

Volcano Seismology Course Outline  
GEOS 671 001, Spring 2006  
Days and times TBA, room TBA (IARC 319; record reading room, etc.)

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week topic

- 1  
History and organization of the subject; case histories:
- 2 Instruments and networks; seismic velocities of volcanic materials  
Redoubt 1989-90 case history
- 3 Terminology and event classification  
Spurr 1992 case history
- 4 Swarms, magnitudes, energy, b-values, p-values  
Usu 1977 case history
- 5 High frequency (VT, A-type) earthquakes  
Mount St. Helens 1980 case history
- 6 Low frequency (LP, B-type, VLP) earthquakes  
Kilauea 1983 case history
- 7 Volcanic tremor  
Izu-Oshima 1986 case history
- 8 Volcanic explosions (C-type)  
Galeras 1988-1993 case history
- 9 Attenuation and noise at volcanoes;  
Long Valley 1980, 1983, 1989 case history
- 10 Large earthquakes near volcanoes; Cycles of volcanic activity  
Pavlof 1973-1986 case history
- 11 Forecasting of eruptions and assessment of eruptions in progress  
Pinatubo 1991 case history
- 12 Magma chambers, S-wave screening, and tomography  
Rabaul 1981-1994 case history
- 13 Selected topics: probability, chaos, lightning, modelling, etc.  
Arenal 1968 (and continuing) case history