

## Active Faults in Southern British Columbia???

J.F. Cassidy (Geological Survey of Canada)

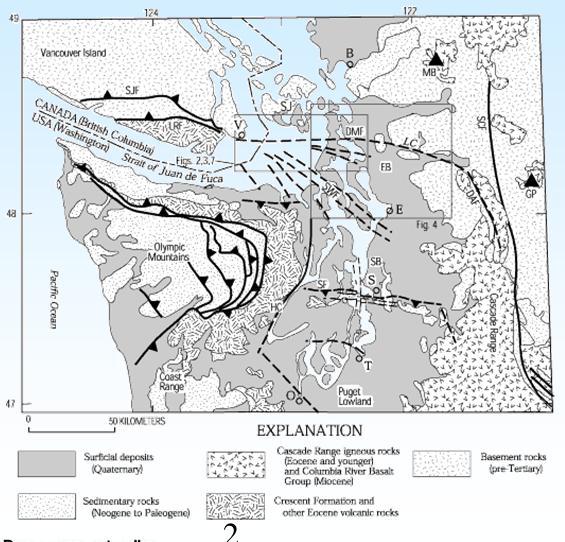
Pacific Northwest Workshop, March 28-29, 2006







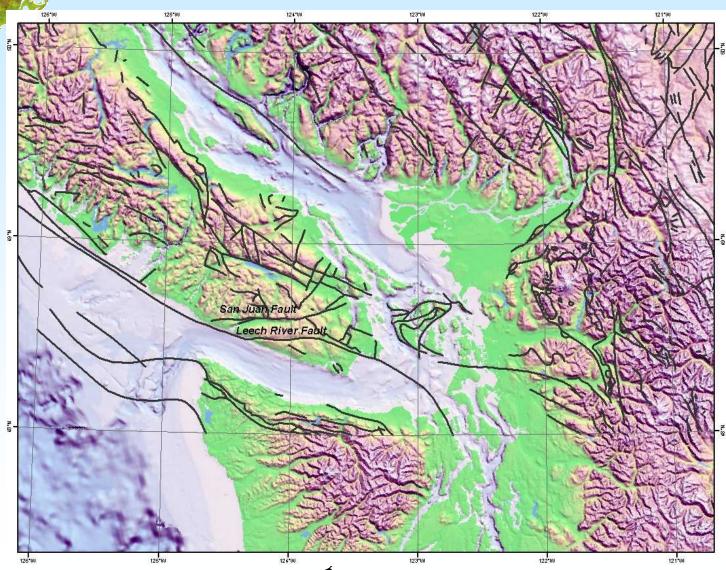
### Faults near southern Vancouver Island







## Fau Its of Southwest BC

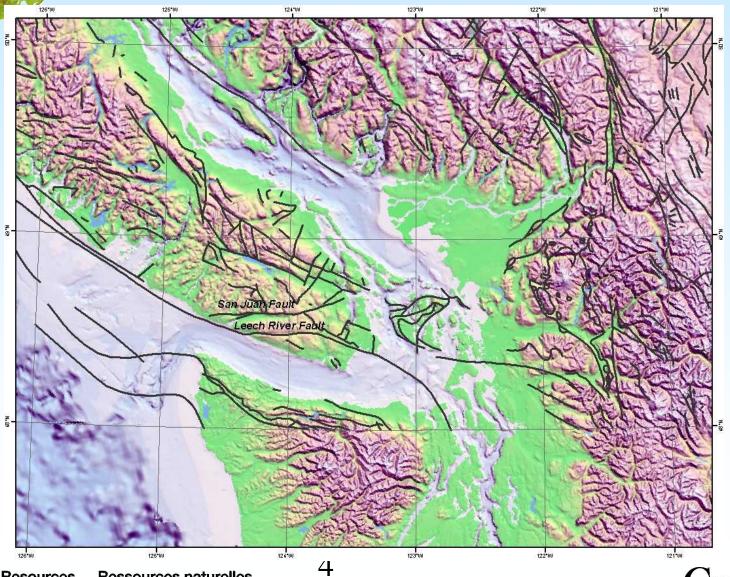




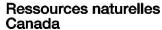


Known Active Faults in BC - Shown in Bright

Red



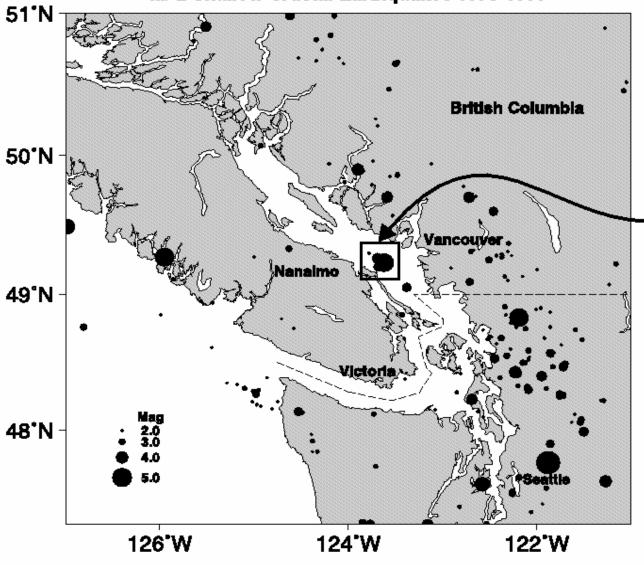






## Shallow Seism icity (< 6 km)



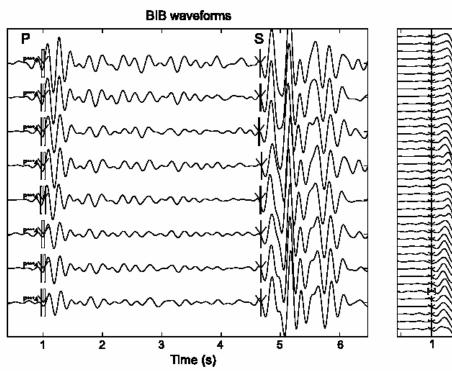


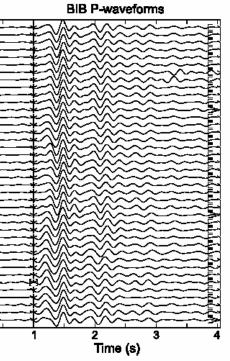
#### Felt Earthquakes

| Date        | Magnitude |
|-------------|-----------|
| 1975 Nov 30 | 4.9       |
| Nov 30      | 3.2       |
| Dec 11      | 3.8       |
| 1976 Mar 10 | 3.6       |
| 1995 Nov 25 | 2.8       |
| 1997 Jun 13 | 3.4       |
| Jun 24      | 4.6       |
| 1999 Jan 21 | 2.9       |



## 1997 Strait of Georgia Events



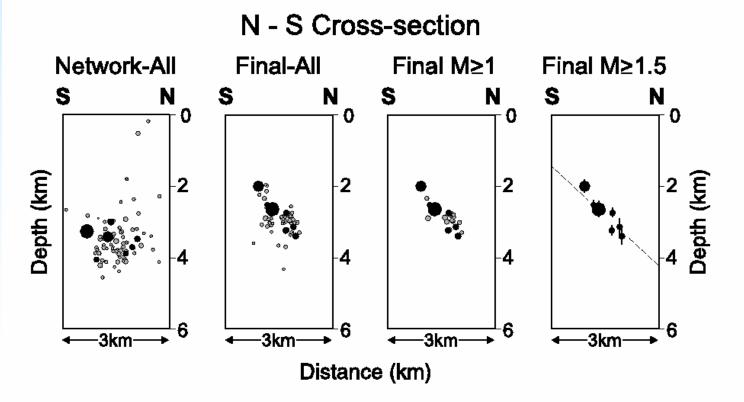






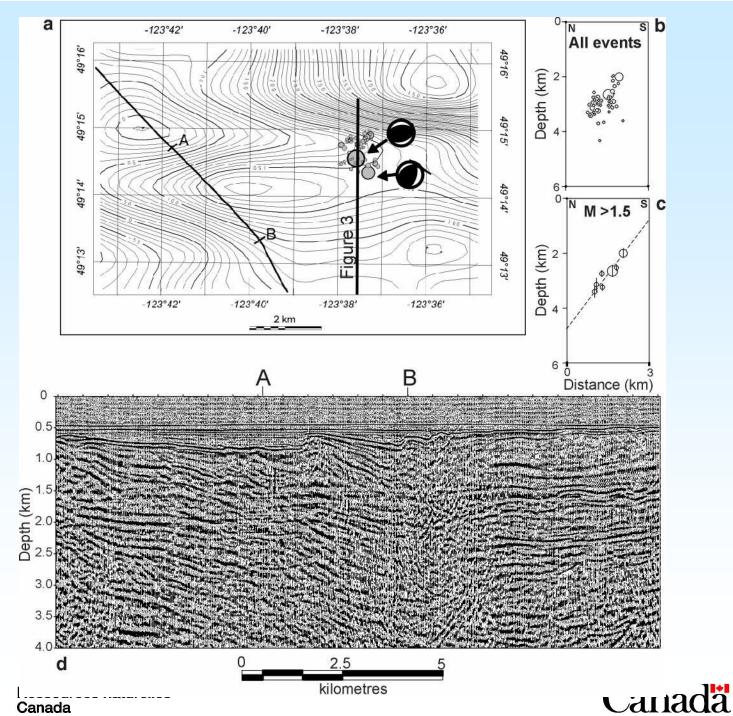


## 1997 Strait of Georgia



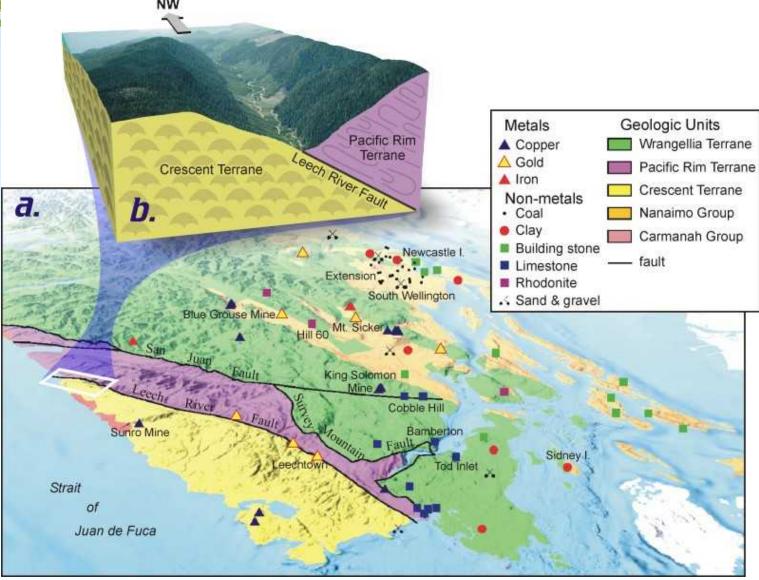








## **Southern Vancouver Island Faults**







# Leech River Fau It – Northwest

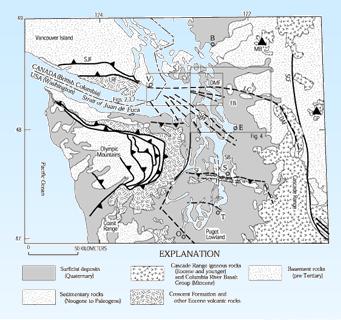


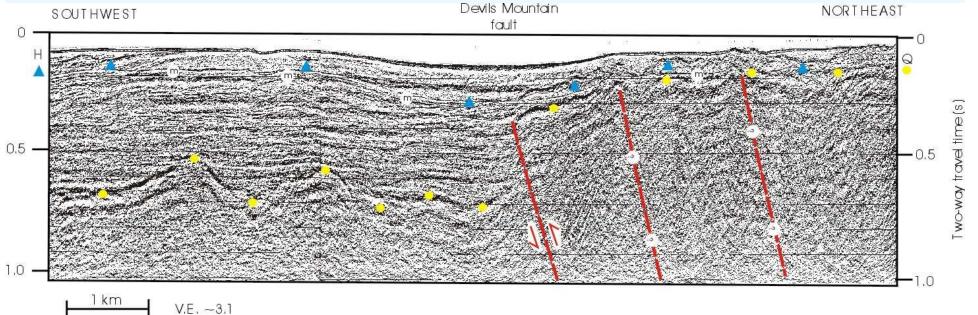


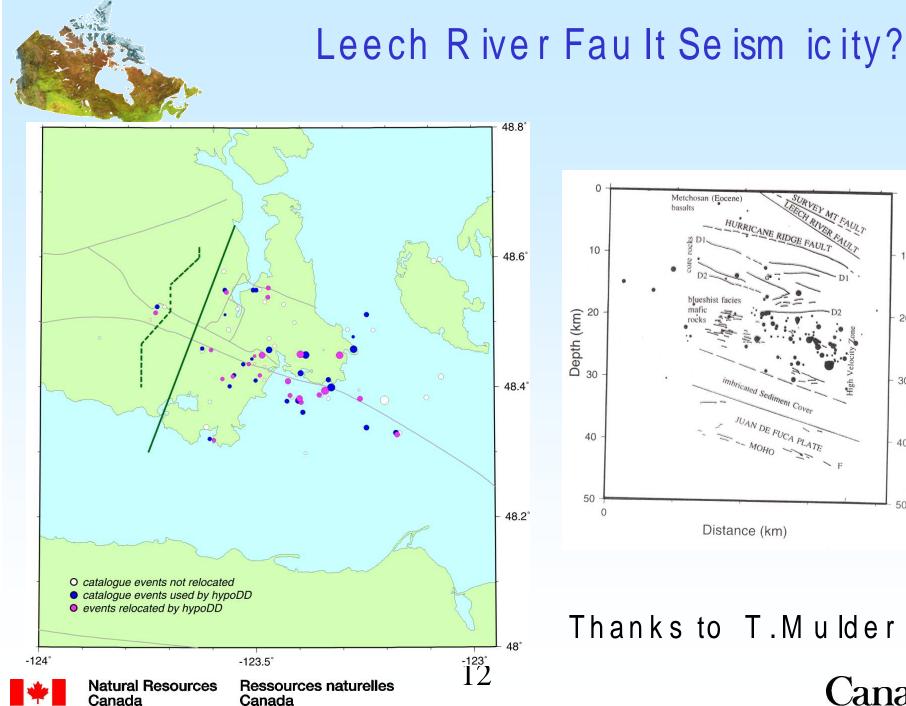
Leech River Fau It - Devil's

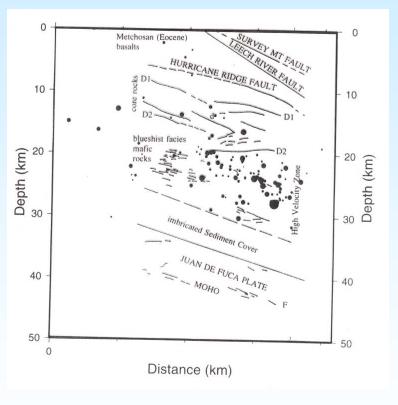
Mountain?

SH IPS data - Thanks to D. Mosher, S.Y. Johnson, and the SH IPS group









Thanks to T.Mulder

