

# Wireless Roundup

## Spectrum Management 2010

**NSMA**

**May 18, 2010**

**Presented by David Meyer**



**COMSEARCH**

A CommScope Company

## Wireless Activity & Topics



- **AWS Clearinghouses' Reports**
- **3650 – 3700 MHz Filings/Deployments**
- **Consolidated Licensing System**
- **Part 25/74/101 Coordination Activity**
- **Nationwide Broadband Plan**
- **Conference Topics**

## CTIA Spectrum Clearinghouse

	<b>07/1/08 -12/31/08</b>	<b>Lifetime</b>
<b>Links</b>	<b>201</b>	<b>727</b>
<b>Aggregate Amt</b>	<b>\$39.2 M</b>	<b>\$150 M</b>
<b>Avg \$/Link</b>	<b>\$195 K</b>	<b>\$207 K</b>

## PCIA AWS Clearinghouse

	<b>07/1/08 -12/31/08</b>	<b>Lifetime</b>
<b>Links</b>	<b>27</b>	<b>38</b>
<b>Aggregate Amt</b>	<b>\$1.9 M</b>	<b>\$4.5 M</b>
<b>Avg \$/Link</b>	<b>\$69.7 K</b>	<b>\$120 K</b>

# AWS Clearinghouses' Rpts (ET No 00-258)

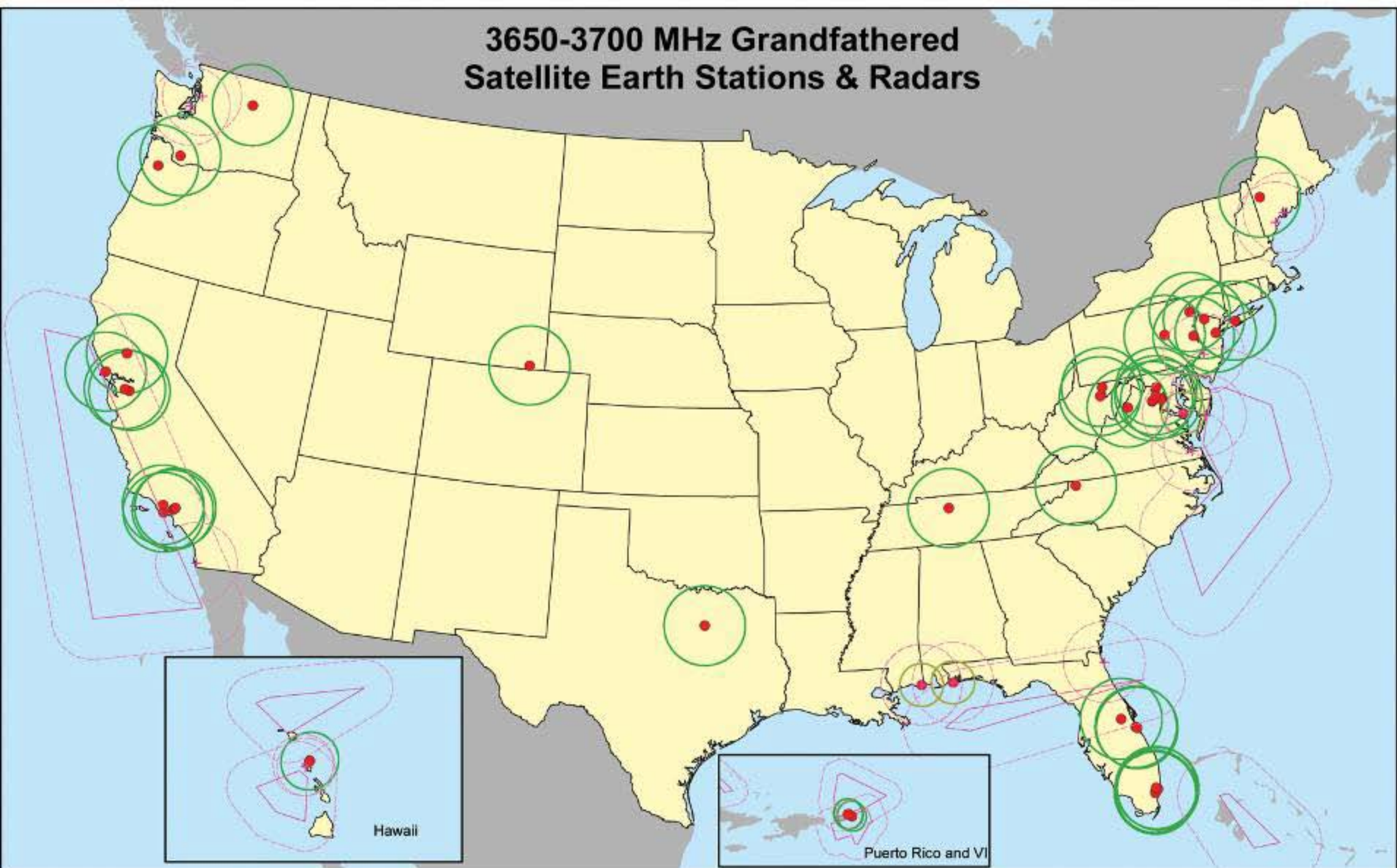
## CTIA Spectrum Clearinghouse

	<b>07/1/09 -12/31/09</b>	<b>Lifetime</b>
<b>Links</b>	<b>100</b>	<b>927</b>
<b>Aggregate Amt</b>	<b>\$14.8 M</b>	<b>\$185.5 M</b>
<b>Avg \$/Link</b>	<b>\$148 K</b>	<b>\$200 K</b>

## PCIA AWS Clearinghouse

	<b>07/1/09 -12/31/09</b>	<b>Lifetime</b>
<b>Links</b>	<b>0</b>	<b>11</b>
<b>Aggregate Amt</b>	<b>\$0.0 M</b>	<b>\$2.81 M</b>
<b>Avg \$/Link</b>	<b>\$0.0 K</b>	<b>\$255 K</b>

# 3650-3700 MHz Grandfathered Satellite Earth Stations & Radars



## Legend

- FSS Earth Stations
- ✦ Radar Locations
- 80-KM Radius
- 150-KM Radius
- OPAREA Boundaries
- 150 km Contours



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## 3650 – 3700 Radio Service

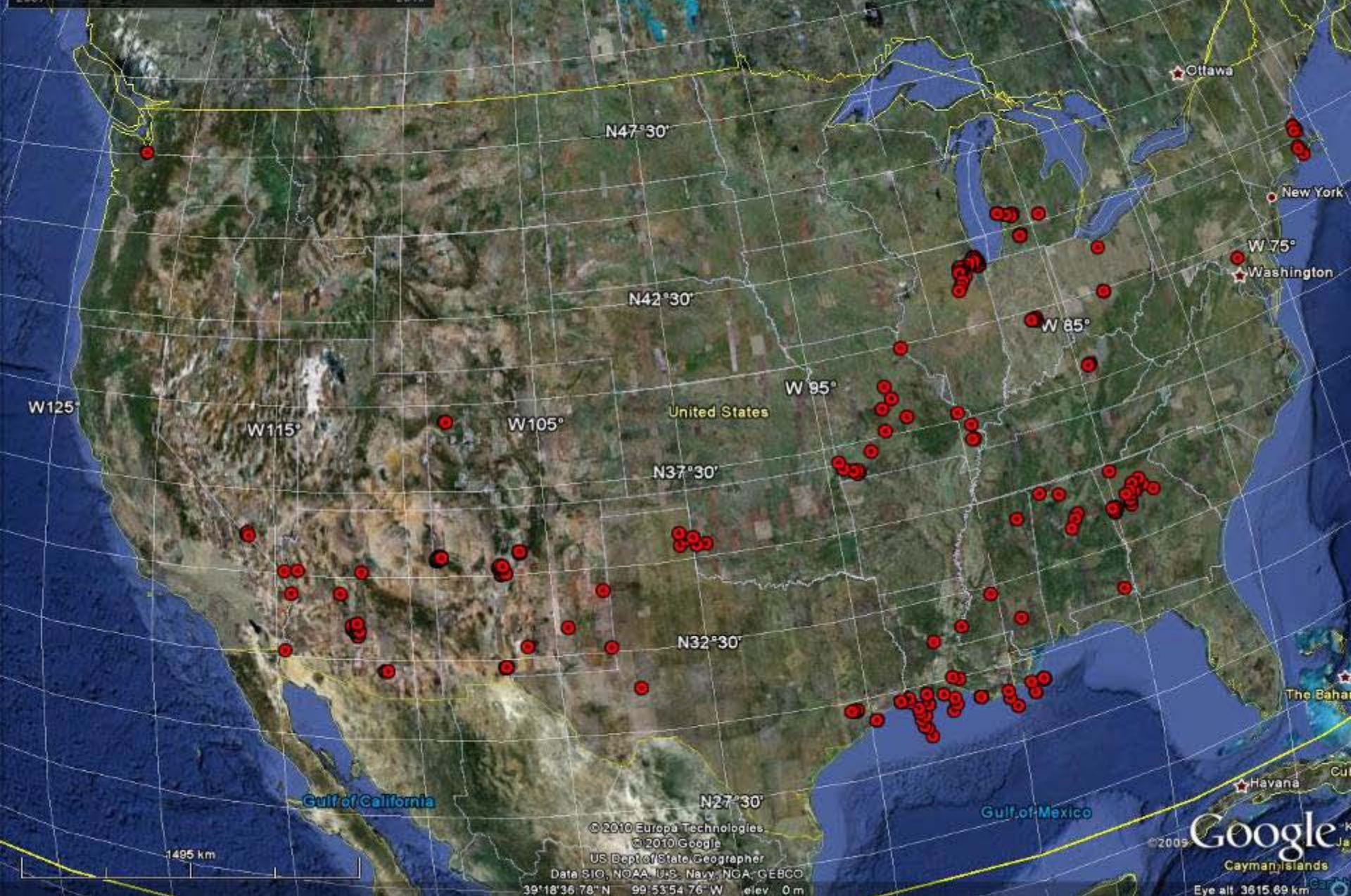
3650-3700 Licenses (Nov'07 – Apr'09)	Total FCC Registrations	
	Nationwide	Site
<b>Totals</b>	<b>845</b>	<b>1388</b>
<b>Azulstar, Inc.</b>	<b>1</b>	<b>195</b>
<b>Neptuno Media</b>	<b>1</b>	<b>90</b>
<b>SpeedNet, LLC</b>	<b>1</b>	<b>86</b>
<b>Sacred Wind Communications, Inc.</b>	<b>1</b>	<b>71</b>
<b>AirTap Communications, LLC</b>	<b>1</b>	<b>67</b>
<b>Enbridge Energy Company, Inc.</b>	<b>1</b>	<b>61</b>
<b>Pooley, Allen L</b>	<b>1</b>	<b>50</b>
<b>IDT Spectrum, LLC</b>	<b>1</b>	<b>45</b>
<b>Centerpoint Energy Inc</b>	<b>1</b>	<b>35</b>
<b>Chevron USA Inc.</b>	<b>1</b>	<b>35</b>
<b>Exxon Communications Corporation</b>	<b>1</b>	<b>35</b>



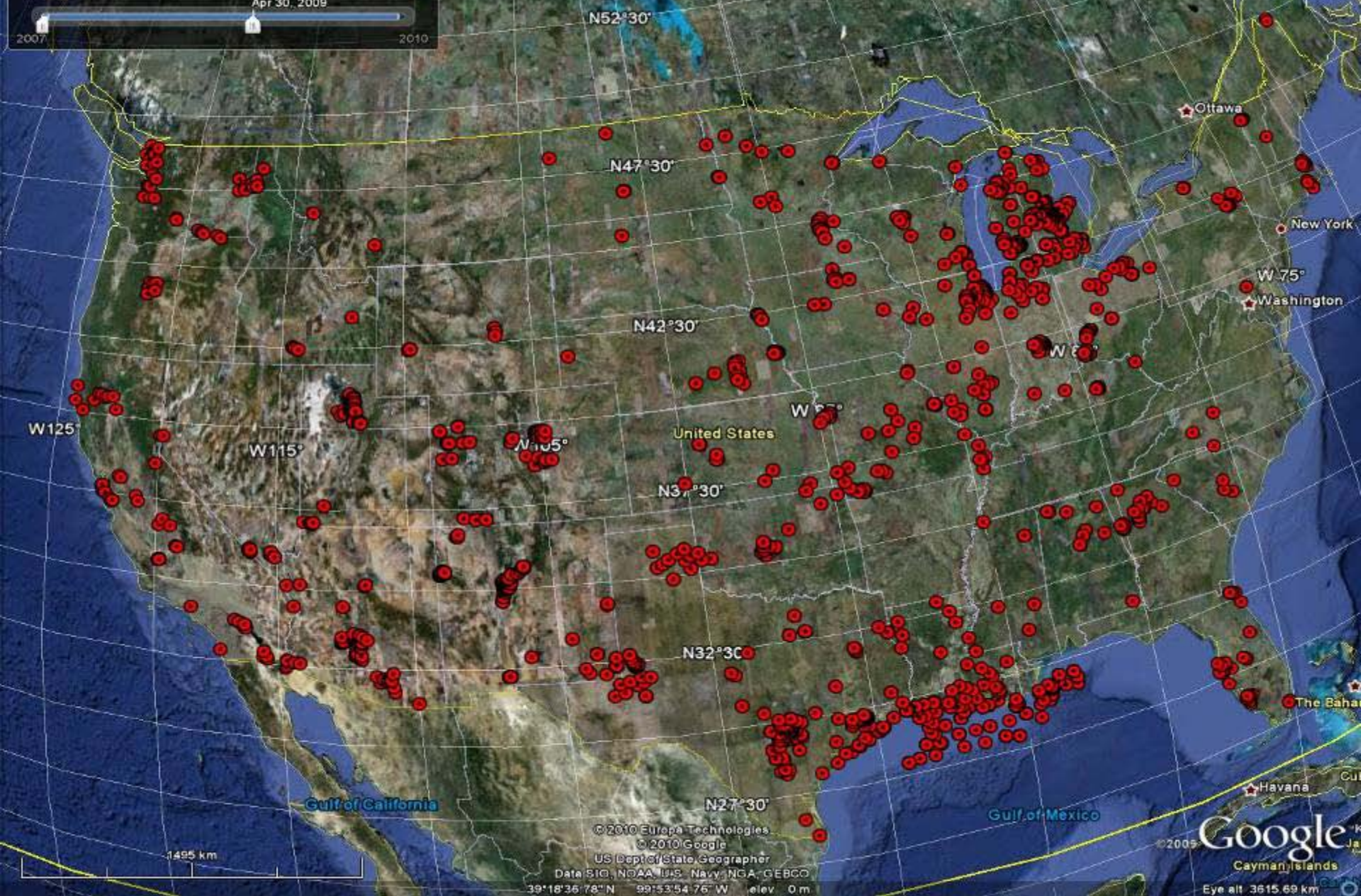
## 3650 – 3700 Radio Service

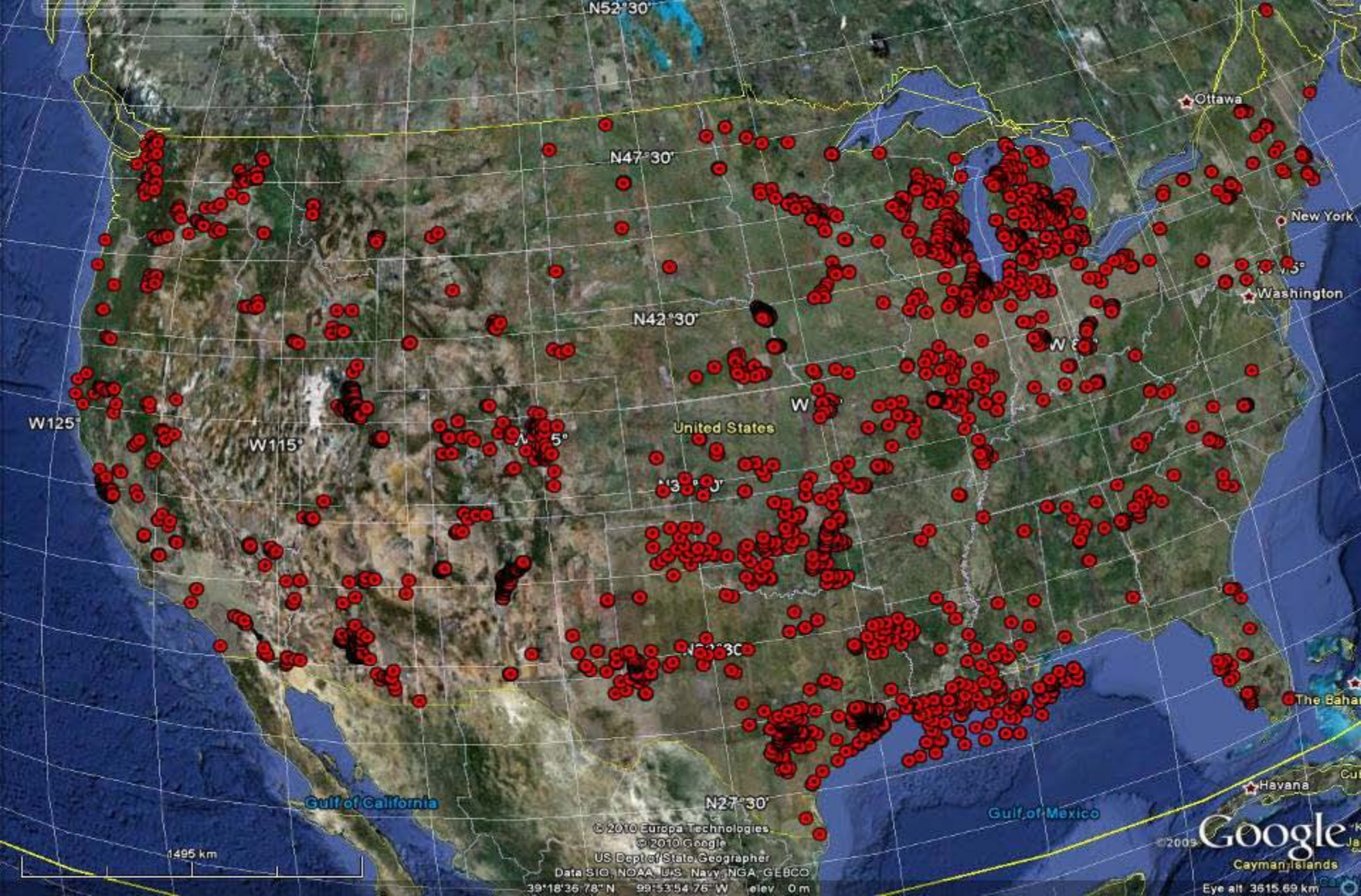
3650-3700 Licenses (Nov'07 – Apr'10)	Total FCC Registrations	
	Nationwide	Site
<b>Totals</b>	<b>1309</b>	<b>5257</b>
<b>Centerpoint Energy Inc</b>	<b>1</b>	<b>1641</b>
<b>SWWG, LLC</b>	<b>1</b>	<b>514</b>
<b>N-1 Communications, LLC</b>	<b>1</b>	<b>265</b>
<b>Adventure Communication Tech</b>	<b>1</b>	<b>262</b>
<b>Azulstar, Inc.</b>	<b>1</b>	<b>232</b>
<b>Neptuno Media</b>	<b>1</b>	<b>116</b>
<b>Speednet, LLC</b>	<b>1</b>	<b>109</b>
<b>The Blue Zone West, LLC</b>	<b>1</b>	<b>102</b>
<b>Trex Broadband</b>	<b>1</b>	<b>92</b>
<b>Chevron USA Inc.</b>	<b>1</b>	<b>89</b>
<b>Granite Wireless, Inc.</b>	<b>1</b>	<b>86</b>











# Consolidated Licensing System

## FCC Holding Workshops to Review Process, Requirements, Needs, Opinions

- **Electronic Filing, Correspondence and Notifications**
- **Application Process**
- **Access to CLS Data**
- **Phased-in Implementation**
- **Exceptions**

# Coordination Activity

Type	May06–Apr07	May07–Apr08	May08–Apr09	May09-Apr10
Part 101–Mic Paths	<b>12,881</b>	<b>16,235</b>	<b>14,718</b>	<b>34,140</b>
Part 101 – (MAS)	<b>844</b>	<b>717</b>	<b>849</b>	<b>507</b>
Part 74 Mic Paths – CARs/Aux Brdcst	<b>1,763</b>	<b>1,680</b>	<b>1,726</b>	<b>1,389</b>
Part 25 - ES Temporaries	<b>1,075</b>	<b>1,211</b>	<b>1,244</b>	<b>1,120</b>
Part 25 – ES Permanent	<b>426</b>	<b>357</b>	<b>267</b>	<b>222</b>
<b>Total</b>	<b>16,989</b>	<b>20,200</b>	<b>18,804</b>	<b>37,378</b>



# Nationwide Broadband Plan

## FCC Mandate – American Recovery & Reinvestment Act

- **Develop a forward-looking national broadband plan to ensure that all Americans have access to broadband capability.**
- **Contribute to efforts of the Departments of Commerce and Agriculture to award \$7.2 billion in grants, loans, and loan guarantees to hasten roll-out of the facilities needed to provide broadband and educate consumers to use this infrastructure.**
- **Collect and report far more detailed and comprehensive information on the status of broadband deployment, adoption, and use, including how broadband service in the US compares to broadband service in other countries.**

# National Broadband Goals

- Goal 1:** At least 100 million U.S. homes should have affordable access to actual download speeds of at least 100 megabits per second and actual upload speeds of at least 50 megabits per second.
- Goal 2:** The United States should lead the world in mobile innovation, with the fastest and most extensive wireless networks of any nation.
- Goal 3:** Every American should have affordable access to robust broadband service, and the means and skills to subscribe if they so choose.
- Goal 4:** Every community should have affordable access to at least 1 Gbps broadband service to anchor institutions such as schools, hospitals and government buildings.
- Goal 5:** To ensure the safety of Americans, every first responder should have access to a nationwide public safety wireless network.
- Goal 6:** To ensure that America leads in the clean energy economy, every American should be able to use broadband to track and manage their real-time energy consumption.

### **NSMA Objectives – [www.nsma.org](http://www.nsma.org)**

**Develop technical and procedural recommendations for coordination of wireless telecommunications systems and services**

**Provide a linkage between government regulations and industry practice by developing recommendations that streamline and standardize procedures used by the frequency coordination community.**

**Proactively advise regulatory bodies on matters affecting radio frequency spectrum policy pertaining to terrestrial microwave, satellite systems, and emerging technology radio services**

# Conference Topics – Tuesday May 18<sup>th</sup>

- **Recent Spectrum Developments** - **9:15 AM**  
Bryan Tramont, Esq – Wilkinson, Barker, Knauer, LLP
- **The Power of ICT in Energy Sustainability & LCA** - **10:00 AM**  
Tim Jeffries, Vice President Technology & Development, ATIS
- **NTIA Band Rechannelization & Freq Coord** - **11:00 AM**  
Del Morrison, NTIA
- **Next Generation Backhaul Networks** - **1:15 PM**  
Vishnu Sahay, Director Regulatory Affairs & Standards, Aviat Networks



## Conference Topics – Tuesday May 18<sup>th</sup>

- **Satellite Interference Issues (Panel)** - **2:00 PM**  
Robert Ames, SUIRG, Moderator  
Roger Franklin, President, Crystal Computer Corp.  
David Hartshorn, Secretary General. GVF  
Adam Edwards, Secretary, SUIRG  
Jeff Kimble, Manager, Customer Support Engineer, Intelsat  
Jeff Watts, Senior Manager, Payload Management Oper., SES
- **Updates to the FCC ULS System** - **3:30 PM**  
Dorothy Stiflemire, Associate Division Chief for Outreach, Spectrum Management Resources and Technology, FCC
- **Developing Sites Using Green Technology** - **4:00 PM**  
Jim Wolfson, President, X-DOT Communciations
- **Update on the NSMA Organization** - **4:30 PM**  
Ken Ryan, NSMA President, Skjei Telecom, Inc.

## Conference Topics – Wednesday May 19<sup>th</sup>

- **NSMA Working Group 3 Session** - **8:30 AM**  
Larrie Sutliff – AT&T, Chairman WG3
- **Key Note Speaker** - **9:00 AM**  
Stuart Benjamin, Distinguished Scholar in Residence, FCC
- **Industry Association Roundtable** - **9:30 AM**  
Carlos Nalda, Squire Sanders & Dempsey, Moderator  
Mitchell Lazarus, Fixed Wireless Communications Coalition  
Paul Sanderbrand, Wireless Communications Association Intl.  
Steve Doiron, Satellite Industry Association  
Brett Kilbourne, Utilities Telecom Council
- **Surviving the Spectrum Shortage** - **11:00 AM**  
Mitchell Lazarus, Fletcher Heald & Hildreth PLC

# Conference Topics – Wednesday May 19<sup>th</sup>

- **EARS: Listening to the Future of Radio Spectrum - 11:30 AM**  
Dr. Andrew Clegg, Program Director, Electromagnetic Spectrum Management Unit, National Science Foundation
- **TV White Space – Where We Are and What is Next – 1:00 PM**  
Mark Gibson, Senior Director, Business Development, Comsearch
- **Microwave Rain Outage Calculations Using Specific Rain Rates – Why Crane Was All Wet - 1:45 PM**  
George Kiser, Consultant Microwave System Design and Products
- **NSMA Board Meeting - 2:30 PM**

# Thank You for Your Time

## Enjoy the 2010 Conference



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