



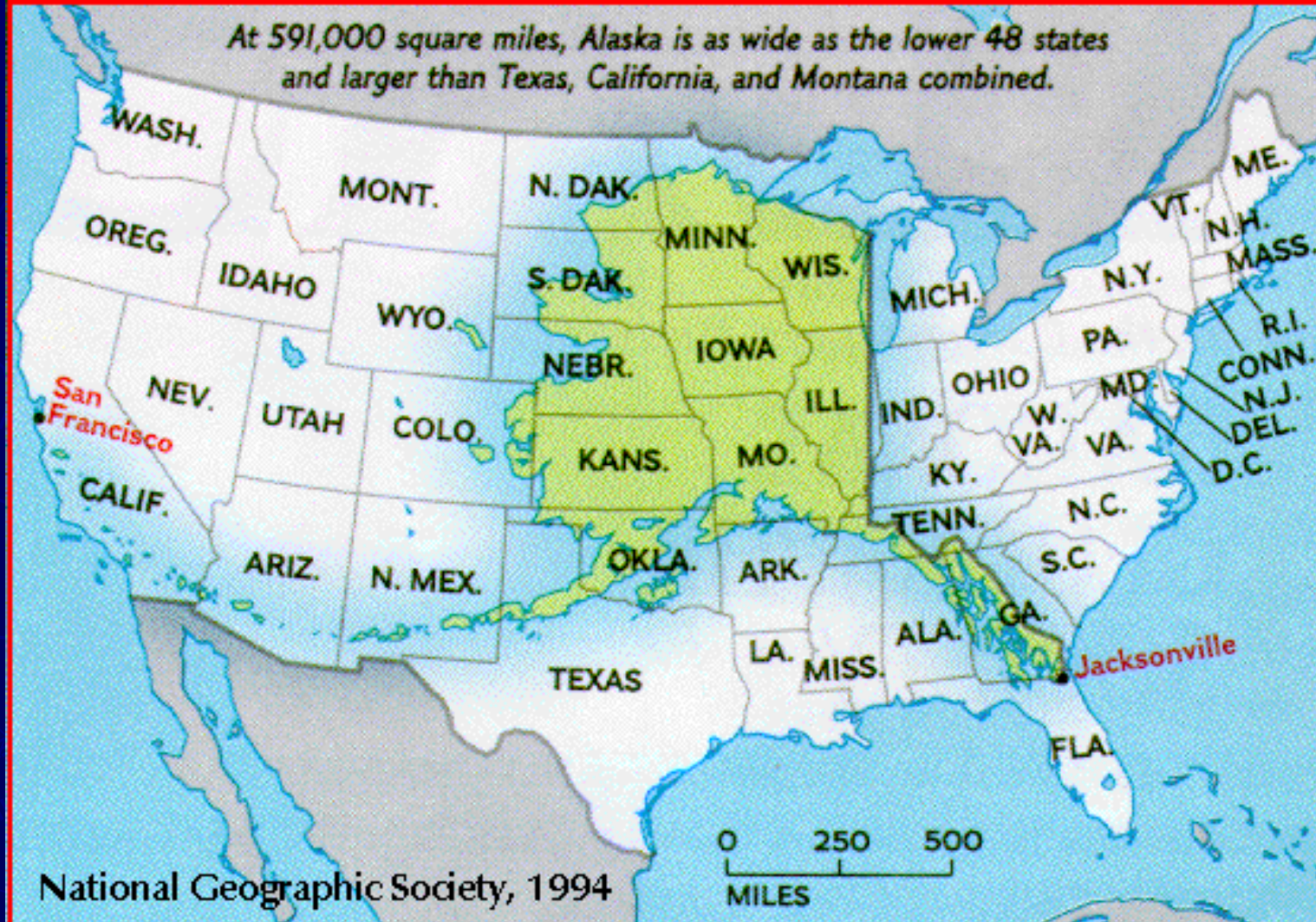
# Tribal Air Monitoring in Alaska

Barbara Trost

State of Alaska DEC



# Alaska's Challenges

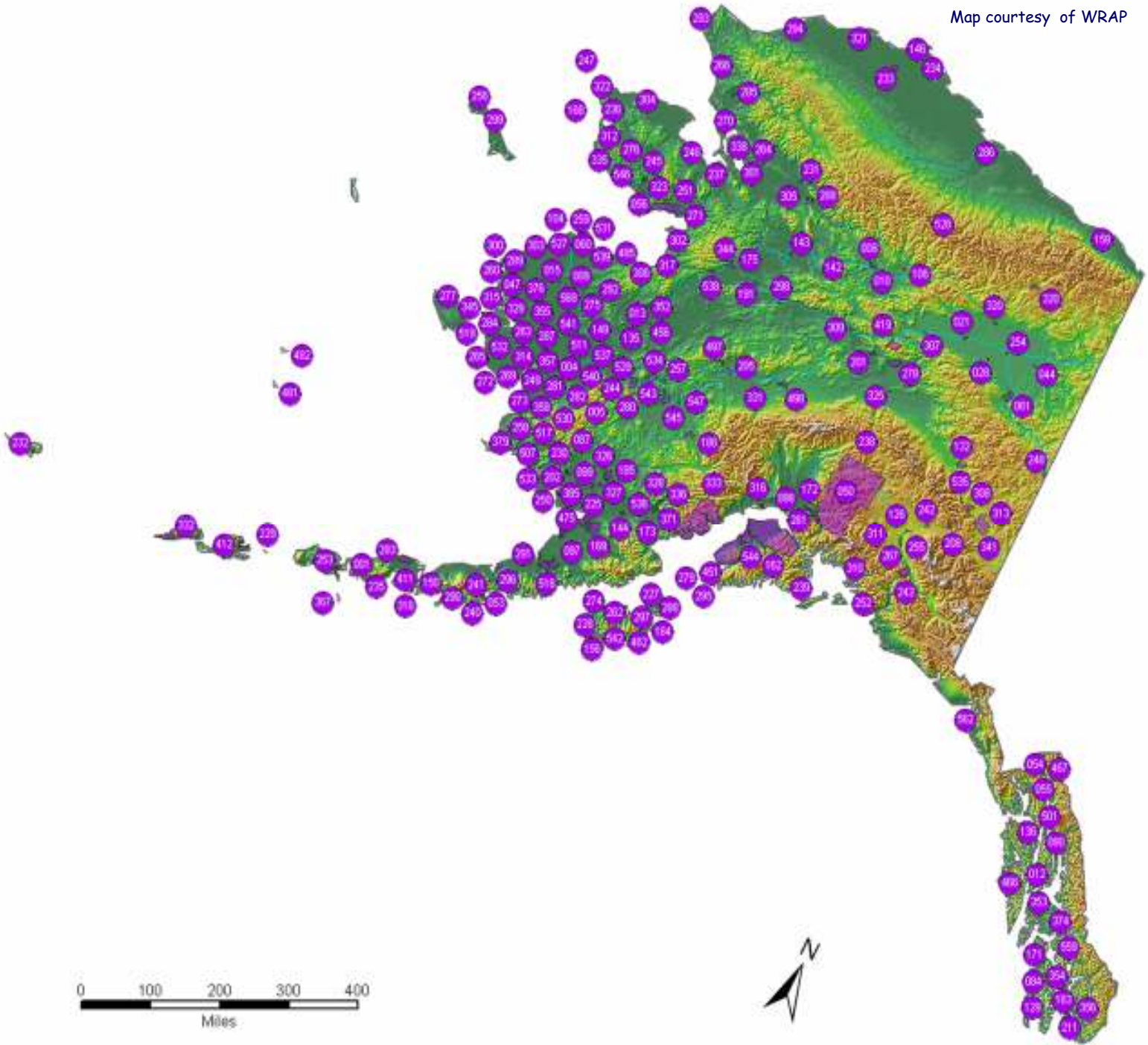


# Alaska Native Claims Settlement Act (ANCSA, 1971)

- ▶ Initiated by Native leadership, opposed BIA oversight
- ▶ Gave Alaska Native peoples 44 million acres to settle land claims
- ▶ Provided for \$962,500,000 in cash payments
- ▶ Established regional and village corporations
- ▶ Revoked reservations in Alaska (except Metlakatla)
- ▶ Revoked the Native Allotment Act
- ▶ Required up to 80 million acres of Federal land in Alaska be studied for inclusion in National Parks, Refuges and Forests
- ▶ ANSCA does not address governmental rights
- ▶ Alaska Natives are Alaskan Citizens



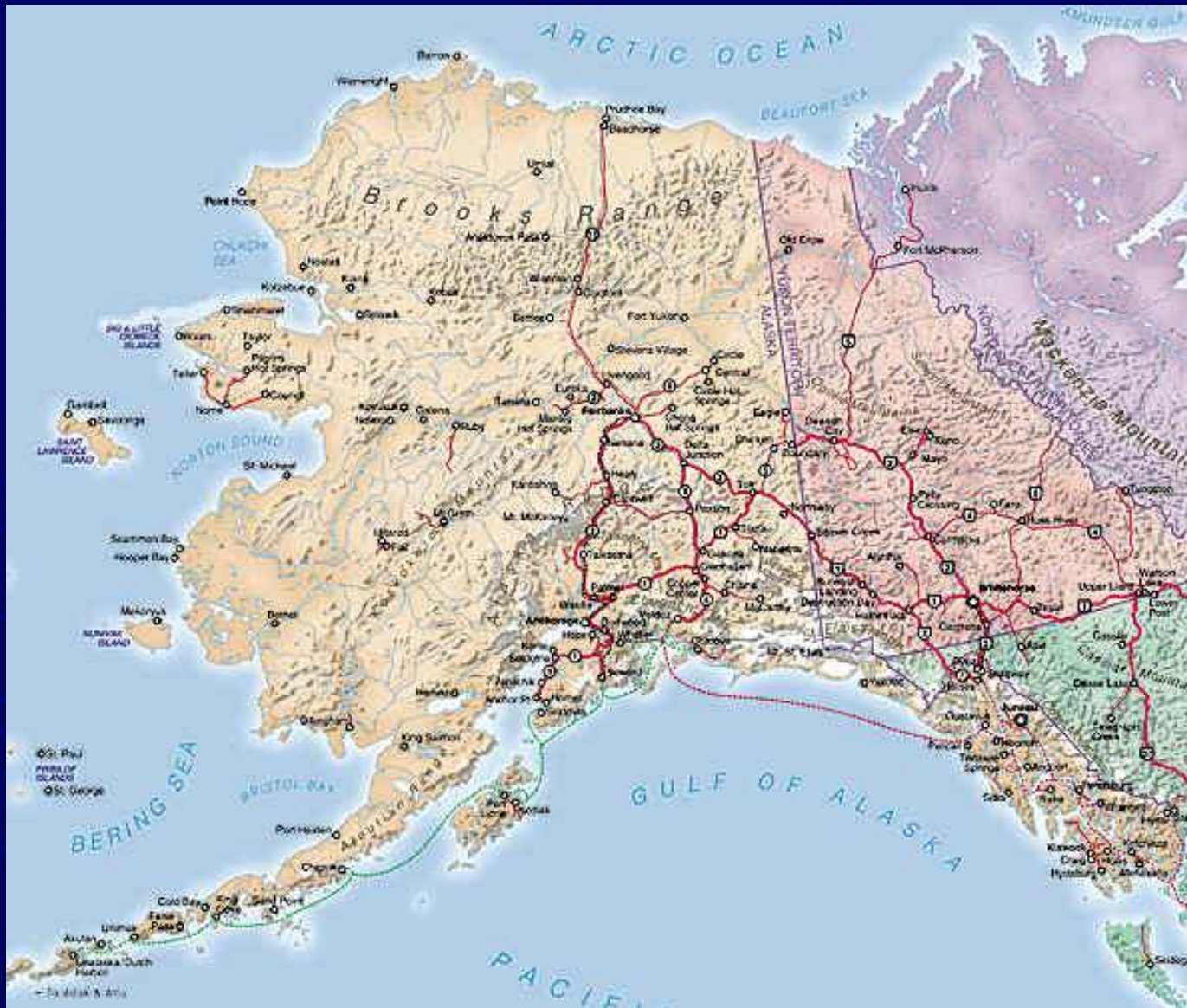
Map courtesy of WRAP



# Tribal/Rural Concerns

- ▶ Dust -  $PM_{10}$
- ▶ Wood smoke -  $PM_{2.5}$
- ▶ Burning landfills -  $PM_{2.5}$  , air toxics?
- ▶ Vehicle exhaust -  $PM_{2.5}$  , air toxics
- ▶ Honey buckets
- ▶ Asbestos
- ▶ Indoor air

# Alaska's Challenges





# Rural Sources of $PM_{10}$

- ▶ Dirt Roads - automobile/4 wheeler traffic Exposed riverbeds/shoreline - 4 wheelers/wind
- ▶ Gravel pits - quarry operations
- ▶ Un-vegetated lots - human activity/winds
- ▶ Airport runways - plane traffic/winds

# A Large Village Dust Source



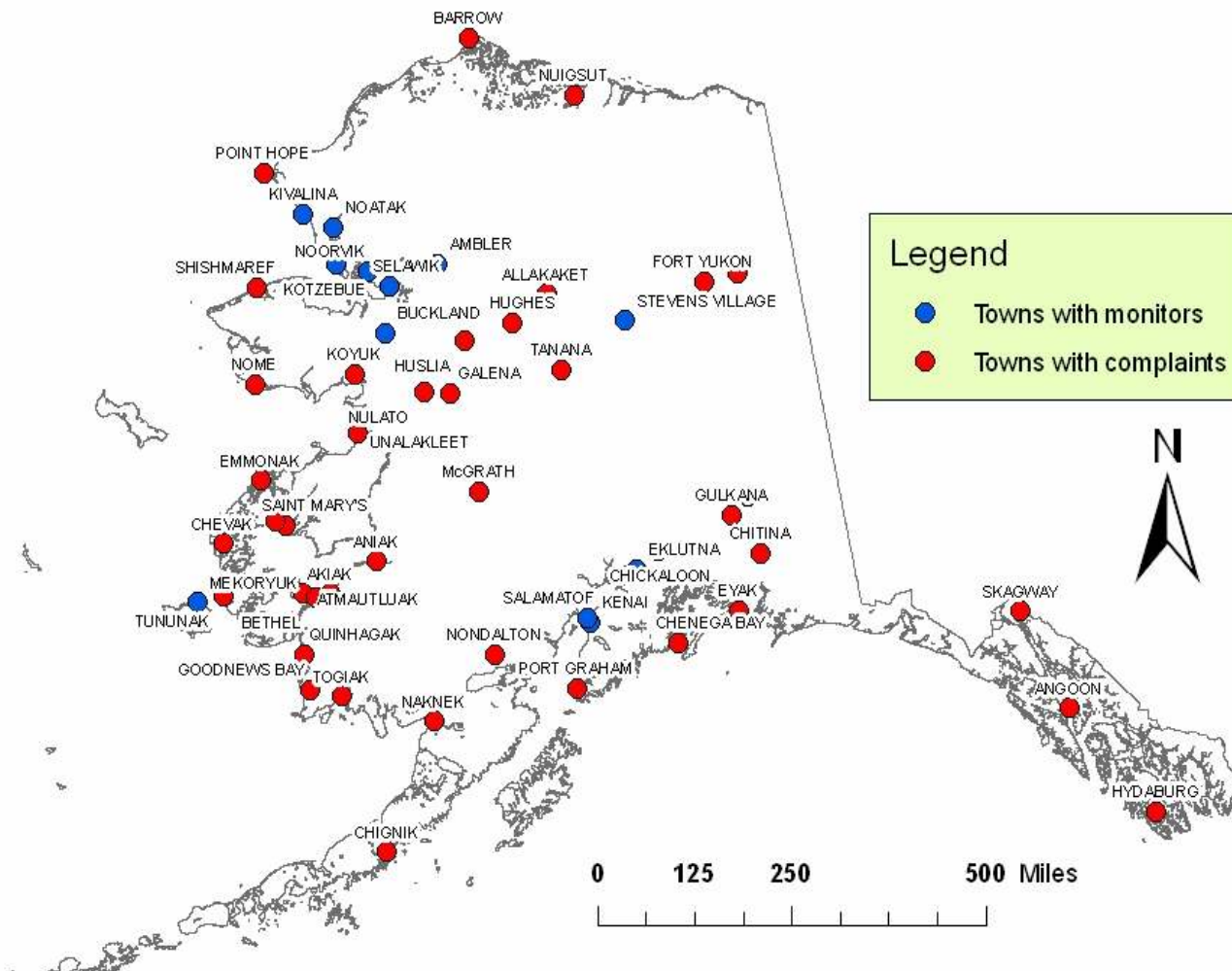




Kotzebue

# Alaska's Challenges

## PM10 Communities - Monitoring and Complaints





# Dust Monitoring in Rural Villages

- ▶ Over 50 villages have expressed concerns about dust
- ▶ 12 villages have/are conducting monitoring for dust
- ▶ 8 villages have recorded exceedances of the PM10 standard
  - Max values above  $600 \mu\text{g}/\text{m}^3$

# Rural Sources of PM<sub>2.5</sub>

- ▶ Wood smoke
- ▶ Vehicle exhaust
- ▶ Burning landfills
- ▶ Wild fires



# Burning Dump



# What We Breathe



Courtesy of Noatak IRA



# Why We Do Air Monitoring

