

**INSET MAP 3: PALEOSEISMIC STUDIES IN SEATTLE/TACOMA REGION**

**EXPLANATION**

- Paleoseismic coastal study site:**
  - Bucknam, 1999
  - Sherrod 1998, 2001:
    - ▲ Uplifted site
    - ▼ Subsided site
- ☆ **Paleoseismic trench** (see text and Table 2 for references)
- LiDAR-identified topographic features:**
  - Fault scarp (field checked)
  - Possible fault scarp
  - - - Topographic lineament

**PUGET SOUND LIDAR DATA SOURCES:**

- 2000-2007 Puget Sound Lidar Consortium
- 2006 Snohomish County survey
- 2003 King County data

**Earthquakes 1970-present, Pacific Northwest Seismic Network (PNSN)**

Depth 0-35 km ○ ○ ○

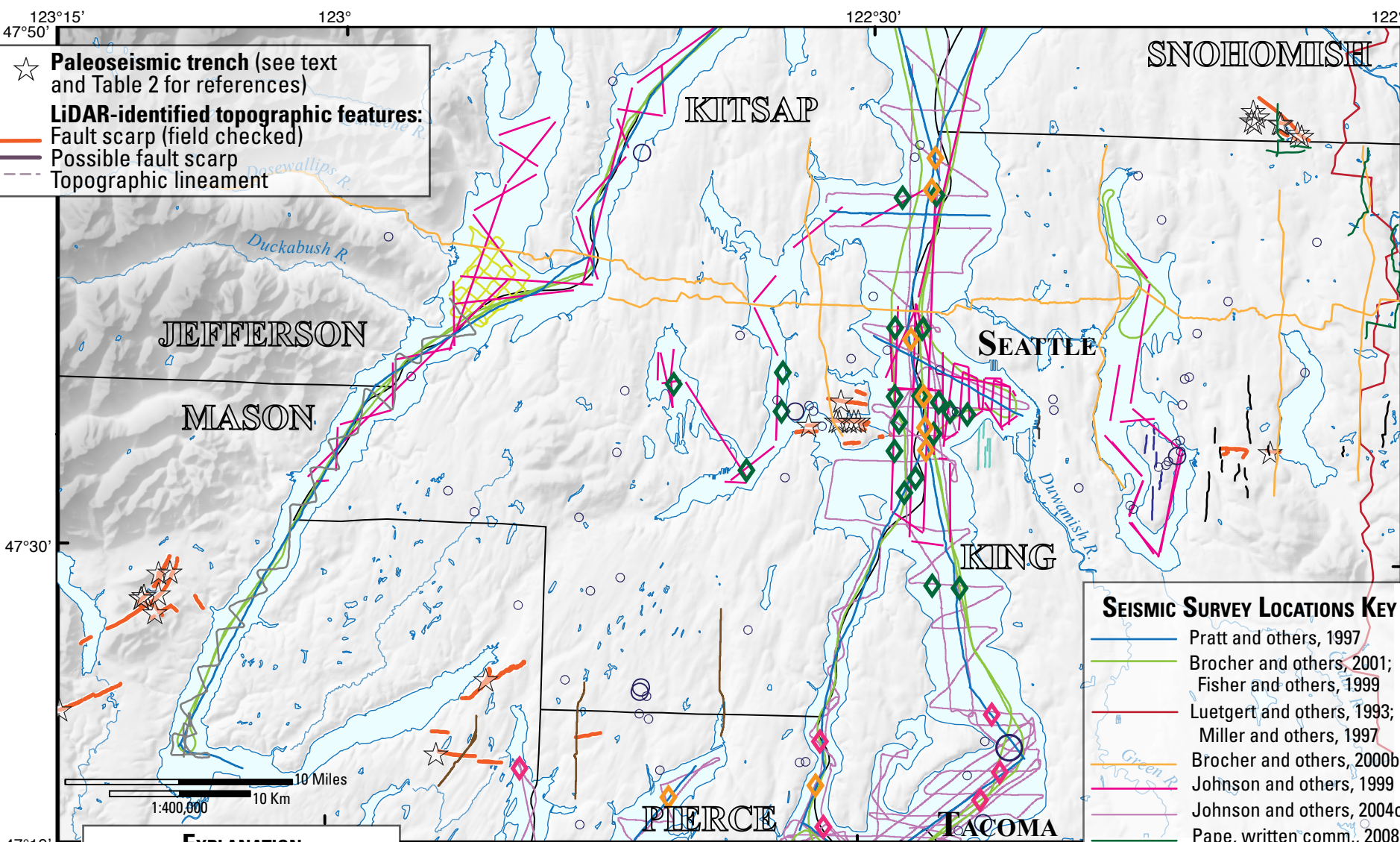
Magnitude 5.0 4.0 3.0

**SHORELINE UPLIFT**

Triangles denote Uplift (m)

8.5  
7  
5  
3 (Muller and Harding, 2005)  
1

LiDAR-modeled shoreline uplift during AD 900 Seattle Fault earthquake



**INSET MAP 4: SEISMIC SURVEY LOCATIONS IN SEATTLE/TACOMA REGION**

**EXPLANATION**

**Deformation observed in seismic reflection data:**

- ◆ Johnson and others, 1999
- ◆ Pratt and others, 1997
- ◆ Johnson and others, 2004c

**Earthquakes 1970-present, Pacific Northwest Seismic Network (PNSN)**

Depth 0-35 km ○ ○ ○

Magnitude 5.0 4.0 3.0

**SEISMIC SURVEY LOCATIONS KEY**

- Pratt and others, 1997
- Brocher and others, 2001; Fisher and others, 1999
- Luetgert and others, 1993; Miller and others, 1997
- Brocher and others, 2000b
- Johnson and others, 1999
- Johnson and others, 2004c
- Pape, written comm., 2008; Sherrod and others, 2008
- Rohwer, 1994
- Cuellar, 1994
- Pratt, written comm., 2008
- Stephenson and others, 2006
- Stephenson, written comm., 2008
- Liberty and Pratt, 2007
- Liberty and others, 2008