Ge211 topics for presentations on board ship
NBP0607C cruise, Oct. 10-24, 2006

Topic	Presenter	readings	
Hikurangi Plateau – age and structure	Bryan Davy	*Mortimer & Parkinson 1996; Davy & Wood 1994; Wood & Davy 1994; Hoernle et al. 2004* **ALL students please read at least one of the above papers**	
Chatham Rise – general geology & fault patterns	***Chris Burt***	*Wood & Herzer 1993*	
Campbell Plateau & Bounty Trough geology	***Ryan Weidert***	*Carter et al., 1994* *Carter & Carter 1996*	
Chatham Rise : IODP site 1125 drilling results (Leg 181)		IODP web site; Initial Reports Leg 181; Scientific Reports Leg 181 http://www-odp.tamu.edu/publications/181_SR/181TOC.HTM	
Chatham Rise : IODP site 1123 drilling results (Leg 181)	***Ashlee Henig***	IODP web site; Initial Reports Leg 181; Scientific Reports Leg 181 http://www-odp.tamu.edu/publications/181_SR/181TOC.HTM	
S of Chatham Rise DSDP hole 594		*Nelson et al., 1993;* DSDP Scientific Reports Leg 90	
Hikurangi Plateau : IODP site 1124 drilling results (Leg 181)	***Jonathan Rotzien***	IODP web site; Initial Reports Leg 181; Scientific Reports Leg 181, http://www-odp.tamu.edu/publications/181_SR/181TOC.HTM	
Geology of Chatham Island	***Natanya Black***	*Adams & Robinson 1977; Campbell et al. 1993*	
the modern Hikurangi subduction zone E of the North Island	***Andrew Poskaitis***	*Barnes 1994* *Lewis & Pettinga 1993*	
Phoenix plate	***Meredith Bush***	*Eagles & Larter 2004; Larter et al., 2002; Sutherland & Hollis, 2001; Luyendyk, 1995*	
Osbourn trough	***Nathalie Vriend***	*Billen & Stock 2000; Downey et al. 2006*	
Sedimentation patterns around Hikurangi		*Carter & McCave 1997; Carter et al, 2004*	

Plateau, Chatham Rise			
Abyssal hill fabric		*Kriner et al. 2006*	
Louisville Ridge	***Daoyuan Sun***	*Koppers et al., 2004*	
Geochemistry of volcanic rocks in the region	***Jeanette Hagan***	*Mortimer et al., 2006; Gamble et al., 1986*	
Cretaceous extension in New Zealand and West Antarctica (Gondwana breakup)	***Michelle Stempel***	*Cande & Stock 2004; Laird & Bradshaw 2004*	
Oceanography of water masses near New Zealand (Deep Western Boundary Current, Subtropical Front)	***Angel Ruiz Angulo***	*Sutton 2001; Carter et al. 1996*	
Results from the NBP0607A cruise that just ended – similar study area as NBP0607C	***Irma Caraballo-Alvarez***		
Large Igneous Provinces	***Kathryn Lucas***	*Coffin & Eldholm 1994; Kerr 2005; Taylor 2006*	

Presentations should be 15 minutes and should be targeted at an undergraduate level; i.e. a student who has some geology background but may not know anything specific about this topic. We have students of all different backgrounds and academic specialties in the class. Presentations can be PowerPoint, overheads, or handouts. If you are doing handouts you can photocopy them or print them on board the ship, so just bring one set with you (or bring computer files on a CD or memory stick).

Everybody in the class should read the papers listed next to their name, to help them prepare their presentation. Everybody should also read at least one of the papers listed next to the first topic (Hikurangi Plateau). You are welcome to read other papers on the reference list as well, but PLEASE don't feel as if you have to read them all.

We hope to have a CD with electronic copies of all of these papers available on board the ship, but you should also bring electronic copies of the papers you are responsible for in your presentation.

The presentations will be done on board ship as part of the class activities. You could be asked to do yours any time, so it's best to prepare it ahead of time, before you arrive on the ship.