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## Oregon Real-time GNSS Network Update

OGUG Annual Meeting 14 June, 2019



Recon

#### Oregon Department of Transportation

Installation



Support Randy Oberg & Eric Zimmerman

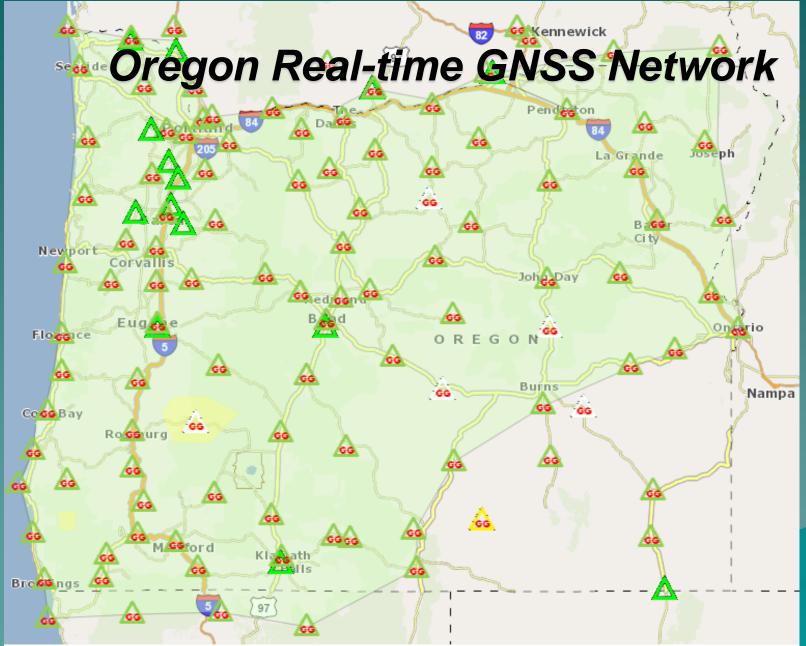
### Maintenance

# Monitoring



#### Kennewick Oregon Real-time GNSS Network Pendecon GG Da GG Joseph La Grande GG GG GG BGGG City Newport Corvallis John Day ĠG 66 66 Euga Oncerio Flocarce OREGON GG Boise Burns GG Nampa Co og Bay GG Rocourg GG ath Bredit ags 66 97 GG 66 CALIFORNIA NEVADA









# **ORGN Facts**

How many Stations in the ORGN network?

- 112 Stations (40 ODOT Owned)
- 98 In the Network (104 in July)
- 14 Redundant
- 5 Planned
- How many ORGN stations are NGS CORS?
  - 22 CORs
  - 16 in the Network
  - 6 Redundant
- How many ORGN stations are GLONASS?
  - 93 Total (95 with STAY and WDBN)
  - 88 in network





### NTRIP Products 167.131.109.57

### Port 9879

– All single-base correctors by name: both GPS-only and GG.

### Port 9881

 Network (multi-base) & nearest-single-base correctors: all are GPS-only

### Port 9882

 Network (multi-base) & nearest-single-base correctors: all are GG

### Let the Geodetic Group know if we are missing any you need





## **Additional Resources**

- Post Processing Data
  - 5 sec RINEX, self serve on the web page ftp
  - Data by request (1 sec archived)
    - ◆ Leica .m00
    - ♦ Septentrio .sbf
    - ♦ RINEX

 Coordinates for stations not in our network but computed in our network adjustment.





### **RINEX Request Form**



#### ORGN RINEX DATA REQUEST

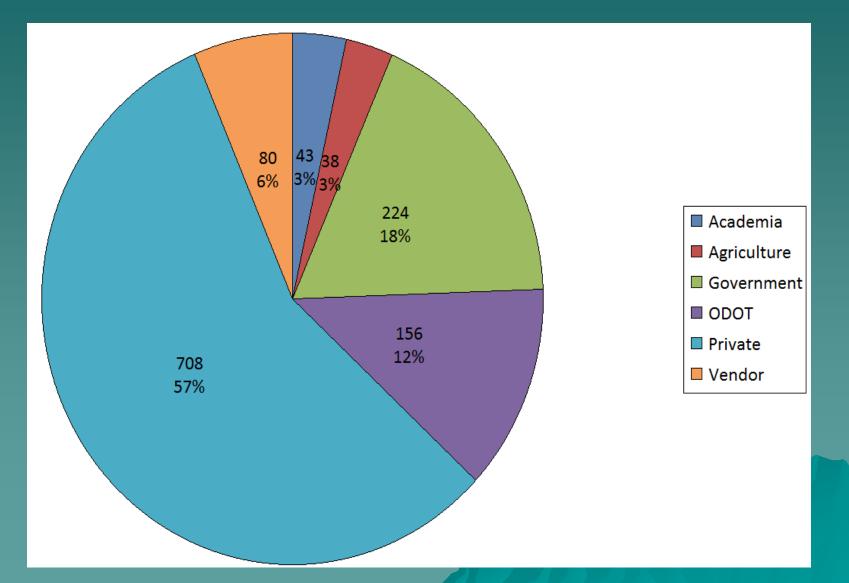
The Oregon Real-time GNSS Network is a partner based network with many contributors, if an ORGN partner is already providing RINEX files on-line for their site, we will not duplicate those RINEX files on the ORGN website and suggest you contact those partners for special data requests, however, we will provide a link to the partner's RINEX data, available by clicking the station on our <u>ORGN NAD83 (2011) epoch 2010.00 Coordinates</u> list or by using the <u>Geometronics Toolkit</u>. Most users will find the data they need at theorgn.net <u>RINEX Data Files</u> (One hour RINEX files collected at a 5 second epoch rate). For special data rates, specific duration periods, file sizes, please use the form below to request.

LAST NAME			FIRST NAME			TITLE	
COMPANY / AGENCY NA	ME					 COMPANY / AGENCY TYPE (SELECT ONE)	١.
STREET ADDRESS						PHONE	4
CITY				STATE	ZIP	MOBILE PHONE	4
				0.7.12			
E MAIL ADDRESS (CON			2)			FAX	4
E-MAIL ADDRESS (CONFIRMATION WILL BE SENT TO THIS ADDRESS)						F0A	
							Ļ
STATIONS REQUESTED	1						
DATA RATE			_				L
0.10 second	1 second	5 second	[	Other:			
FILE LENGTH							1
1 hour	12 hour	24 hour	[	Other:			
DURATION							-
Start date:		Start time:			End date:	End time:	
COMMENTS							Ī





### **Over 1000 Rover Accounts**







FAQs

- What is the difference between MAX & IMAX?
- How far outside of the network can you go and still get Correctors?
- How far away from the master station can I be and still get correctors?
- Why does my rover change master station (bounces between master stations)?
- Is there a way to get ORGN coverage when I have poor cell coverage?
- Do I need to use the ORGN to use the OCRS?





# The ORGN move to NATRF 2022

 The ORGN will change Realization from NAD83 2011 epoch 2010.00 within 6 months of NGS releasing NATRF2022

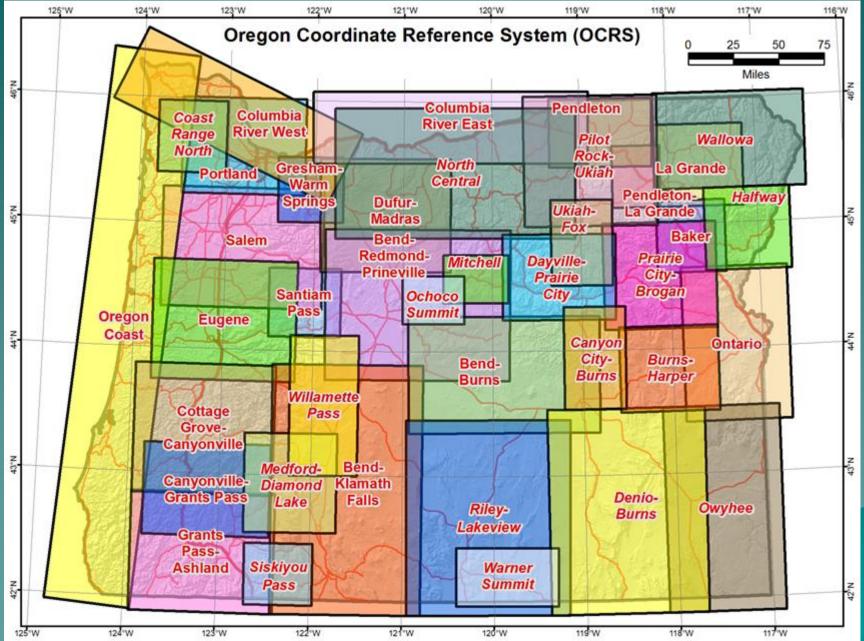
 The ORGN will be in line with the current National Spatial Reference System (NSRS)

 The ODOT will re-compute coordinates on all ORGN stations using OPUS Projects.

 Notifications will be made in advance concerning the date of the move to NATRF2022.

CIHE UNION









# **OCRS Committee Members**

- Joseph Thomas Chairman (ODOT)
- Randy Oberg (ODOT)
- Bradley Cross, Hood River County Surveyor (OACES)
- Kevin Samuel, Deschutes Deputy County Surveyor (OACES)
- Tim Fassbender (PLSO)
- John Putnam (PLSO)
- Brady Callahan (OGIC)





# **Questions?**

#### Oregon Real-time GNSS Network www.theorgn.net





