

BSHM00ISR Site Information Form (site log)
International GNSS Service
See Instructions at:
https://files.igs.org/pub/station/general/sitelog_instr_v2.0.txt

0. Form

Prepared by (full name) : Tatevik Shakhbandaryan
Date Prepared : 2023-04-03
Report Type : UPDATE
If Update:
Previous Site Log : bshm_20210824.log
Modified/Added Sections : 3.15, 3.16

1. Site Identification of the GNSS Monument

Site Name : Binyamin Shmuter Memorial site
Nine Character ID : BSHM00ISR
Monument Inscription :
IERS DOMES Number : 20705M001
CDP Number :
Monument Description : BUILDING ROOF
Height of the Monument :
Monument Foundation :
Foundation Depth :
Marker Description : GPS ARP
Date Installed : 1998-09-02T00:00Z
Geologic Characteristic :
Bedrock Type :
Bedrock Condition :
Fracture Spacing :
Fault zones nearby :
Distance/activity :
Additional Information : Stainless steel pin attached to the roof
of : a stable building (Faculty of Geodesy)

2. Site Location Information

City or Town : Haifa
State or Province : Haifa District
Country or Region : ISR
Tectonic Plate : AFRICAN
Approximate Position (ITRF)
X coordinate (m) : 4396111.1752
Y coordinate (m) : 3080477.6419
Z coordinate (m) : 3433499.4619
Latitude (N is +) : +324644.40
Longitude (E is +) : +0350112.00
Elevation (m,ellips.) : 225.1
Additional Information :

3. GNSS Receiver Information

3.1 Receiver Type : JPS EGGDT

	Satellite System	: GPS+GLO
	Serial Number	: 2334
	Firmware Version	: 2.7.0
	Elevation Cutoff Setting	: 5 deg
	Date Installed	: 2009-07-20T00:00Z
	Date Removed	: 2014-03-17T17:00Z
	Temperature Stabiliz.	: none
	Additional Information	:
3.2	Receiver Type	: JPS EGGDT
	Satellite System	: GPS+GLO
	Serial Number	: 2334
	Firmware Version	: 2.7.0
	Elevation Cutoff Setting	: 0 deg
	Date Installed	: 2014-03-17T17:05Z
	Date Removed	: 2014-06-13T10:35Z
	Temperature Stabiliz.	: none
	Additional Information	: See Section 10.1
3.3	Receiver Type	: JAVAD TRE_G3TH DELTA
	Satellite System	: GPS+GLO
	Serial Number	: 01704
	Firmware Version	: 3.5.5
	Elevation Cutoff Setting	: 0 deg
	Date Installed	: 2014-06-13T10:40Z
	Date Removed	: 2014-10-21T23:00Z
	Temperature Stabiliz.	: none
	Additional Information	: Receiver has board version TRE_G3TH_8
3.4	Receiver Type	: JAVAD TRE_G3TH DELTA
	Satellite System	: GPS+GLO
	Serial Number	: 01704
	Firmware Version	: 3.5.7b0
	Elevation Cutoff Setting	: 0 deg
	Date Installed	: 2014-10-21T23:30Z
	Date Removed	: 2015-01-20T23:02Z
	Temperature Stabiliz.	: none
	Additional Information	: Receiver has board version TRE_G3TH_8
3.5	Receiver Type	: JAVAD TRE_G3TH DELTA
	Satellite System	: GPS+GLO
	Serial Number	: 01704
	Firmware Version	: 3.5.8b0-12-52e9
	Elevation Cutoff Setting	: 0 deg
	Date Installed	: 2015-01-20T23:03Z
	Date Removed	: 2016-02-17T23:35Z
	Temperature Stabiliz.	: none
	Additional Information	: Receiver has board version TRE_G3TH_8
3.6	Receiver Type	: JAVAD TRE_G3TH DELTA
	Satellite System	: GPS+GLO
	Serial Number	: 01704
	Firmware Version	: 3.6.4
	Elevation Cutoff Setting	: 0 deg
	Date Installed	: 2016-02-17T23:37Z
	Date Removed	: 2017-06-27T23:59Z
	Temperature Stabiliz.	: none
	Additional Information	: Receiver has board version TRE_G3TH_8

3.7 Receiver Type : JAVAD TRE_G3TH DELTA
Satellite System : GPS+GLO+GAL+BDS
Serial Number : 01704
Firmware Version : 3.6.4
Elevation Cutoff Setting : 0 deg
Date Installed : 2017-06-28T00:00Z
Date Removed : 2017-07-12T00:00Z
Temperature Stabiliz. : none
Additional Information : Receiver has board version TRE_G3TH_8

3.8 Receiver Type : JAVAD TRE_3 DELTA
Satellite System : GPS+GLO+GAL+BDS
Serial Number : 02330
Firmware Version : 3.6.7
Elevation Cutoff Setting : 0 deg
Date Installed : 2017-07-12T00:00Z
Date Removed : 2018-08-16T23:00Z
Temperature Stabiliz. : none
Additional Information :

3.9 Receiver Type : JAVAD TRE_3 DELTA
Satellite System : GPS+GLO+GAL+BDS+QZSS
Serial Number : 02330
Firmware Version : 3.7.2
Elevation Cutoff Setting : 0 deg
Date Installed : 2018-08-16T23:15Z
Date Removed : 2018-12-27T17:41Z
Temperature Stabiliz. : none
Additional Information :

3.10 Receiver Type : JAVAD TRE_3 DELTA
Satellite System : GPS+GLO+GAL+BDS+QZSS
Serial Number : 02330
Firmware Version : 3.7.4
Elevation Cutoff Setting : 0 deg
Date Installed : 2018-12-27T17:45Z
Date Removed : 2019-05-06T04:05Z
Temperature Stabiliz. : none
Additional Information :

3.11 Receiver Type : JAVAD TRE_3 DELTA
Satellite System : GPS+GLO+GAL+BDS+QZSS+IRNSS
Serial Number : 02330
Firmware Version : 3.7.6
Elevation Cutoff Setting : 0 deg
Date Installed : 2019-05-06T04:05Z
Date Removed : 2020-02-03T16:15Z
Temperature Stabiliz. : none
Additional Information :

3.12 Receiver Type : JAVAD TRE_3 DELTA
Satellite System : GPS+GLO+GAL+BDS+QZSS+IRNSS
Serial Number : 02330
Firmware Version : 3.7.9
Elevation Cutoff Setting : 0 deg
Date Installed : 2020-02-03T16:15Z
Date Removed : 2021-03-08T21:34Z

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    Temperature Stabiliz.      : none
    Additional Information      :

3.13 Receiver Type            : JAVAD TRE_3 DELTA
    Satellite System           : GPS+GLO+GAL+BDS+QZSS+IRNSS
    Serial Number              : 02330
    Firmware Version           : 4.0.02
    Elevation Cutoff Setting    : 0 deg
    Date Installed              : 2021-03-08T21:34Z
    Date Removed                : 2021-07-21T00:07Z
    Temperature Stabiliz.      : none
    Additional Information      :

3.14 Receiver Type            : JAVAD TRE_3 DELTA
    Satellite System           : GPS+GLO+GAL+BDS+QZSS+IRNSS
    Serial Number              : 02330
    Firmware Version           : 4.1.01
    Elevation Cutoff Setting    : 0 deg
    Date Installed              : 2021-07-21T00:07Z
    Date Removed                : 2021-08-24T11:00Z
    Temperature Stabiliz.      : none
    Additional Information      :

3.15 Receiver Type            : SEPT POLARX5
    Satellite System           : GPS+GLO+GAL+BDS+QZSS+IRNSS
    Serial Number              : 3013570
    Firmware Version           : 5.4.0
    Elevation Cutoff Setting    : 0 deg
    Date Installed              : 2021-08-24T11:00Z
    Date Removed                : 2023-03-30T22:32Z
    Temperature Stabiliz.      :
    Additional Information      :

3.16 Receiver Type            : SEPT POLARX5
    Satellite System           : GPS+GLO+GAL+BDS+QZSS+IRNSS
    Serial Number              : 3013570
    Firmware Version           : 5.5.0
    Elevation Cutoff Setting    : 0 deg
    Date Installed              : 2023-03-30T22:32Z
    Date Removed                : (CCYY-MM-DDThh:mmZ)
    Temperature Stabiliz.      :
    Additional Information      :

3.x Receiver Type             : (A20, from rcvr_ant.tab; see
instructions)
    Satellite System           : (GPS+GLO+GAL+BDS+QZSS+SBAS)
    Serial Number              : (A20, but note the first A5 is used in
SINEX)
    Firmware Version           : (A11)
    Elevation Cutoff Setting    : (deg)
    Date Installed              : (CCYY-MM-DDThh:mmZ)
    Date Removed                : (CCYY-MM-DDThh:mmZ)
    Temperature Stabiliz.      : (none or tolerance in degrees C)
    Additional Information      : (multiple lines)

4. GNSS Antenna Information

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4.1  Antenna Type           : TRM59800.00      SCIS
     Serial Number          : 4811A47089
     Antenna Reference Point : BPA
     Marker->ARP Up Ecc. (m) : 0.0000
     Marker->ARP North Ecc(m) : 0.0000
     Marker->ARP East Ecc(m) : 0.0000
     Alignment from True N   :
     Antenna Radome Type     : SCIS
     Radome Serial Number    : 00187
     Antenna Cable Type      : TIMES LMR 600
     Antenna Cable Length    : 60 m
     Date Installed          : 2009-07-20T00:00Z
     Date Removed            : (CCYY-MM-DDThh:mmZ)
     Additional Information   : cable is in conduit

4.x  Antenna Type           : (A20, from rcvr_ant.tab; see
instructions)
     Serial Number          : (A*, but note the first A5 is used in
SINEX)
     Antenna Reference Point : (BPA/BCR/XXX from "antenna.gra"; see
instr.)
     Marker->ARP Up Ecc. (m) : (F8.4)
     Marker->ARP North Ecc(m) : (F8.4)
     Marker->ARP East Ecc(m) : (F8.4)
     Alignment from True N   : (deg; + is clockwise/east)
     Antenna Radome Type     : (A4 from rcvr_ant.tab; see instructions)
     Radome Serial Number    :
     Antenna Cable Type      : (vendor & type number)
     Antenna Cable Length    : (m)
     Date Installed          : (CCYY-MM-DDThh:mmZ)
     Date Removed            : (CCYY-MM-DDThh:mmZ)
     Additional Information   : (multiple lines)

5.   Surveyed Local Ties

5.1  Tied Marker Name       : NONE
     Tied Marker Usage       :
     Tied Marker CDP Number   :
     Tied Marker DOMES Number :
     Differential Components from GNSS Marker to the tied monument (ITRS)
       dx (m)                :
       dy (m)                :
       dz (m)                :
     Accuracy (mm)           :
     Survey method            :
     Date Measured            : (CCYY-MM-DDThh:mmZ)
     Additional Information    :

5.x  Tied Marker Name       :
     Tied Marker Usage       : (SLR/VLBI/LOCAL CONTROL/FOOTPRINT/etc)
     Tied Marker CDP Number   : (A4)
     Tied Marker DOMES Number : (A9)
     Differential Components from GNSS Marker to the tied monument (ITRS)
       dx (m)                : (m)
       dy (m)                : (m)
       dz (m)                : (m)
     Accuracy (mm)           : (mm)

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Survey method : (GPS
CAMPAIGN/TRILATERATION/TRIANGULATION/etc)
Date Measured : (CCYY-MM-DDThh:mmZ)
Additional Information : (multiple lines)

6. Frequency Standard

6.1 Standard Type : INTERNAL
Input Frequency :
Effective Dates : 2009-07-20/CCYY-MM-DD
Notes :

6.x Standard Type : (INTERNAL or EXTERNAL H-MASER/CESIUM/etc)
Input Frequency : (if external)
Effective Dates : (CCYY-MM-DD/CCYY-MM-DD)
Notes : (multiple lines)

7. Collocation Information

7.x Instrumentation Type :
(GPS/GLONASS/DORIS/PRARE/SLR/VLBI/TIME/etc)
Status : (PERMANENT/MOBILE)
Effective Dates : (CCYY-MM-DD/CCYY-MM-DD)
Notes : (multiple lines)

8. Meteorological Instrumentation

8.1.x Humidity Sensor Model :
Manufacturer :
Serial Number :
Data Sampling Interval : (sec)
Accuracy (% rel h) : (% rel h)
Aspiration : (UNASPIRATED/NATURAL/FAN/etc)
Height Diff to Ant : (m)
Calibration date : (CCYY-MM-DD)
Effective Dates : (CCYY-MM-DD/CCYY-MM-DD)
Notes : (multiple lines)

8.2.x Pressure Sensor Model :
Manufacturer :
Serial Number :
Data Sampling Interval : (sec)
Accuracy : (hPa)
Height Diff to Ant : (m)
Calibration date : (CCYY-MM-DD)
Effective Dates : (CCYY-MM-DD/CCYY-MM-DD)
Notes : (multiple lines)

8.3.x Temp. Sensor Model :
Manufacturer :
Serial Number :
Data Sampling Interval : (sec)
Accuracy : (deg C)
Aspiration : (UNASPIRATED/NATURAL/FAN/etc)
Height Diff to Ant : (m)

Calibration date	:	(CCYY-MM-DD)
Effective Dates	:	(CCYY-MM-DD/CCYY-MM-DD)
Notes	:	(multiple lines)

8.4.x Water Vapor Radiometer :

Manufacturer	:	
Serial Number	:	
Distance to Antenna	:	(m)
Height Diff to Ant	:	(m)
Calibration date	:	(CCYY-MM-DD)
Effective Dates	:	(CCYY-MM-DD/CCYY-MM-DD)
Notes	:	(multiple lines)

8.5.x Other Instrumentation : (multiple lines)

9. Local Ongoing Conditions Possibly Affecting Computed Position

9.1.x Radio Interferences : (TV/CELL PHONE ANTENNA/RADAR/etc)

Observed Degradations	:	(SN RATIO/DATA GAPS/etc)
Effective Dates	:	(CCYY-MM-DD/CCYY-MM-DD)
Additional Information	:	(multiple lines)

9.2.x Multipath Sources : (METAL ROOF/DOME/VLBI ANTENNA/etc)

Effective Dates	:	(CCYY-MM-DD/CCYY-MM-DD)
Additional Information	:	(multiple lines)

9.3.x Signal Obstructions : (TREES/BUILDINGS/etc)

Effective Dates	:	(CCYY-MM-DD/CCYY-MM-DD)
Additional Information	:	(multiple lines)

10. Local Episodic Effects Possibly Affecting Data Quality

10.1 Date : 2014-03-17/2014-03-17

Event	:	modified elevation mask for measurements
	:	output to be 0 degrees on all tcp ports

[a-e].

10.x Date : (CCYY-MM-DD/CCYY-MM-DD)

Event	:	(TREE CLEARING/CONSTRUCTION/etc)
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11. On-Site, Point of Contact Agency Information

Agency	:	Technion - Israel Institute of Technology
Preferred Abbreviation	:	IIT
Mailing Address	:	Department of Geodesy
	:	Technion City, Haifa 32000
	:	Israel
Primary Contact	:	
Contact Name	:	Moshe Rozenblm
Telephone (primary)	:	972-4-8292111
Telephone (secondary)	:	
Fax	:	
E-mail	:	rozenblm@mapi.gov.il
Secondary Contact	:	
Contact Name	:	Beni Dodelson

Telephone (primary) : +972-(0)54-5707979
 Telephone (secondary) :
 Fax : +972-(0)9-8992284
 E-mail : r_page@inter.net.il
 Additional Information :

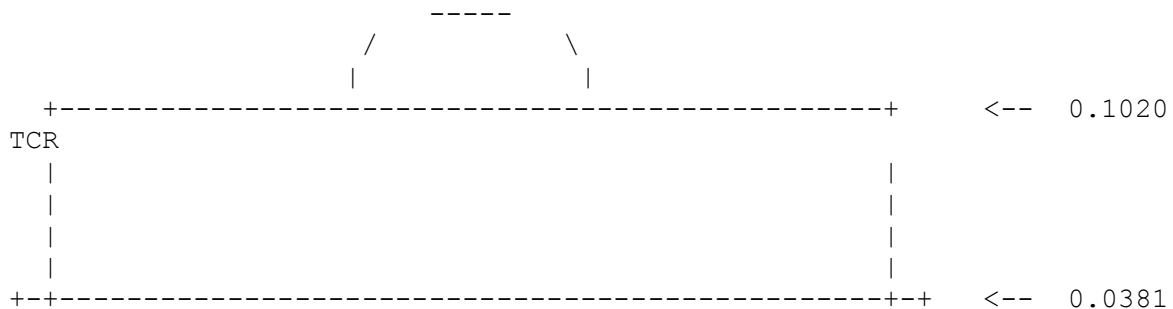
12. Responsible Agency (if different from 11.)

Agency : Jet Propulsion Laboratory
 Preferred Abbreviation : JPL
 Mailing Address : 4800 Oak Grove Drive
 : Pasadena, CA 91109 USA
 Primary Contact
 Contact Name : David A. Stowers
 Telephone (primary) : 818-354-7055
 Telephone (secondary) :
 Fax : 818-393-4965
 E-mail : dstowers@jpl.nasa.gov
 Secondary Contact
 Contact Name : UNAVCO Network Engineer
 Telephone (primary) : 303-381-7500
 Telephone (secondary) :
 Fax : 303-381-7451
 E-mail : ggn-ops@postal.unavco.org
 Additional Information :

13. More Information

Primary Data Center : JPL
 Secondary Data Center : CDDIS
 URL for More Information :
 Hardcopy on File
 Site Map :
 Site Diagram :
 Horizon Mask :
 Monument Description :
 Site Pictures :
 Additional Information :
 Antenna Graphics with Dimensions

TRM29659.00
 TRM59800.00
 TRM59800.80



+-----+-----+-----+ <-- 0.0350
BCR



BPA=ARP <-- 0.0000

<-- 0.3810 -->

ARP: Antenna Reference Point
L1 : L1 Phase Center
TCR: Top of Choking
TGP: Top of Ground Plane
TPA: Top of Preamplifier
TOP: Top of Pole

L2 : L2 Phase Center
BCR: Bottom of Choking
BGP: Bottom of Ground Plane
BPA: Bottom of Preamplifier
BAM: Bottom of antenna mount

All dimensions are in meters.