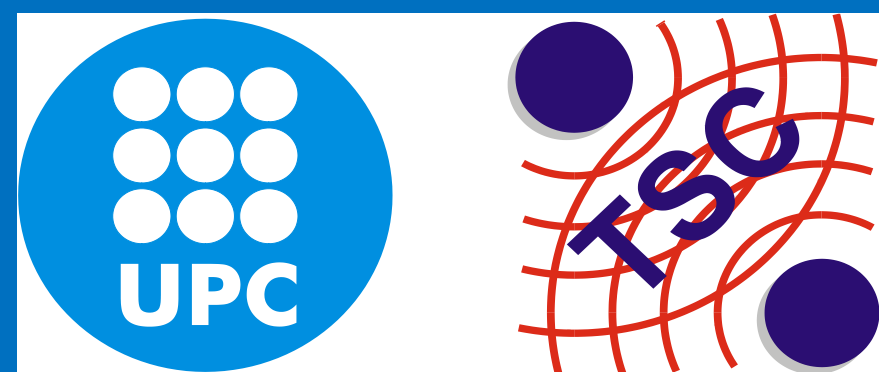


THE PAU/PARIS END-TO-END PERFORMANCE SIMULATOR (P²EPS)

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INTRODUCTION

GNSS-R spaceborne mission analysis requires simulation of measurements including whole range of conditions and parameters affecting the observations. The PAU/PARIS End-to-end Performance Simulator (P²EPS) has been developed to meet these requirements.

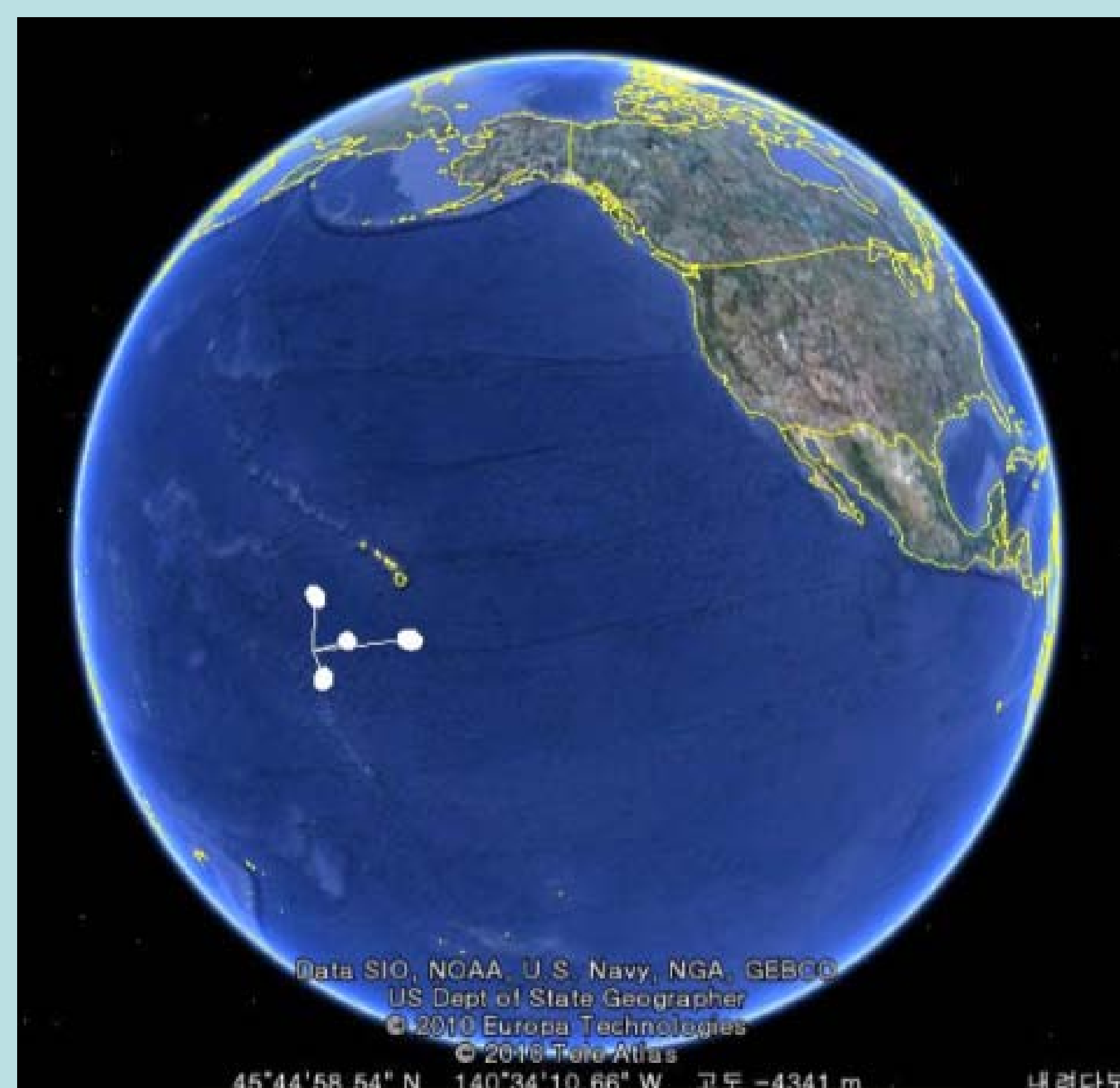
MOTIVATION / OBJECTIVES

- To fully understand GNSS-R measurements
- To simulate parameters affecting the GNSS-R measurements
- To simulate spaceborne GNSS-R missions
- To provide useful analysis tools to engineers and scientists

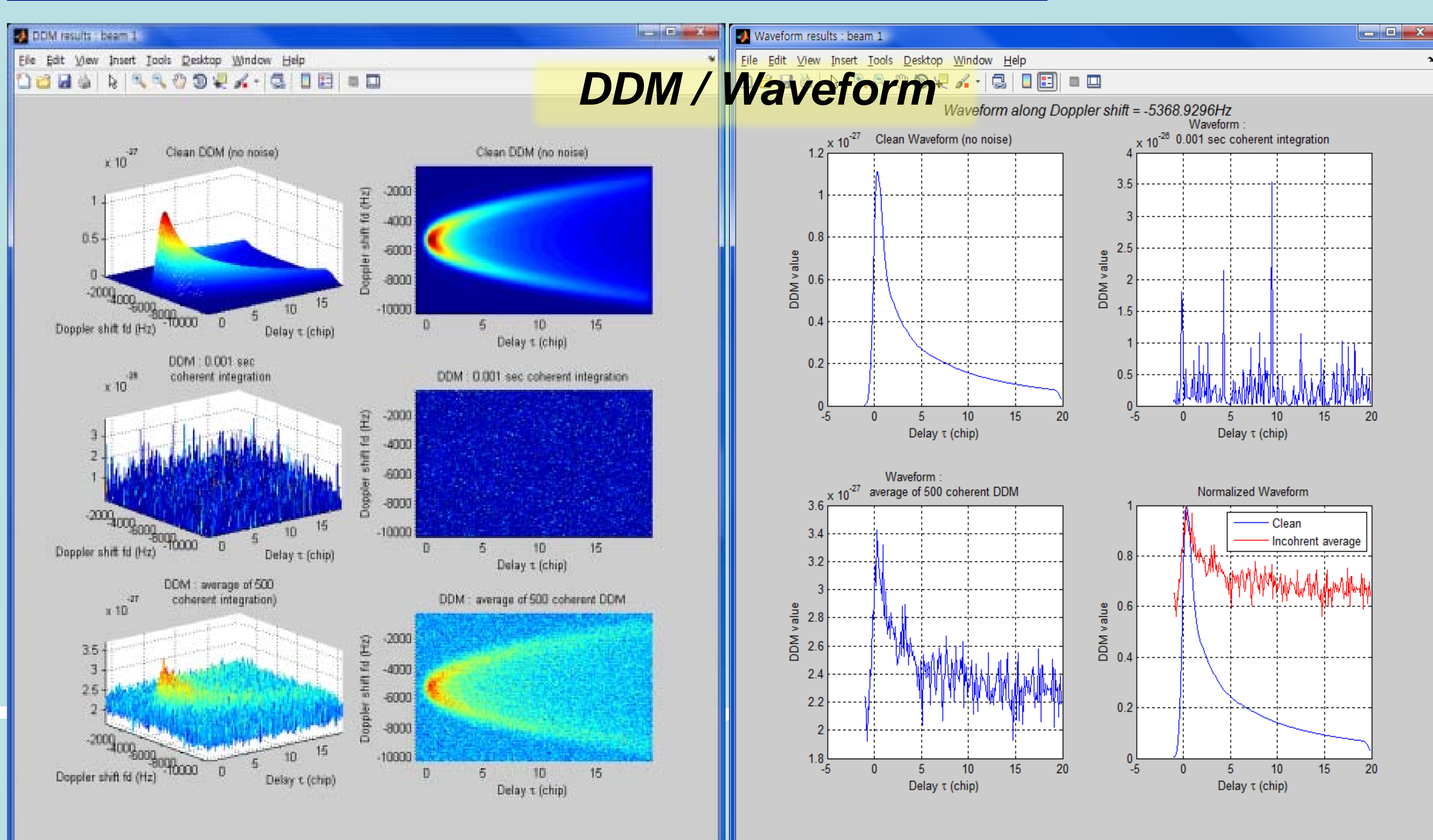
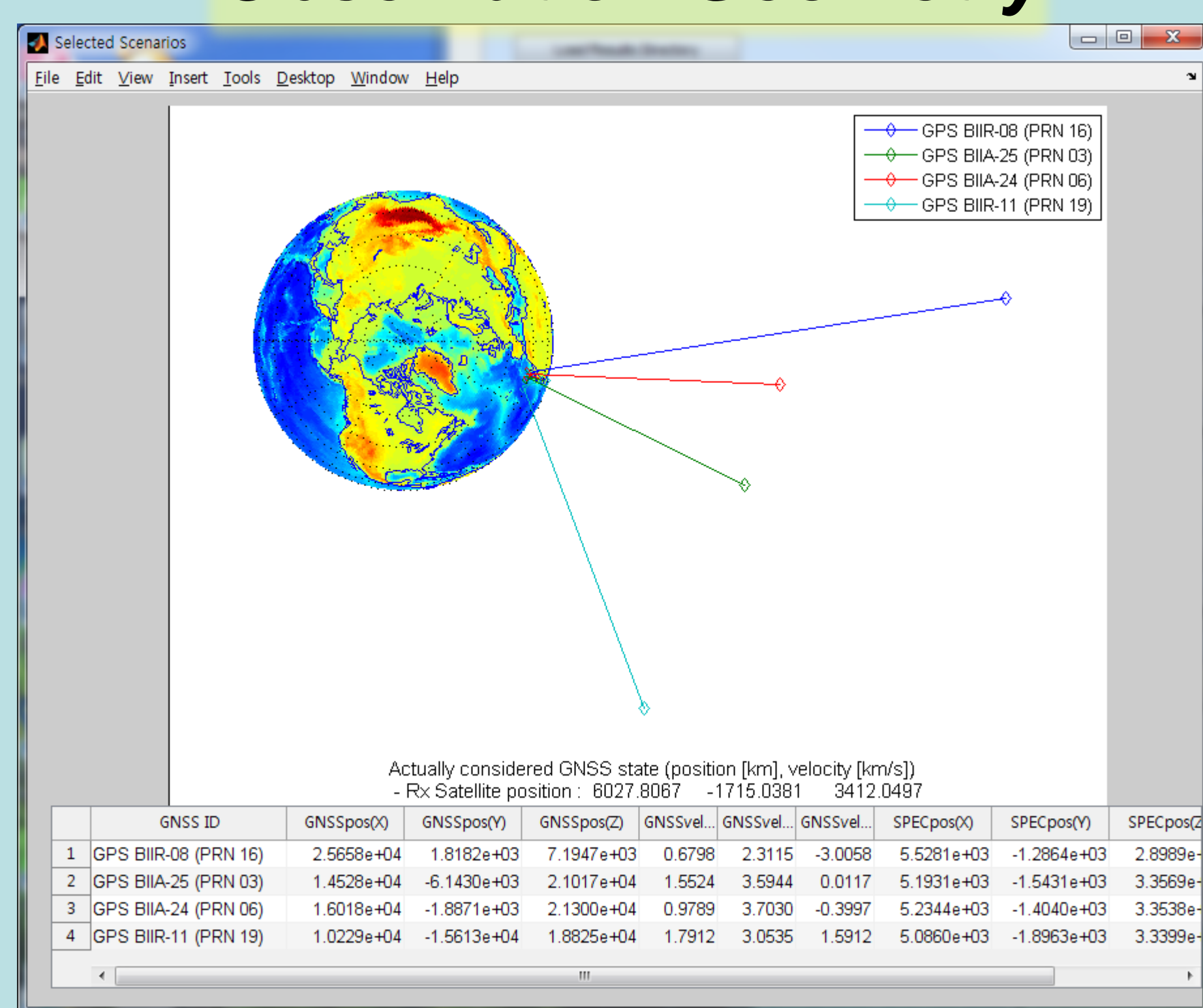
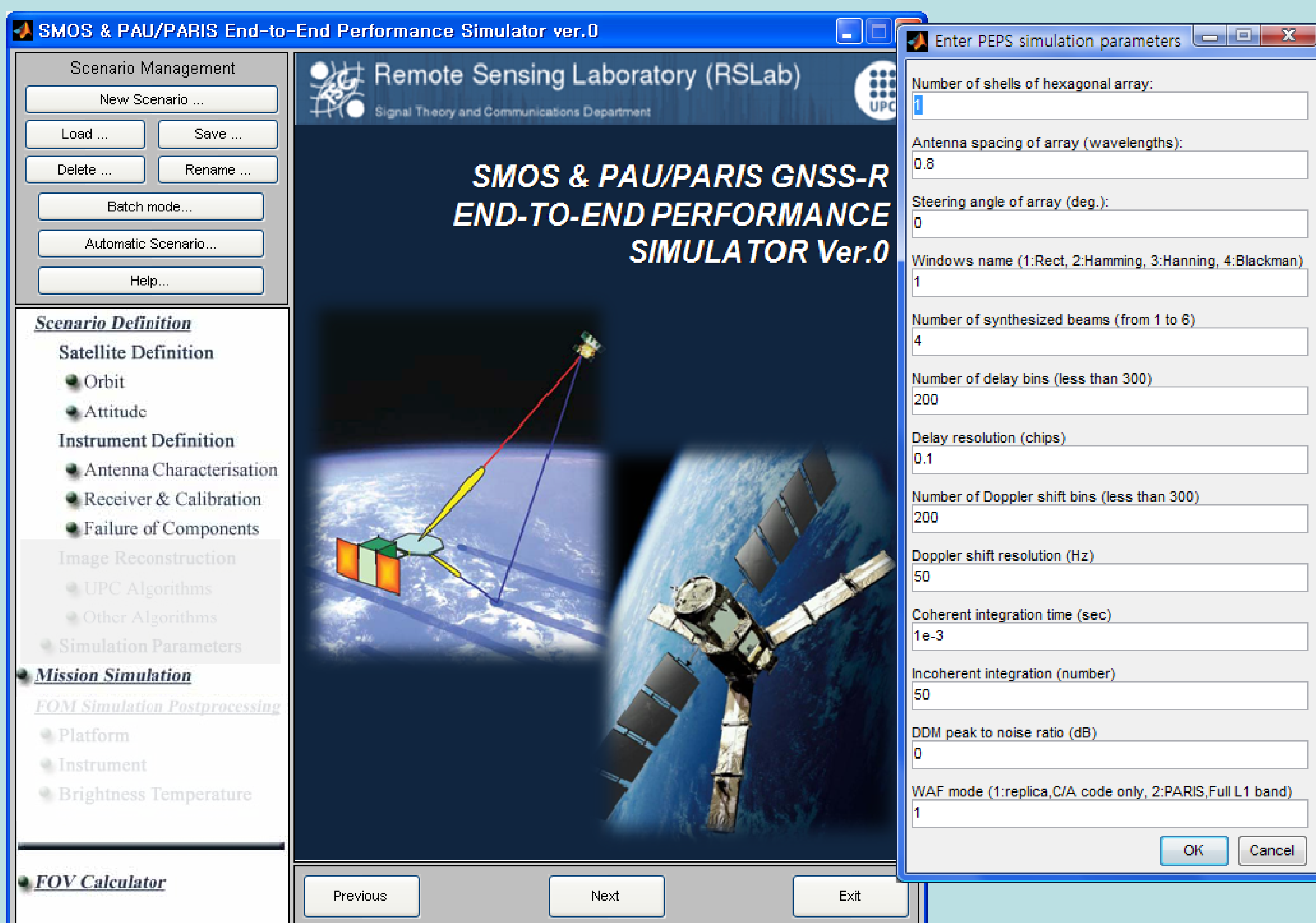
FEATURES

- User friendly GUI
- Various types of simulation parameters
- Global geophysical parameters database
- Fast computation
- Comprehensive graphical output display

Input GUI



Observation Geometry



APPLICATIONS

- Mission analysis / planning
- Simulate the hardware effects on delay Doppler maps and waveforms
- Study of relationship between GNSS-R observables and geophysical variables

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