

SITE INFORMATION

Revised 1/8/98

Current Site Name: Zimmerwald
Other Site Name:
Location: Berne, Switzerland
Site Number: 882
Geographic Region: Europe
Tectonic Plate: Eurasian

General Site Description: The station is located at the Zimmerwald observatory of the University of Berne. The observatory has contributed satellite data towards international geodetic programs since 1966. The early photographic methods were substituted by laser ranging in the early seventies. Since 1984, the laser station has been routinely operating with a third generation laser, mostly tracking LAGEOS, AJISAI, and STARLETTE; a new laser system was installed in late 1995. A permanent GPS receiver is also located at the site.

Geological Province: Alpine molasse basin of Switzerland

Local Geology: Late pleistocene moraine material superposed on sandstones of the upper marine molasse (helvetien miocene)

Site Topo Map:

Comments: The site has been tied into a network of reference points located in solid rock areas using GPS receivers.

CONTACT INFORMATION

Site Ownership: Switzerland
Site Management: Zimmerwald Observatory of Berne University
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MONUMENT INFORMATION

Revised 1/8/98

Current Site Name: Zimmerwald
Location: Berne, Switzerland
Site Number: 882
Number of Observing Monuments: 1
Surveyed into National Network? Yes

Monument Number: 7810
Type of Monument: Intersection of horizontal and vertical axes
Monument Inscription: None
Systems using Monument: Fixed Laser

Latitude: N 46° 52' 38.02150"
Longitude: E 07° 27' 54.78787"
Elevation: 901.849 meters
Height above Ellipsoid: 951.078 meters
Geodetic Coordinate Source/Date: Federal Office of Topography / 25-Jan-90
Geodetic Coordinate Datum/Ellipsoid: IERS ITRF94 (1993)
Elevation Datum:
Source of Monument Geodetic Ties:
Comments: None

Differential Coordinates

Monument Number	Monument Inscription	X	Y	Z
—	CH-99 RETRIG REF MONUMENT	-9.602	34.805	-0.812
—	DOP 80 (AUXILIARY GPS MARKER)	8.448	-0.168	-3.993
—	GPS 87 (AUXILIARY GPS MARKER)	10.188	-7.805	-4.109
—	L+T 88 (GPS MARKER PERM ANT)	13.680	6.012	-6.242

Monument Number	Monument Inscription	North	East	Up
—	CH-99 RETRIG REFMONUMENT	3.093	35.757	-4.009
—	DOP 80 (AUXILIARY GPS MARKER)	-8.827	-1.264	2.796
—	GPS 87 (AUXILIARY GPS MARKER)	-9.442	-9.063	3.212
—	L+T 88 (GPS MARKER PERM ANT)	-14.737	4.183	5.250

SITE SKETCH

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SLR Occupations

Monument Number	Occupying System	Occupation Designator	Starting Date	Ending Date
7810	ZIMLAS	78104801	01-May-84	30-Apr-95
7810	ZIMLAT	78106802	01-Oct-95	-----

VLBI Occupations

Monument Number	Occupying System	Occupation Designator	Starting Date	Ending Date
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No Previous Occupations

GPS Occupations

Monument Name	Starting Date	Ending Date	Network
ZIMM	01-Jan-91	-----	IGS

Footprint Surveys

Survey	Starting Date	Source
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No footprint surveys were completed. See the station description notes for geodetic ties to other local geodetic stations.