

AGENDA

QUATERNARY FAULT PARAMETERS WORKING GROUP

Tuesday, February 15, 2011

Utah Department of Natural Resources Building, Room 2000 (2nd floor)
1594 West North Temple, Salt Lake City

- 7:30 Continental breakfast
- 8:00 Introduction, overview of meeting, review of last year's activities
- 8:15 Technical presentations of work completed or in progress
8:15 – Salt Lake City segment trenching update; Chris DuRoss, UGS
8:45 – West Valley fault zone trenching update; Mike Hylland, UGS
9:15 – Nephi segment trenching update; Danny Horns, UVU
9:45 – Joes Valley fault zone update; Lucy Piety, USBR
- 10:15 Break
- 10:30 Technical presentations of work completed or in progress
10:30 – East Canyon & East of East Canyon (Main Canyon) fault updates; Lucy Piety, USBR
11:00 – Interactive Utah Quaternary fault map; Cory Unger and Mike Hylland, UGS
11:30 – East Cache fault zone trenching update; Jim Evans, USU
- 12:00 Lunch
- 1:00 Technical presentations of work completed or in progress
1:00 – Utah Lake faults study update; Dave Dinter, UU
1:20 – Working Group on Utah Earthquake Probabilities update; Ivan Wong, URS and Bill Lund, UGS
1:50 – Revised Wasatch fault zone earthquake timing and recurrence; Chris DuRoss, UGS
2:40 – Implementation: The third dimension of Seismic Hazard Mitigation; Ron Harris, BYU
- 3:00 Break
- 3:15 Technical discussion items
Recommendations (?) to the USGS for the National Quaternary Fault and Fold Map regarding the Joes Valley fault zone and the East Canyon & East of East Canyon (Main Canyon) faults – discussion
- 3:45 UQFPWG 2012 fault study priorities (see table 1 for 2011 priority list; see table 2 for original UQFPWG fault priority list)
- 4:45 Adjourn

Table 1. UQFPWG 2011 highest priority list of Quaternary faults/fault segments requiring additional study to adequately characterize Utah's earthquake hazard to a minimally acceptable level, and status of current paleoseismic investigations on all Utah priority faults/fault segments.

2011 Highest Priority Faults/Fault Sections For Study			
Fault/Fault Section	Priority	Investigation Status	Investigating Institution
Warm Springs fault/East Bench fault subsurface geometry and connection	1	No activity	
Penultimate event Provo segment WFZ	2	Trench site reconnaissance	UGS
Long-term earthquake record Nephi segment WFZ	3	No activity	
Washington fault	4	Two trenching investigations	UGS/Simon-Bymaster
Mid- to late-Holocene earthquake chronology southern part Weber segment WFZ	5	No activity	
Other Priority Faults/Fault Sections Requiring Further Study			
Fault/Fault Section	Original UQFPWG Priority	Investigation Status	Investigating Institution
Cedar City-Parowan monocline/Paragonah fault	10	No activity	
Enoch graben	11	No activity	
Clarkston fault	13	No activity	
Gunnison fault	17	No activity	
Scipio Valley faults	18	No activity	
Faults beneath Bear Lake	19	No activity	
Eastern Bear Lake fault	20	No activity	
Carrington fault (Great Salt Lake)	2007	No activity	
Rozelle section, Great Salt Lake fault	2007	No activity	
Faults/Fault Sections Studies Complete or Ongoing			
Fault/Fault Section	Original UQFPWG Priority	Investigation Status	Investigating Institution
Nephi segment WFZ	1	UGS Special Study 124 USGS Map 2966 UVU study ongoing	UGS/USGS/UVU
West Valley fault zone	2	Study funded for 2010	UGS/USGS
Weber segment WFZ – most recent event	3	UGS Special Study 130	UGS/USGS
Weber segment WFZ – multiple events	4	UGS Special Study 130	UGS/USGS
Utah Lake faults and folds	5	Study funded 2009	UUGG
Great Salt Lake fault zone	6	Ongoing	UUGG
Collinston & Clarkston Mountain segments WFZ	7	UGS Special Study 121	UGS
Sevier/Toroweap fault	8	UGS Special Study 122	UGS
East Cache fault zone	12	Ongoing	USU
Wasatch Range back-valley faults	14	Ongoing	USBR
Hurricane fault	15	UGS Special Study 119	UGS
Levan segment WFZ	16	UGS Map 229	UGS
Brigham City segment WFZ – most recent event	2007	Ongoing	UGS/USGS
Bear River fault zone	2007	Ongoing	USGS
Salt Lake City segment WFZ – north end	2009	Study funded for 2010	UGS/USGS

Table 2. Priority list of Quaternary faults/fault segments identified by the UQFPWG as requiring additional study to adequately characterize Utah's earthquake hazard to a minimally acceptable level.

Fault/Fault Segment	Original UQFPWG Priority (2005)
Nephi segment WFZ	1
West Valley fault zone	2
Weber segment WFZ – most recent event	3
Weber segment WFZ – multiple events	4
Utah Lake faults and folds	5
Great Salt Lake fault zone	6
Collinston & Clarkston Mountain segments WFZ	7
Sevier/Toroweap fault	8
Washington fault	9
Cedar City-Parowan monocline/ Paragonah fault	10
Enoch graben	11
East Cache fault zone	12
Clarkston fault	13
Wasatch Range back-valley faults	14
Hurricane fault	15
Levan segment WFZ	16
Gunnison fault	17
Scipio Valley faults	18
Faults beneath Bear Lake	19
Eastern Bear Lake fault	20
Bear River fault zone	Added 2007
Brigham City segment WFZ – most recent event	Added 2007
Carrington fault (Great Salt Lake)	Added 2007
Provo segment WFZ – penultimate event	Added 2007
Rozelle section – Great Salt Lake Fault	Added 2007
Salt Lake City segment WFZ – northern part	Added 2009