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Trimble





Presentation Outline

- **1**-Introduction
- 2- GNSS Softwares
 - **2.1.** Bernese v5.2
 - 2.2. Web-Based PPP Services
- 3. Aplication
- 4. Results





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1- Introduction

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-Introduction











-Introduction







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2- GNSS Softwares

Scientific and web-based software can be used in evaluating GNSS measurements to obtain PPP coordinates.





2- GNSS Softwares







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3- Application



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3- Application

| Used software | Difference statistics | 1 cm | 2 cm | 3 cm | 4 cm | 5 cm |
|-----------------|--------------------------|-------|-------|------|------|-------|
| Bernese v5.2 | Max (mm) | 6.8 | 10.9 | 12.0 | 7.1 | 10.3 |
| | Min (mm) | - 8.8 | -10.4 | -6.1 | -4.3 | -7.9 |
| CSRS-PPP | Max (mm) | 6.4 | 2.7 | 4.0 | 4.1 | 3.1 |
| | Min (mm) | -6.7 | -5.8 | -5.2 | -8.5 | -6.0 |
| Magic GNSS | Max (mm) | 3.9 | 3.1 | 6.3 | 2.2 | 2.5 |
| PPP | Min (mm) | -9.3 | -8.1 | -6.2 | -6.6 | -10.5 |



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3- Application

| Used software | 1cm | 2 cm | 3 cm | 4 cm | 5 cm | | | | |
|---------------------------------------|-----------|-----------|-------------|-------------|-------------|--|--|--|--|
| Bernese v5.2 | ±3.3 | ± 5.5 | ± 4.4 | ± 2.1 | ± 5.4 | | | | |
| CSRS-PPP | ± 2.0 | ± 1.1 | ± 1.2 | ± 2.3 | ± 1.6 | | | | |
| Magic GNSS PPP | ±2.5 | ±2.2 | ± 2.2 | ± 1.8 | ±3.7 | | | | |
| The units of numerical values are mm. | | | | | | | | | |



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3- Application





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3- Application







3- Application







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4- Results

Depending on the technology that has evolved in recent years, it is possible to determine the point locations with a single GNSS receiver in cm / dm accuracy.

Coordinates obtained after the evaluation were compared with 1 cm, 2 cm, 3 cm, 4 cm and 5 cm differences.





4- Results

In conclusion, it is observed that at 1 cm, 2 cm, 3 cm and 5 cm, the best results were obtained by CSRS PPP, Magic GNSS and Bernese v5.2 GNSS software, respectively. Also for 4 cm, the best results were given by the Magic GNSS method, Bernese v5.2 GNSS software and CSRS PPP, respectively.









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