

# OLYMPEX – A Ground Validation Field Campaign on the Olympic Peninsula in the Pacific Northwest

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## Overview

During the 2016 water year (Fall 2015 – Winter 2016), a Ground Validation Field Campaign for the Core satellite of the Global Precipitation Measurement (GPM) will occur on the Olympic Peninsula. The main purpose will be to validate the algorithms for the GPM Microwave Imager (GMI) and the Dual Frequency Precipitation Radar (DPR) for precipitation (both frozen and liquid) in the midlatitudes in a region of complex terrain, with transition from ocean to coast to land.

## Science Focus

Several important scientific issues will be addressed with the measurements obtained during the field campaign. These include:

- Physical validation of algorithms
- Rain and snow mechanisms in complex terrain
- Hydrological applications of the GPM measurements
- Numerical modeling of precipitation processes and algorithm physics

