

STATUS REPORT – to be presented to the Intelligence Team by 1200hrs daily.

Event: Christchurch Earthquake		Section/Function/agency:
Date: 15/03/2011	Time: 1200	Science Liaison Team
Operational Period:		Originator Record #: 017

Current situation (incidents, action taken, resource status, personnel numbers etc)

Earthquake Activity & Deformation:

- Appendix A illustrates the magnitude and frequency of aftershocks from 22 February to 15 March 2011.
- Appendix B illustrates the number of aftershocks with magnitude >3.0 since 22 February.

Monitoring:

- Continuous GPS are still monitoring Glendevere Rd, Kinsey Tce and Vernon Tce and Egnott Heights.
- Terrestrial Laser Scanner (TLS) survey data has been provided for detailed investigations of "critical areas".
- TLS survey data from Sumner rock slopes (RSA site) has been processed to derive change models (i.e. to quantify any change to the rock slope between the two TLS surveys), as per the models derived for Red Cliffs.

Landslides:

- Geotechnical investigations continue. Remedial work to remove loose rocks continues in the Sumner area and starts in the Avoca Valley area today.
- The process for repatriation of evacuated homes in the hill suburbs is being documented and a communication strategy is being developed with the Public Information Team.
- The systematic mapping of landslide, rockfall and other slope-related ground damage using the high resolution aerial photography (GNS) is now 80% complete.
- Compiling of data from the damage assessment teams into the geotechnical mass movement data base continues. The maintenance of the database will continue within the EOC.

Liquefaction:

- T&T teams are back in the field this week. Moving through the eastern suburbs, mapping ('flat') land damage property by property. They have also started the 'EQC land damage assessments' in some areas, and expect to run these two tasks concurrently until the mapping is complete.
- UC team working in the Oxford terrace area west of Fitzgerald bridge. Focus on evidence of lateral spreading, liquefaction and damage to residential properties.

Social Science:

International liaison: The first group of international social science researchers has arrived in Christchurch in an observational capacity, and to support their engineering colleagues in the field.

Risk Communication Teleconference: The Risk Communication Advisory Group held a teleconference yesterday to prepare a guidance note following a request from MSI.

Outstanding Issues / Challenges / Problems:

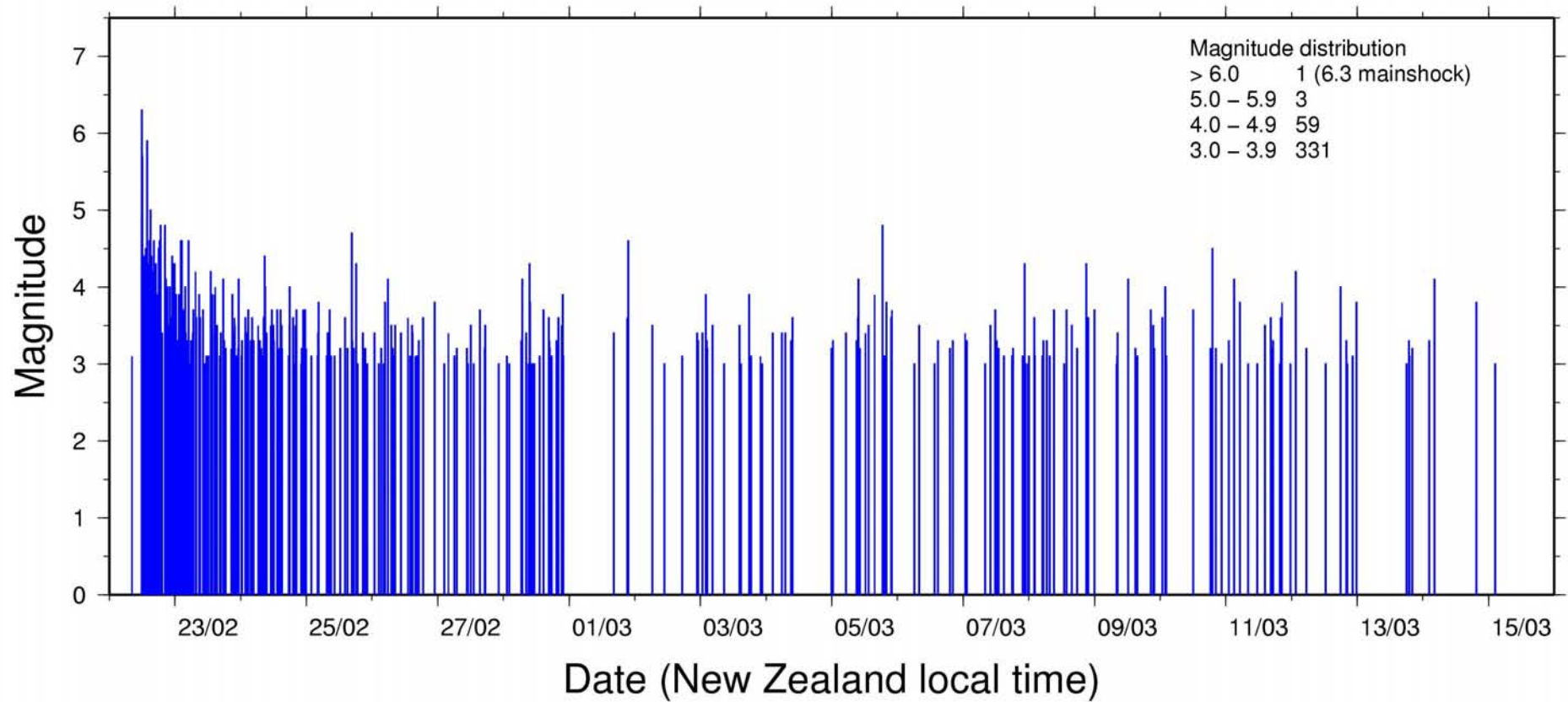
Anticipated Priorities / Activities: (For future operational periods)

Liquefaction: The UC team is starting the planning for the GEER report, with a view to completing the first draft within about one month.

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APPENDIX A:

Magnitude and frequency of aftershocks from 22 February to 15 March 2011.



APPENDIX B:

Number of aftershocks per day with magnitude >3.0 since 22 February.

Number of aftershocks per day with $M \geq 3.0$

