



Surveillance Technology and Automation Solutions (SAS)

AUTOMATIC DEPENDENT SURVEILLANCE – BROADCAST SEMINAR AND TWELFTH MEETING OF AUTOMATIC DEPENDENT SURVEILLANCE – BROADCAST (ADS-B) STUDY AND IMPLEMENTATION TASK FORCE (ADS-B SITF/12)

Kolkata, India, 15-18 April 2013

SP/9

The COMSOFT Quadrant Solution

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COMSOFT
is making the link

ADS-B and Quadrant

What is Quadrant?

- A family of products supporting ADS-B and multilateration applications
- Central to this solution is the Quadrant Sensor
 - Robust, low-power, high-performance unit
 - Ideal for remote deployment in harsh environments
 - Operates as ED-129 compliant 1090MHz ADS-B ground station
 - Operates as multilateration sensor within an ED-142-compliant multilateration system without any modification

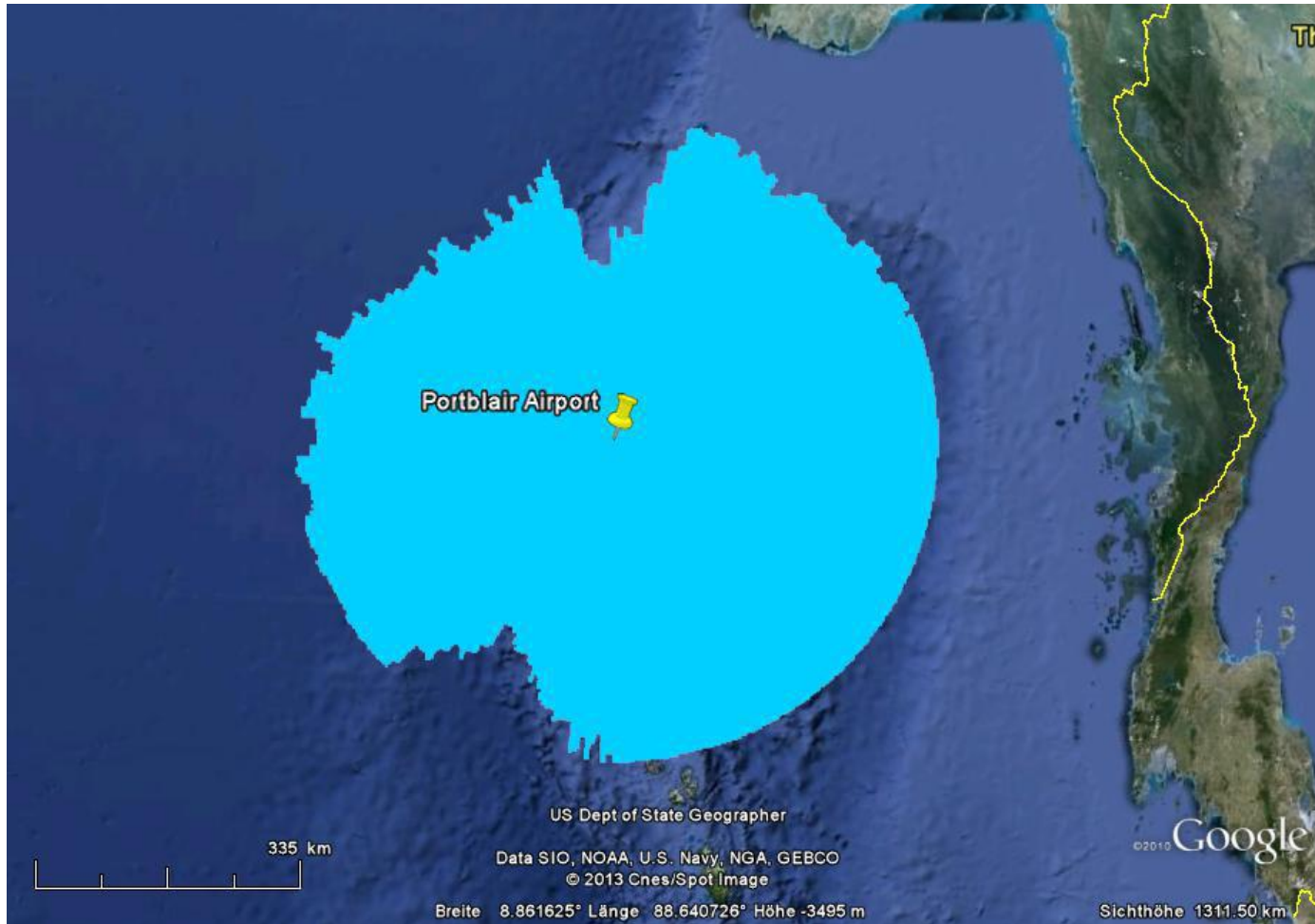


ADS-B system highlights

- Connection to existing ATM systems due to strict ASTERIX compliance.
- Complete system rollout with **ARTAS**, **PRISMA** ATM system and Controller working positions **CWP**.
- ED-129 and ED-142 compliance.
- Remote capabilities allowing remote upgrade of firmware and software.
- Very low power and small footprint.
- High processing capabilities within the ADS-B/WAM receiver.
- Satellite independent synchronisation for wide area multilateration using GPS as backup.

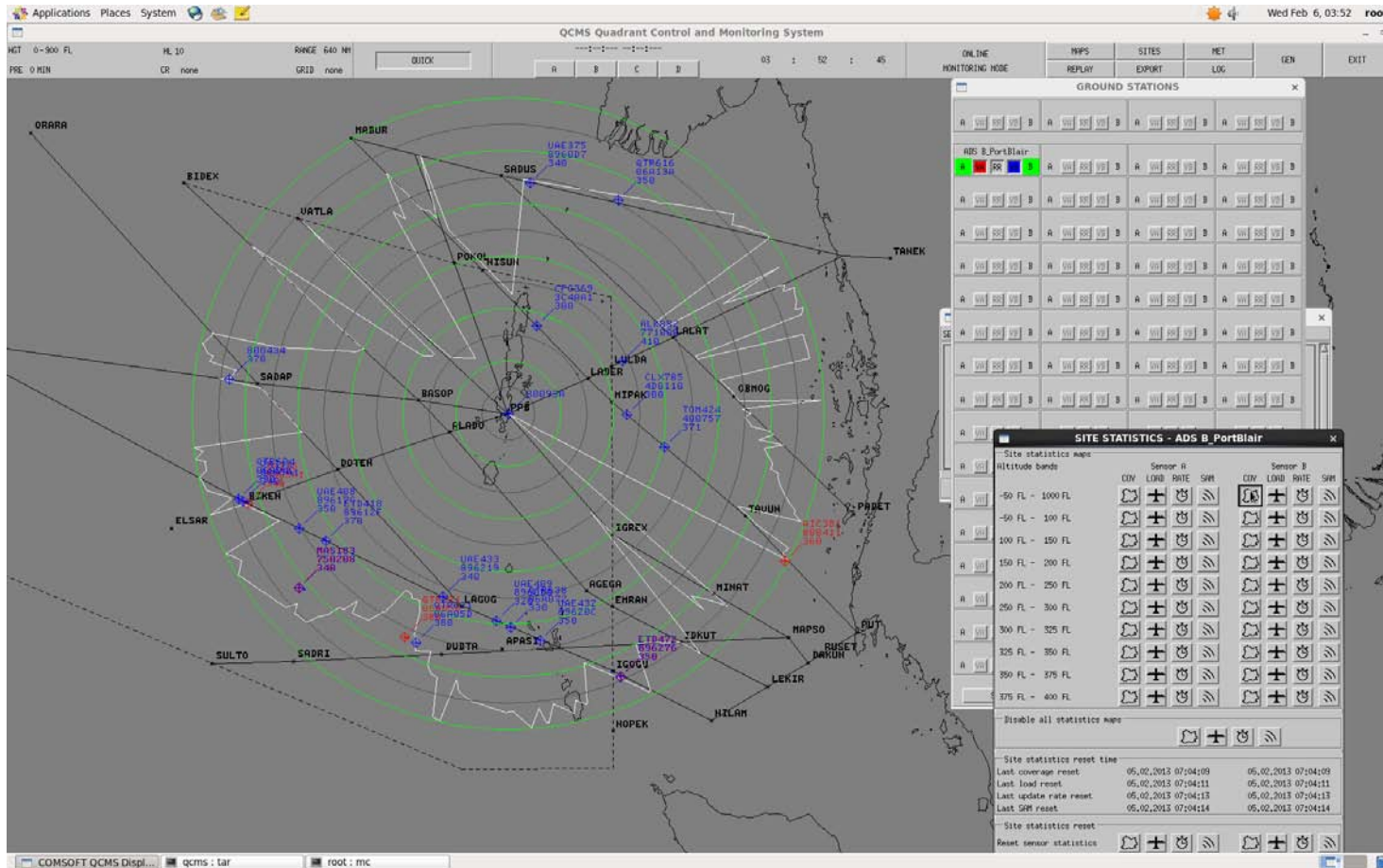


Coverage Analysis example



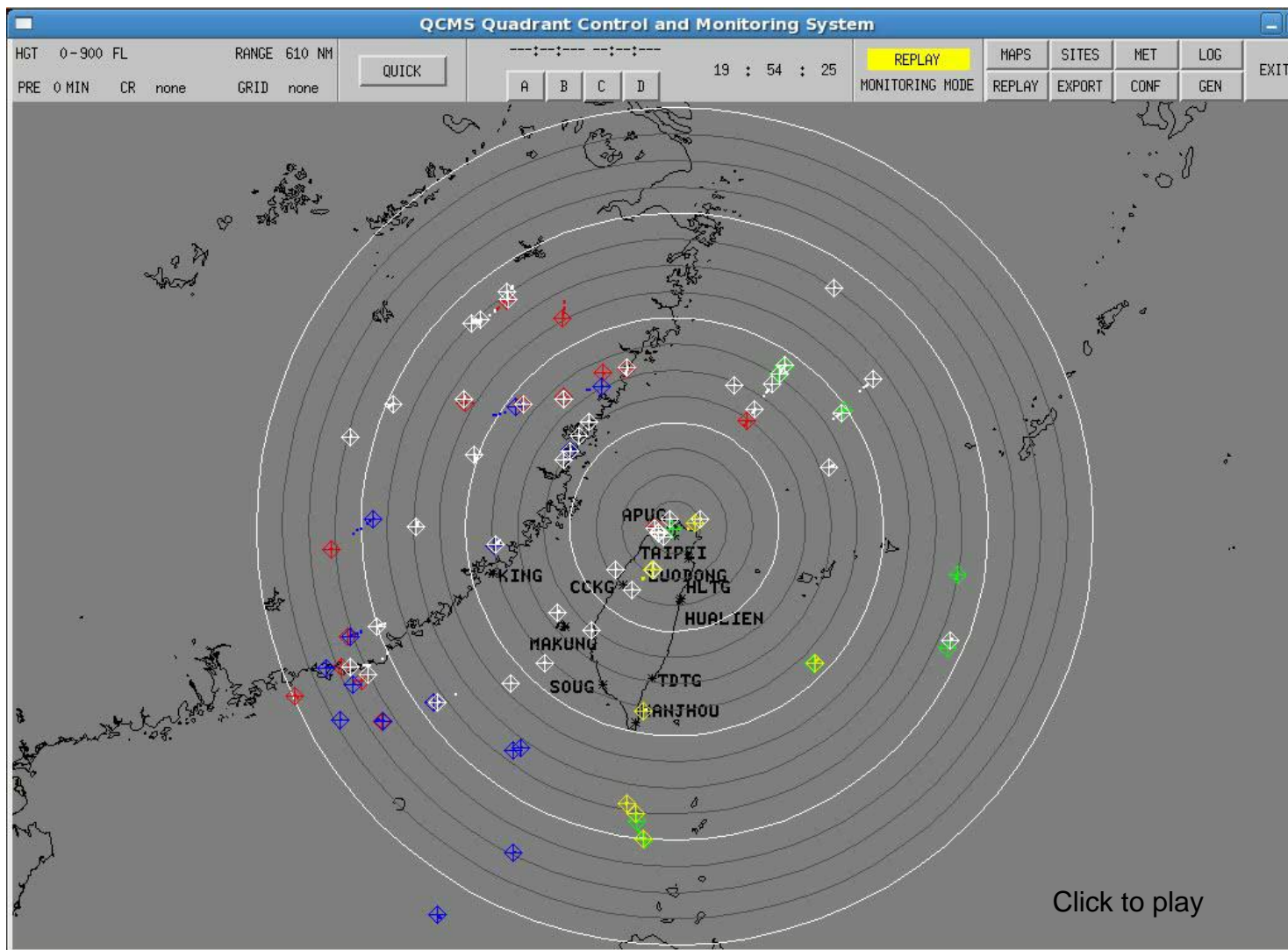
Port Blair Coverage at 20.000ft

Coverage statistics displayed with QCMS

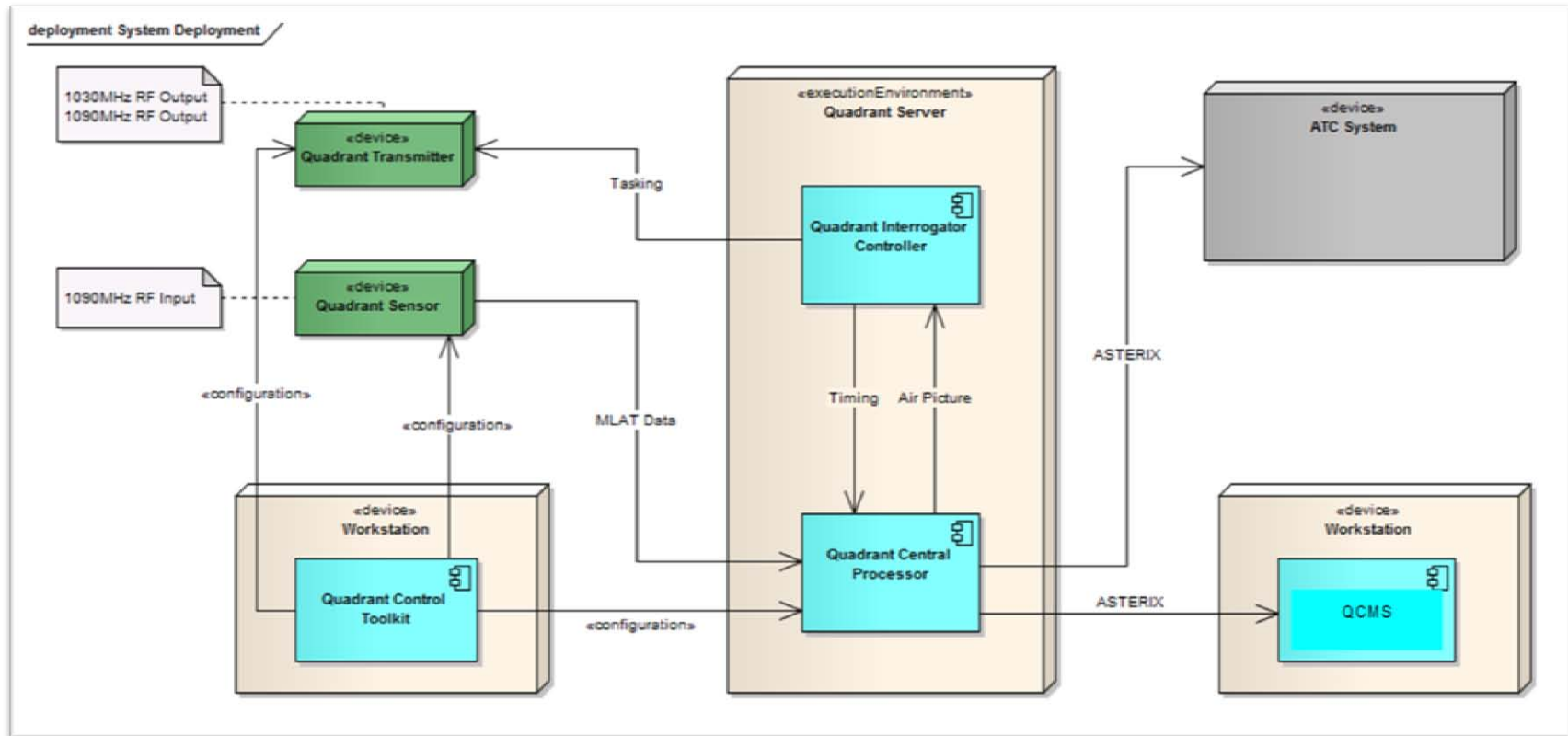


Port Blair Coverage Statistics

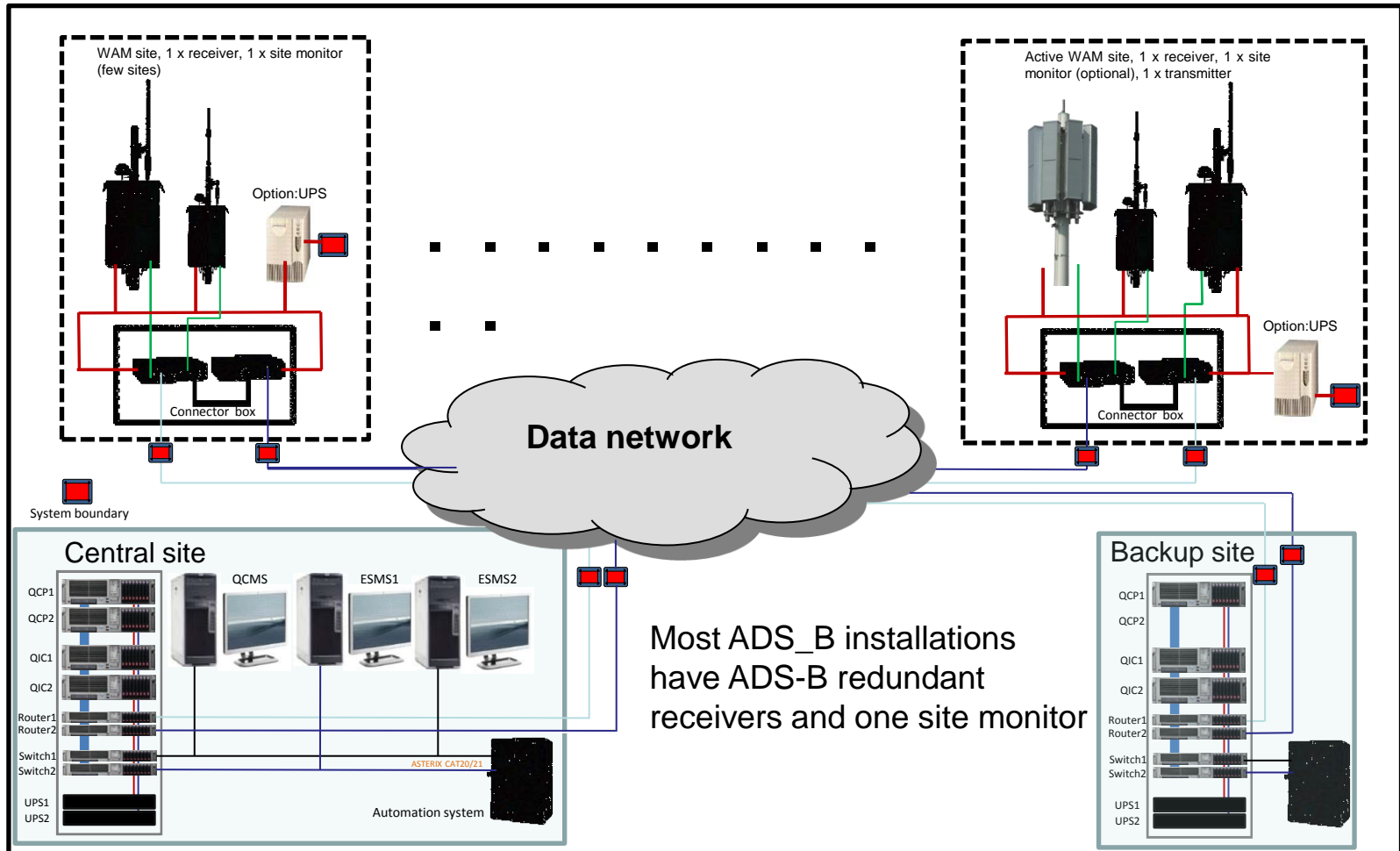
Coverage statistics displayed with QCMS



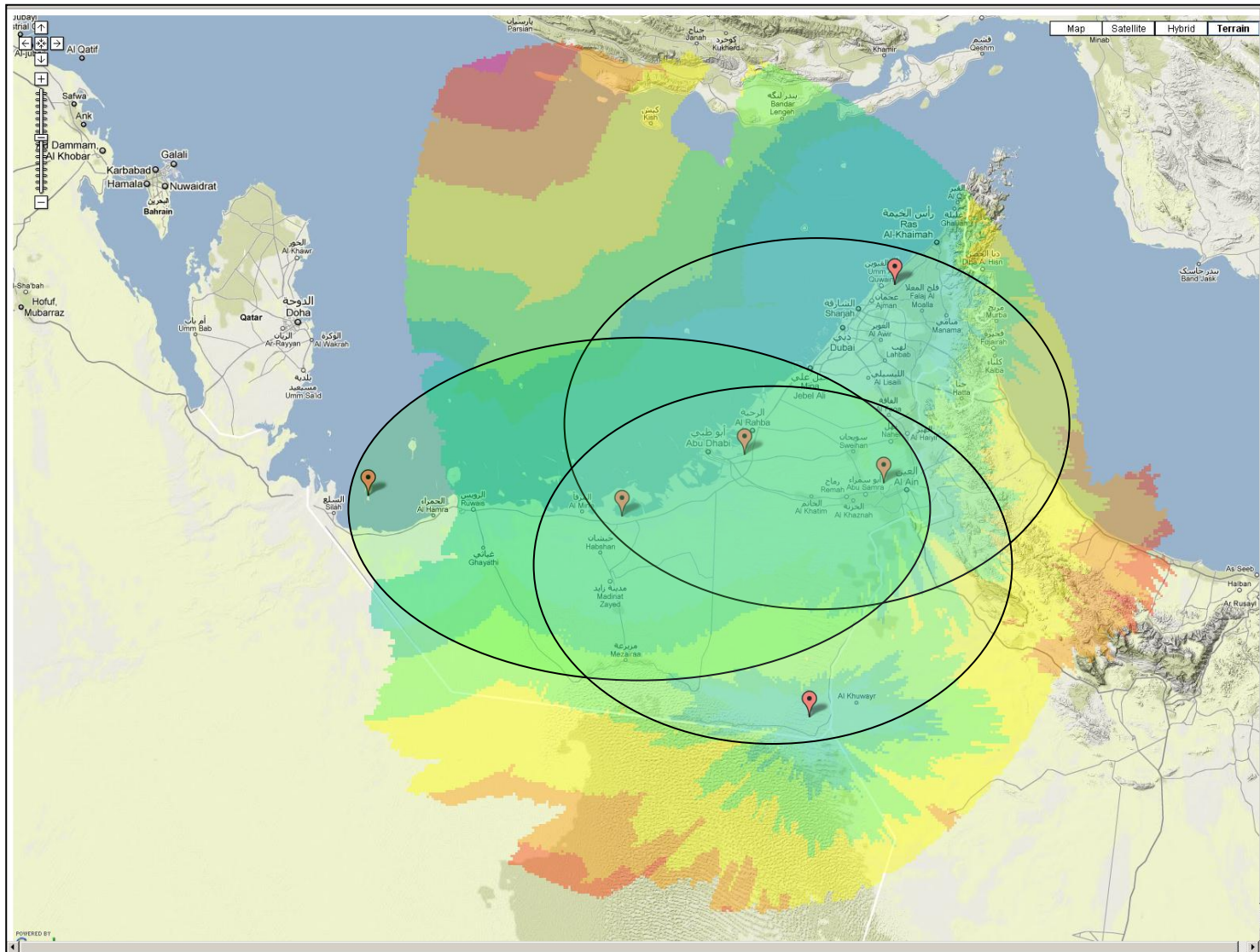
System Design - Architecture



System Deployment Example



MLAT system using ADS-B ground station clustering



Projects in Asia

- ADS-B in Singapore
- ADS-B and WAM in Taiwan
- ADS-B in India
- LAM/WAM A-SMGCS in Indonesia
- ADS-B in Maldives
- ADS-B in Vietnam

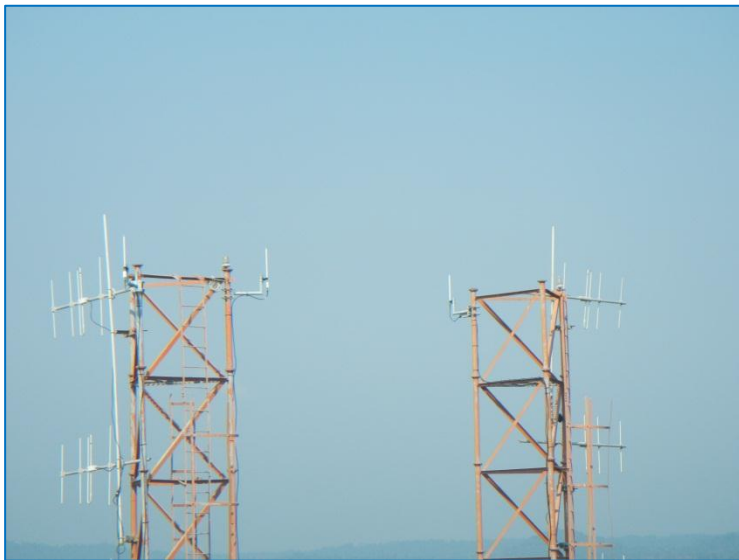
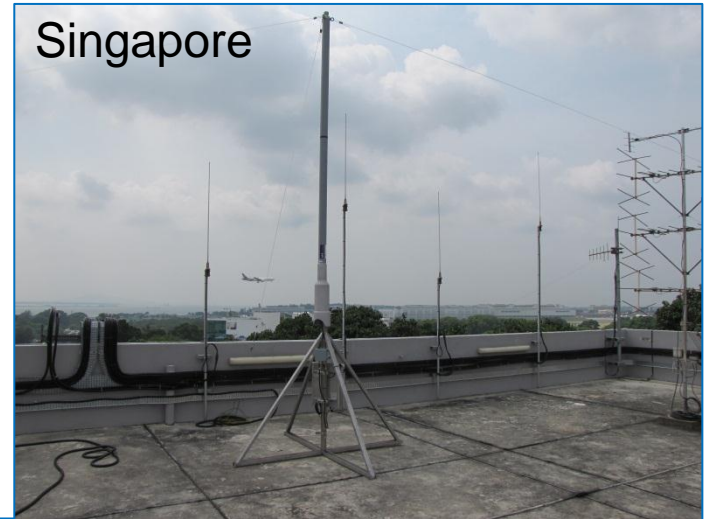


ASD-B Installation examples

Port Blair, India



Singapore



ASD-B Installation examples



ASD-B/WAM Installation examples



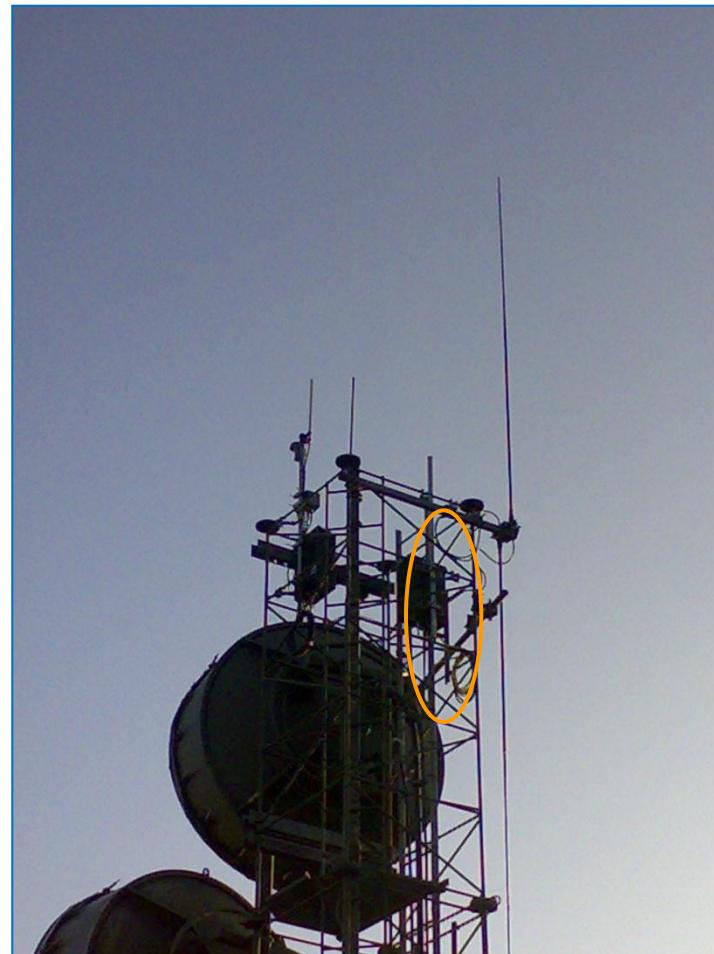
ASD-B Installation examples

UAE



ASD-B/WAM Installation examples

Norway



Questions ?

Thank you for your time !

We are always just a call or email away...

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