

First ideas for web pages dedicated to EPN
densification

Philosophy – 3 *'classes'* of stations

- EPN stations (green)
- Densification stations (orange):
 - In densification solution
 - Operational Center form includes the stations
 - Site log available from EPN CB
- Proposed densification stations (gray):
 - In densification solution
 - No metadata stored or maintained at EPN CB

Example – OC form ICGC

```
Contact Name      : David Gomez
Telephone         : +34 935 671 500
Fax               : +34 935 671 567
E-Mail            : david.gomez@icgc.cat

Third Contact
Contact Name      :
Telephone         :
Fax               :
E-Mail            :

Central computer (CC): Intel Xeon
Operation system   : Windows Server 2003

Data uploaded to   : BKGE, BKGI, OLG and ICGC
Link               : Internet
Upload time        : 00:05 UTC
Upload duration    : 10 minutes (whole network)

General remarks    :

Report generated   : 2014-10-31
Report updated     :
```

```
-----
SITES OPERATED     : AVEL BELL BEUD CASS CREU EBRE ESCO GARR LLEI LLIV MARE PLAN REUS SBAR SONA SORI
-----
```

```
Name              : Les Avellanes
4-char ID         : AVEL
DOMES Number      : 13440M001
Lat / E.Long / Ht(m) : +415253.78 / +0004501.91 / 00682.6
Operational since  : 1999-11-26
Link receiver -> CC : Internet
Data transferred   : raw data and compact rinex files
Transfer mode      : fully automatic
Transfer time      : real time
Transfer duration   :
RINEX converter    : Trimble GPSNet, RINEX Storage module
Additional remarks  : uploaded to ICGC
```











Includes
densification
stations


Densification site logs

Index of ftp://epncb.oma.be/pub/station/

 Up to higher level directory




Name

-  coord
-  densification
-  general
-  log
-  new
-  old
-  real_time
-  skl
-  tie
-  xml

 Index of ftp://epncb.oma.be/pub/station/densification/log/

 Up to higher level directory

Name

-  avel_20150203.log
-  beud_20150204.log
-  llei_20150204.log

Can now be uploaded and
maintained similar to EPN stations

http://epncb.oma.be/_densification/

EPN CB
HOME

EPN DENSIFICATION
HOME

EUREF PERMANENT NETWORK DENSIFICATION

ROB 
GNSS RESEARCH GROUP
EUREF 

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Station list | Maps | Proposed | Station Log Submission

Coordinates & velocities | Time Series

ORGANISATION > **CONTRIBUTORS**

OPERATIONAL CENTRES

CRS (Centro di Ricerche Sismologiche -)	David Zuliani , Alberto Michelini , Maurizio Battaglia
ELB (Estonian Land Board)	Karin Kollo , Ahti Bloom
ICGC (Institut Cartografic i Geologic de Catalunya)	Ernest Bosch , David Gomez

ANALYSIS CENTRES



http://epncb.oma.be/_densification/

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NETWORK > STATION LIST

Below the list of stations included in the last EPN densification solution. The stations in grey have not yet submitted a site log to EPN CB and are therefore still "Proposed densification stations". The stations in orange are the EPN densification stations for which all meta-data are available from the EPN CB.

View  all stations

● only proposed densification stations

only densification stations

AUSTRIA (AT)

AZERBAIJAN (AZ)

BAKU

BOSNIA AND HERZEGOVINA (BA)

PULCARTA (POL)

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View ☐ all stations
☐ only proposed densification stations
☒ only densification stations

SPAIN (ES)

| [AVAL](#) | [BEUD](#) | [LLEI](#) |



INTERACTIVE MAP

Legend



Locate station on map

- Select a station -

Station criteria selection

Countries:

ARMENIA
AUSTRIA
AZERBAIJAN
BELGIUM
BOSNIA AND HERZEGOVINA
BULGARIA
CROATIA
CYPRUS
CZECH REPUBLIC
DENMARK
EGYPT
ESTONIA
FAROE ISLANDS
FINLAND
FRANCE
GERMANY
GREECE
GREENLAND
HUNGARY
ICELAND

Update map



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NETWORK > STATION LIST > **BEUD (Beuda, Spain)**

LOCATION



- BEUD (Beuda, Spain)
- other EPN densification stations from the same operational centre
- EPN stations from the same operational centre

LOG FILE

beud_20150204.log (current)

OPERATIONAL CENTRE

ICGC : Institut Cartografic i Geologic de Catalunya (Spain)

OTHER STATIONS FROM THE SAME OPERATIONAL CENTRE

EPN DENSIFICATION STATIONS

AVEL, CASS, GARR, LLEI, MARE, PLAN, REUS, SBAR, SONA, SORI

EPN STATIONS

BELL, CREU, EBRE, ESCO, LLIV

DATA PROCESSING

EUREF PERMANENT NETWORK

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DATA ANALYSIS > ANALYSIS CENTRES

AGR

AGR

APEL	BORJ	BORK	BRUS	BRUX	CABW	DELF	DLFT	EIJS	EUSK	HELG	HERS	IJMU	KOS1	KOSA
KOSG	MORP	ONSA	POTS	TERS	VLIE	VLIS	WSRA	WSRT	WTZR	ZIMM				

ASG

ASG

0014	0017	0022	0026	0139	0147	0781	BART	BIAL	BILG	BOGI	BOGO	BOR1	BPD1	BRSK
BUDP	BUZD	BYDG	CBKA	CBRU	CCHN	CFRM	CHEL	CHNO	CHOJ	CLIB	CPAR	CSUM	CSVI	CTRU
DRWP	DZIA	ELBL	GANP	GDAN	GIZY	GLOG	GLSV	GNIE	GOL	GOPE	GRAJ	GRAZ	GRUD	GWWL
HAJN	HOZD	HRUB	ILAW	JLGR	JOZ2	JOZE	KALI	KAM1	KAMP	KATO	KEPN	KLCE	KLDZ	KLOB
KONI	KOSC	KOSZ	KRA1	KRAW	KROS	KROT	KURE	KUTN	KUZA	LAMA	LEGN	LELO	LESZ	LIE1
LODZ	LOMZ	LUBL	METS	MIEL	MIES	MIMA	MLCN	MRJM	MYSZ	NODW	NTML	NWSC	NWT1	NWTG
NYSA	OLST	ONSA	OPL	OPLU	OSMZ	PENC	PITR	POLV	POTS	POZN	PPIL	PROS	PRZM	RADM
REDZ	RIGA	RWMZ	RYKI	SASS	SIDZ	SIED	SIPC	SKSK	SKSL	SKSV	SOCH	SOKL	STRG	SULP
SWIB	SWKI	SZE2	SZEK	TABG	TAR1	TARG	TORU	TRNW	USDL	UZHL	VARE	VEIS	VISO	VLNS
WAT1	WAT2	WIEL	WLAD	WLBR	WLDW	WLOC	WODZ	WRKI	WROC	WTZR	ZARY	ZIGR	ZYWI	

BGF

BGF