	VLBA PRO	POSAL COVERSHEET				
DEADLINES: 1st of	Feb., June, Oct.					
(1) Date Prepared: October	30, 2006		rcvd:			
-	easurement of the post-seismic aused by the Hawaii earthquak	-				
(-)			Students Only			
(3) AUTHORS	INSTITUTION	E-mail	G/U	For	Ph.D.	
(Add * for new location)				Thesis?	Year	
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(4) Related previous or cur	rrent VLBI proposal(s):	C	Resubmission		
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email: jmg@gemini.gsfc.nasa.gov					
(7) Scientific Category: (Rapid Response Science	⊗ astrometry & geodesy ⊝ gal ee: ⊝ Known Transient ⊝	actic ○ extragalactic ○ Exploratory ⊗ Target of	other: Opportunity		
○ 90cm ○ 50cm ○ 2cm ○ 1.3cm	$n \bigcirc 7 \text{mm} \bigcirc 3 \text{mm}$	obal network are indicated with $\bigcirc$ 13cm $\bigcirc$ 6cm $\bigcirc$ 5 ecial frequencies:	,	$\otimes$ 3.6/13cm	
(9) Recording format: $\bigotimes$ Bandwidth per Band		s at $16$ MSamples/sec of		<del></del> ;	
(10) $\bigcirc$ Multi-epoch obser	vation: epochs of	hours each, separated	by		
(11) Network	Requested	antennas	Total time	e requested	
EVN & MERLIN					
VLBA	ALL		24 hours		
other NRAO					

(12) ABSTRACT (Do not write outside this space. Please type)

On 2006.10.15 at 17:07:48 (UTC) a strong earthquake with magnitude 6.7 occurred in Hawaii. The focus of the earthquake was at a depth 29 km. The distance from the epicenter to the station of MK-VLBA is 62 km. It is known that the earthquakes of this magnitude may cause displacements of order of magnitude 1-10 cm. The post-seismic deformation may cause non-linear motion of a station for time scales from months to decades. We request a 24 hour geodetic session for the purpose of measuring possible post-seismic deformation caused by this earthquake.

KOKEE, TSUKUB32, KASHIM34, URUMQI, HOBART26

IVS

Non-VLBI Instruments

David Gordon

Daniel MacMillan

(13)	) Observation type: ⊗ Interferometry, ○ Spectroscopy, ○ Pulsar, ○ Phase referencing				
(14)	Proposal is $\bigcirc$ Suitable for dynamic scheduling.				
(15)	Polarization: $\bigotimes$ Single Polarization $\bigcirc$ Dual Circular Polarization Global network standard for single polarization is LCP for all $\lambda s$ except 13cm (RCP) and 3.6cm (RCP)				
(16)	Tape usage (Show <recording time="">/<total time="">):</total></recording>				
` '	Assistance required: Observation Setup: Oconsultation, Extensive help, Observe file preparation Postprocessing: Consultation, Extensive help, Ocalibration service  Processor: Socorro, JIVE, Haystack, Bonn, Washington, Other Special processing: XPol, Pulsar gate, Multiple Fields:				
	Averaging time: 1.0 sec Spectral channels per baseband channel: 64  Other special processing:				
(19)	Postprocessing Location: NRAO-CV, MPIfR, GSFC				
(20)	Source list: $\bigcirc$ J2000 $\bigcirc$ B1950 If more than 4 sources, please attach list. If more than 30, give only selection criteria and GST range(s)				

	Source 1	Source 2	Source 3	Source 4
Name(s)	ALL SKY			
RA (hh mm)	0-24h			
Dec (dd.d)	-45d to +88d			
GST range (Europe)				
GST range (US)	0-24h			
GST range (Other)				
Band(s)	S/X			
Flux density (Total, Jy)	>300 mJy			
Flux density (correlated, mJy)	>300 mJy			
RMS needed (mJy/beam)				
Peak/RMS needed				

- (21) Preferred VLBI session or range of dates for scheduling, and why: One 24 hour session.
- (22) Dates which are NOT acceptable, and why:
- (23) Attach a self-contained scientific justification, not in excess of 1000 words. Preprints or reprints will not be forwarded to the referees.

Information about the capabilities of the VLBA may be found on the World Wide Web by starting at the NRAO home page, http://www.nrao.edu, and selecting the VLBA from "Sites and Telescopes."

A brief summary of the capabilities of the EVN antennas is given in the EVN STATUS TABLE in the EVN USER GUIDE, which may be found at http://www.evlbi.org/user\_guide/user\_guide.html.

Please include the full postal addresses for first-time users or for those that have moved (if not contact author).