMSA	Auxiliary Seismic Station	AS106
<u>United States</u>	Tuckaleechee Caverns, TN TKL	Auxiliary Seismic Station	AS107
<u>United States</u>	Piñon Flat, CA PFCA	Auxiliary Seismic Station	AS108
<u>United States</u>	Yreka, CA YBH	Auxiliary Seismic Station	AS109
<u>United States</u>	Kodiak Island, AK KDC	Auxiliary Seismic Station	AS110
<u>United States</u>	Albuquerque, NM ALQ	Auxiliary Seismic Station	AS111
<u>United States</u>	Attu Island, AK ATTU	Auxiliary Seismic Station	AS112
<u>United States</u>	Elko, NV ELK	Auxiliary Seismic Station	AS113
<u>United States</u>	South Pole, Antarctica SPA	Auxiliary Seismic Station	AS114
<u>United States</u>	Newport, WA NEW	Auxiliary Seismic Station	AS115
<u>United States</u>	San Juan, PR SJG	Auxiliary Seismic Station	AS116
<u>United States</u>	Sacramento, CA	Radionuclide Station	RN70
<u>United States</u>	Sand Point, AK	Radionuclide Station	RN71
<u>United States</u>	Melbourne, FL	Radionuclide Station	RN72
<u>United States</u>	Palmer Station	Radionuclide Station	RN73
<u>United States</u>	Ashland, KS	Radionuclide Station	RN74
<u>United States</u>	Charlottesville, VA	Radionuclide Station	RN75
<u>United States</u>	Salchaket, AK	Radionuclide Station	RN76
<u>United States</u>	Wake Island	Radionuclide Station	RN77
<u>United States</u>	Midway Islands	Radionuclide Station	RN78
<u>United States</u>	Oahu, HI	Radionuclide Station	RN79
<u>United States</u>	Upi, Guam	Radionuclide Station	RN80
<u>United States</u>	McClellan Central Laboratories Sacramento, CA	Radionuclide Laboratory	RL16
<u>United States</u>	Ascension	Hydroacoustic Station	HA10

<u>United States</u>	Wake Island	Hydroacoustic Station	HA11
<u>United States</u>	Eielson, AK	Infrasound Station	IS53
<u>United States</u>	Siple Station, Antarctica	Infrasound Station	IS54
<u>United States</u>	Windless Bight, Antarctica	Infrasound Station	IS55
<u>United States</u>	Newport, WA	Infrasound Station	IS56
<u>United States</u>	Piñon Flat, CA	Infrasound Station	IS57
<u>United States</u>	Midway Islands	Infrasound Station	IS58
<u>United States</u>	Hawaii, HI	Infrasound Station	IS59
<u>United States</u>	Wake Island	Infrasound Station	IS60
<u>Venezuela (Bolivarian Republic of)</u>	Santo Domingo SDV	Auxiliary Seismic Station	AS117
<u>Venezuela (Bolivarian Republic of)</u>	Puerto la Cruz PCRV	Auxiliary Seismic Station	AS118
<u>Zambia</u>	Lusaka LSZ	Auxiliary Seismic Station	AS119
<u>Zimbabwe</u>	Bulawayo BUL	Auxiliary Seismic Station	AS120

Fonte: http://www.ctbto.org/fileadmin/content/treaty/treaty_text.pdf

ALLEGATO A

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IL SISTEMA DI MONITORAGGIO INTERNAZIONALE

Rete delle Stazioni Sismiche Primarie (50 Stazioni)

Treaty Number	Station Name	Country	Status
<u>PS01</u>	Paso Flores	Argentina	Certified
<u>PS02</u>	Warramunga, NT	Australia	Certified
<u>PS03</u>	Alice Springs	Australia	Certified
<u>PS04</u>	Stephens Creek, NSW	Australia	Certified
<u>PS05</u>	Mawson, Antarctica	Australia	Certified
<u>PS06</u>	La Paz	Bolivia	Certified
<u>PS07</u>	Brasilia	Brazil	Certified
<u>PS08</u>	Lac du Bonnet, Man.	Canada	Certified
<u>PS09</u>	Yellowknife, N.W.T.	Canada	Certified
<u>PS10</u>	Schefferville, Quebec	Canada	Certified
<u>PS11</u>	Bangui	Central African Republic	Not certified
<u>PS12</u>	Hailar	China	Not certified
<u>PS13</u>	Lanzhou	China	Not certified
<u>PS14</u>	El Rosal	Colombia	Certified
<u>PS15</u>	Dimbroko	Côte d'Ivoire	Certified
<u>PS16</u>	Luxor	Egypt	Not certified
<u>PS17</u>	Lahti	Finland	Certified
<u>PS18</u>	Tahiti	France	Certified
<u>PS19</u>	Freyung	Germany	Certified
<u>PS20</u>	TBD	TBD	Not certified
<u>PS21</u>	Tehran	Iran (Islamic Republic of)	Certified
<u>PS22</u>	Matsushiro	Japan	Certified
<u>PS23</u>	Makanchi	Kazakhstan	Certified
<u>PS24</u>	Kilimambogo	Kenya	Certified
<u>PS25</u>	Songino	Mongolia	Certified
<u>PS26</u>	Torodi	Niger	Certified
<u>PS27</u>	Hamar	Norway	Certified
<u>PS28</u>	Karasjok	Norway	Certified
<u>PS29</u>	Pari	Pakistan	Not certified
<u>PS30</u>	Villa Florida	Paraguay	Certified
<u>PS31</u>	Wonju	Republic of Korea	Certified
<u>PS32</u>	Khabaz	Russian Federation	Certified
<u>PS33</u>	Zalesovo	Russian Federation	Certified
<u>PS34</u>	Norilsk	Russian Federation	Certified
<u>PS35</u>	Peleduy	Russian Federation	Not certified
<u>PS36</u>	Petropavlovsk-Kamchatskiy	Russian Federation	Certified
<u>PS37</u>	Ussuriysk	Russian Federation	Certified
<u>PS38</u>	Haleban	Saudi Arabia	Not certified
<u>PS39</u>	Boshof	South Africa	Certified
<u>PS40</u>	Sonseca	Spain	Certified
<u>PS41</u>	Chiang Mai	Thailand	Certified

<u>PS42</u>	Thala	Tunisia	Certified
<u>PS43</u>	Keskin	Turkey	Certified
<u>PS44</u>	Alibeck	Turkmenistan	Certified
<u>PS45</u>	Malin	Ukraine	Certified
<u>PS46</u>	Lajitas, TX	United States of America	Certified
<u>PS47</u>	Mina, NV	United States of America	Certified
<u>PS48</u>	Pinedale, WY	United States of America	Certified
<u>PS49</u>	Eielson, AK	United States of America	Certified
<u>PS50</u>	Vanda, Antarctica	United States of America	Certified

Fonte: <http://www.ctbto.org/verification-regime/station-profiles/>

(Febbraio 2017)