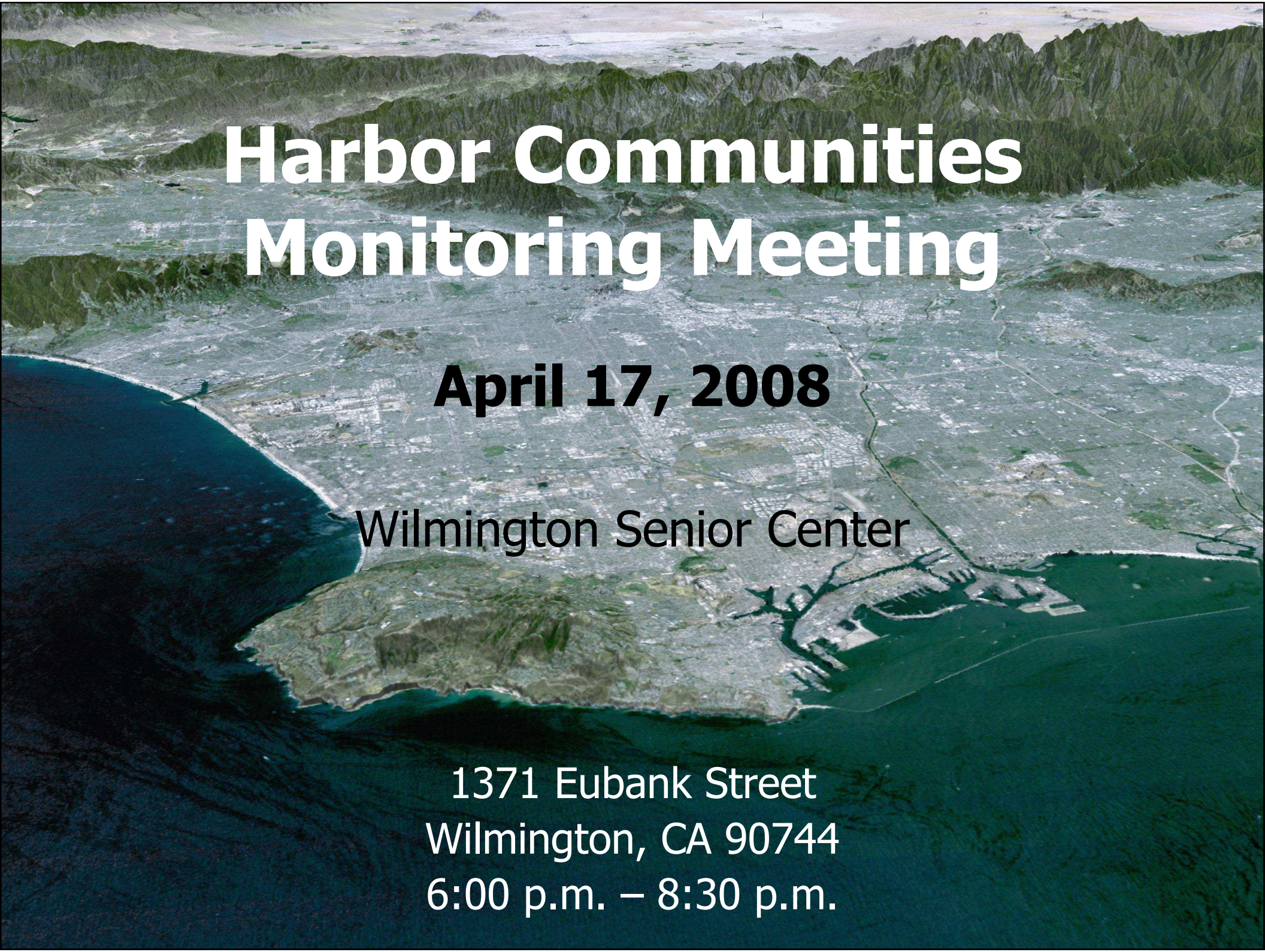


Harbor Communities Monitoring Meeting

April 17, 2008

Wilmington Senior Center

1371 Eubank Street
Wilmington, CA 90744
6:00 p.m. – 8:30 p.m.

Agenda

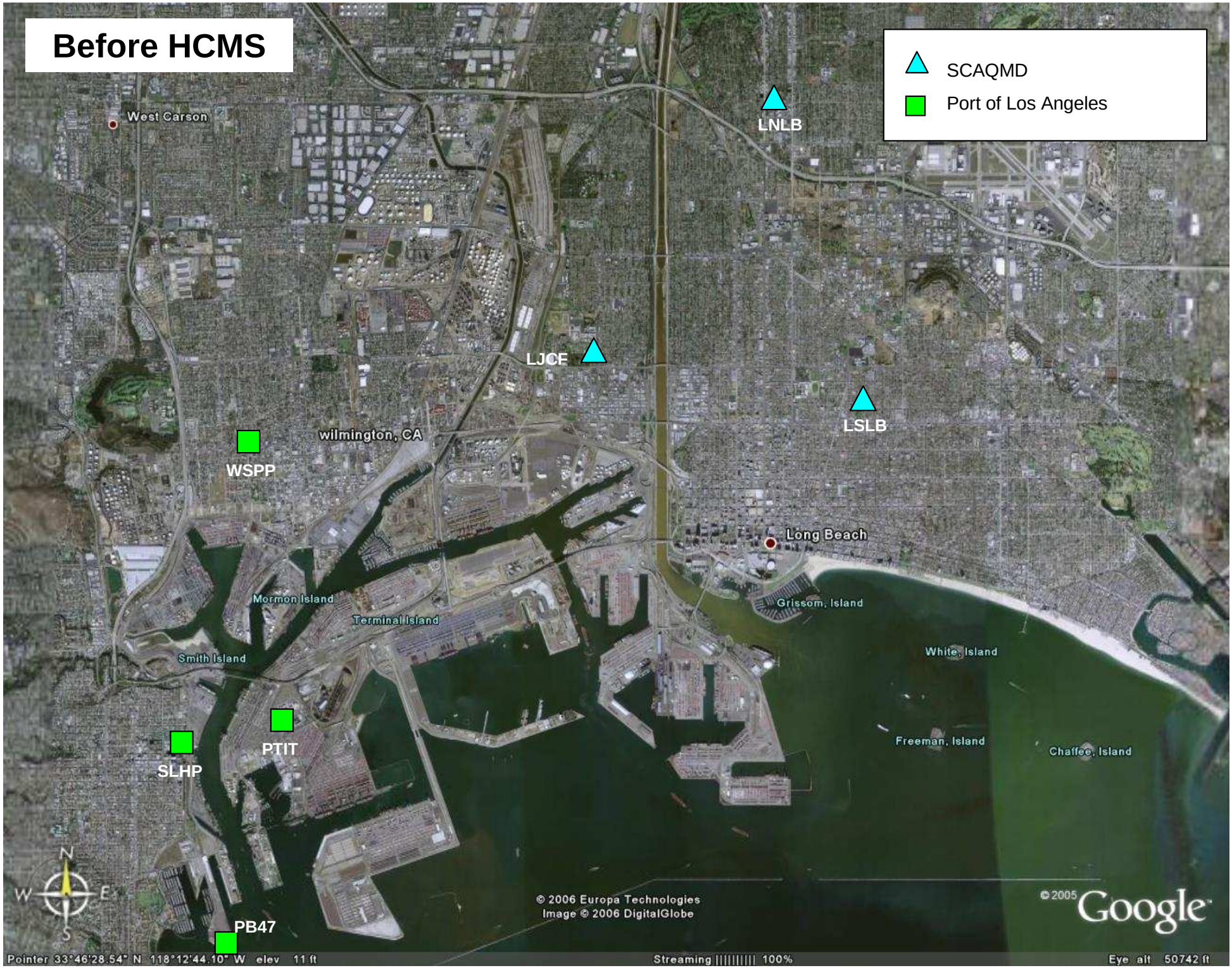
- Introductions
- Overview of CARB's Harbor Communities Monitoring Study
- Overview of preliminary results
  - Desert Research Institute Air Quality Study
  - UCLA Mobile Platform Study
  - USC Ultra-fine Particle Count Study
- Continuing/planned monitoring efforts
  - SCAQMD
  - Ports of Los Angeles and Long Beach
  - UCLA Time-Location Activity Study
- General Q&A/discussion
- Technical Q&A/discussion

Major Objectives of the HCMS

1) Characterize spatial & temporal variations in pollutants – assess permanent network
2) Characterize pollutant concentration gradients near various types of emission sources
3) Characterize baseline conditions as various emission reduction programs take effect
4) Investigate lower cost approach for estimating annual mean concentrations of toxic compounds

Major Sampling Efforts in HCMS

1) DRI – various air quality measurements
   - 23 sites, 4 seasons, 4 weeks/season
2) UCLA – mobile monitoring platform
   - 12-15 days (am/pm)/season (winter/summer/+)
3) USC – particle counts
   - 12 sites, continuous (mid-Feb – mid-Dec)


Before HCMS
SCAQMD
Port of Los Angeles
LNLB
LJCF
LSLB
WSPP
PTIT
SLHP
PB47
West Carson
wilmington, CA
Long Beach
Mormon Island
Terminal Island
Smith Island
Grissom, Island
White, Island
Freeman, Island
Chaffee, Island
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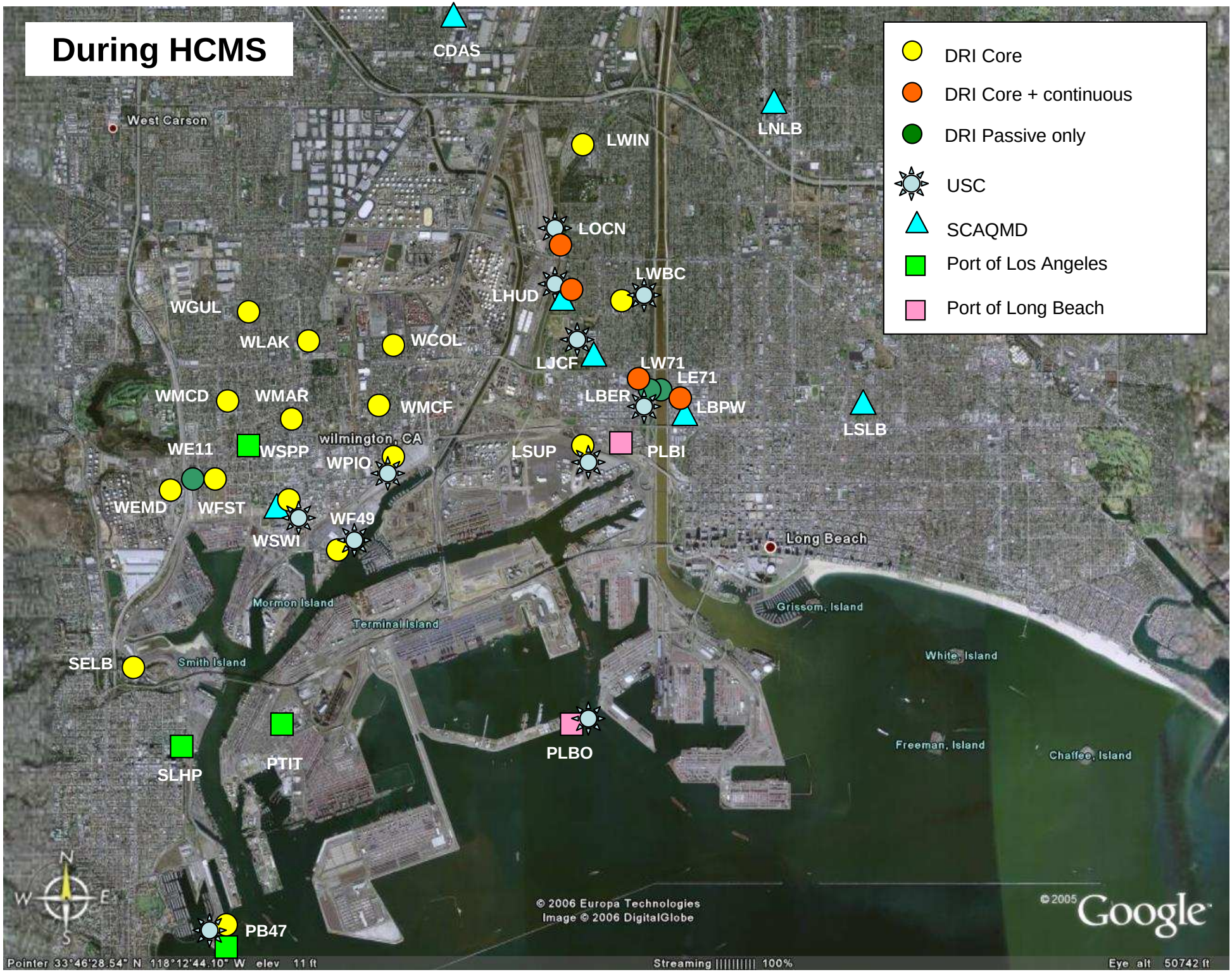
During HCMS
DRI Core
DRI Core + continuous
DRI Passive only
USC
SCAQMD
Port of Los Angeles
Port of Long Beach
CDAS
LNLB
LWIN
LOCN
LWBC
LHUD
WGUL
WLAK
WCOL
LJCF
LW71
LE71
LBER
LBPW
WMCD
WMAR
WMCF
LSLB
WE11
WSPP
wilmington, CA
WPIO
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PLBI
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WFST
WSWI
WF49
Long Beach
Mormon Island
Terminal Island
Grissom, Island
White, Island
SELB
Smith Island
PLBO
Freeman, Island
Chaffee, Island
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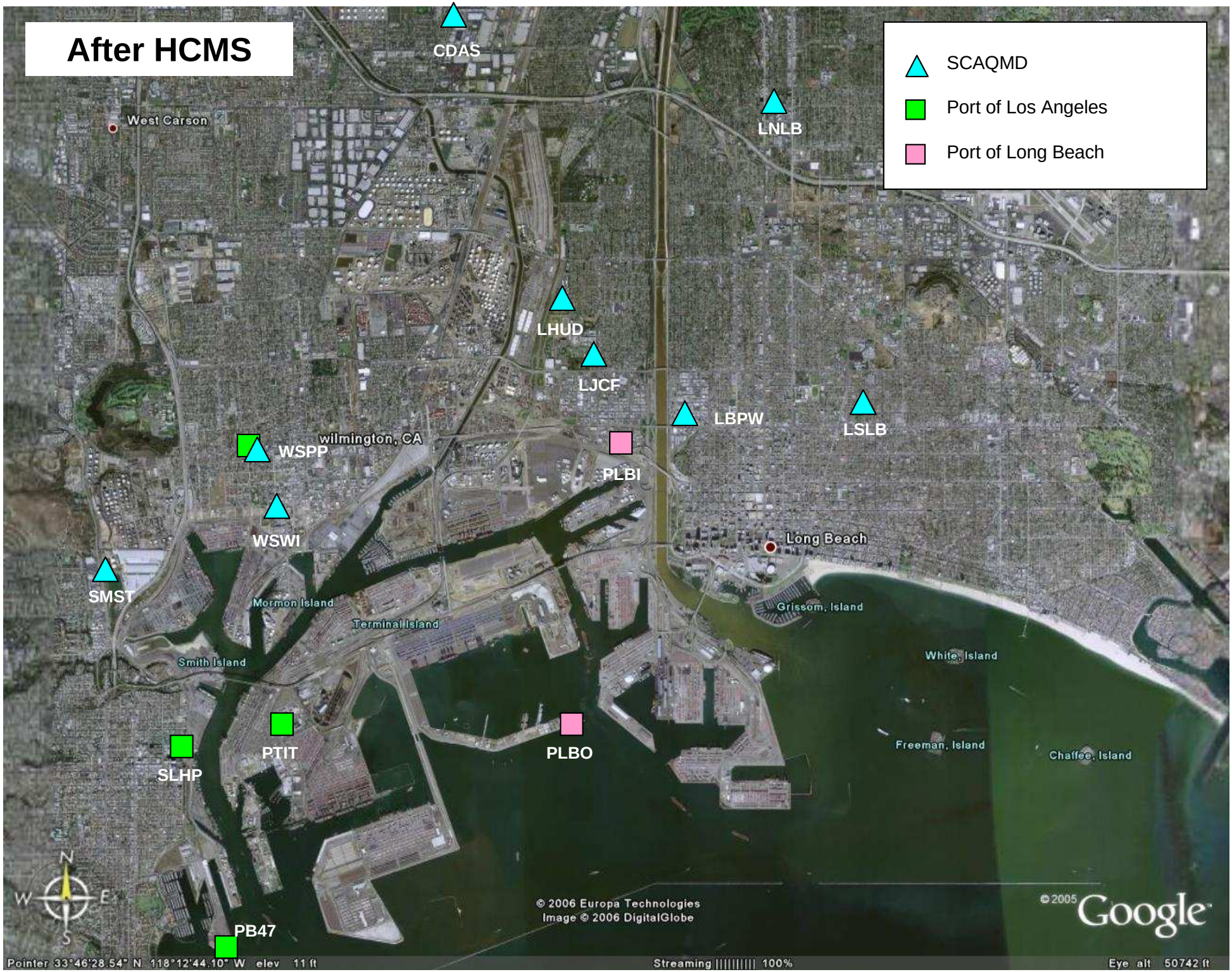
After HCMS
SCAQMD
Port of Los Angeles
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Major Issues/Questions to be Addressed by the HCMS

- **Measurement Methods Assessment**
  - Can lower-cost passive sampling characterize annual concentrations?
- **Spatial & Temporal Characterization**
  - How do wind and pollution patterns vary seasonally & diurnally?
  - Does the long-term monitoring network characterize pollution in the HC?
  - Is air pollution greater in the HC than in other communities of SoCAB?
- **Characterization of Pollution Sources**
  - Can the AQ measurements be deconstructed to characterize the relative contributions of regional, neighborhood, and local pollution sources?
  - Were previous modeling assessments accurate in predicting the distribution of pollutants in the HC?

What's Next?

Tentative schedule:

1) August - finish data validation & analysis
2) October – populate database & publish papers
3) December - final reports & community briefing

HCMS Website:

http://www.arb.ca.gov/research/mobile/hcm/hcm.htm