

SEISMOGRAPH STATIONS IN TRINIDAD AND TOBAGO
AND THE COMMONWEALTH CARIBBEAN

The first seismograph in this region was established in Port of Spain, Trinidad in 1898. The instrument was part of John Milne's worldwide seismograph network and operated until about 1916. No records from this instrument have been located in Trinidad but some may survive in the United Kingdom. In 1946-47 a three-component short-period vertical seismograph station was established in Trinidad as part of a U.S. navy hurricane-tracking system. These instruments were intended for the study of microseisms but some earthquake arrival time were published before the station closed in 1947.

In 1952 a permanent short-period seismograph station was set up in Trinidad. Since that time additional seismograph stations have been added in Trinidad, Tobago, Barbados, the Lesser Antilles and Jamaica. The enclosed table lists all stations which are known to be operating or to have operated in this region. All stations are under the control of:

The Head of Seismic Research,
University of the West Indies,
St. Augustine,
Trinidad,
WEST INDIES.

All seismograms recorded since 1952 are archived at the above address. Additional stations are operated in the French Antilles by the Institute de Physique du Globe. Information concerning these stations can be obtained from:

Laboratoire de Sismologie,
IPG Tour 14 - 4, Place Jussieu,
75230 PARIS CEDEX 05.

CODE	NAME	LOCATION	INSTRUMENT	DATES	SUBSOIL
TRN	Trinidad	10.648 N 61.403 W 24 metres	Willmore MKI	1952-62	Cretaceous Phyllite
"	"	" "	WSSN	1962-Present	"
"	"	" "	ECTSA	1976-Present	"
TRH	Brigand Hill (Trinidad)	10.484 N 61.067 W 199 metres	ECTSA	1968-Present	Cretaceous Limestone
TPP	Point-a- Pierre (Trinidad)	10.317 N 61.451 W 46 metres	ECTSA	1968-Present	Oligocene Limestone
PLS	Point Lisas (Trinidad)	10.413 N 61.490 W 0 metres	ECTSA	1976-1979	Recent Alluvium
TOB	Crown Point (Tobago)	11.141 N 60.841 W 15 metres	ECTSA	1977-1978	-
TPR	Prospect (Tobago)	11.186 N 60.777 W 245 metres	ECTSA	1978-Present	-
GRE	Grenada	12.047 N 61.746 W	Willmore MKI	1952-1978	-
GRW	Mt. St. Catherine (Grenada)	12.160 N 61.661 W 762 metres	ECTSA	1978-Present	Recent Volcanic Ash
SVI	St. Vincent	13.170 N 61.258 W 10 metres	Willmore MKI	1952-67	-
SVT	St. Vincent	13.168 N 61.245 W 38 metres	Willmore MKI	1967-1980	-

CODE	NAME	LOCATION	INSTRUMENT	DATES	SUBSOIL
SVB	Belmont (St. Vincent)	13.272 N 61.252 W 282 metres	ECTSA	1978-Present	Recent Volcanic Ash
SVV	Soufriere Volcano (St. Vincent)	13.318 N 61.216 W 243 metres	ECTSA	1978-	Recent Volcanic Ash
SSV	Crater Summit (St. Vincent)	13.327 N 61.193 W 824 metres	ECTSA	1979-	Recent Volcanic Ash
RSV	Radio Antilles St. Vincent	13.307 N 61.236 W 8 metres	ECTSA	1979-	Recent Volcanic Ash
BRB	Barbados	13.122 N 59.606 W 55 metres	Willmore MKI	1952-66	Coral Limestone
BDS	Barbados	13.146 N 59.626 W 110 metres	Willmore MKI	1966-78	Coral Limestone
BDH	Highclere (Barbados)	13.203 N 59.589 W 308 metres	ECTSA	1978-	Limestone
SLI	St. Lucia	14.028 N 61.008 W	Willmore MKI	1953-60	-
SLW	St. Lucia	14.020 N 60.936 W 366 metres	ECTSA	1978-	-
DOM	Dominica	15.296 N 61.391 W 15 metres	Willmore MKI	1955-78	-

CODE	NAME	LOCATION	INSTRUMENT	DATES	SUBSOIL
MDN	Morne Daniel (Dominica)	15.316 N 61.400 W 99 metres	ECTSA	1980-	-
BBL	Barber's Block (Dominica)	15.523 N 16.478 W 365 metres	ECTSA	1978-	-
MWI	Montserrat "	16.713 N 62.222 W 46 metres " "	Wiechert 2-component Horizontal Willmore I	1937-46 1966-80	Pleistocene Ash "
MGH	St. George's Hill (Montserrat)	16.720 N 62.216 W 351 metres	ECTSA	1980-	Dome Lava
AWI	Antigua	17.143 N 61.835 W 23 metres	Willmore I	1957-65	Alluvium
ANG	Antigua	17.155 N 61.830 W 27 metres	ECTSA	1966-	Alluvium
BPA	Boggy Peak (Antigua)	17.046 N 61.857 W 396 metres	ECTSA	1980-	Limestone
BWI	Barbuda	17.665 N 61.790 W 10 metres	ECTSA	1980-	Limestone
BBP	Codrington (Barbuda)	17.640 N 61.826 W 5 metres	ECTSA	1980-	Limestone
SKI	St. Kitts	17.333 N 62.739 W 306 metres	Willmore I	1957-80	-

CODE	NAME	LOCATION	INSTRUMENT	DATES	SUBSOIL
BSK	Brimstone Hill (St. Kitts)	17.347 N 62.840 W 125 metres	ECTSA	1980-	Dome Lava
NEV	Hard Times (Nevis)	17.136 N 62.571 W 244 metres	ECTSA	1980-	Recent Volcanic Ash
SBN	Saba	17.637 N 63.235 W 870 metres	LDGO/ECTSA	1980-	-
MRN	St. Maarten	18.012 N 63.060 W	LDGO/ECTSA	1980-	-

Notes:

- (a) Willmore 1. Station equipped with Willmore MKI vertical component seismometer and photographic recorder. Peak magnifications from 8,000 to 30,000 depending on site conditions.
- (b) WSSN. World-Wide Standardized Seismograph Network.
- (c) ECTSA. Eastern Caribbean Telemetered Seismic Array. Stations equipped with L4C vertical component seismometers (sometimes Willmore MK II). Signals transmitted to Trinidad by VHF radio and microwave circuits. Recordings on analogue magnetic tape with visual monitors. Timing controlled directly from WWV via GOES.
- (d) LDGO/ECTSA. Stations operated by Lamont Doherty Geophysical Observatory of Columbia University and incorporated into ECTSA.

Seismograph stations in the French Antilles, April 1982:

CODE	LATITUDE	LONGITUDE	ELEVATION	LOCATION
BIM	14 31.02 N	61 04.25 W	425 metres	Bigot (Martinique)
CPM	14 48.93 N	61 12.63 W	335 metres	Case Petit Martinique
CRM	14 45.22 N	60 54.93 W	180 metres	Caravelle Martinique
FDF	14 44.00 N	61 09.02 W	510 metres	Morne des Cadets Martinique
LAM	14 48.68 N	61 10.11 W	1240 metres	Morne La Croix Martinique
MLM	14 46.86 N	61 11.03 W	370 metres	Morne Lenard Martinique
MVM	14 33.27 N	60 53.73 W	361 metres	Mgne du Vauclin Martinique
PCM	14 47.81 N	61 08.92 W	930 metres	Morne Calebasse Martinique
SAM	14 50.40 N	61 10.07 W	510 metres	Savane Anatole Martinique
BRG	16 05.10 N	61 37.18 W	442 metres	Bois Riant Guadeloupe
CAG	16 03.25 N	61 39.55 W	1370 metres	Carmichael Guadeloupe

CODE	LATITUDE	LONGITUDE	ELEVATION	LOCATION
DOG	16 01.92 N	61 37.07 W	460 metres	Dongo-Capesterre Guadeloupe
FBG	15 58.78 N	61 38.87 W	185 metres	Trois Rivières Guadeloupe
MGG	15 55.08 N	61 19.01 W	51 metres	Marie Galante Guadeloupe
MOG	16 03.68 N	61 42.62 W	640 metres	Mont-D'or Baillif Guadeloupe
PAG	16 01.78 N	61 40.80 W	670 metres	Parnasse Guadeloupe
SFG	16 15.20 N	61 11.79 W	10 metres	Saint François Guadeloupe
STG	16 05.32 N	61 40.73 W	1210 metres	Sans Toucher Guadeloupe
TAG	16 02.52 N	61 39.85 W	1182 metres	Tarade Guadeloupe
SEG	16 24.17 N	61 30.31 W	60 metres	Port Louis Guadeloupe