

Winlink on Mercer Island



*Mercer Island Radio
Operators (MIRO)*

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**“digital traffic
across the nation
quickly and accurately”**

System Selection

JNOS



Bulletin Boards

**European Standards, e.g.
FlexNET, PR4Win, PAXON**

Internet

Why Winlink?

- Uses Windows e-mail software, including attachments
- Combines benefits of Internet + Radio
 - Radio bridges over Internet gaps
 - Local mail server works if internet down
 - Redundancy
- Well supported & used
 - 600 Telpac “radio entry points”
 - 130k messages/month

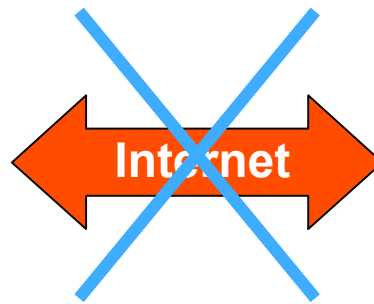
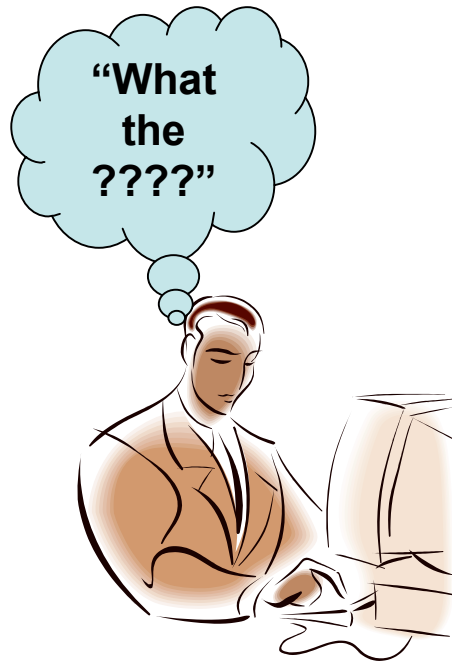
Served Agency View

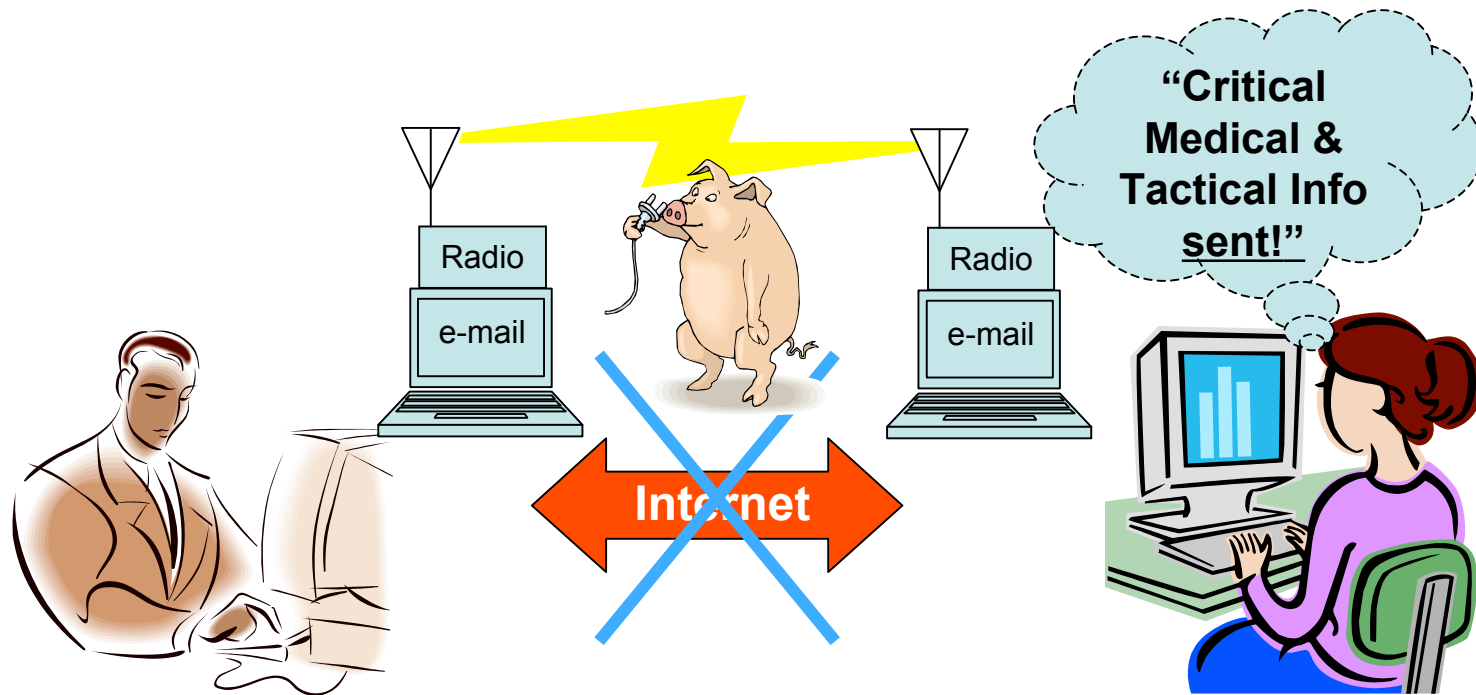


E-mail Software
(Outlook)



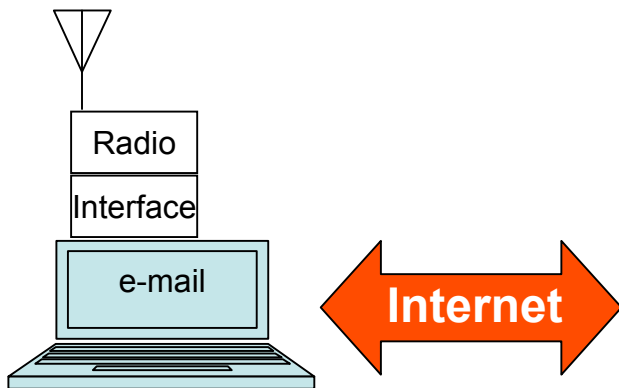
E-mail Software
(Outlook Express)





- VHF: City EOC to
 - Shelters
 - Fire station
 - Portable / mobile
 - Neighboring cities, county, state

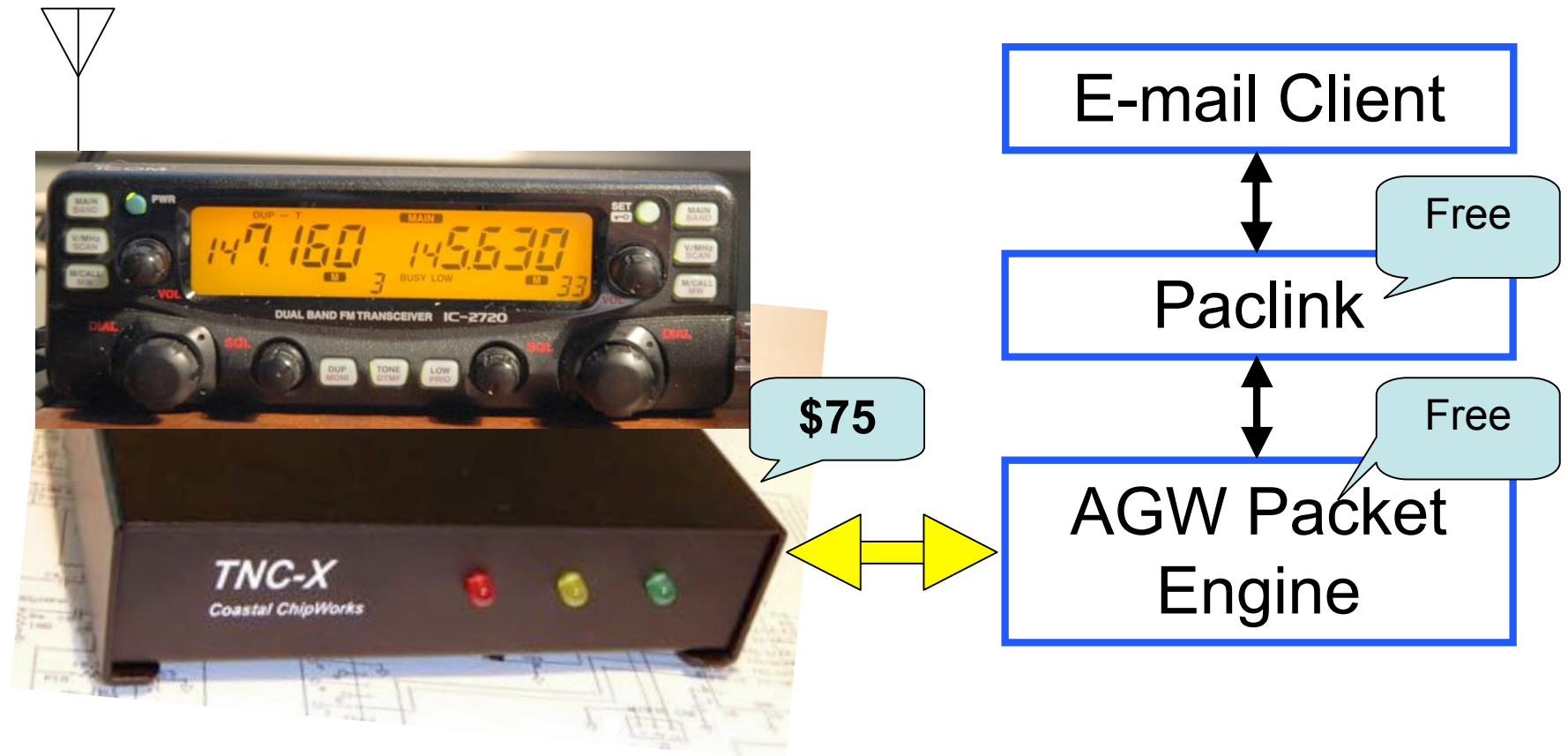
- HF or Satellite: Long distance
 - Health & Welfare

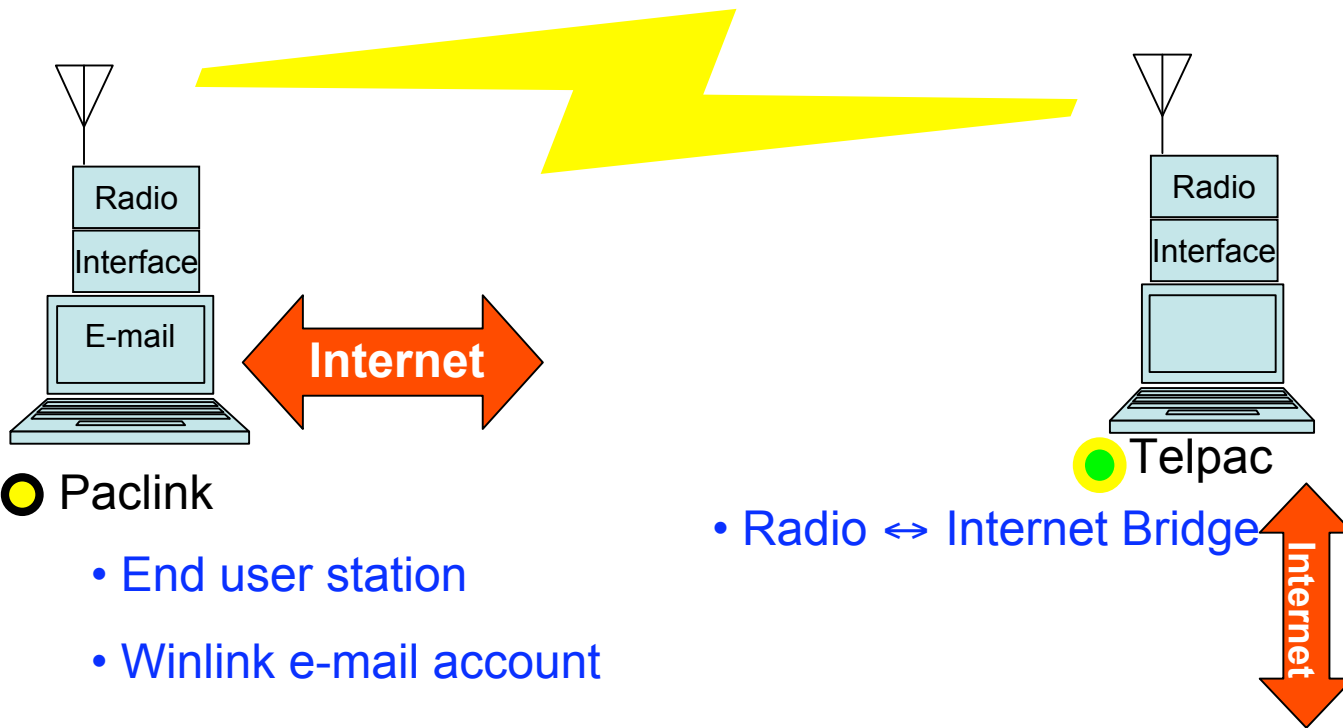


● Paclink

- End user station
- E-mail account
- Polls multiple paths
- Internet: Telnet

1.2k baud VHF/UHF Station





● Paclink

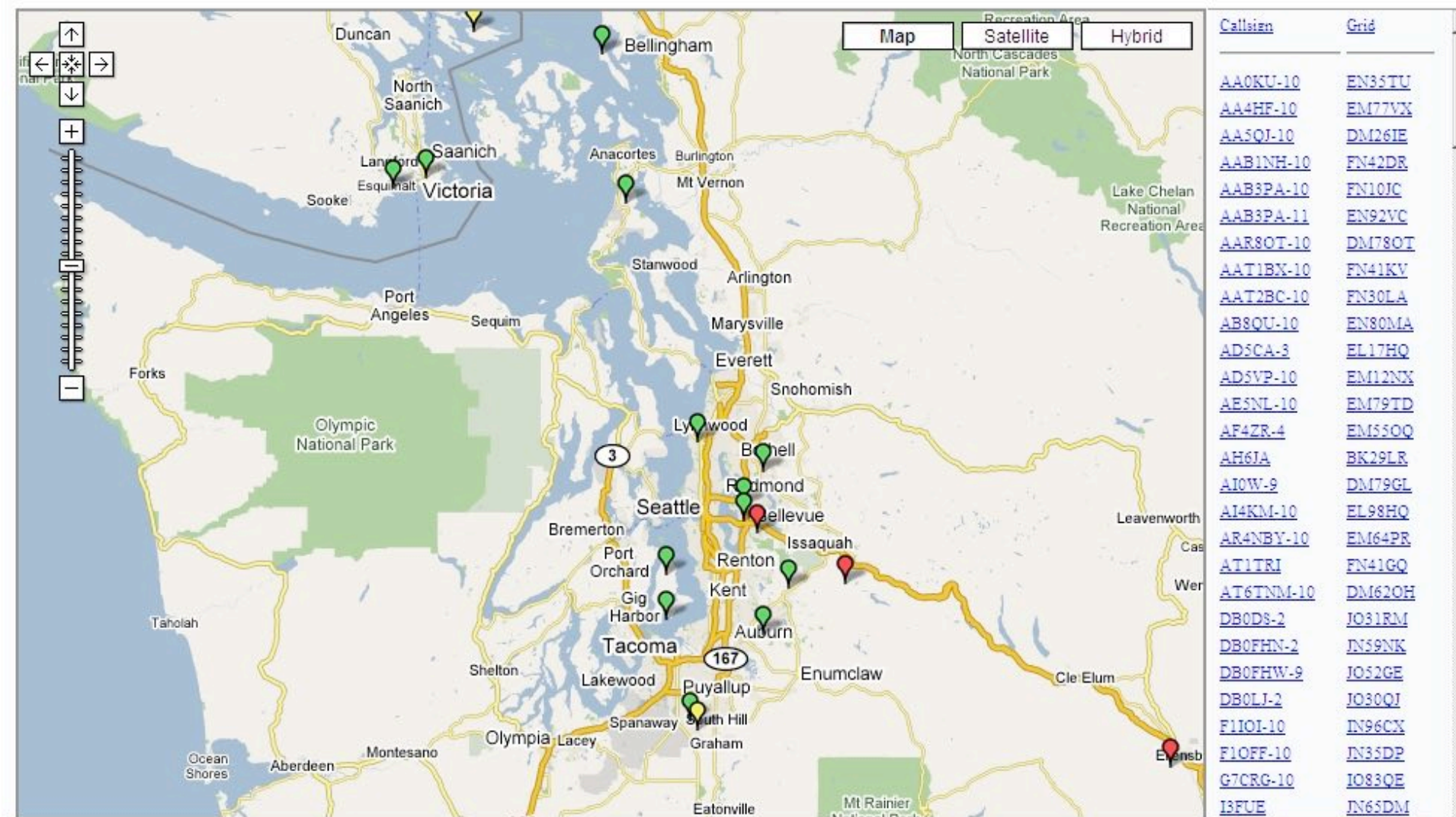
- End user station
- Winlink e-mail account
- Polls multiple paths
 - Internet: Telnet
 - VHF radio

- Radio ↔ Internet Bridge

Winlink! 2000 CMS

Enhanced Digital Messaging for Amateur Radio

Telpac Gateways

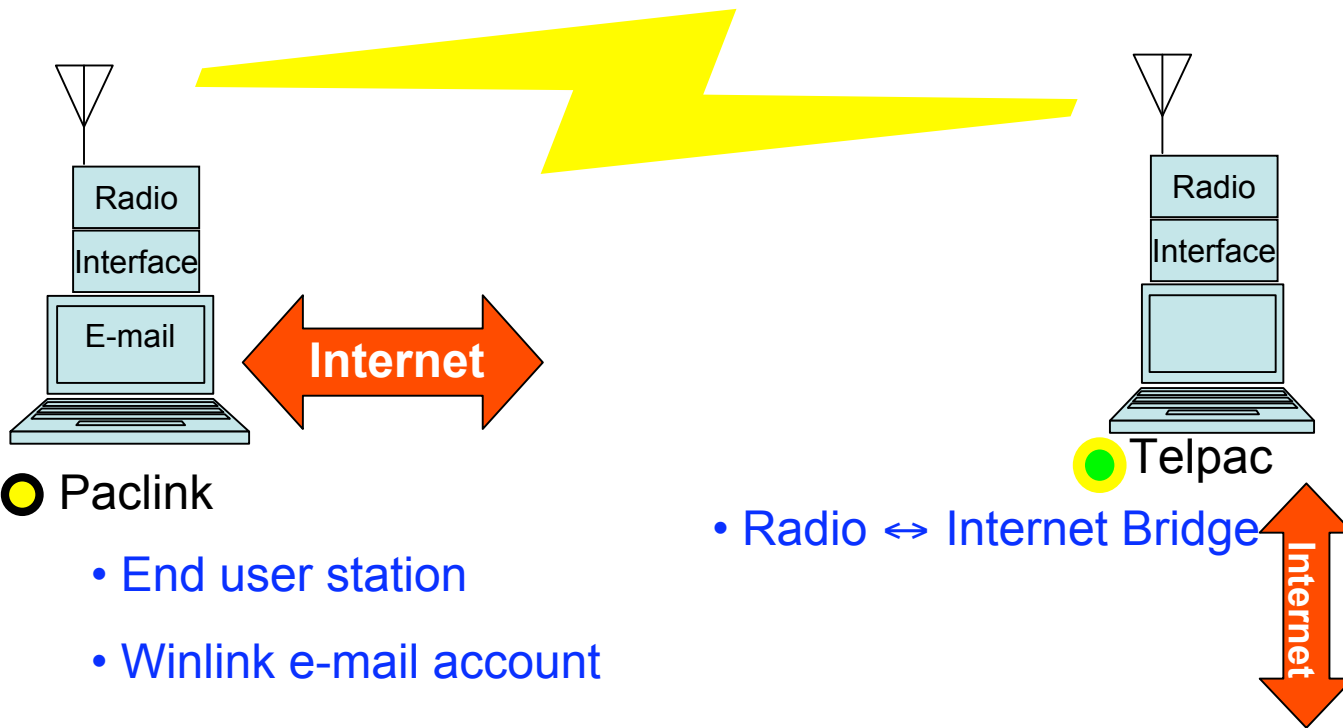


Telpac Gateways

WA6PXX-10 RSS 2.0

Gridsquare	CN87VO
Frequency	145.030
Baud Rate	1200
PHG	50 watts, 70 feet, 7db
Antenna	Omni
Operation	24/7
Mercer Island Radio Operators ARES	
Last activity	Sun, 18 Feb 2007 19:38:00 UTC

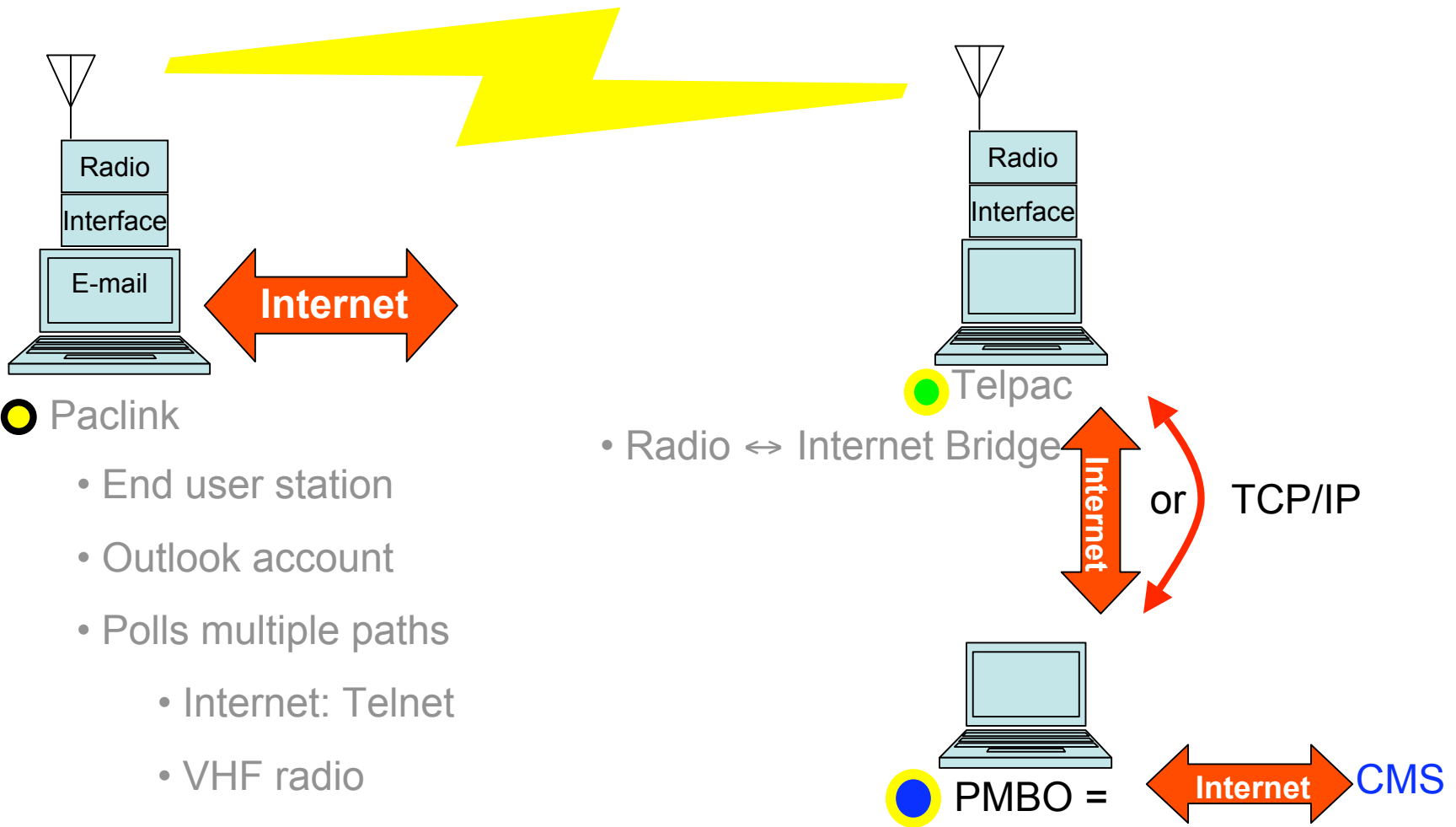
Callsign	Grid
AA0KU-10	EN35TU
AA4HF-10	EM77VX
AA5QJ-10	DM26IE
AAB1NH-10	FN42DR
AAB3PA-10	FN10JC
AAB3PA-11	EN92VC
AAR8OT-10	DM78OT
AAT1BX-10	FN41KV
AAT2BC-10	FN30LA
AB8QU-10	EN80MA
AD5CA-3	EL17HQ
AD5VP-10	EM12NX
AE5NL-10	EM79TD
AF4ZR-4	EM55OQ
AH6JA	BK29LR
AI0W-9	DM79GL
AI4KM-10	EL98HQ
AR4NBY-10	EM64PR
AT1TRI	FN41GQ
AT6TNM-10	DM62OH
DB0DS-2	JO31RM
DB0FHN-2	JN59NK
DB0FW-9	JO52GE
DB0LI-2	JO30QJ
F1IOI-10	JN96CX
F1OFF-10	JN35DP
G7CRG-10	JO83QE
I3FUE	JN65DM



● Paclink

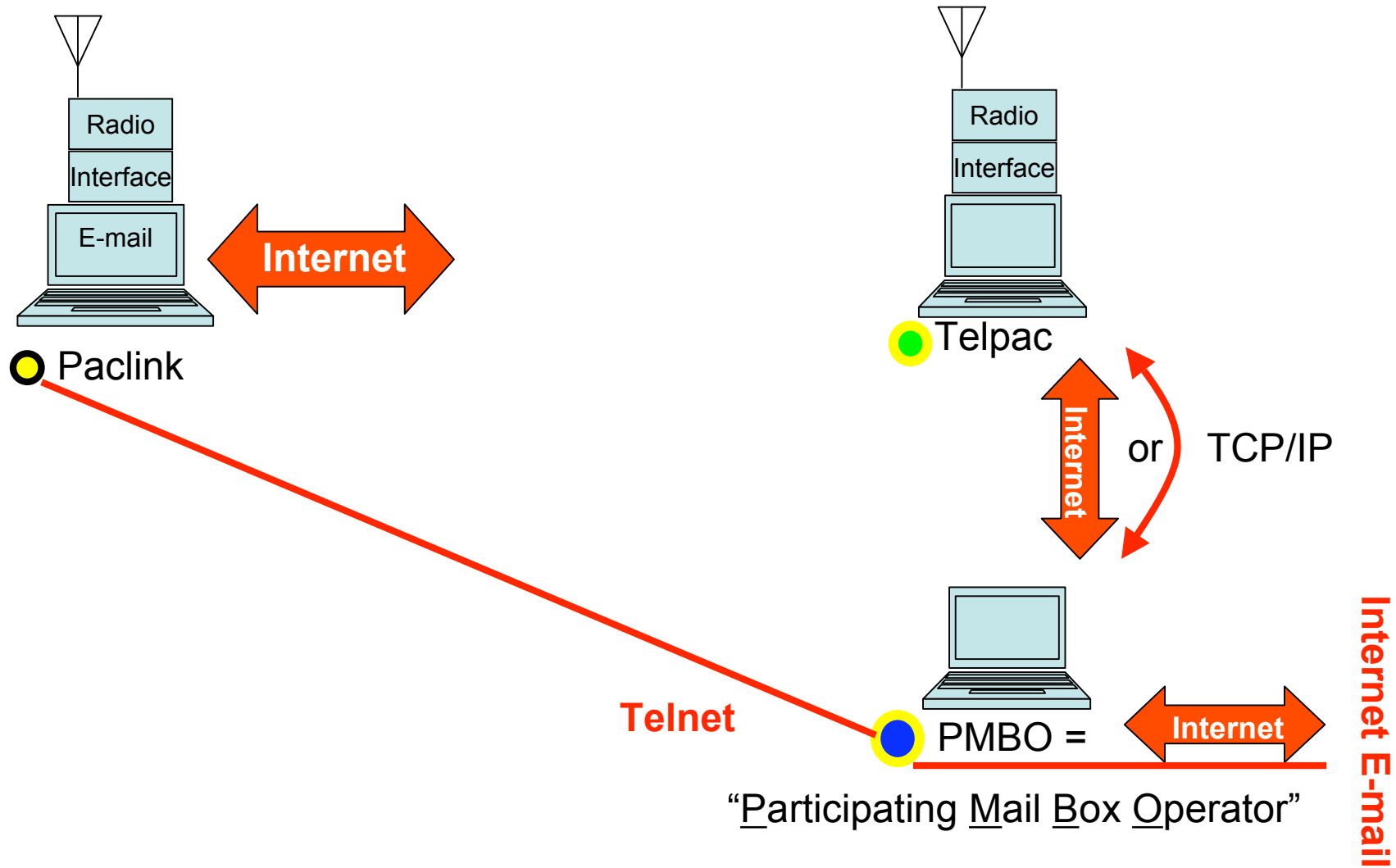
- End user station
- Winlink e-mail account
- Polls multiple paths
 - Internet: Telnet
 - VHF radio

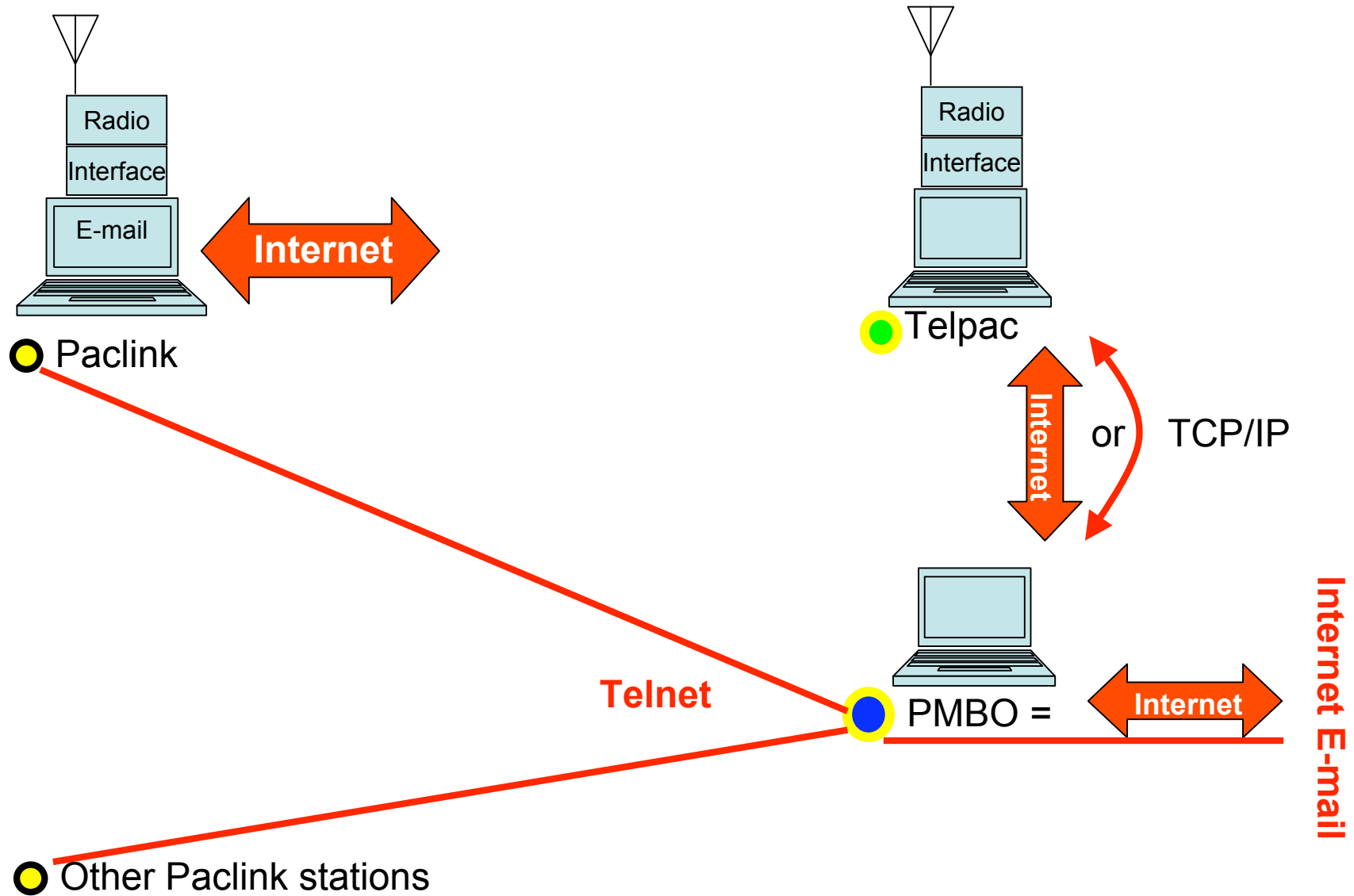
- Radio ↔ Internet Bridge

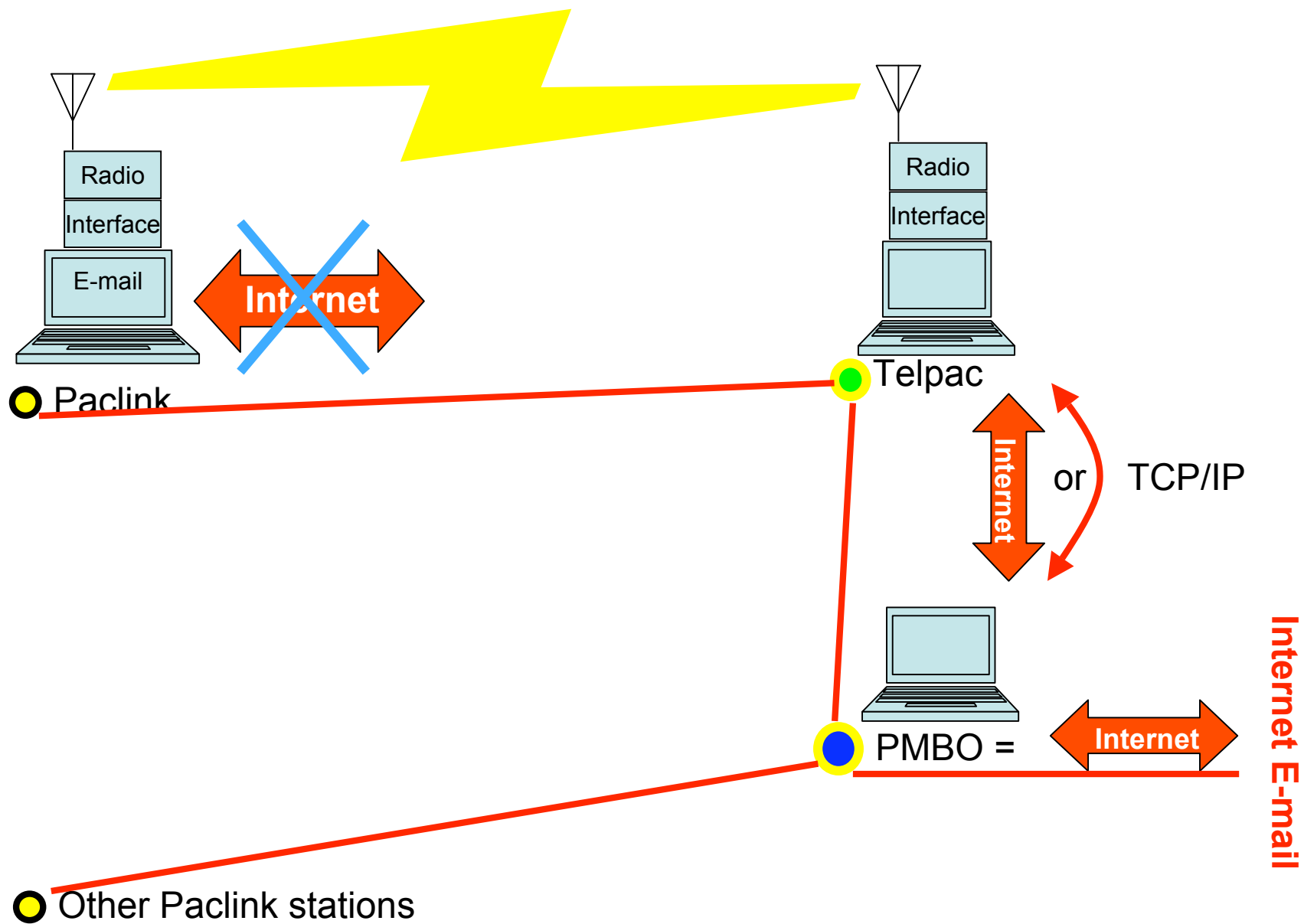


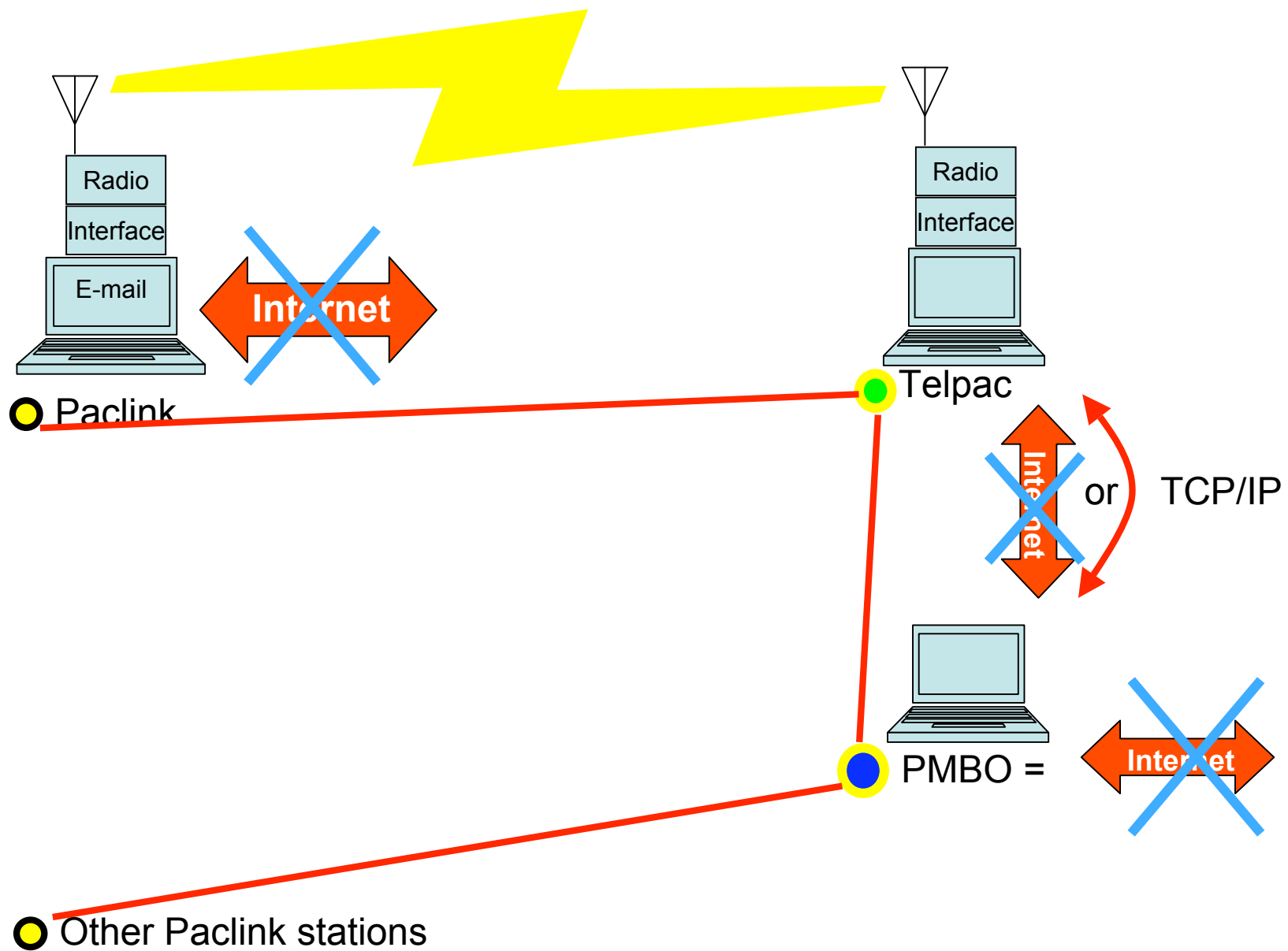
“Participating Mail Box Operator”

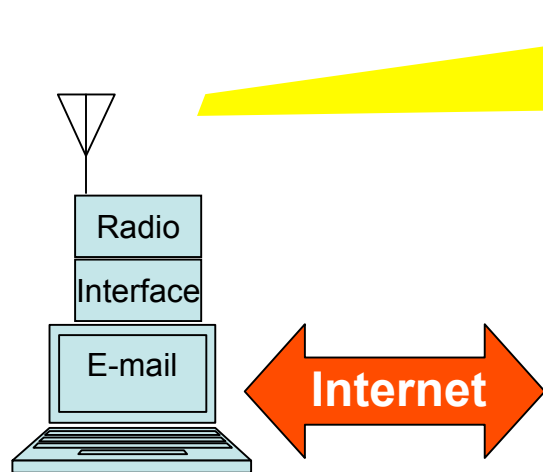
- Store, route, forward messages
- Multiple Telpac stations
- Coordinate with “Central Msg Server”





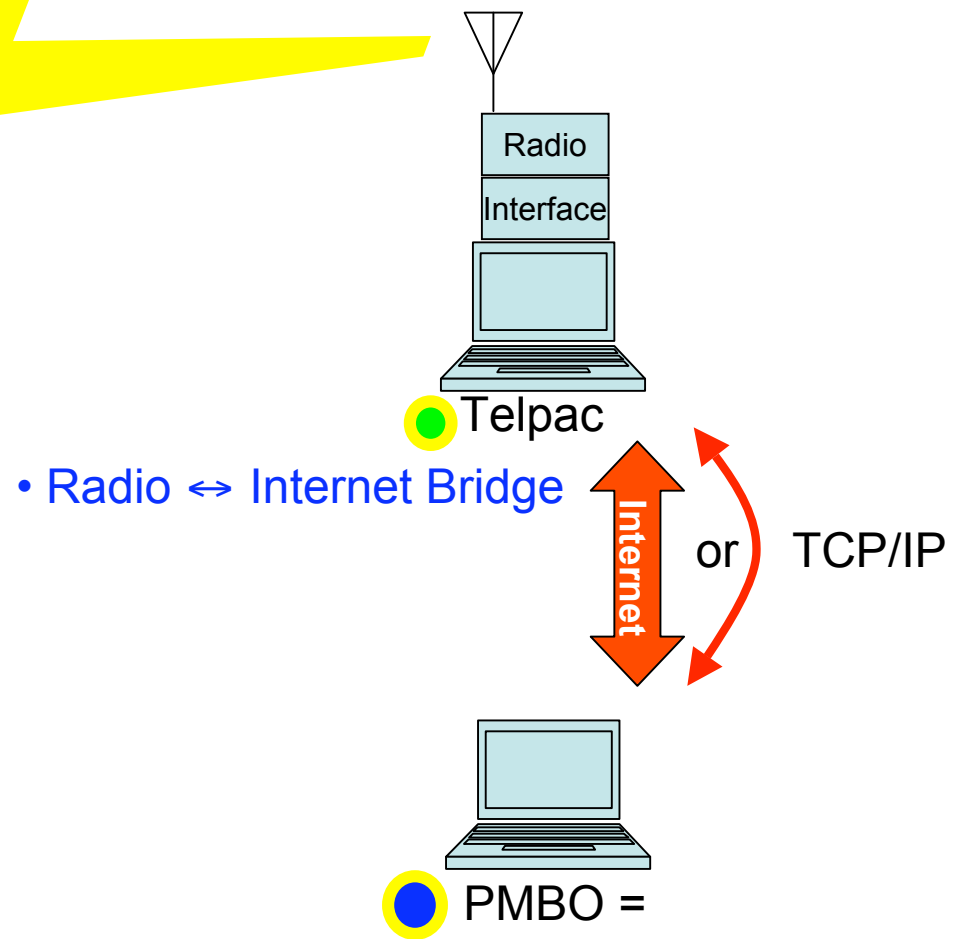






● Paclink

- End user station
- E-mail account
- Polls multiple paths
 - Internet: Telnet
 - VHF radio



“Participating Mail Box Operator”

- Store, route, forward messages
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Phases

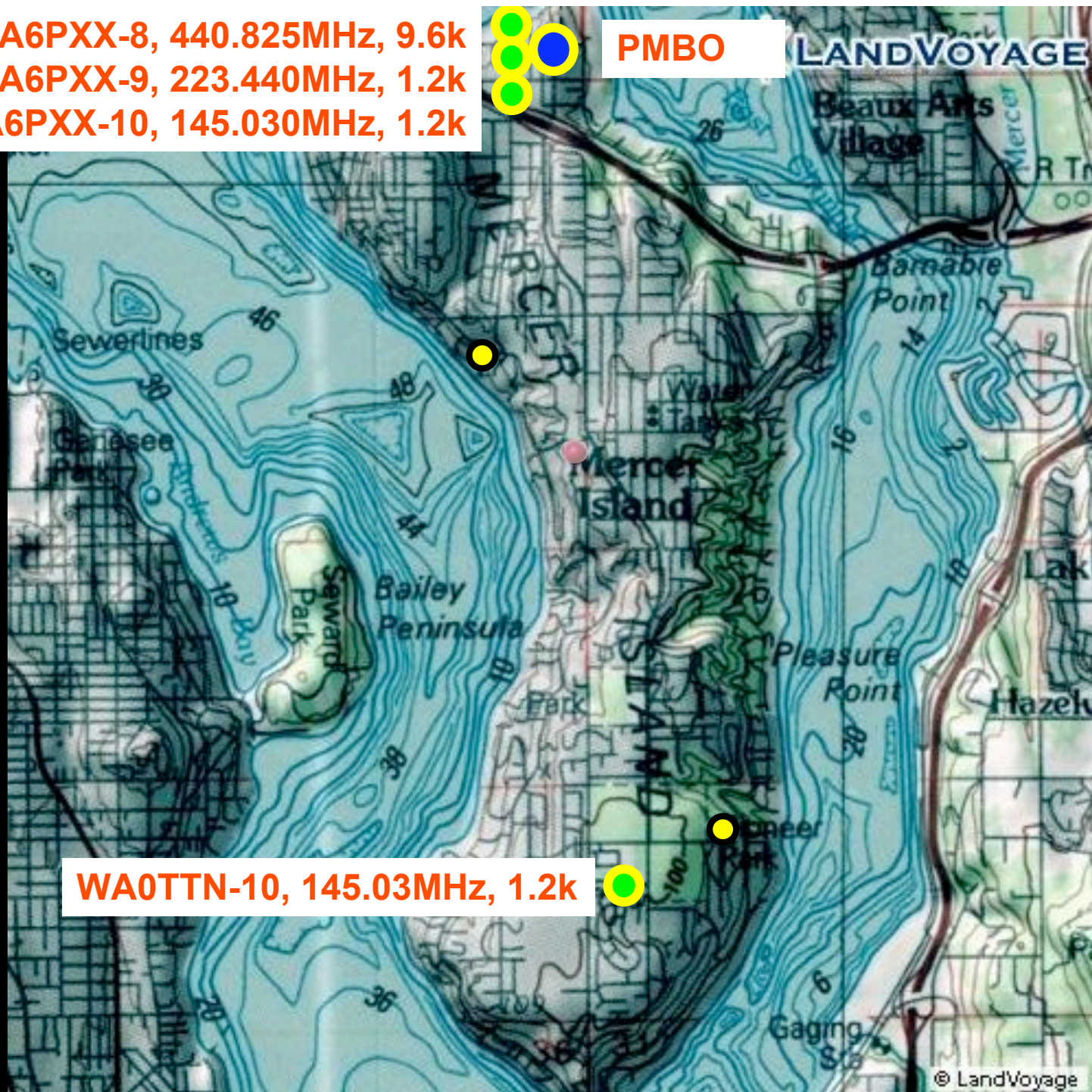
• **PMBO** ✓

WA6PXX-8, 440.825MHz, 9.6k
WA6PXX-9, 223.440MHz, 1.2k
WA6PXX-10, 145.030MHz, 1.2k

PMBO

- Paclink
- Telpac
- PMBO Mail Server

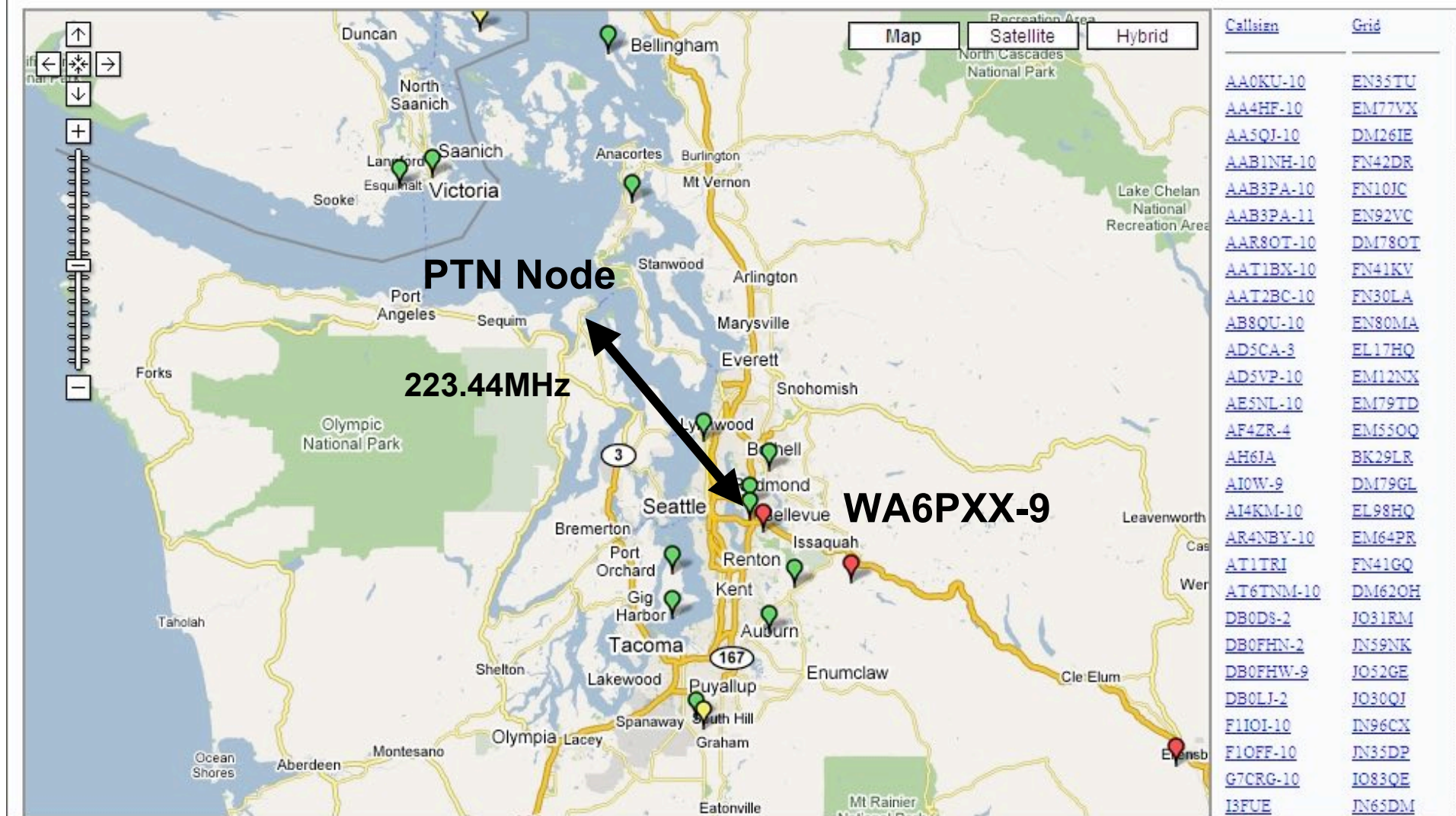
WA0TTN-10, 145.03MHz, 1.2k



Winlink! 2000 CMS

Enhanced Digital Messaging for Amateur Radio

Telpac Gateways





Mobile: Voice

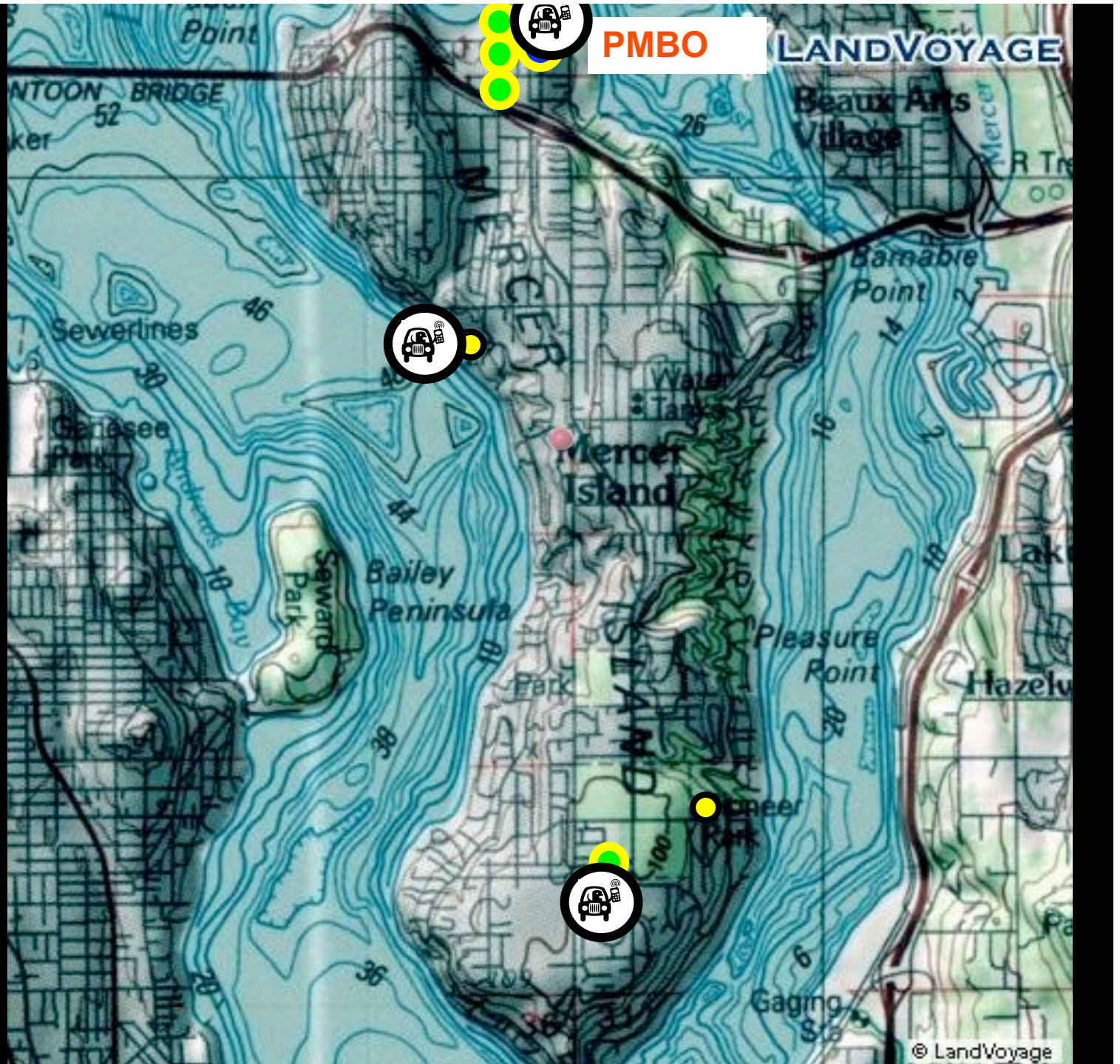


Mobile: Digital

Phases

- PMBO ✓
- Mobile ✓

- Paclink
- Telpac
- PMBO Mail Server



MI 12/16/07

Dec blowdown...

- **PMBO**
 - Standby power (< 30 watts)
 - Local communications FB
- **Limitation: Internet for off-island**
 - Solutions
 - *ad hoc* 802.11 connections, e.g. Seattle
 - Satellite
 - Long haul HF (e.g. PACTOR)

Phases

- PMBO ✓
- Mobile ✓
- EOC Link

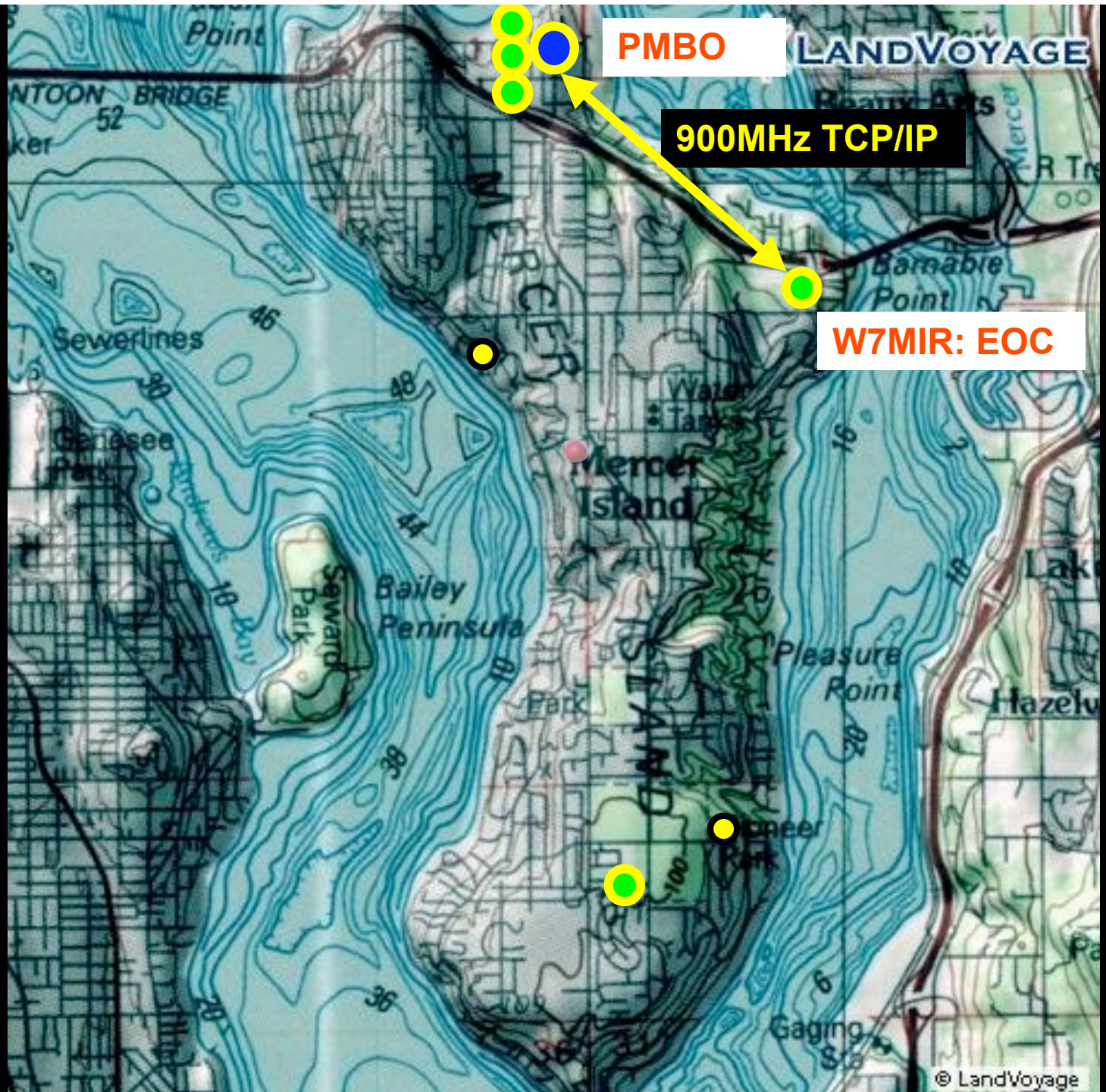
● Paclink

● Telpac

● PMBO Mail Server



Mobile



Phases

- PMBO ✓
- Mobile ✓
- EOC Link
- Repeater

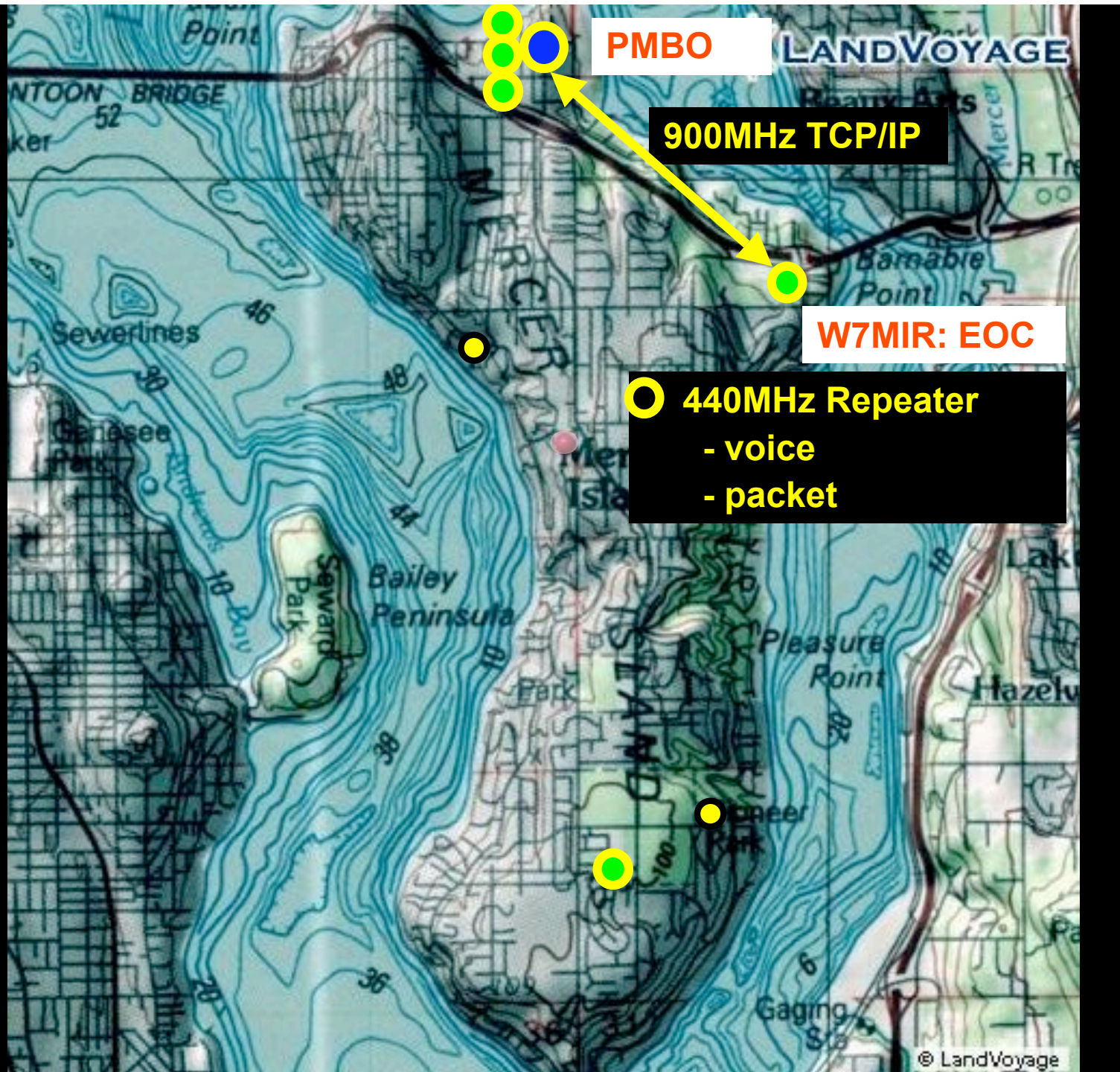
● Paclink

● Telpac

● PMBO Mail Server

● Mobile

● Repeater



Phases

- PMBO ✓
- Mobile ✓
- EOC Link
- Repeater
- Shelters

- Paclink
- Telpac
- PMBO Mail Server
- Mobile
- Repeater

- # Phases
- PMBO ✓
 - Mobile ✓
 - EOC Link
 - Repeater
 - Shelters
-
- Paclink
 - Telpac
 - PMBO Mail Server
 - Mobile
 - Repeater

Phases

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Phases

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Phases

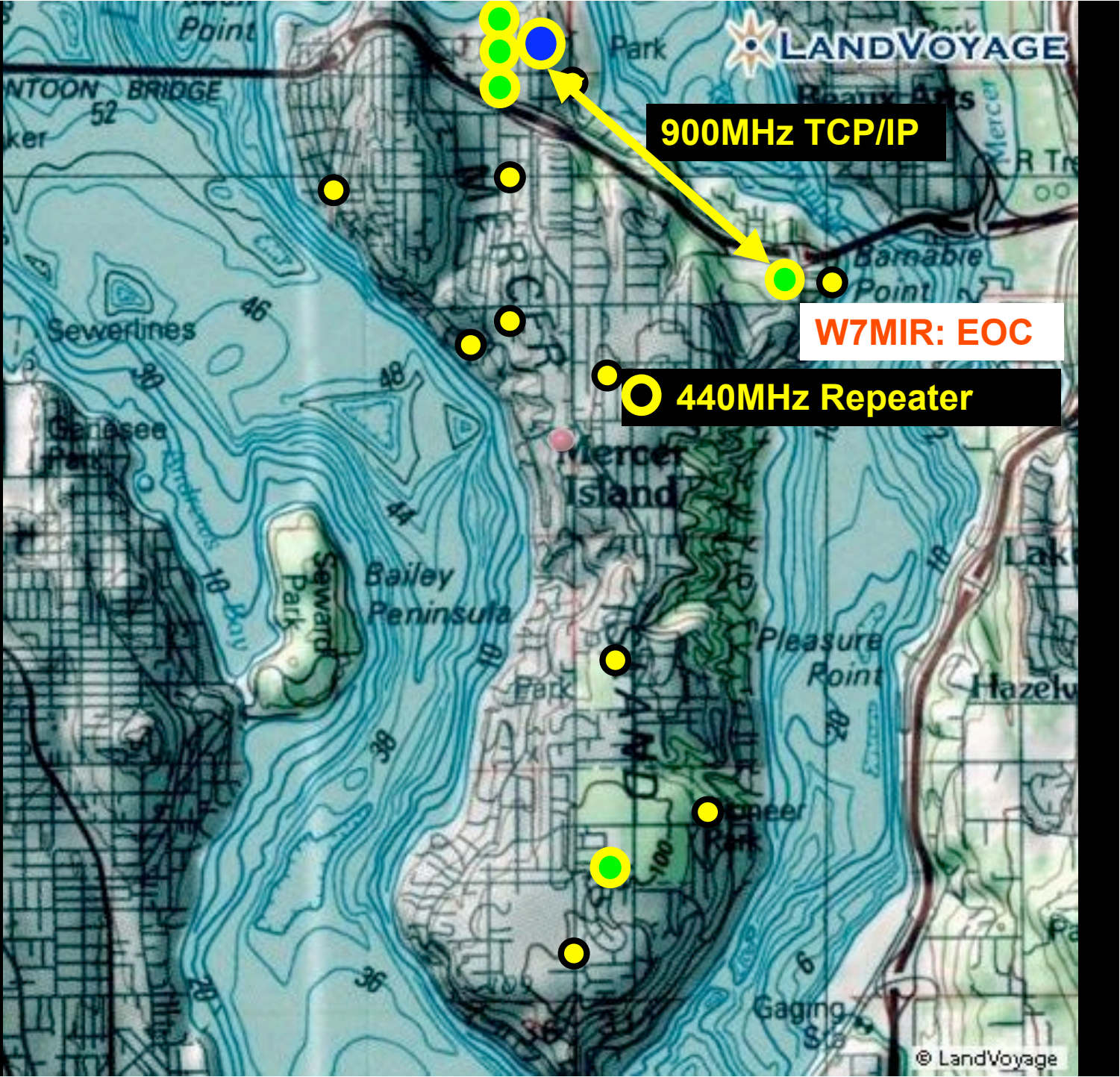
- PMBO ✓
- Mobile ✓
- EOC Link
- Repeater
- Shelters

- Paclink
- Telpac
- PMBO Mail Server
- Mobile
- Repeater

Phases

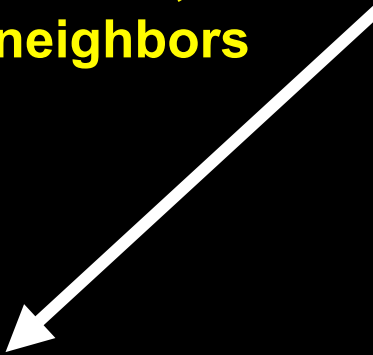
- PMBO ✓
- Mobile ✓
- EOC Link
- Repeater
- Shelters

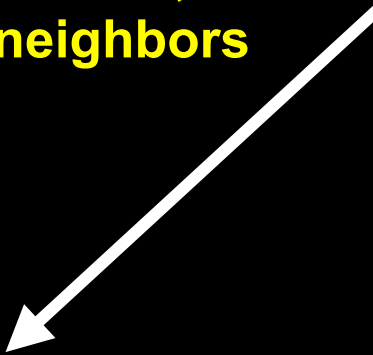
- Paclink
- Telpac
- PMBO Mail Server
- Mobile
- Repeater

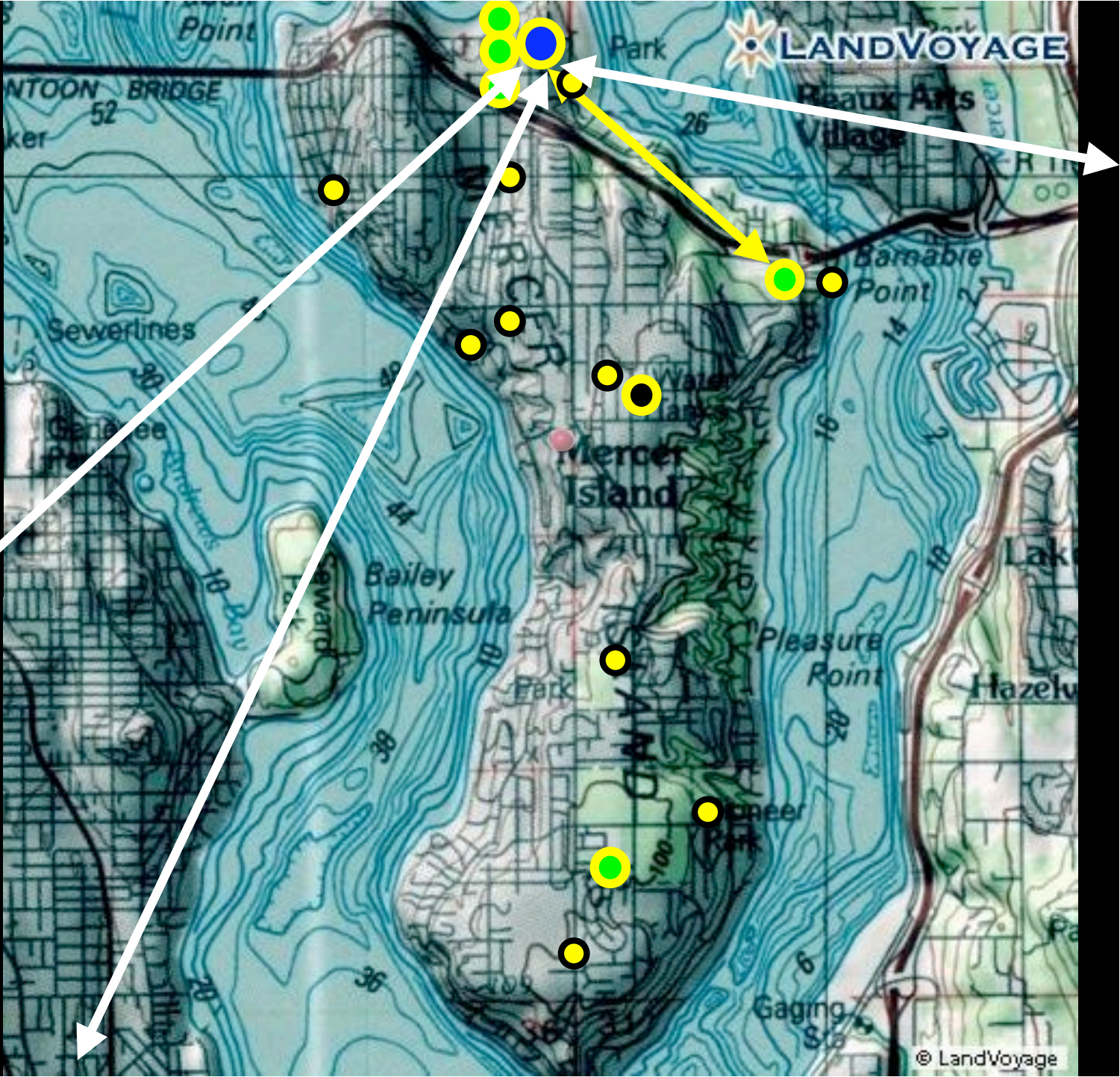


Phases

- PMBO ✓
- Mobile ✓
- EOC Link
- Repeater
- Shelters
- ARES, neighbors

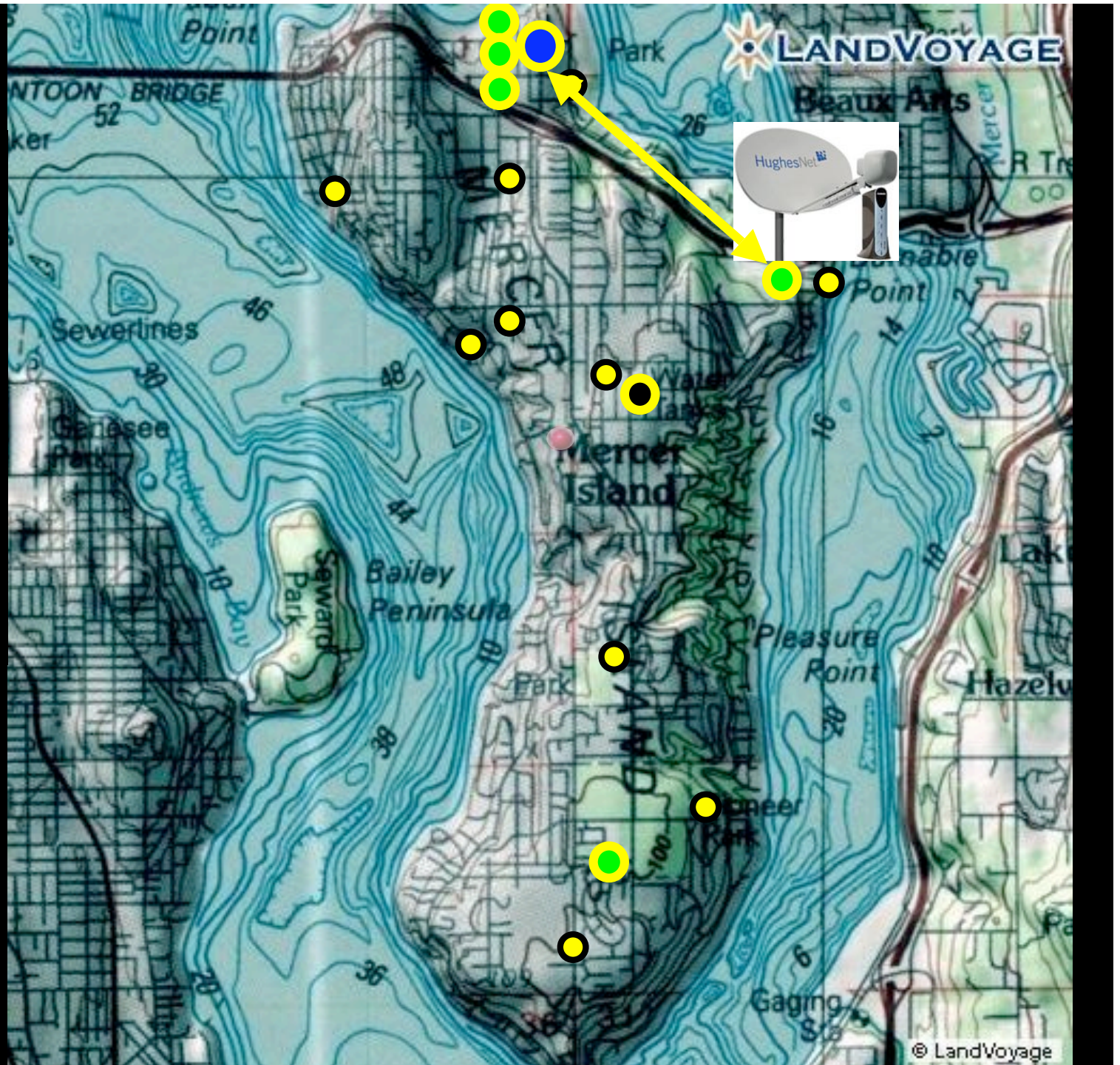


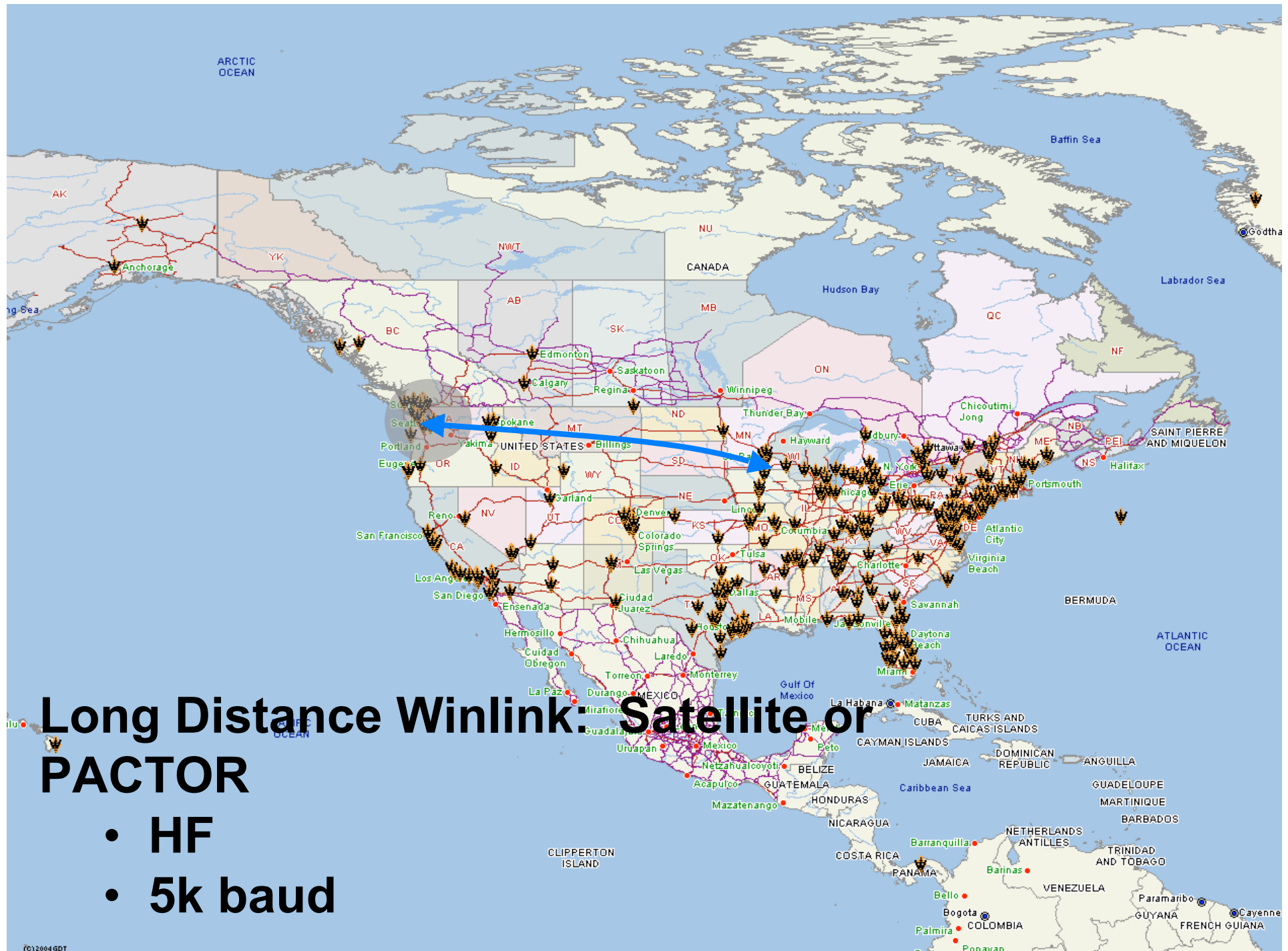
- # Phases
- PMBO ✓
 - Mobile ✓
 - EOC Link
 - Repeater
 - Shelters
 - ARES, neighbors
- 



Phases

- PMBO ✓
- Mobile ✓
- EOC Link
- Repeater
- Shelters
- ARES, neighbors
- Long haul







If not Winlink, what?
If not now, when?



MIRO

MIRO Information Contact

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wa6pxx@comcast.net