

## 1992/93 STATISTICAL SUMMARY

	1992-93
1. Academic personnel engaged in research	
a. Faculty	12
b. Professional Researchers	12
c. Specialists	2
d. Postdoctorals	1
e. Postgraduate Researchers	4
TOTAL	31
2. Graduate Students:	
a. Employed on contracts and grants	18
b. Employed on other sources of funds	0
c. Participating through assistantships	0
d. Participating through traineeships	0
e. Other (specify)	0
TOTAL	18
3. Undergraduate Students	
a. Employed on contracts and grants	18
b. Employed on other funds	5
c. number of volunteers, & unpaid interns	0
TOTAL	23
d. Average number of hours/week of student assistance	173/week
4. Participation from outside UCSB	
a. Academics	13
b. Postdoctorals	0
c. Postgraduate Researchers	1
d. Other (Graduate Student)	1
5. Staff (Univ. & Non-Univ. Funds)	
a. Technical	13
b. Administrative/Clerical	3
6. Publications	32
7. Seminars, symposia, workshops sponsored	18
8. Proposals submitted	52
9. Number of different awarding agencies dealt with*	14
10. Number of extramural awards administered	40
11. Dollar value of extramural awards administered during year**	\$4,396,999
12. Number of Principal Investigators***	27
13. Dollar value of other project awards ****	\$1,710
14. Number of other projects administered	4
15. Total base budget for the year (as of 6/30/93)	\$117,414
16. Dollar value of intramural support	\$59,124
17. Total assigned square footage in ORU	7,771

\* Count each agency only once (include agencies to which proposals have been submitted).

\*\* If the award was open during the year, even if for only one month, please include in total.

\*\*\* Number of PIs, Co-PIs and Proposed PIs (count each person only once.)

\*\*\*\* Other projects- such as donations, presidential awards, fellowships; anything that isn't core budget, extramural, or intramural.

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Proposals Submitted  
By Department/PI  
07/01/92 - 06/30/93

Date: 10/04/93  
Time: 11:05:56

College/Department/PI	P.I. & Time	Total Number	Total Support	Indirect Costs	Begin Date	End Date
INSTITUTE FOR CRUSTAL STUDIES						
R. J. ARCHULETA	2					
NATIONAL SCIENCE FOUNDATION						
Optimum Methods for Site Response Analysis		133,972	40,383		01/01/93	12/31/94
R. J. ARCHULETA	1					
C. C. NICHOLSON	17					
UNIVERSITY OF SOUTHERN CALIFORNIA						
UCSB Participation in Southern California Earthquake		35,000	9,431		11/01/92	10/31/93
R. J. ARCHULETA	2					
NATIONAL SCIENCE FOUNDATION						
How Do Earthquakes Generate Extreme Ground Accelerati		108,064	27,364		07/01/93	06/30/95
R. J. ARCHULETA	2					
A. G. TUMARKIN	67					
NATIONAL SCIENCE FOUNDATION						
Spectral Modeling of a Composite Earthquake		133,738	41,505		07/01/93	06/30/95
R. J. ARCHULETA	5					
NUCLEAR REGULATORY COMMISSION						
Garner Valley Downhole Seismographic Array: Phase II		180,000	55,355		11/25/91	11/24/94
R. J. ARCHULETA	2					
S. H. SEALE	17					
NUCLEAR REGULATORY COMMISSION						
Seismic Transfer Functions and the Response of		337,929	53,208		03/31/93	02/28/94
R. J. ARCHULETA	5					
UNIVERSITY OF SOUTHERN CALIFORNIA						
UCSB Participation in the So CA Earthquake Center		280,857	48,370		02/01/93	01/31/94
R. J. ARCHULETA	3					
S. H. SEALE	10					
INSTITUTE FOR PROTECTION & NUCLEAR SAFE						
Seismic Transfer Functions & the Response of Groundwa		378,995	52,061		05/01/93	11/25/95
R. J. ARCHULETA	8					
A. G. TUMARKIN	50					
DEPARTMENT OF INTERIOR						
New Methods of Empirical Spectral Prediction		56,765	17,617		01/01/94	12/31/94
R. J. ARCHULETA	8					
DEPARTMENT OF INTERIOR						
Dynamic Ruptures on Reverse Faults and Detachment Fau		172,797	53,627		01/01/94	12/31/95
R. J. ARCHULETA	2					
J. H. STEIDL	50					
A. G. TUMARKIN	25					
DEPARTMENT OF INTERIOR						
L.A. BASIN MICROZONATION						
R. J. ARCHULETA	1					
J. H. STEIDL	25					
		66,742	19,968		12/01/93	11/30/94

NATIONAL SCIENCE FOUNDATION Investigation of Site Response Analysis Techniques	219,757	46,800	01/01/94	12/31/96
R. J. ARCHULETA 1				
A. G. TUMARKIN 50				
NATIONAL SCIENCE FOUNDATION Spectral Modeling of Large Earthquakes	160,480	49,804	01/01/94	12/31/96
C. J. BUSBY 5				
NATIONAL SCIENCE FOUNDATION Facies modeling and process volcanological studies	137,114	40,004	07/01/93	06/30/95
S. M. CISOWSKI 8				
UC LAWRENCE LIVERMORE NATIONAL LABORATOR Development of 10Be Method for Geomagnetic Paleointen	9,921	0	10/01/92	09/30/93
S. M. CISOWSKI 25				
NATIONAL SCIENCE FOUNDATION Neogene Clockwise Rotation of Thin Crustal Sheets in	105,293	32,677	01/01/94	12/31/95
S. J. CULLEN 43				
UC LAWRENCE LIVERMORE NATIONAL LABORATOR Fate & Transport of Volatile Organic Compounds (VOCS)	266,179	74,222	10/01/92	09/30/94
S. J. CULLEN 12				
SANDIA NATIONAL LABORATORIES Vadose Zone Monitoring Research Assistance	82,475	25,596	04/01/93	09/30/93
L. G. EVERETT 68				
S. J. CULLEN 100				
ENVIRONMENTAL PROTECTION AGENCY Vadose Zone Monitoring: Instrumentation & Installatio	46,600	14,900	07/23/92	07/22/93
L. G. EVERETT 68				
S. J. CULLEN 90				
ENVIRONMENTAL PROTECTION AGENCY Vadose zone Monitoring: Instrumentation & Installatio	100,000	31,034	07/23/92	07/22/93
L. G. EVERETT 68				
S. J. CULLEN 70				
ENVIRONMENTAL PROTECTION AGENCY Vadose Zone Monitoring: Instrumentation and Installat	78,000	24,207	07/23/92	07/22/93
H. A. HURLOW 100				
P. B. GANS 2				
NATIONAL SCIENCE FOUNDATION Age and Tectonic Evolution of Blueschist Facies...	124,657	38,687	06/15/93	12/31/94
E. A. KELLER 5				
DEPARTMENT OF INTERIOR Paleoseismic and Earthquake Hazard Evaluation of the	95,186	28,201	04/01/94	03/31/95
G. T. LINDLEY 25				
S. H. SEALE 17				
CAL DEPARTMENT OF CONSERVATION Comparing the Response Spectra of Strong-Motion with	31,672	2,829	05/15/93	05/14/94
G. T. LINDLEY 60				
DEPARTMENT OF INTERIOR Collaborative Research (UCSB/YALE): Inversion for 3-D	40,152	12,461	02/01/94	01/31/95
G. T. LINDLEY 60				
DEPARTMENT OF INTERIOR				

Main Shock and Aftershock Source Parameters for the				
G. T. LINDLEY	60	56,842	17,641	02/01/94 01/31/95
NATIONAL SCIENCE FOUNDATION				
Regional Variations of Earthquake Source Parameters..				
B. P. LUYENDYK	5	57,755	17,924	02/01/94 01/31/95
P. B. GANS	5			
NATIONAL SCIENCE FOUNDATION				
THE RATE OF ROTATION OF THE WESTERN TRANSVERSE RANGES				
B. P. LUYENDYK	5	47,557	13,546	07/01/93 06/30/94
C. C. SORLIEN	50			
DEPARTMENT OF INTERIOR				
Late Quaternary Deformation and Fault Geometry of the				
B. P. LUYENDYK	10	44,461	13,798	01/01/94 12/31/94
NATIONAL SCIENCE FOUNDATION				
Collaborative Research: Glacial Marine Stratigraphy				
B. P. LUYENDYK	11	300,413	58,197	07/01/95 06/30/98
NATIONAL SCIENCE FOUNDATION				
Glacial Geology of the Northern Ford Ranges, Western				
C. C. NICHOLSON	25	225,171	41,948	07/01/95 06/30/98
R. J. ARCHULETA	1			
G. T. LINDLEY	33			
S. H. SEALE	17			
NATIONAL SCIENCE FOUNDATION				
Collaborative Integrated Investigation of the 1992...				
C. C. NICHOLSON	17	299,271	87,782	07/01/93 06/30/95
NATIONAL SCIENCE FOUNDATION				
Fault Geometry, Neogene History and State-of-Stress A				
C. C. NICHOLSON	5	75,439	23,412	07/01/93 06/30/94
W. A. PROTHERO	5			
DEPARTMENT OF INTERIOR				
Seismic Behavior, Fault Geometry & Seismic Potential				
C. C. NICHOLSON	50	68,170	21,156	12/01/93 11/30/94
DEPARTMENT OF INTERIOR				
Analysis of the 1992 m 6.1 Joshua Tree Earthquake				
C. C. NICHOLSON	33	74,910	22,325	03/01/94 02/28/95
NATIONAL SCIENCE FOUNDATION				
Collaborative Research: Offshore Seismic Hazard and..				
F. J. SPERA	2	89,788	26,295	01/01/94 12/31/94
NATIONAL SCIENCE FOUNDATION				
Convective Dynamics Beneath Crustal Oceanic Spreading				
F. J. SPERA	2	90,056	23,146	08/01/93 07/31/95
NATIONAL SCIENCE FOUNDATION				
Magna Transport Phenomena: Microscopic to Macroscopic				
F. J. SPERA	5	94,550	24,622	07/01/93 06/30/95
DEPARTMENT OF ENERGY				
Physical Modeling of Sedimentary Basins, Magma Mechan				
A. G. SYLVESTER	5	43,090	11,949	09/15/93 09/14/94
NATIONAL SCIENCE FOUNDATION				
Aseismic Creep and Crustal Deformation of Large Norma				
		39,970	8,248	06/01/93 05/31/94

T. TANIMOTO	5							
NATIONAL SCIENCE FOUNDATION								
High Resolution Global Body Wave Waveform Inversion								
T. TANIMOTO	5							
NATIONAL SCIENCE FOUNDATION								
Large-Scale Oceanic Upper Mantle Structure And ...								
T. TANIMOTO	5							
NATIONAL SCIENCE FOUNDATION								
High-Resolution Global Body Wave Waveform Inversion..								
T. TANIMOTO	5							
NATIONAL SCIENCE FOUNDATION								
Global, Three-Dimensional Structure of the Outermost.								
T. TANIMOTO	5							
NATIONAL SCIENCE FOUNDATION								
A New Method of Surface Wave Analysis: Surface Wave..								
T. TANIMOTO	5							
NATIONAL SCIENCE FOUNDATION								
Large Scale Oceanic Upper Mantle Structure & Constral								
T. TANIMOTO	5							
NATIONAL SCIENCE FOUNDATION								
Large-Scale Oceanic Upper Mantle Structure and Constr								
T. TANIMOTO	5							
NATIONAL SCIENCE FOUNDATION								
Collaborative Research: Multidisciplinary Investigati								
T. TANIMOTO	5							
NATIONAL SCIENCE FOUNDATION								
Collaborative Research: Images of the Earth's Interio								
A. F. TRIAL	28							
NATIONAL SCIENCE FOUNDATION								
Molecular Dynamics Investigation of Diffusive Cross								
A. F. TRIAL	28							
F. J. SPERA	2							
NATIONAL SCIENCE FOUNDATION								
Experimental Determination of the Diffusion Matrix in								
A. G. TUMARKIN	38							
R. J. ARCHULETA	1							
UC INSTITUTE OF GEOPHYSICS & PLANETARY P								
Are Large Earthquakes Composed of Smaller Ones?								
TOTAL INSTITUTE FOR CRUSTAL STUDIES	52	6,271,296	1,611,435	27,000	27,000	0	10/01/93	09/30/94

College/Department/PI	P.I. & Time	Total Number	Total Support	Indirect Costs	Begin Date	End Date
INSTITUTE FOR CRUSTAL STUDIES						
R. J. ARCHULETA UNIVERSITY OF SOUTHERN CALIFORNIA 572726	5	112,000	0	04/01/91	01/31/94	
SOUTHERN CALIFORNIA EARTHQUAKE CENTER, PORTABLE ... R. J. ARCHULETA	3					
G. T. LINDLEY DEPARTMENT OF INTERIOR 143493G2298	72	60,687	18,439	06/01/93	05/31/94	
SOURCE PARAMETERS OF THE APRIL-MAY 1992 JOSHUA TREE... R. J. ARCHULETA	2	45,213	9,868	05/01/93	04/30/94	
NATIONAL SCIENCE FOUNDATION EAR9219721	1					
HOW DO EARTHQUAKES GENERATE EXTREME GROUND ACCELERATI R. J. ARCHULETA	17	35,000	9,431	11/01/92	01/31/94	
C. C. NICHOLSON UNIVERSITY OF SOUTHERN CALIFORNIA UCSB08930357	5	180,000	0	12/11/92	11/24/94	
UCSB Participation in Southern California Earthquake R. J. ARCHULETA	5	280,857	48,370	04/01/91	01/31/94	
NUCLEAR REGULATORY COMMISSION NRC0492050	5	105,000	30,034	01/01/93	12/31/94	
Garner Valley Downhole Seismographic Array: Phase II R. J. ARCHULETA	5	18,960	0	06/01/92	09/30/92	
UNIVERSITY OF SOUTHERN CALIFORNIA 572726	8	9,921	0	10/01/92	09/30/93	
UCSB Participation in the So CA Earthquake Center C. J. BUSBY-SPERA	5					
NATIONAL SCIENCE FOUNDATION EAR-9219739	10					
DEVELOPMENT OF BASINS AND CALDERAS IN EXTENSIONAL TO. S. M. CISOWSKI	20					
M. D. FULLER	10					
R. J. WEEKS	10					
UC LAWRENCE LIVERMORE NATIONAL LABORATOR. TaskAssignment#11	8					
DEVELOPMENT OF THE 10BE METHOD S. M. CISOWSKI	8					
UC LAWRENCE LIVERMORE NATIONAL LABORATOR TASK ASSIGNMENT #19	43					
Development of 10Be Method for Geomagnetic Paleointen S. J. CULLEN	43					
UC LAWRENCE LIVERMORE NATIONAL LABORATOR						

TASK ASSIGNMENT NO.	Description	1992/93	1993/94	Total	Start Date	End Date
20	Fate & Transport of Volatile Organic Compounds (VOCS)	150,090	37,181	187,271	02/01/93	01/31/94
L. G. EVERETT	68					
S. J. CULLEN	100					
ENVIRONMENTAL PROTECTION AGENCY						
CR816969-02-0						
VADOSE ZONE MONITORING: INSTRUMENTATION & ...		21,682	6,932	28,614	07/23/92	07/22/93
L. G. EVERETT	68					
S. J. CULLEN	100					
ENVIRONMENTAL PROTECTION AGENCY						
CR816969-02-1						
Vadose Zone Monitoring: Instrumentation & Installatio		46,600	14,900	61,500	07/23/92	07/22/93
L. G. EVERETT	68					
S. J. CULLEN	90					
ENVIRONMENTAL PROTECTION AGENCY						
CR816969-02-2						
Vadose zone Monitoring: Instrumentation & Installatio		100,000	30,307	130,307	07/23/92	07/22/93
L. G. EVERETT	68					
S. J. CULLEN	70					
ENVIRONMENTAL PROTECTION AGENCY						
CR-816969-02-3						
Vadose Zone Monitoring: Instrumentation and Installat		78,000	24,207	102,207	07/23/92	07/22/93
R. A. HARRIS	100					
NATIONAL SCIENCE FOUNDATION						
EAR-9218652						
3-D DYNAMIC MODELS OF INTERACTING FAULT SEGMENTS		72,955	22,333	95,288	05/01/93	04/30/94
B. P. LUYENDYK	5					
NATIONAL SCIENCE FOUNDATION						
DPP-8817615						
GEOLOGICAL AND GEOPHYSICAL STUDIES IN THE FORD RANGES		25,527	5,069	30,596	09/01/92	08/31/93
C. C. NICHOLSON	20					
UC LAWRENCE LIVERMORE NATIONAL LABORATOR						
9339						
SUBSURFACE IMAGING OF VELOCITY STRUCTURE WITHIN THE..		21,300	0	21,300	10/01/92	09/30/93
C. C. NICHOLSON	17					
UNIVERSITY OF SOUTHERN CALIFORNIA						
572726						
ACQUISITION OF 1992 ML 6.1 JOSHUA TREE AFTERSHOCK		20,000	6,325	26,325	04/01/91	01/31/94
C. C. NICHOLSON	50					
DEPARTMENT OF INTERIOR						
143493G2294						
ANALYSIS OF THE 1992 M 6.1 JOSHUA TREE EARTHQUAKE...		68,302	19,941	88,243	03/01/93	02/28/94
A. G. SYLVESTER	5					
DEPARTMENT OF INTERIOR						
1434-93-G-2290						
NEARFIELD GEODETIC INVESTIGATIONS OF STRAIN ACROSS FA		76,676	15,822	92,498	02/01/93	01/31/94
T. TANIMOTO	5					
NATIONAL SCIENCE FOUNDATION						
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High Resolution Global Body Wave Waveform Inversion T. TANIMOTO 5 NATIONAL SCIENCE FOUNDATION 9296207	18,538	1,131	07/28/92	07/31/92
Large-Scale Oceanic Upper Mantle Structure And ... T. TANIMOTO 5 NATIONAL SCIENCE FOUNDATION ear92-96218	49,535	13,690	07/01/92	10/31/92
High-Resolution Global Body Wave Waveform Inversion... T. TANIMOTO 5 NATIONAL SCIENCE FOUNDATION OCE-9296207	91,687	25,455	08/01/92	07/31/94
Large Scale Oceanic Upper Mantle Structure & Constral	71,471	19,824	07/01/92	03/31/94
TOTAL INSTITUTE FOR CRUSTAL STUDIES	24	1,760,001		359,259