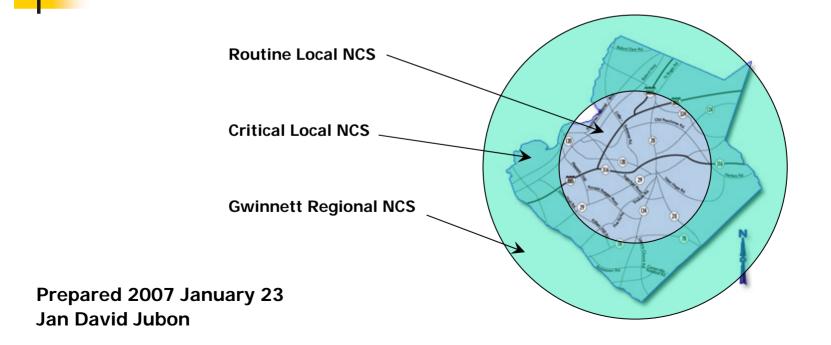
Network Control Stations Amateur Radio Emergency Service Gwinnett County, Georgia



NCS = focal point for most operations

- Comm activities dispatching
- Allocates frequencies/channels
- Takes several forms and formats
- Is not the same as a liaison location
 - Operation may require separate liaisons

Typical NCS locations ...

- ... for Gwinnett County ARES
 - Usually a home QTH
 - Not collocated with served agency
 - May be activated "immediately"
 - No special equipment for voice nets
 - (Almost) always use GARS W4GR repeater(s)
 - Station must have good repeater rf access
 - Enables any member to be Gwinnett NCS

Traditional communications functions for ARES

- Typical communications topology ...
 - Hub-and-spoke ... "insulated" central dispatch
 - Messages originate and terminate inside net
 - Single relay link: originator → destination

NCS dispatches ... no routine relaying

- "No net rf interface" with adjacent jurisdictions
- One (most 2) voice channels utilized
- "Closed group" of operators
- Personal station areal performance not primary

Operational exceptions ...

- ... community services using on-site NCS
- ... but within scope of "routine" ...
 - Downtown Christmas parade (on-site)
 - Dog show (informal, ad hoc)
 - Hall County / Gainesville New Years Eve
- ... from more than "routine" to "very complex" e.g. SET-2006, SET-2005

Three functional types of NCS

- "Routine Local NCS"
- "Critical Local NCS"
- "Gwinnett Regional NCS"
- Type deployed is chosen by:
 - EC

- AEC-Logistics
- AEC-NetsAEC-Response teams

When

Routine Local NCS:

Training net call-ups SKYWARN nets

Community Support

Critical Local NCS:

County disaster response.

Repeater failure

Multiple co-primary channels

Gwinnett Regional NCS:

Multi-county coordinated wide area ops.

Multi-area routes in use

What

Routine Local NCS:

Conventional NCS

Critical Local NCS:

NCS +

Knowledge of simplex-direct coverage, operations, options

Gwinnett Regional NCS:

NCS +

Critical/Local +

Knowledge of multi-jurisdictional messaging +

Multiple radio channel handling ability.

Who

Routine Local NCS:

Basic ARES members

Critical Local NCS:

Basic ARES members +

Demonstrate knowledge of simplex and no-repeater options Knowledge of temporary station set-up

Gwinnett Regional NCS:

NCS +

Critical/Local +

Knowledge of multi-jurisdictional/high volume messaging Multiple radio channel handling.

Where

Routine Local NCS:

Home OTH

Critical Local NCS:

Home

Possible central site

Capable of establishing new/temporary central site/repeater

Gwinnett Regional NCS:

Routine Local + Critical Local +

Knowledge of geo-topographics for best regional access

How many people

Routine Local NCS:

Solo NCS +

ANCS (also solo) at separate location

Critical Local NCS:

Collaboration likely in duets and trios

... at common location

Gwinnett Regional NCS:

Collaboration probable, trios, quartets, et al

Operates best as a team

Response teams

Routine Local NCS:

Members function within home response team

Critical Local NCS:

Within home response team

May be coordinated for special duty

Gwinnett Regional NCS:

Defined purpose response team

Primary responsibility – complex NCS situations

Individuals available to other teams by coordination

May include multi-team member assignments

ARES NCS function levels

