

# Agenda for Jan 2015 OLYMPEX meeting – Version 2

## Wednesday AM

### 1. Opening Remarks (Houze)

- GPM and GV objectives, general (Skofronick-Jackson)
- RADEX objectives (Mace)
- Agenda for this meeting (Houze)
  - Timing of soundings and aircraft missions
  - Personnel
  - Aircraft tracks
  - Radar scanning and location
  - Extra dual rain gauge locations
- OLYMPEX Facilities update (Houze)
  - Ops center
  - Surface sites and trailer
  - Sounding units
  - Radars
  - Aircraft
  - Regional modeling

### 2. Overview of expected weather during OLYMPEX (McMurdie)

- Overview of large-scale flow regimes
- Storm sectors
  - Prefrontal
  - Frontal
  - Postfrontal
- Geographical regions
  - Ocean to the west
  - Windward side of Olympic Mts. (Quinault Valley)
  - High terrain of Olympics (snowfield)
  - Leese of the Olympics (Hurricane Ridge, Strait of Juan de Fuca)
  - Low terrain south of Olympics (Chehalis River basin)

### 3. Specific GV objectives to be accomplished in OLYMPEX (McMurdie/Houze)

- Precipitation and microphysics as function of storm sector and terrain)
- Melting level character and variability
- Hydrological responses
- Snowpack build up and melt off during the full winter season

#### 4. Ground instrumentation deployment (McMurdie)

- Quinault River area (Zagrodnik)
  - Along Quinault River
  - Near Quinault River
  - Trailer tests being carried out at Snoqualmie this year
  - Enchanted Valley deployment

### Wednesday PM

#### 5. Ground instrumentation deployment continued (McMurdie)

- High terrain & leese side
  - Tests of snow cameras and mention Laser Flights (Lundquist)
  - Hurricane Ridge deployment (Zagrodnik)
  - SNOTEL and Snow Courses (Pattee)
- Chehalis River area
  - Rain gauge network (Nijssen)
- Additional considerations (McMurdie)
  - Extra dual gauges
  - Maintenance
  - Data recording and transmission
  - Personnel

#### 6. Rawinsonde Plan—Quinault area and Vancouver Island (Houze)

- Timing
- Location
- Personnel

### Dinner – Ivars Salmon House (6:30pm)

### Thursday AM - Radar

#### 7. Radar Plan (Houze)

- NPOL and D3R (Petersen)
  - Site and Installation
  - Scanning strategy (Brodzik)
  - Dual Pol in NW environment (Dolan)
- MRRs (Petersen)
  - Where should the 4<sup>th</sup> be deployed?
- Canadian x-band (Hudak)
  - Installation
  - Scanning strategies
- DOW (Houze/Wurman)
  - Location
  - Scanning strategies

- Personnel – DOW/NPOL (Houze)

## Thursday PM

### 8. Aircraft operations (Houze)

- Aircraft staging, locations and operational factors
  - DC8 and ER2 (Jennison)
  - Citation (Poellet)
- Aircraft instrumentation (Houze)
- Aircraft flight strategies (Houze/Mace)
  - OLYMPEX flight objective
  - RADEX flight objective
  - GPM underflights
  - Surface emission
  - Coordination of aircraft

## Friday AM

### 9. Field operations (Houze)

- Basic infrastructure
  - Ops center layout (McMurdie or Houze)
  - Communications infrastructure (Brodzik, UW IT staff)
- Project personnel
  - Lead mission coordinator at ops center
  - Lead scientists for aircraft, radars, and ground observations
  - Other personnel needs and sources
- Daily meeting and decision making
  - Flights
  - Radar operations
  - Sounding launches
  - Ground site status
  - Weather briefing and forecasting
  - Daily assessment of progress toward objectives
- Daily reports
  - Daily Science Summary
  - Individual platform reports
- Real-time and near real-time data availability at ops center
  - Web portals (UW and NASA)
  - Data uplinks from radar and other sites
  - Manual data downloading
- Data storage and archiving (Brodzik, Petersen)