

0527 Site Information Form (site log)  
International GPS Service  
See Instructions at:  
[ftp://igsb.jpl.nasa.gov/pub/station/general/sitelog\\_instr.txt](ftp://igsb.jpl.nasa.gov/pub/station/general/sitelog_instr.txt)

0. Form

Prepared by (full name) : Simons,Heinz  
Date Prepared : 2023-07-11  
Report Type : UPDATE  
If Update:  
Previous Site Log : 0527\_20230704.log  
Modified/Added Sections : 2

1. Site Identification of the GNSS Monument

Site Name : BIRKENFELD  
Four Character ID : 0527  
Monument Inscription :  
IERS DOMES Number :  
CDP Number :  
Monument Description : ALUMINIUM HOLDER WITH ALUMINIUM PLATE  
Height of the Monument : 1.5 M  
Monument Foundation : MOUNTED ON TOP OF A CHIMNEY  
Foundation Depth :  
Marker Description : CENTER OF ALUMINIUM PLATE (WINDING)  
Date Installed : 2001-02-01T10:00Z  
Geologic Characteristic : ALLUVIAL VOLCANIC SEDIMENTS  
Bedrock Type : GRAVEL, SANDY, CLAY  
Bedrock Condition :  
Fracture Spacing :  
Fault zones nearby : YES, SUPRA-REGIONAL IMPORTANT  
Distance/activity :  
Additional Information : OWNER OF BUILDING IS LOCAL CADASTRAL OFFICE

2. Site Location Information

City or Town : BIRKENFELD  
State or Province : RHINELAND-PALATINATE  
Country : GERMANY  
Tectonic Plate : EURASIAN  
Approximate Position (ITRF)  
X coordinate (m) : 4105784.1141  
Y coordinate (m) : 516189.7394  
Z coordinate (m) : 4837832.7657  
Latitude (N is +) : +493851.06  
Longitude (E is +) : +0070956.79  
Elevation (m,ellips.) : 441.629  
Additional Information : ETRS89/DREF91/REALIZATION2016 (since 2016-12-01)

3. GNSS Receiver Information

3.1 Receiver Type : LEICA GRX1200GGPRO  
Satellite System : GPS+GLO  
Serial Number : 350169  
Firmware Version : 4.00  
Elevation Cutoff Setting : 0 DEG  
Date Installed : 2006-07-27T10:00Z  
Date Removed : 2007-08-07T10:30Z  
Temperature Stabiliz. : NONE  
Additional Information :

3.2 Receiver Type : LEICA GRX1200PRO  
Satellite System : GPS  
Serial Number : 452510  
Firmware Version : 5.10  
Elevation Cutoff Setting : 0 DEG  
Date Installed : 2007-08-07T10:45Z  
Date Removed : 2007-09-11T13:30Z  
Temperature Stabiliz. : NONE  
Additional Information :

3.3 Receiver Type : LEICA GRX1200PRO  
Satellite System : GPS  
Serial Number : 452510  
Firmware Version : 5.50  
Elevation Cutoff Setting : 0 DEG  
Date Installed : 2007-09-11T13:40Z  
Date Removed : 2009-02-06T08:20Z  
Temperature Stabiliz. : NONE  
Additional Information :

3.4 Receiver Type : LEICA GRX1200PRO  
Satellite System : GPS  
Serial Number : 452510  
Firmware Version : 6.02  
Elevation Cutoff Setting : 0 DEG  
Date Installed : 2009-02-06T08:30Z  
Date Removed : 2009-08-25T09:55Z  
Temperature Stabiliz. : NONE  
Additional Information :

3.5 Receiver Type : LEICA GRX1200+GNSS  
Satellite System : GPS+GLO  
Serial Number : 452502  
Firmware Version : 7.53  
Elevation Cutoff Setting : 0 DEG  
Date Installed : 2009-08-25T10:00Z  
Date Removed : 2010-06-17T11:18Z  
Temperature Stabiliz. : NONE  
Additional Information :

3.6 Receiver Type : LEICA GRX1200+GNSS  
Satellite System : GPS+GLO  
Serial Number : 452502

Firmware Version : 8.0  
Elevation Cutoff Setting : 0 DEG  
Date Installed : 2010-06-17T11:48Z  
Date Removed : 2012-03-09T11:45Z  
Temperature Stabiliz. : NONE  
Additional Information :

3.7 Receiver Type : LEICA GRX1200+GNSS  
Satellite System : GPS+GLO  
Serial Number : 452502  
Firmware Version : 8.51/6.110  
Elevation Cutoff Setting : 0 DEG  
Date Installed : 2012-03-09T12:05Z  
Date Removed : 2014-05-06T08:00Z  
Temperature Stabiliz. : NONE  
Additional Information :

3.8 Receiver Type : LEICA GR25  
Satellite System : GPS+GLO  
Serial Number : 1830364  
Firmware Version : 2.62/6.112  
Elevation Cutoff Setting : 0 DEG  
Date Installed : 2014-05-06T16:00Z  
Date Removed : 2016-09-27T08:10Z  
Temperature Stabiliz. : NONE  
Additional Information :

3.9 Receiver Type : LEICA GR25  
Satellite System : GPS+GLO  
Serial Number : 1830364  
Firmware Version : 4.00/6.522  
Elevation Cutoff Setting : 0 DEG  
Date Installed : 2016-09-27T08:20Z  
Date Removed : 2016-12-08T12:38Z  
Temperature Stabiliz. : NONE  
Additional Information :

3.10 Receiver Type : LEICA GR25  
Satellite System : GPS+GLO  
Serial Number : 1830364  
Firmware Version : 4.02/6.522  
Elevation Cutoff Setting : 0 DEG  
Date Installed : 2016-12-08T12:41Z  
Date Removed : 2017-01-17T08:14Z  
Temperature Stabiliz. : NONE  
Additional Information :

3.11 Receiver Type : LEICA GR50  
Satellite System : GPS+GLO  
Serial Number : 1830348  
Firmware Version : 4.02/7.002  
Elevation Cutoff Setting : 0 DEG  
Date Installed : 2017-01-17T08:20Z  
Date Removed : 2017-05-16T12:18Z

Temperature Stabiliz. : NONE  
Additional Information :

3.12 Receiver Type : LEICA GR50  
Satellite System : GPS+GLO  
Serial Number : 1830348  
Firmware Version : 4.11 / 7.102  
Elevation Cutoff Setting : 0 DEG  
Date Installed : 2017-05-16T12:23Z  
Date Removed : 2019-02-04T10:00Z  
Temperature Stabiliz. : NONE  
Additional Information :

3.13 Receiver Type : LEICA GR50  
Satellite System : GPS+GLO+GAL+BDS  
Serial Number : 1830348  
Firmware Version : 4.31 / 7.403  
Elevation Cutoff Setting : 0 DEG  
Date Installed : 2019-02-04T10:20Z  
Date Removed : 2022-10-04T08:26Z  
Temperature Stabiliz. : NONE  
Additional Information :

3.14 Receiver Type : LEICA GR50  
Satellite System : GPS+GLO+GAL+BDS  
Serial Number : 1830348  
Firmware Version : 4.60.259 / 7.811  
Elevation Cutoff Setting : 0 DEG  
Date Installed : 2022-10-04T08:30Z  
Date Removed :  
Temperature Stabiliz. : NONE  
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

4.1 Antenna Type : LEIAT503 LEIC  
Serial Number : 3036  
Antenna Reference Point : TOP  
Marker->ARP Up Ecc. (m) : 0.1880  
Marker->ARP North Ecc(m) : 0.0000  
Marker->ARP East Ecc(m) : 0.0000  
Alignment from True N : 0  
Antenna Radome Type : LEIC

Radome Serial Number :  
 Antenna Cable Type : UNKNOWN  
 Antenna Cable Length : 30  
 Date Installed : 2006-07-27T10:00Z  
 Date Removed : 2009-08-25T08:13Z  
 Additional Information : ANTENNA ABSOLUTE CALIBRATED (ROBOT) BY GEO++  
 GMBH GARBSEN GPS-WEEK 1089

4.2 Antenna Type : LEIAT504GG NONE  
 Serial Number : 200282  
 Antenna Reference Point : BPA  
 Marker->ARP Up Ecc. (m) : 0.1920  
 Marker->ARP North Ecc(m) : 0.0000  
 Marker->ARP East Ecc(m) : 0.0000  
 Alignment from True N : 0  
 Antenna Radome Type : NONE  
 Radome Serial Number :  
 Antenna Cable Type : UNKNOWN  
 Antenna Cable Length : 30  
 Date Installed : 2009-08-25T10:01Z  
 Date Removed : 2014-05-06T08:00Z  
 Additional Information : ANTENNA ABSOLUTE CALIBRATED (ROBOT) BY GEO++  
 GMBH GARBSEN (LEIAT504GG+DFB\_\_NONE) GPS-WEEK 1448

4.3 Antenna Type : LEIAR25.R4 LEIT  
 Serial Number : 725519  
 Antenna Reference Point : BPA  
 Marker->ARP Up Ecc. (m) : 0.0786  
 Marker->ARP North Ecc(m) : 0.0000  
 Marker->ARP East Ecc(m) : 0.0000  
 Alignment from True N : 0  
 Antenna Radome Type : LEIT  
 Radome Serial Number :  
 Antenna Cable Type : UNKNOWN  
 Antenna Cable Length : 30  
 Date Installed : 2014-05-06T16:00Z  
 Date Removed :  
 Additional Information : ANTENNA ABSOLUTE CALIBRATED BY  
 ANTENNENMESSKAMMER BONN (LEIAR25.R4\_\_\_\_\_LEIT) GPS WEEK 1730

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.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)  
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 : 2006-07-27T10:00Z  
Notes : NONE

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

8.1.1 Humidity Sensor Model : HMP45A-P  
Manufacturer : VAISALA OYI, FINNLAND  
Serial Number : A3720002  
Data Sampling Interval : 600  
Accuracy (% rel h) :  
Aspiration :  
Height Diff to Ant :  
Calibration date :  
Effective Dates :  
Notes :

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)

8.2.1 Pressure Sensor Model : PTU200 PTU transmitter  
Manufacturer : VAISALA OYI, FINNLAND  
Serial Number : A2520001  
Data Sampling Interval : 600  
Accuracy :  
Height Diff to Ant :  
Calibration date :  
Effective Dates :  
Notes :

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)

8.3.1 Temp. Sensor Model : PTU200 PTU transmitter  
Manufacturer : VAISALA OYI, FINNLAND  
Serial Number : A2520001  
Data Sampling Interval : 600  
Accuracy :  
Aspiration :  
Height Diff to Ant :  
Calibration date :  
Effective Dates :  
Notes :

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

9.1.1 Radio Interferences : UNKNOWN  
Observed Degradations :  
Effective Dates :  
Additional Information :

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)

9.2.1 Multipath Sources : UNKNOWN  
Effective Dates :  
Additional Information :

9.2.x Multipath Sources : (METAL ROOF/DOME/VLBI ANTENNA/etc)  
Effective Dates : (CCYY-MM-DD/CCYY-MM-DD)  
Additional Information : (multiple lines)

9.3.1 Signal Obstructions : UNKNOWN  
Effective Dates :  
Additional Information :

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.x Date : (CCYY-MM-DD/CCYY-MM-DD)  
Event : (TREE CLEARING/CONSTRUCTION/etc)

## 11. On-Site, Point of Contact Agency Information

Agency : LANDESAMT FUER VERMESSUNG UND  
GEOBASISINFORMATION RHEINLAND-PFALZ  
Preferred Abbreviation : LVERMGGEORP  
Mailing Address : VON-KUHL-STRASSE 49  
: 56070 KOBLENZ  
Primary Contact  
Contact Name : SAPOS-Team Rh1.-Pf.  
Telephone (primary) : 0049261492123



Telephone (secondary) :  
Fax : 0049261492492  
E-mail : sapos@vermkv.rlp.de  
Secondary Contact  
Contact Name : SAPOS-Team Rh1.-Pf.  
Telephone (primary) : 0049261492123  
Telephone (secondary) :  
Fax :  
E-mail : volker.schneider@vermkv.rlp.de  
Additional Information :

12. Responsible Agency (if different from 11.)

Agency :  
Preferred Abbreviation :  
Mailing Address :  
Primary Contact  
Contact Name :  
Telephone (primary) :  
Telephone (secondary) :  
Fax :  
E-mail :  
Secondary Contact  
Contact Name :  
Telephone (primary) :  
Telephone (secondary) :  
Fax :  
E-mail :  
Additional Information :

13. More Information

Primary Data Center : LVERMGEORP  
Secondary Data Center : LGN  
URL for More Information : <http://www.lvermgeo.rlp.de>  
Hardcopy on File  
Site Map : Y  
Site Diagram : N  
Horizon Mask : N  
Monument Description : Y  
Site Pictures : Y  
Additional Information :  
Antenna Graphics with Dimensions