



UNCLASSIFIED

NORAD 101



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J1

22 Sept 2026

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What is NORAD's Primary Mission?

Track Santa!



NORAD Missions

Aerospace Warning

Detect, validate & warn of attack against North America by aircraft, missiles, or space.



Aerospace Control

Provide *surveillance and exercise control* of NA airspace



Maritime Warning

Process, assess, and disseminate intelligence regarding maritime areas and *warn of maritime threats*



Aerospace Warning: Pre 9/11 Detection



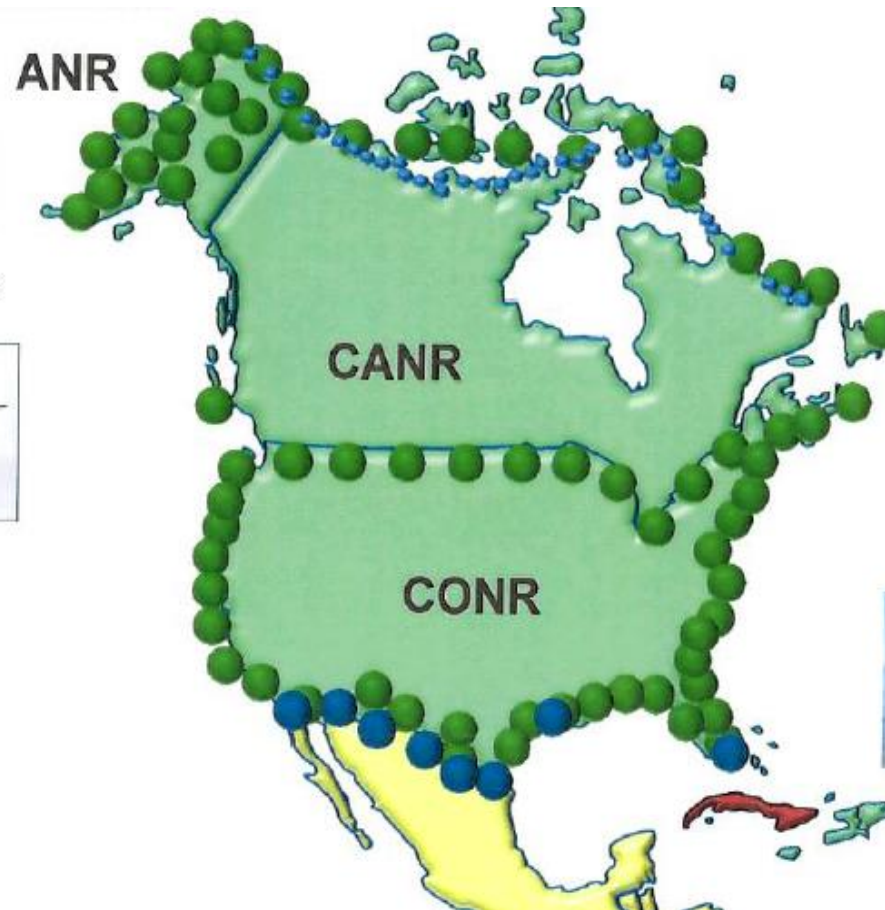
*Fixed & Mobile Ground-Based Radars



Airborne Early Warning



*Tethered Aerostat Systems (TARS)



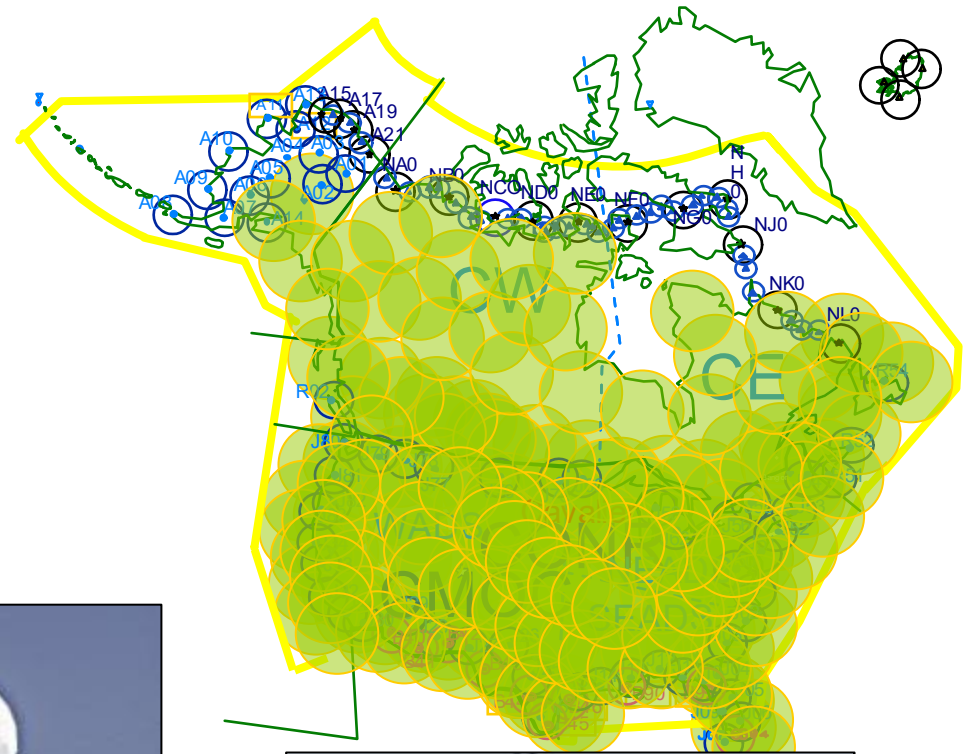
Space Assets



Surface Vessels

* Depiction of radar/TARS locations not to scale

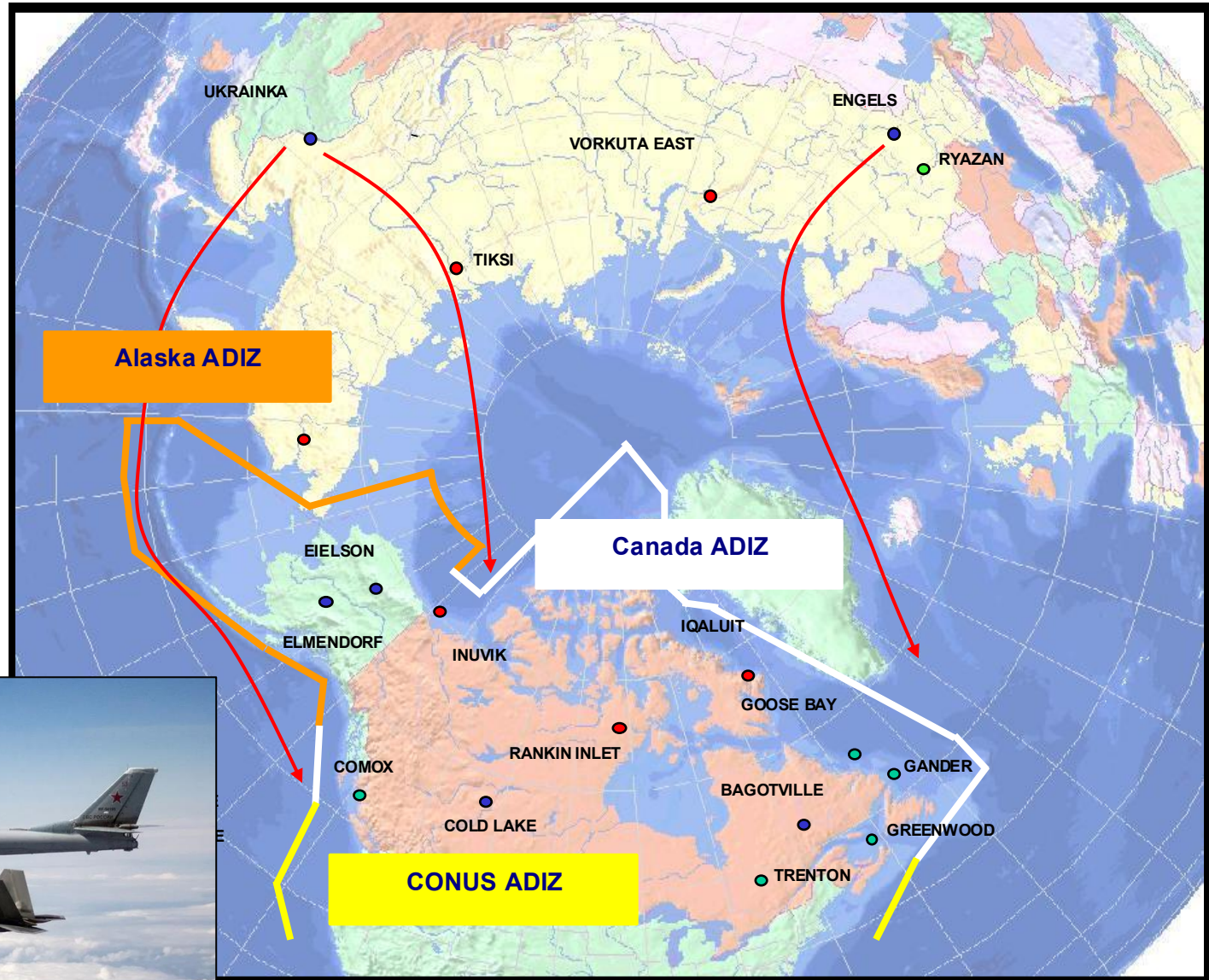
Aerospace Warning: Post 9/11



Aerospace Control: State Actor Threat

Air Defense Identification Zone (ADIZ)

~ 200 miles
from coast

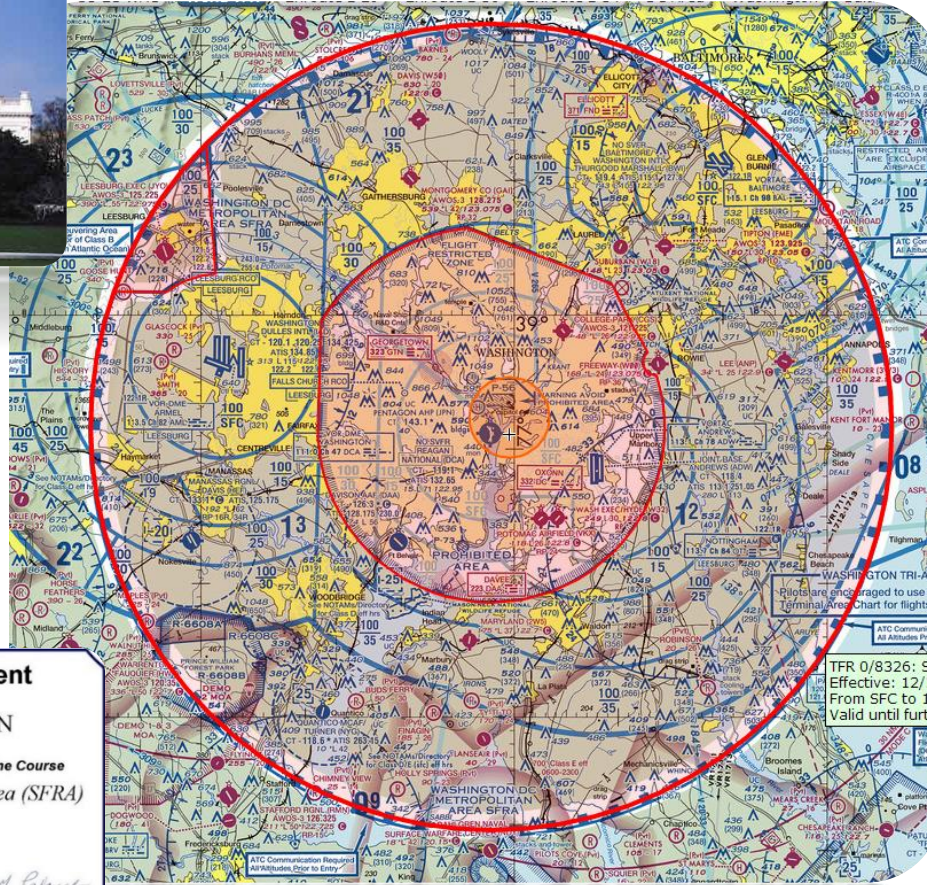


Aerospace Control: Non-State Actor Threat

NORAD's primary focus is on **unauthorized air activity** approaching/within North American airspace



Aerospace Control – Washington DC Special Flight Rules Area (SFRA)



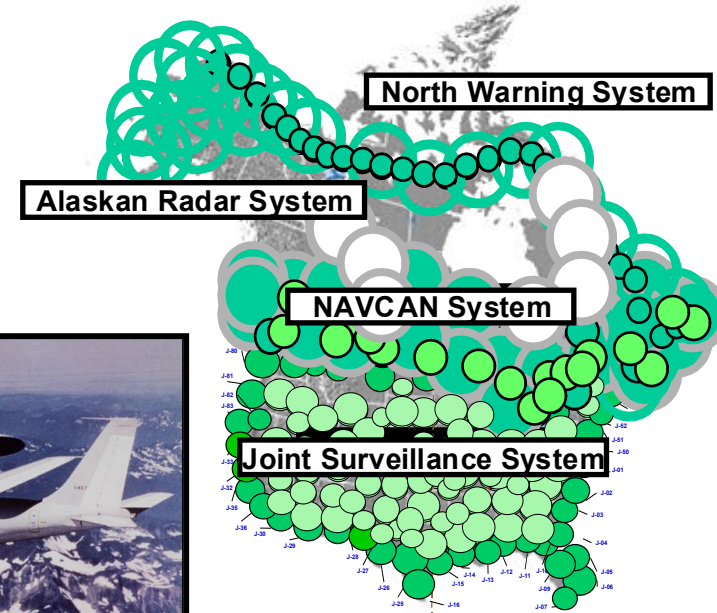
- Design
 - 30nm DCA VOR
 - Surface to 17,999 ft
- Procedures
 - IFR/SFRA flight plan
 - Discrete code
 - Two way radio
 - Airspeed restriction

(PLAN, SQUAWK, TALK)

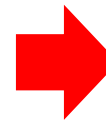


Elements of Aerospace Control

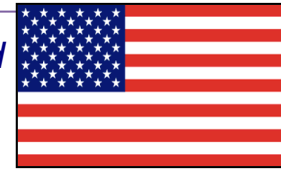
- Surveillance: Detect / Track / ID (enables Aerospace Warning)



- Aerospace Control: Scramble (Air Patrols) → Intercept → Engage



Two Commands



*National...Joint...Unified
Regional
Combatant Command*

SECRETARY OF DEFENSE

CHAIRMAN JOINT
CHIEFS OF STAFF

*Bi-national...Combined
Armed Interceptors 24/7*



MINISTER OF NATIONAL DEFENCE

CHIEF OF DEFENCE STAFF

COMMANDER, NORAD and USNORTHCOM



NORAD

NORAD Regions

ALASKAN NORAD REGION
(ANR) ★★★

CANADIAN NORAD REGION
(CANR) 🇨🇦 🇨🇦

CONTINENTAL U.S. NORAD
REGION (CONR) ★★★

DEPUTY COMMANDER
NORAD



DEPUTY COMMANDER
USNORTHCOM



INTEGRATED N-NC STAFF

Chief of Staff
Personnel (J1)
Intelligence (J2)

NORAD Ops
(N/J3)

USNORTHCOM
Ops (NC/J3)

Logistics & Engineering (J4)
Strategy, Policy & Plans (J5)
Cyberspace Operations (J6)
Training & Exercises (J7)
Requirements, Analysis & Resources (J8)
Science and Technology

USNORTHCOM

Component Commands

U.S. Army North (Fifth Army) ★★★

* Joint Task Force Civil
Support ★★

Air Forces Northern
(First Air Force) ★★★

U.S. Marine Forces North
(MARFORNORTH) ★★★

U.S. Naval Forces North
(USFF) ★★★★★

U.S. Army Space & Missile Defense
Command ★★★

Supported Commands

U.S. SOC North USSPACEFOR -NOR

Joint Task Force SB ★★

Alaska Command ★★★★★

Joint Task Force NCR ★★

JIATF-CC / JIATF-S

100th MDB

NORAD Construct



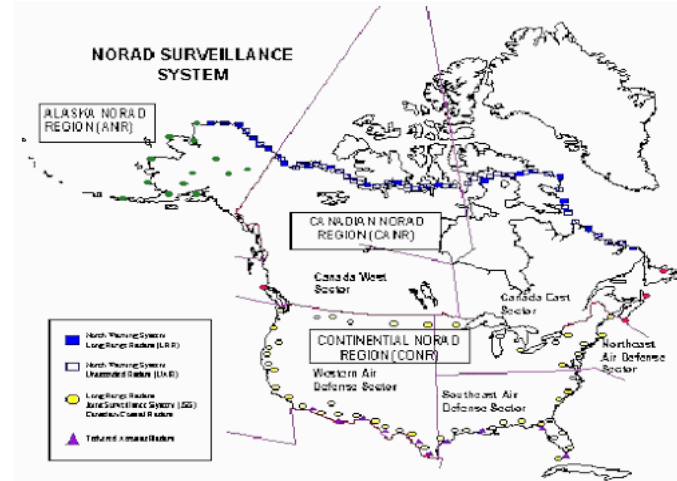
Head Quarters
JOC
Divisions

Canadian NORAD region – Winnipeg, MB
Canadian Air Defense sector – North Bay, ON

Continental U.S. NORAD Region – Tyndall AFB
Eastern Air Defense Sector – Rome, NY
Western Air Defense Sector – Tacoma, Washington

Alaskan NORAD Region – Elmendorf- Richardsons Joint Force
Base
Alaska Air Defense Sector

AWACS



Questions

