

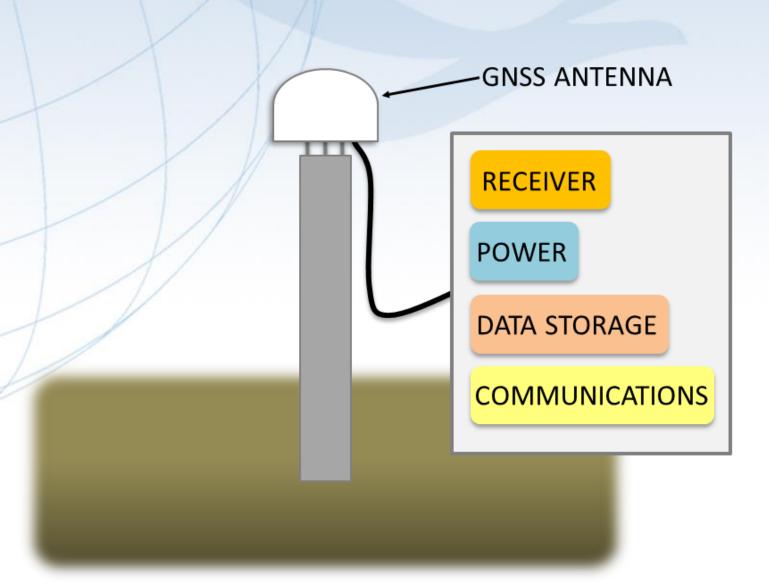
### Tying your non-NCN CORS to the NSRS

64<sup>th</sup> CGSIC Meeting September 2024

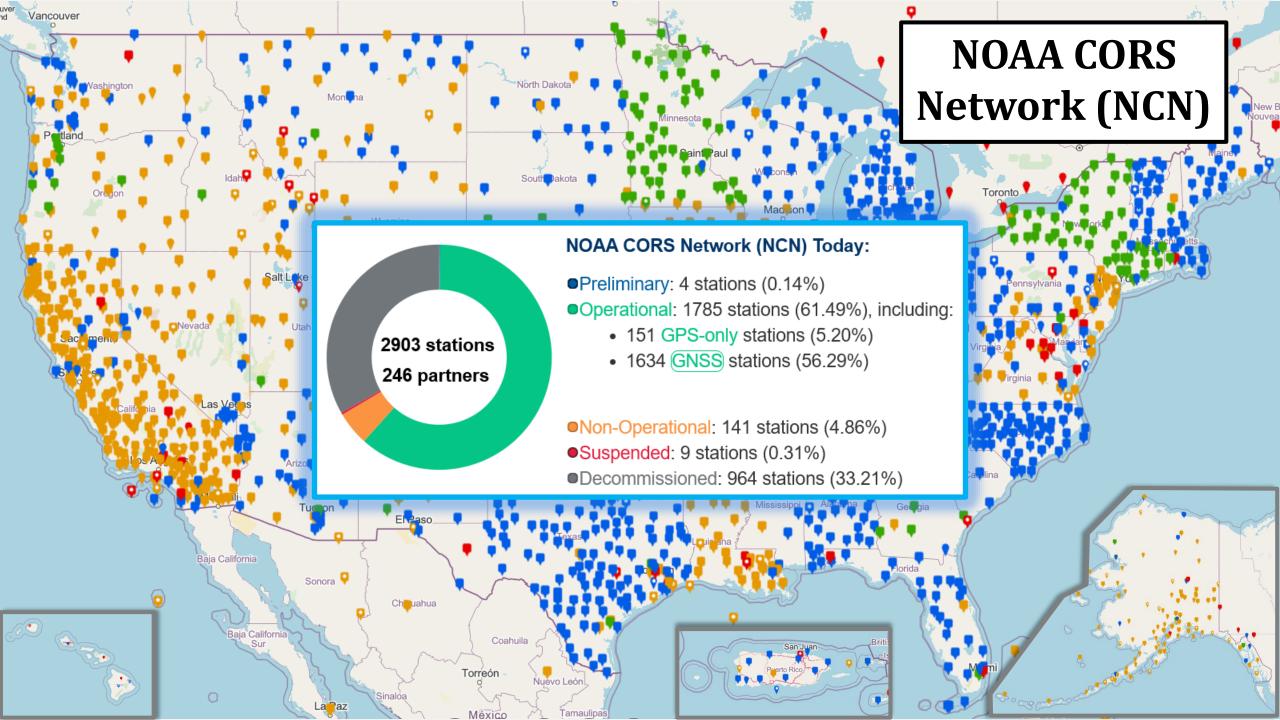
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## Continuously Operating Reference Station







# NCN Guidelines (Aug 2020)

#### **B.2.** Location, Obstructions and Radio Frequency Environment

Proposed CORS will be no closer than 70 km from an existing CORS (NGS Executive Steering Committee on 22 September 2012).

Exception to this minimum distance will be made on an individual basis based on two criteria:

- a) NOAA and other Federal agency needs
- b) Data quality of nearby CORS is poor compared to proposed site (See G)

Hyperlink →

**Guidelines for New and Existing Continuously Operating Reference Stations (CORS)** 

# How do you do this?



### **OPUS Projects 5.2**

National Geodetic Survey

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OPUS Projects provides simple management and processing tools for your survey projects involving multiple sites and multiple occupations. Advantages include:

- Customizable data processing via the PAGES software suite
- Visualization and management aids
- Adjustments tied to the National Spatial Reference System

#### Learn More:

- What is OPUS Projects? (video, 11:26)
- Training videos and calendar
- User Guide
- WinDesc Tutorial Video
- OP5 for GPSonBM2023
- WEBINAR: Using RTN Data in OP5 for GPSonBM

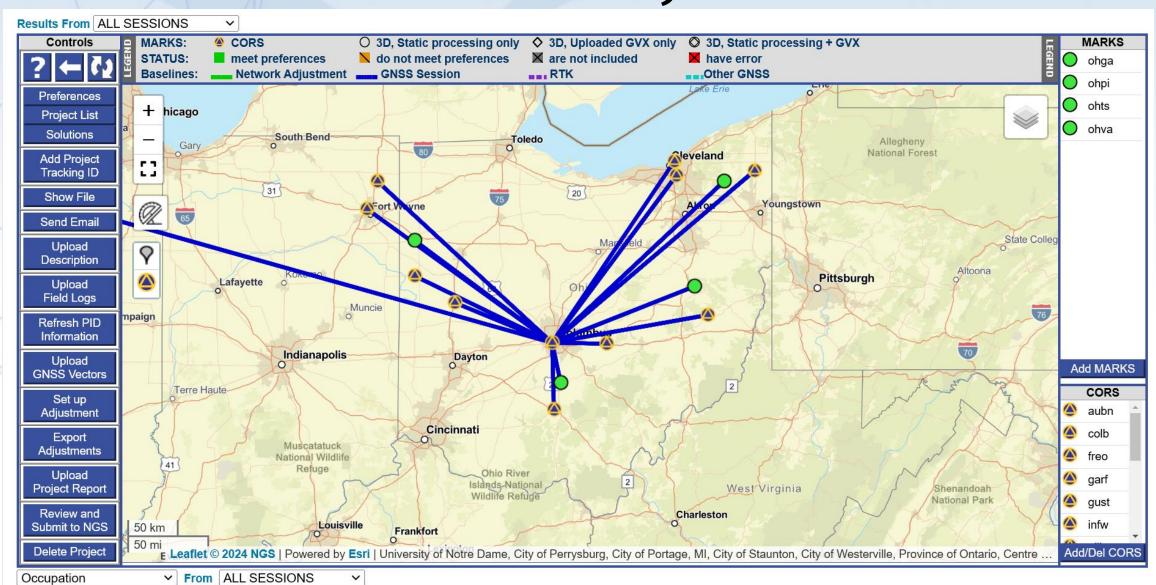
**OPUS** menu

home / upload

about OPIIS

If you're interested in submitting your project's results for publication in the NGS Integrated Database (IDB) and have not done so, please visit the NGS Survey Project Proposal web site to request a required project tracking number. In addition, for publication all survey marks must be described by creating description files in NGS software WinDesc.

# OPUS Projects



# What do you need?

- 1 or more CORS (not already in NCN)
- Photos of antenna setup
- 5 RINEX files of 24 hrs each
- Station Descriptions
  - Must be created using WinDesc software
- Project Report

### WinDesc

- NGS-supplied software
- Not only for Station Descriptions
- Standardizes project metadata
- Necessary to ensure data integrity
  - Prevents duplicate stations
  - Facilitates efficient review of projects

# WinDesc

Data Set Information - C:\Users\Jeff.Jalbrzikowski\Docum	ents\ODOT\bluebooking ODOT cGNSS\DESCRIPTIONS\ODOT_non ×	- 🗆 X
Job Code: OH Country: US V State:	Complete Descriptive Text of a Recovered Mark Not in the NGS IDB	sig ohts tuscarawas base arp
Agency Name: OHIO DEPARTMENT OF TRANS	Edit Insert Template Options Close Help	lias
Accession Code: GPS Vo.: 9764	Historical Descriptive Text New Descriptive Text	awas ∨ ☑ Load
C.O.P. Name:		O V GPS Y V ID OHTS
Proj Title: NON-NCN CORS BLUEBOOK PROJECT	THE STATION IS LOCATED ABOUT 10.2 KM (6.3 MI) SOUTH OF MIDDLEFIELD, 9.8	
Com:	KM (6.1 MI) NORTH-NORTHEAST OF GARRETTSVILLE AND 8.7 KM (5.4 MI) WEST- SOUTHWEST OF WEST FARMINGTON.	C.O.P. DJB VM
email:	THE STATION IS THE ANTENNA REFERENCE POINT OF THE GNSS ANTENNA. STATION IS LOCATED ON TOP OF A REPURPOSED ANTENNA TOWER, TO THE WEST OF THE	C.O.P. DJB Cond O V
Photo Directory:	BUILDING WITHIN THE WUTP FACILITY TO THE WEST OF PARKMAN, OHIO.	Ity A V FI/Proj/Rec. V
Horizontal  Datum 83 V Order: V Class:	TO REACH FROM THE JUNCTION OF US 422 W, GO WEST ON US 422 W FOR 0.32 KM (0.20 MI) TO THE ENTRANCE TO THE WWTP ON THE LEFT, WITH THE STATION JUST	ERENCE POINT
Vertical Datum: 88	WEST OF THE ONE STORY BUILDING WITHIN THE SECURED FACILITY.	
Project Limits — Ma		Setting Vear Year
Latitude: N V		
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Elevation: Compu		D-Sht Delete Save Clear
OK	Clear Format Spelling Close	Text: 715 Chr.
	Caps Num Lock Char: 0 of 591 Free: 4309 Sel:0	

## Where to do I start?

- Regional Geodetic Advisors
  - We can assist, clarify questions, discuss goals
- NGS Survey Project Proposal
  - Tell us your plans
  - We can ensure you follow proper methods

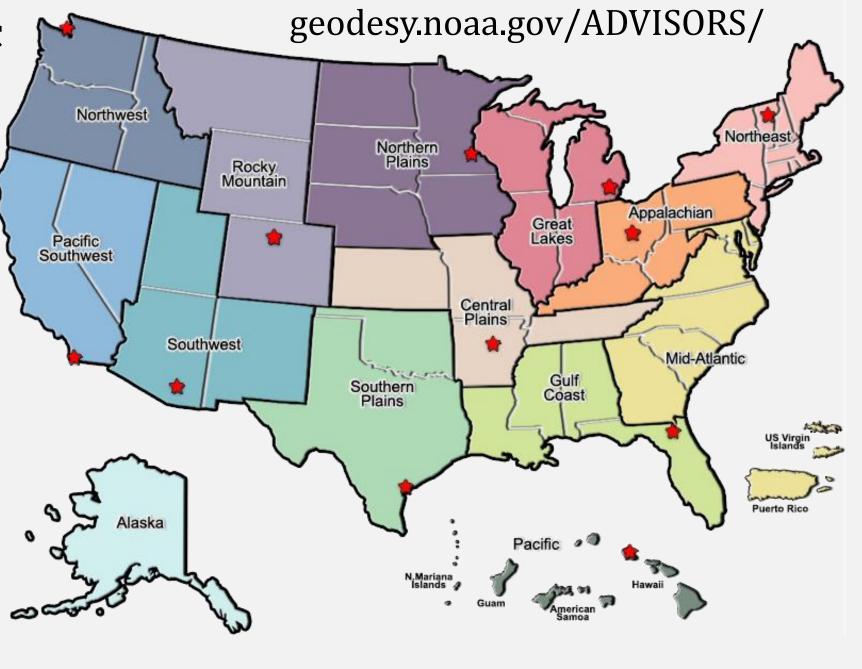
Regional Geodetic Advisor Program

14 RGAs across country We are here to support:

- You
- Your constituents
- Our Federal Partners

Questions about NSRS Modernization?

- Reach out now
- Be prepared





### **Survey Project Proposal - version 3.8**

National Geodetic Survey

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#### **Survey Proposal**

**Bluebook Project** 

**Adjust Guidelines** 

**Leveling Project** 

NOS NGS-58

NOS NGS-59

FAA AC16

OPUS-Projects Get Started Info

**Sample Survey Report** 

#### **Survey Proposal**

We publish high-accuracy GPS and/or differential leveling observations which meet our criteria.

Describe your project below to receive helpful data files and advice about your project.

- Read OPUS manual
- NGS Bluebook Policy
- Ht Mod Requirements
- Privacy Act Statement

(Fields marked with an asterisk (\*) are required)

#### PROJECT INFORMATION:

Project Title: *			
State: *	Select One State		
Survey Type:	GPS	-	

## What's the difference?

**NCN** 

**Non-NCN in NGSIDB** 

Both have their place!

If you can't be in the NCN,

NGSIDB is next best thing.

### https://geodesy.noaa.gov/ADVISORS/

-use any major search engine: "NGS advisors"

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