KLGX
Langley Hill, WA
Low Elevation Angle Test

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NEXRAD Technical Advisory Committee
• Land Lease Pending

• New angle less than 0.5° and not below 0.0°

• Angle will be based on environmental assessment by SRI

Expected Benefits:
- Improved coverage over marine layer
- Improved detection of low pressure systems and fronts
- Improved precip estimates at longer ranges

• Experimental VCPs (containing new angle) translated to standard VCPs for processing by the Operational RPG.
  - Experimental VCP data disseminated via Level II

Impacted NWS Offices:
WFOs Seattle and Portland
Seattle CWSU
Northwest River Forecast Center (Portland)
KLGX – Langley Hill, WA
0.5 degree Coverage

Image: Ron Guenther
KLGX – Langley Hill, WA

- Low Angle Test for 1 year
- KLGX will retain entire suite of network-wide VCPs
- Corresponding Experimental VCP (with new angle) for each standard Clear Air and Precip mode VCP
- Lower angle data only distributed as Level II Base Data to NWS LDM server
- Lower angle products not distributed to AWIPS, WARP, or other displays
- Products in AWIPS will appear to be from standard VCPs
KLGX – Langley Hill, WA

Operational: Fall 2011

• RPG Clone will provide WFOs Seattle & Portland with lower angle data

• AWIPS Clone will enable the WFOs to view base & derived products with/without new angle

• AWIPS Clone not operational, only for data evaluation

• Seattle CWSU and Northwest RFC will need Gibson Ridge Level2 (or NOAA Weather & Climate Toolkit) software to view

• Level II data archived at NCDC

• Level III products generated without use of new angle

• VCP durations increase 30 sec to 2.5 minutes
KLGX Data Flow

WFO Seattle
KLGX RPG
Translator RPG

MSCF, T1 line

Level III Data

NEXRAD AGENCIES

AWIPS
products not including scan less than 0.5 deg

Central Server

WFOs, RFC, CWSU

AWIPS Clone, GRLevel2
Or other Software package to display elevation angles less than 0.5 deg

NWS Level II Network

Other Level II Users
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