

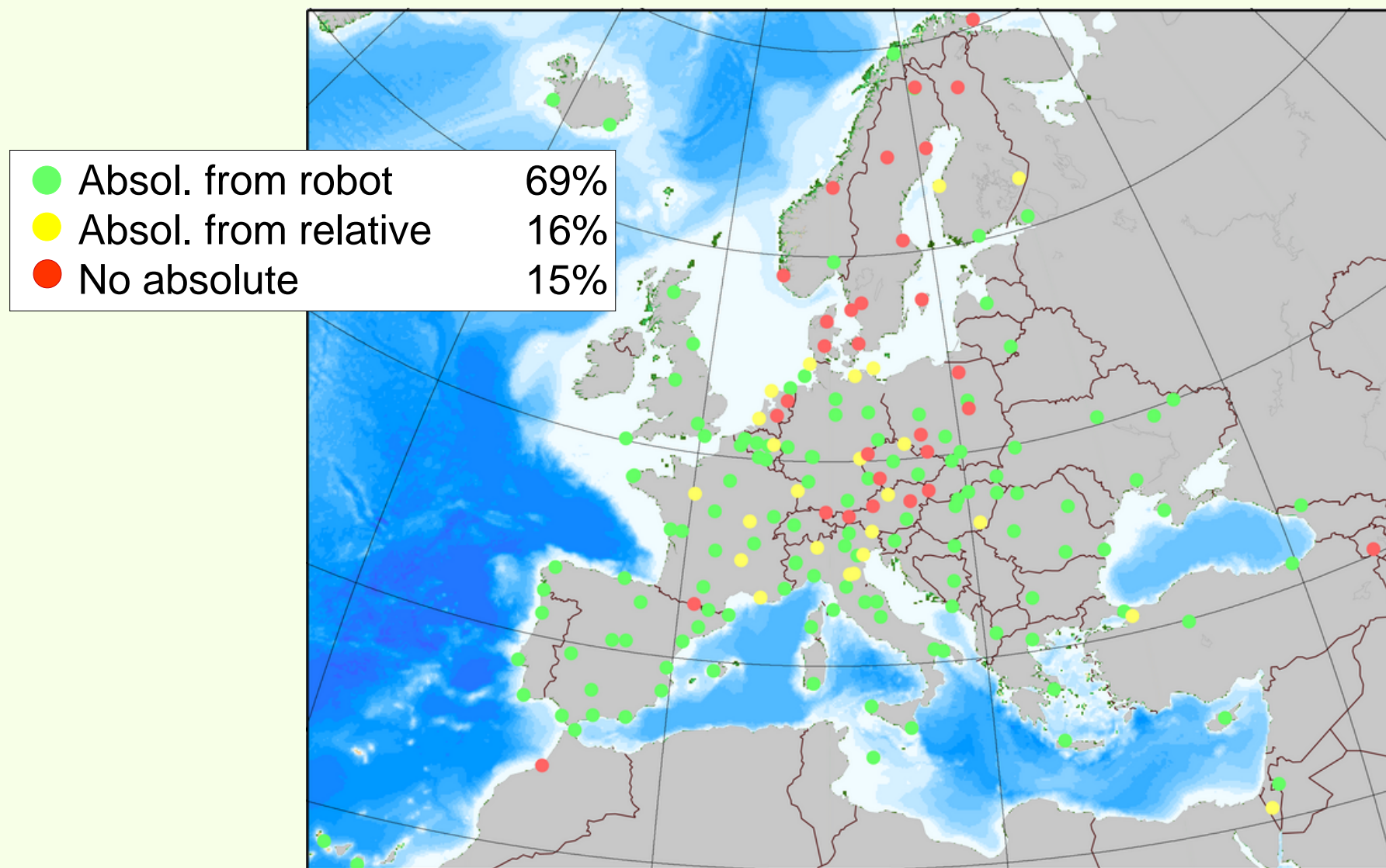
# Update of EPN Guidelines

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## NEED FOR

1. Guidelines for real-time data streams, details in paper, send comments to C.Bruyninx
2. Promote multi-GNSS equipment, but do not touch antenna unless really necessary, see 2.1.7
3. Recommendations for new antenna/radomes or antenna/radome replacements, see 2.1.20, 2.1.26
  - Need for long-term vision

# CALIBRATIONS OF EPN ANTENNAE



## IGS APPROACH

### IGS equipment: antenna/radome calibrations in IGS ATX file

- Absolute calibrations
  - ✓ converted from old relative values (elev dependency, not below  $10^\circ$ )
  - ✓ GEO++ (elev+azimuthal dependency)
- GEO++ has given the IGS permission to make available at IGS CB, absolute calibration values for antenna/radomes belonging to IGS
- Absolute calibrations for antenna/radome included in the EPN, but not in IGS, cannot be published by IGS, not EPN (GEO++)

## EPN OPTIONS

- **Use in EPN, only antenna/radomes accepted by IGS**
  - If antenna/radome combination not in IGS APC file, then use calib for antenna only if in IGS APC file
  - If antenna not in IGS APC file, do not use at all

ADV: Complete consistency with IGS approach

DISADV:

- Some antenna/radome combinations cannot be used in EPN because they are not (yet) used in IGS, even if absolutely calibrated by GEO+
- red/yellow dots will not disappear from map!

- **Use different approach from IGS**

Use IGS ATX complemented with missing EPN antenna/radomes

ADV: EPN can integrate new equipment, even if not (yet) in IGS

DISADV: Need to maintain EPN-specific APC file, no guarantee IGS will use same APC as EPN, complicated for users

## PROPOSED APPROACH

### Today:

*requirement* for new stations and antenna/radome replacements :  
antenna+radome must have true indiv. absolute antenna calibrations or true absol. Calibr. available from IGS

### exceptions allowed for

- radomes where the effect on the APC is negligible or antenna radome combinations that cannot be calibrated and for which an on-site relative antenna calibration shows this is indeed the case
  - , then antenna (without radome) needs true absolute calibrations at IGS
  - stations that provide a clear added-value to EPN
  - Antenna/radome combinations that cannot be calibrated
  - Proof using on-site calibrations that
- + EUREF mail to explain long-term vision

MM/2007: End of period with exceptions?