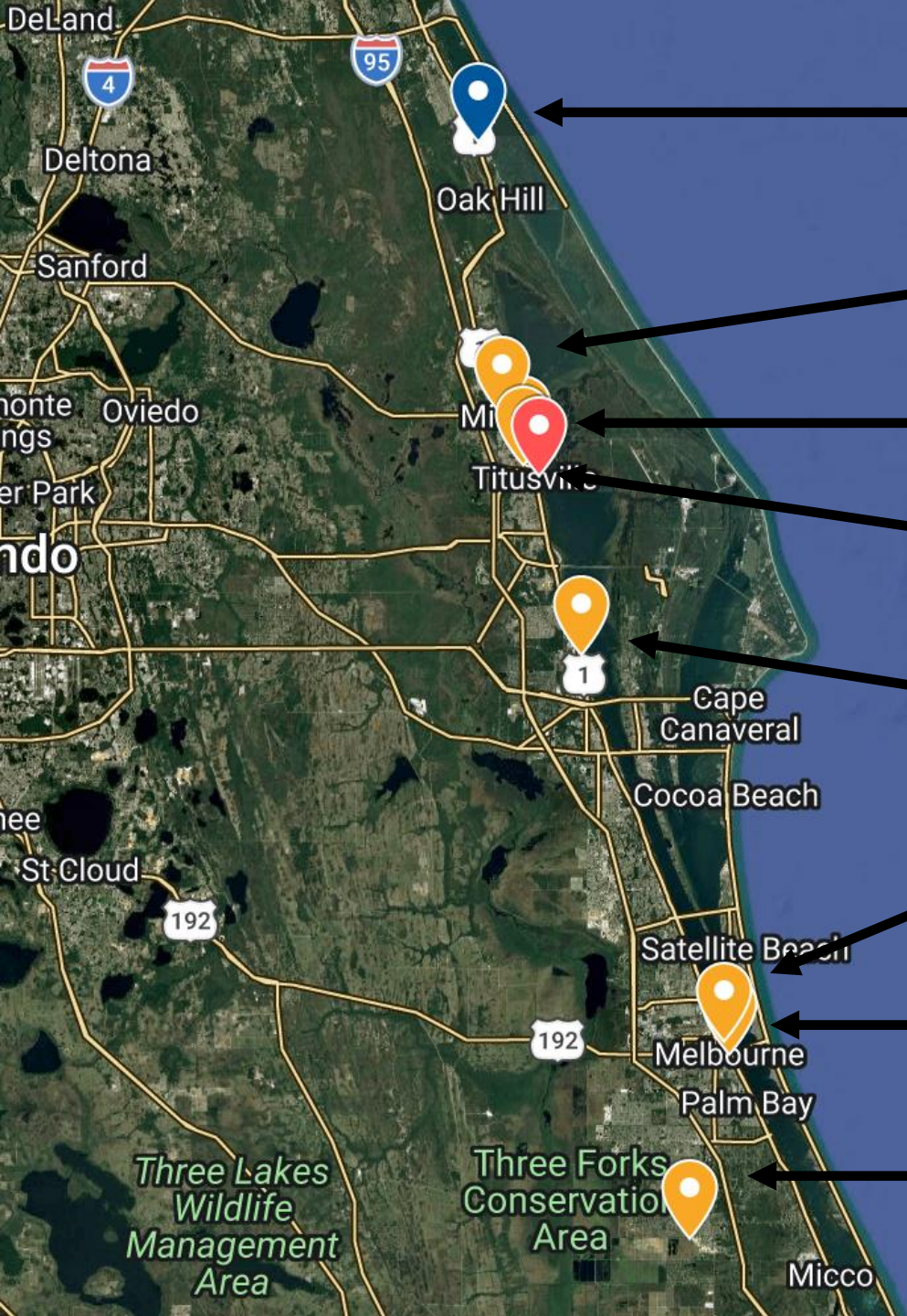




Edgewater AREDN Stack

Site has Fiber Backbone
Access to 100ft tower and 2.4Ghz RF

Mims AREDN Stack

45 ft Tower and 5Ghz RF
Cable/Internet fallback

Parrish AREDN Stack

120ft Rooftop and 5ghz RF

KD4WLE AREDN NOC/Stack

Site has Fiber Backbone and 60Ghz Links
45 Ft Tower with 2.4 and 5Ghz RF

PSJ AREDN Stack

45ft Tower and 5Ghz RF
Cable/Internet fallback

Melbourne SA AREDN Stack

30ft tower and 5Ghz
Cable/Internet fallback

Melbourne Trinity AREDN Stack

180ft Rooftop with 5Ghz RF
Cable/Internet fallback

Palm Bay AREDN Network Stack

140Ft Tower with 5Ghz RF

BCAT MCATs

BMCTU1 – 20ft Pole with 5Ghz/Starlink
BMCTU2 – 20ft Pole with 5Ghz/Starlink

VoIP

The network host 2 AREDN VoIP servers on
it's Fiber connect stacks

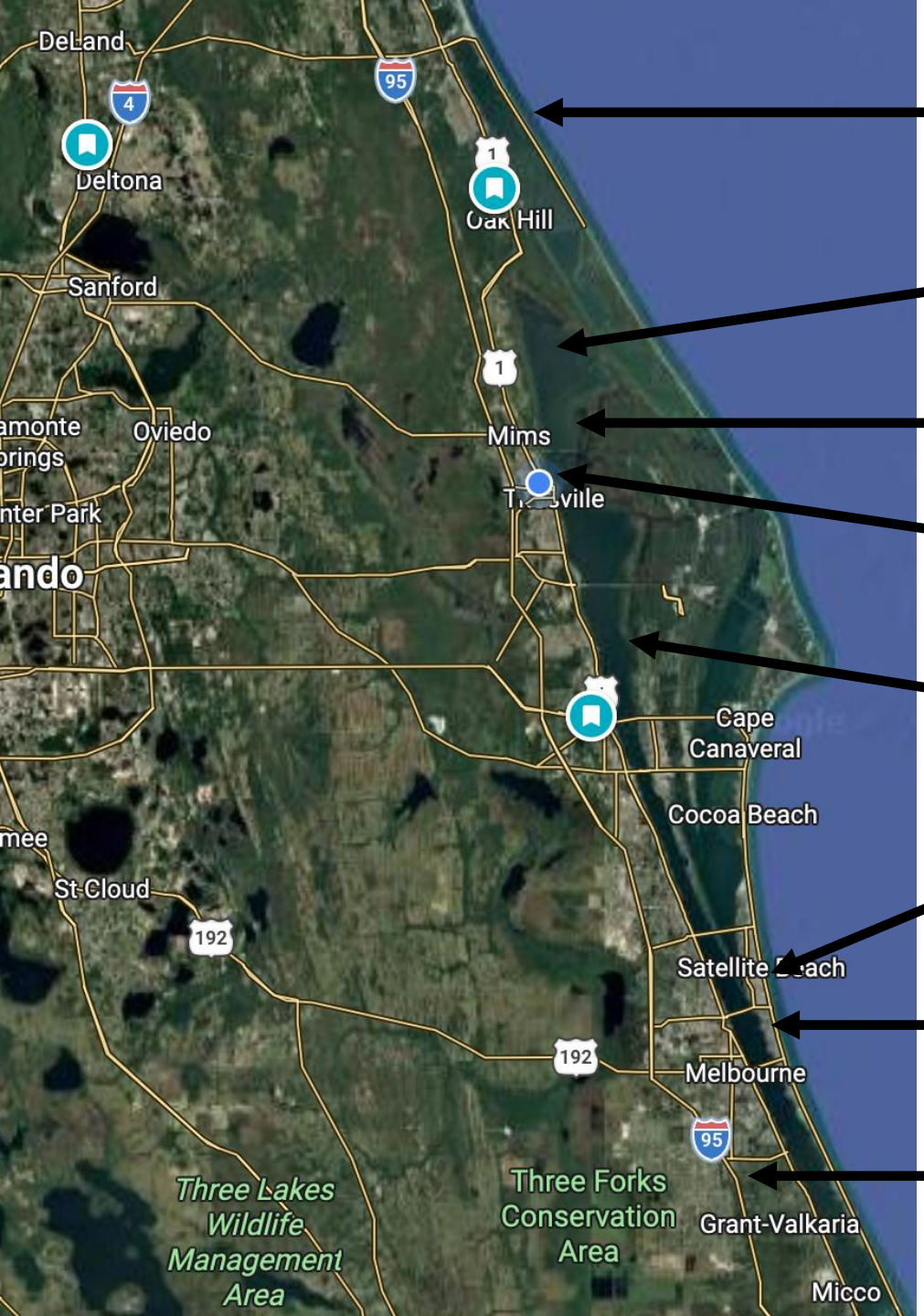
VPN Services

The network host VPN Services for users not
able to connect via RF. This service supports
all of Florida and is hosted in Fiber locations

Supernode Services

The network host Supernode Services for
other mesh groups to streamline world wide
access to Florida and is hosted in Fiber
locations

Notes: There is an 'RF Deadspot' between
Edgewater and Mims/North Titusville and
PSJ/Melbourne. These areas are linked by a
private VPN with a fiber backbone where
possible, Otherwise we use a cable modem
or Starlink Fiber locations maintain a 99.99+
SLA.



Edgewater Repeater

444.750 Linked repeater system
Coverage from Port Orange to Oak Hill

Mims Auxcom

45 ft Tower Auxcom site
V/U/HF equipped - No Repeater

Parrish Repeater

442.850 Linked repeater system
Coverage from Oak Hill to Rockledge

KD4WLE Repeater Control

Site has Fiber Backbone
Control Hub for all linked repeaters.

PSJ Repeater

Linked repeater system
Coverage from South Titusville to Rockledge

Melbourne SATREN

30ft Pole SATREN Station
V/U/HF equipped - No Repeater

Melbourne Trinity Repeater

444.325 Linked repeater system
Coverage from Rockledge to Palm Bay

Palm Bay Site

140Ft Tower/No Repeater

BCAT MCATs

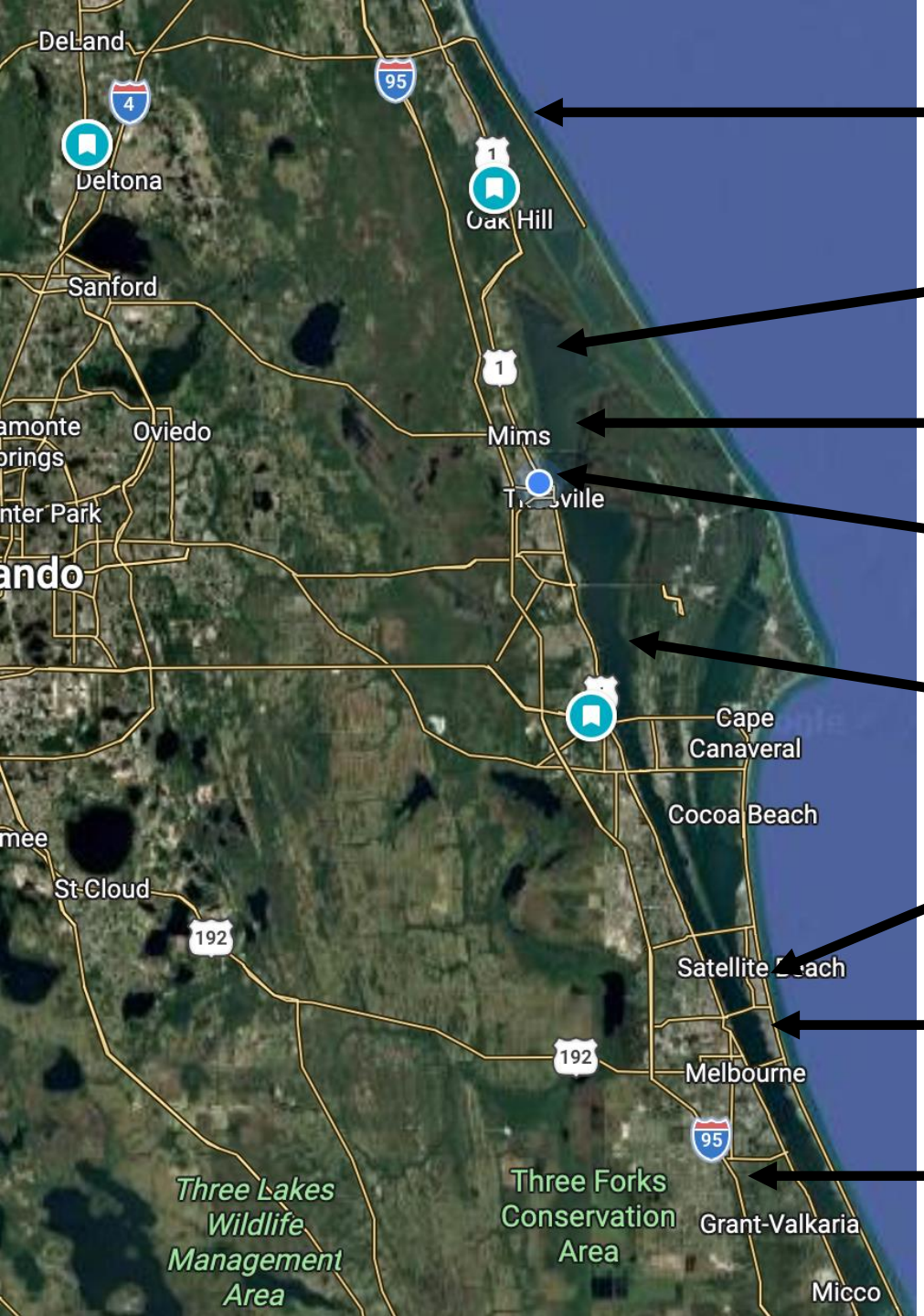
BMCTU1 – 444.150 Linked Repeater
BMCTU2 – 441.150 Linked Repeater

Linked Repeaters

The network uses AREDN for linking protocols and supports AllStar.

Repeater Control

The repeater control acts as a AREDN to Internet gateway to support for on demand linking with other repeaters via public internet and Allstar.



Edgewater Digital

Vara – N4TDX-13
Packet - Offline

Mims Auxcom

Vara – Offline
Packet - Offline

Parrish Digital

Vara – N4TDX-8
Packet – N4TDX-15/APRS – N4TDX

KD4WLE Repeater Control

Vara – HF Vara Supported
Packet – KD4WLE-14

PSJ Digital

Vara – N4TDX-7
Packet – N4TDX-9

Melbourne Digital

Vara - Offline
Packet – WA4DES-7

Melbourne Trinity Digital

Vara N4TDX-12
Packet - Offline

Palm Bay Digital

Vara - Offline
Packet - Offline

Digital Packet

All stations have a user port on 145.090

Vara/Winlink

VHF Vara stations operate on 144.390
HF Vara is available on 14.1065, 7.31032
and 3.596 dial 24 hours a day.

APRS

The APRS station at Parrish has WIDE
coverage into Orlando/Brevard and IGate
services.

BPQ Node Stacks

The entire N4TDX/KD4WLE digital packet
network are interconnected via AREDN as
a high speed backbone. The network is
connected to 200+ nodes, worldwide and
supports pure RF forwarding via HF and
the TPRFN network.