ENGLISH JAPANESE	Second Bulletin	Thermational Symposium on Natural and Technological Hazards
	Eighth	Second Bulletin
	Natural Hazards Society L I N K S Main Page Registration Form Tentative Abstract List	MAY 21-25, 2000 TOKUSHIMA, SHIKOKU JAPAN Theme Disasters - How do we mitigate them?
	Session Program	 <u>Organized by</u> * The International Society for the Prevention and Mitigation of Natural Hazards * The Tsunami Society
	<u>Supported by</u>	 DRS, DPRI, Kyoto University Tokushima University Tokushima Bunri University Japan Society for Natural Disaster Science Institute of Social Safety Science Japan Society of Disaster Information Tokushima Prefecture Tokushima City
	<u>International</u> <u>Scientific Committee</u>	 * Prof. Russell Blong, Macquarie University, Australia (NHS President) * Prof. Yoshiaki Kawata, Kyoto University, Japan * Prof. Hitoshi Murakami, University of Tokushima, Japan * Dr. Swaroop Reddy, NHS Treasurer, U.S.A. * Dr. S. Venkatesh, Atmospheric Environment Service, Canada

<u>Local Organizing</u> <u>Committee</u>	 Prof. Yoshiaki Kawata, Kyoto University (Chair, NHS Vice President) Prof. Hitoshi Murakami, University of Tokushima Prof. Kaoru Takara, Kyoto University Prof. Tadanobu Sato, Kyoto University Prof. Takeyoshi Tanaka, Kyoto University Prof. Takeyoshi Tanaka, Kyoto University Prof. Fumio Yamazaki, University of Tokyo Prof. Fumihiko Imamura, Tohoku University Prof. Mitsuo Kawatani, Kobe University Prof. Ken-ichi Kusachi, Himeji Institute of Technology Prof. Yasunori Kozuki, University of Tokushima Mr. Mitsutaka Terui, Tokushima Prefecture Mr. Yoshiaki Shimada, Tokushima Prefecture Mr. Katsuhide Yamaguchi, Tokushima City
<u>Background</u>	This International Symposium is the eighth in the continuing inter-disciplinary series begun in 1982. The Seventh Symposium was held in Chania, Crete Is., Greece in May 1998 and was attended by participants from over 25 countries around the world. The objectives of this series of symposia on Natural and Technological Hazards are to promote the advancement of hazard sciences, to perceive and explore those aspects that may be similar among some of the various hazards, to review the latest developments in several selected fields and to outline new directions for future research.
<u>Symposium Theme</u>	Achieving the objectives of the symposia has taken on a new sense of urgency as a result of the large number of natural and technological disasters that have already occurred in various parts of the world in the 1990's, the UN's International Decade for Natural Disaster Reduction. The list is long and includes among others, volcanic eruptions in the Philippines, storm surge related flooding in Bangladesh, oil spills and forest fires resulting from the Middle East conflict, floods in China, North America and Europe caused by heavy rains, earthquakes and tsunamis in Papua New Guinea, Japan and Columbia, hurricane damage in North and Central America. The human reaction and response to these disasters has varied widely from one disaster to the next. In view of these disasters the theme for HAZARDS 2000 is: Natural Disasters - How do we mitigate them?
	The Symposium organizing committee invites papers specifically related to the scientific, social, economic and political aspects of this theme with particular emphasis on case studies from recent major disasters. Other papers on natural and technological disasters will also be considered. With participants from many countries around the world, HAZARDS 2000 will be an excellent forum for exchange of knowledge and ideas on the subject of natural and technological disasters. This international symposium will be of interest to researchers, policy makers, disaster mitigation personnel and the insurance industry.
<u>Topics</u>	 Geological hazards (earthquakes, volcanic eruptions, landslide, soil erosion, etc.) Meteorological hazards (hurricanes, typhoons, cyclones, droughts, desertification, etc.) Hydrological and Marine hazards (tsunamis, storm surges, floods, sea level rise, marine biological hazards, etc.) Technological hazards (air and water pollution) Disaster prevention, mitigation and management Economic, social and political aspects Public education and preparedness Adaptation and risk assessment Insurance Disaster information NGO, NPO and Volunteer Nankai earthquake and tsunami Pan-Pacific tsunami problem The IDNDR: A vehicle for action?

		posium Program on the above topics will include keynote speakers, special alks and contributed papers.	l					
<u>Secretariat</u>	Research Disaster Kyoto U Gokasho Tel: +81 Fax: +8 E-mail:	earch Center for Disaster Reduction Systems, aster Prevention Research Institute, bto University casho, Uji, Kyoto 611-0011, Japan. : +81-774-38-4273 : +81-774-38-4336 hail: shimizu@drs.dpri.kyoto-u.ac.jp						
<u>Venue for the</u> <u>Symposium</u>	Tokushi can knov	TARDS 2000 Symposium will be held at the Asty Tokushima and the ma Bunri University. They are located in the suburb of Tokushima City. You w their locations in <u>this map</u> . The city bus services is very convenient to reac kushima and Tokushima Bunri University.						
	Tokusł	ima City Bus Time Table						
	From 7 Univer	Cokushima Station (at No.3 stop) to ASTY Tokushima and BUNRI sity						
	08:15	To ASTY Tokushima Bus Stop						
	08:15	To BUNRI University Bus Stop						
	08:25	To BUNRI University Bus Stop						
	08:45	To BUNRI University Bus Stop						
	09:05	To ASTY Tokushima Bus Stop						
	09:20	To BUNRI University Bus Stop						
	09:40	To ASTY Tokushima Bus Stop						
	09:50	To ASTY Tokushima Bus Stop						
	10:00	To BUNRI University Bus Stop						
	10:25	To ASTY Tokushima Bus Stop						
	10:40	To ASTY Tokushima Bus Stop						
	From A	ASTY Tokushima to Tokushima Station						
	16:35							
	16:55							
	17:00							
	17:15							
	17:45							
	18:10							
	Note: A	Approzimately, it takes around 20 minutes. It costs 200 yen.						

Please note that the welcome reception will be held at the Tokushima Prince Hotel and the symposium banquet will be held at the Awakanko Hotel.

Addresses:

	Asty Tokushima	l	1 Higashi-hama 770-8055	naboji, Yamashiro-cho, Tokushima			
	Tokushima Bun University	ri	180 Nishi-hama 770-8514	aboji, Yamashiro-cho	o,Tokushima		
	Tokushima Prince Hotel Awakanko Hotel		3-5-1, Mandai-cho, Tokushima 770-0941 (TEL: +81-88-624-1111, FAX: +81-88-624-2375)				
	Awakanko Hote	el 3-16-3, Ichiban-cho, Tokushima 770-0833 (TEL: +81-88-622-5161, FAX: +81-88-622-2857)					
<u>Program</u>	HAZARDS 2000	PROG	RAM				
	date	mornii	ng	afternoon	evening		
	May 21-Sunday				Welcom Reception		
					18:00-19:30 at Prince Hotel		
	May 22-Monday	Openin	ng Ceremony	Open Forum (<i>Language:</i> <i>Japanese</i>)			
		9:00-9:45 at Tokushima Bunri University		13:00~16:40 at Tokushima Bunri University			
		<u>Plenary</u> <u>Session:keynote</u> <u>lecture</u>					
		9:45-1 at Tok Univer	ushima Bunri				
	May 23-Tuesday	Specia (Room	l Session n D)	Parallel Sessions (Room A, B and C)			
		9:30-1 at AST	1:30 TY Tokushima	13:00-17:20 at ASTY Tokushima			
	May 24-Wednesday		el Sessions A, B and C)	Parallel Sessions (Room A, B and C)	Symposium Dinner		
		9:30-1 at AST	1:30 TY Tokushima	13:00-17:20 at ASTY Tokushima	19:00~ at Awakanko Hotel		
	May 25-Thursday	8:00~1	rial Spots of Tsu	nami Disaster in			

<u>Plenary Session:</u> keynote lecture	Title: Protection	n of Cultural Heritages from	Post Earthquake Fires	3			
	Kenzo Toki Professor, Graduate Schoo	ol of Civil Engineering, Kyot	o University, JAPAN				
	Title: Disaster N	Mitigation - the next ten years	S				
	& Professor	President, Natural Hazards Society & Professor Natural Hazards Research Centre, Macquarie University, AUSTRALIA					
Language		The language of the Symposium will be English except the Open Forum. Because the Open Forum will be opened to local citizens, the language will be Japanese.					
Presentation	Time 20	minutes (including discussion	on)				
	Fi	verhead projector Im slide projector deo projector					
	NoteVideo projector can be used with Macintosh and PC. However, any computers will be not prepared. Please use your own computer. Video player will not be prepared also.						
Post Symposium Publication of Papers	The Symposium participants are encouraged to submit their papers for publication at the regular issues of the journal "Natural Hazards" which is published by Kluwer Academic Publisheres of the International Society for the Prevention and Mitigation of Natural Hazards. The Organizing Committee examines also the possibility for accepting selected papers from the Symposium to be peer-reviewed and published in the book series "Recent Advances in Natural and Technological Hazards Research". This book series is published by Kluwer Academic Publishers.						
<u>Registration Fees</u>			NHS members	All Others			
	Symposium	Before April 1,2000	30,000yen	33,000yen			
	Participants	After April 1,2000 or On-Site	33,000yen	36,000yen			
	Accor	npanying Persons	10,000yen	11,000yen			
	 Welcome ret Symposium Symposium Book of Abs Attendance at Inter-session A symposium "Accompanying Welcome ret Symposium Symposium A symposium 	stracts and other symposium at all scientific sessions a coffee breaks m organized technical visit Persons" registration fees inc ception (May 21) banquet (May 24) Program m organized technical visit	documents Slude:				
		npleted <u>Registration Form</u> to					
Currency	Y en 1s the nation	al currency in Japan. Please	refer <u>this web site</u> to l	know the rate.			

Travel Agent	The official travel age	ent of the Hazards 2	000 is:					
	1-6 Saiwai-cho, Toku Tel: +81-88-625-5551 Fax: +81-88-653-2344							
	Note: Please designate	e that you will parti	cipate with Hazards	s 2000.				
<u>How to Reach</u> <u>Tokushima City</u>	International Airport. Tokushima. The bus t from this page. And y	kushima City can be reached from most international airport via <u>the Kansai</u> <u>ternational Airport</u> . The rimousine bus is very convenient from the airport to kushima. The bus time table and the fare are here. You can get more information om <u>this page</u> . And you can ask <u>the official travel agent</u> about transportation ncerned with Hazards 2000.						
	For Tokushima		For Kansai Interna	ational Airp	ort			
	Kansai International Airport	Tokushima Station	Tokushima Station	Kansai Internation Airport	al			
	6:10	8:50	5:00		7:40			
	7:10	9:50	5:40		8:20			
	8:35	11:15	6:20		9:00			
	9:35	12:15	7:00		9:40			
	11:10	13:50	8:00		10:40			
	12:10	14:50	9:20	12:00				
	14:10	16:50	10:20	13:00				
	15:10	17:50	11:20	14:00				
	16:10	18:50	13:00	15:40				
	17:10	19:50	14:00		16:40			
	18:10	20:50	15:20		18:00			
	19:10	21:50	16:20		19:00			
	20:10	22:50	18:20		21:00			
	21:20	24:00	19:20		22:00			
	4,000 yen (Adult)	2,000 yen (Chile	•	S				
Weather Conditions	The meteorological da	ata in Tokushima ar	e given below:					
	A. 1			May	June			
	Atmospheric temper	ature	Average	18.6 C	22.1 C			
			Maximum	23.0 C	25.8 C			
	A	Minimum	14.5 C	18.9 C				
	Average number of s	sunny nours per day		6.19	4.93 76%			
	Relative humidity 70%							

Hotel	•
Accommodation	locations in <u>this map</u> . Please get on to <u>the official travel agent</u> and make a reservation.
	Tokushima Prince Hotel (3-5-1,Mandai-cho,Tokushima-shi,Tokushima,Japan 770-0941) TEL: 081-88-624-1111 FAX: 081-88-624-2375 PATE: Single 0.000 yan Twin single yan 12.000 yan
	RATE: Single 9,000 yen Twin single use 12,000 yen INTERNET: Possible
	ACCESS: 20 min. from Tokushima Station on foot
	10 min. from Tokushima Station by car
	25 min. from main hall on foot
	15 min. from main hall by car
	Hotel Clement Tokushima (61,Nishi-1-chome,Terashimahoncho,Tokushima-shi,Tokushima,Japan 770-0831) TEL: 081-88-656-3111 FAX: 088-656-3132 RATE: Single 9,500 yen INTERNET: Possible
	ACCESS: 1 min. from Tokushima Station on foot
	35 min. from main hall on foot
	20 min. from main hall by car
	Awakanko Hotel (3-16-3,Ichiban-cho,Tokushima-shi,Tokushima,Japan 770-0833) TEL: 088-622-5161 FAX: 088-622-2857
	RATE: Single 9,500 yen Twin 9,000 yen Double single use 13,000 yen INTERNET: Possible
	ACCESS: 10 min. from Tokushima Station on foot
	5 min. from Tokushima Station by car
	35 min. from main hall on foot
	20 min. from main hall by car
	Talashina Dada Hatal
	Tokushima Park Hotel (32-1,2-chome,Tokushima-cho,Tokushima-shi,Tokushima,Japan 770-0852)
	TEL: 088-625-3311 FAX: 088-625-3319
	RATE: Single 9,000 yen Twin 8,000 yen Twin single use 12,000 yen
	INTERNET: Possible
	ACCESS: 10 min. from Tokushima Station on foot
	5 min. from Tokushima Station by car 25 min. from main hall on foot
	15 min. from main hall by car
	Century Plaza Hotel (1-46-1,Minamishouwa-cho,Tokushima-shi,Tokushima,Japan 770-0944) TEL: 088-655-3333 FAX: 088-655-2190
	RATE: Single 9,500 yen INTERNET: Impossible
	ACCESS: 30 min. from Tokushima Station on foot
	20 min. from Tokushima Station on foot
	10 min. from main hall on foot
	5 min. from main hall by car
	Hotel Marston Green
	(1-12,Ryogokuhoncho,Tokushima-shi,Tokushima,Japan 770-0843)
	TEL: 088-654-1777 FAX: 088-652-8104 RATE: Single 9,000 yen

ACCESS: 10 min. from Tokushima Station on foot

5 min. from Tokushima Station by car

25 min. from main hall on foot

15 min. from main hall by car

Hotel Sunshine Tokushima Annex (2-7-1,Minamidekijima-cho,Tokushima-shi,Tokushima,Japan 770-0824) TEL: 088-622-2333 FAX: 088-622-5253 RATE: Single 9,000 yen Twin 8,500 yen INTERNET: Impossible

ACCESS: 10 min. from Tokushima Station on foot

5 min. from Tokushima Station by car

35 min. from main hall on foot

20 min. from main hall by car

Hotel Sunshine Tokushima

(2-7-1,Minamidekijima-cho,Tokushima-shi,Tokushima,Japan 770-0824) TEL: 088-622-2333 FAX: 088-622-5253 RATE: Single 8,000 yen Twin 7,500 yen INTERNET: Impossible

ACCESS: 10 min. from Tokushima Station on foot

5 min. from Tokushima Station by car

35 min. from main hall on foot

20 min. from main hall by car

Alpha Hotel Tokushima

(11,2-chome,Higashidaikumachi,Tokushima-shi,Tokushima,Japan 770-0905) TEL: 088-655-0222 FAX: 088-655-0606 RATE: Single 9,050 yen

INTERNET: Impossible

ACCESS: 10 min. from Tokushima Station on foot

5 min. from Tokushima Station by car

25 min. from main hall on foot

15 min. from main hall by car

Tokushima Washington Hotel Plaza (61,1-chome,Oomichi,Tokushima-shi,Tokushima,Japan 770-0923) TEL: 088-653-7111 FAX: 088-654-3111 RATE: Single 9,900 yen REMARKS: Two days (21 and 22 May) only INTERNET: Impossible

ACCESS: 10 min. from Tokushima Station on foot

8 min. from Tokushima Station by car

20 min. from main hall on foot

10 min. from main hall by car

Tokushima Tokyu Inn (24,1-chome,Motomachi,Tokushima-shi,Tokushima,Japan 770-0834) TEL: 088-656-0109 FAX: 088-626-0686 RATE: Single 8,500 yen REMARKS: Two days (21 and 22 May) only INTERNET: Possible

ACCESS: 3 min. from Tokushima Station on foot 35 min. from main hall on foot

	20 min. from main hall by car
	NOTE: RATE includes Service Charge and Breakfast, and excludes Tax. Please reconfirm the rate when you make a reservation.
	NOTE: "Possible" of INTERNET means that you can get access to the Internet, if you have YOUR OWN computer and ID of ISP (Internet service provider). The hotels can NOT provide any computers and IDs for you.
Technical Tour	The following four tours will be prepared. Maximum passengers in each tour is 40. You can make an entry at the reception desk.
	Date: Thursday, 25 th May 2000 Destination: Asakawa, Kainan Town, a tsunami-damaged area.
	On Thursday the 25 th of May at 8a.m, 4 buses will depart from Tokushima Station to take you to visit Asakawa, Kainan Town, an area in the south of Tokushima Prefecture that has been afflicted by a number of tsunamis. You will be divided into 4 groups, A - D, as described below. After observing the area that was damaged we will return to Tokushima City. On the way we will also visit the following well-known facilities: 'Caretta'- the sea turtle museum in Hiwasa Town / 'Mollusc Mugi'- a shell museum in Mugi Town, 'Kainan-cho Bunka Mura'- cultural facilities in Kainan Town, 'Maze-no-oka' - outdoor recreation facilities in Kainan Town, and the Tokushima City 'Awa Odori Kaikan'. We plan to finish the day's activities at approximately 5p.m. Asakawa, the area we will be observing, is located at the center of a V-shaped bay, typical of tsunami-susceptible areas, and as such has suffered several devastating tsunamis in the past. In the earthquake and tsunami that occurred on December 21 1946 on the Kansai Pacific Coast area, the Tokushima coastal area suffered the most fatalities, with 85 people losing their lives. The Kainan Town local authorities have developed comprehensive measures in order to prepare for the event of another such disaster. These include establishing an evacuation center, attaching a devise to street lights to ensure they will not go out in a power cut, introducing a disaster crew assembly system and an emergency warning system, holding evacuation drills, and producing a disaster prevention elementary school supplementary reading book. Additionally, tsunami breakwater walls have been constructed along the coast throughout Tokushima Prefecture.
	A-group: Tokushima Station == Caretta == Kainan Town == Awa Odori Kaikan B-group: Tokushima Station == Mollusc == Kainan Town == Awa Odori Kaikan C-group: Tokushima Station == Kainan Town == Caretta == Awa Odori Kaikan D-group: Tokushima Station == Kainan Town == Mollusc == Awa Odori Kaikan
	 Caretta: a sea turtle museum in Hiwasa Town. This picturesque area is famous for the sea turtles that come to lay their eggs here. Mollusc Mugi: a shell museum in Mugi Town that features Japan's only display of all three of the Japanese 'Three Rare Treasures'.

Session Program

		Room A	Room B	Room C
	9:30 - 11:30	Special session V Room D	-	-
Tuesday 23rd, May	13:00 - 15:00	(Session A-1) Geological hazards	(Session B-1) Public education and preparedness	(Session C-1) Disaster prevention, mitigation and management
	15:20 - 17:20	(Session A-2) Geological hazards	(Session B-2) Meteorological hazards & Pan-Pacific tsunami problem	(Session C-2) Disaster prevention, mitigation and management
	9:30 - 11:30	(Session A-3) Geological hazards	(Session B-3) Nankai earthquake and tsunami & Hydrological and Marine hazards	-
Wednesday 24th, May	13:00 - 15:00	(Session A-4) Geological hazards	(Session B-4) Hydrological and Marine hazards	(Session C-4) Disaster information
	15:20 - 17:20	(Session A-5) Economic, social and political aspects	(Session B-5) Hydrological and Marine hazards & Disaster prevention, mitigation and management	(Session C-5) Disaster information

Special session							
MEASURES FOR COPING	WITH NATURAL DISAS	TERS IN KC	OREA				
Jaiwoo Song							
MAJOR SIMULATION EFICE CONSIDERATIONS FOR N				IE UNITED	STATES, A	ND GLOBA	AL
Harry Yeh							
TSUNAMIS IN EAST MED	DITERRANEAN: A REVIE	W					
Gerassimos Papadopoulos							
AUGUST 1999 EARTHQU	AKE, IZMIT BAY AND T	SUNAMI RIS	SK IN THE S	SEA OF MA	RMARA		
Cevdet Ahmet Yalciner							
A-1							
STRONG MOTION SIMUL	ATION FOR THE PHILIP	PINES BASH	ED ON SEIS	MIC HAZA	RD ASSESS	SMENT	
Riberto F. Torregosa	Masata Sugito	Nobuoto	Nojima				
EARTHQUAKE PREDICTA	ABILITY USING CHAOTI	C DYNAMI	CS				
H.N. Srivastave	S.N. Bhattacharya						
EXPANSION OF THE NISI	HINOMIYA BUILT ENVII	RONMENT I	DATABASE				
Kohiyama Masayuki	Hengjian Lu	Maki	Norio	Tanaka	Satoshi	Yamashita	Norihiko
Sato Tadanobu	Hayashi Haruo						
NEW PROBABILISTIC SE	ISMIC HAZARD ANALYS	SIS FOR VR.	ANCEA (RC	MANIA) S	EISMOGEN	IC ZONE	
Paivi Mantyniemi	Vasile Marza	Andrzej	Kijko	Paul	Retief		
COMPARISON BETWEEN	TWO SYSTEMS OF BAS	E SEISMIC	INSULATIO	N			
Federico Bartolozzi							
SELF-CENTRING ASEISM	IIC SYSTEM WITH DOUE	BLE NATUR	AL FREQUE	ENCY			
Federico Bartolozzi							
A-2							
SELF-CENTRING ASEISM	IIC SYSTEM WITH ELAS	TIC BEARIN	NGS AND H	YDRAULIO	C DAMPERS	5	
Federico Bartolozzi							
ASEISMIC HYDRAULIC E	BEARING						
Federico Bartolozzi							
FORECAST OF CATASTR EMISSIONS AND OTHER					OF LOW-F	REQUENC	Ŷ
V.I. Larkina							
FAILURE MECHANISM O	F DAIKAI SUBWAY STA	TION DURI	NG HYOGC	KEN-NAM	IBU EARTH	QUAKE	
Ma Xianfeng	Akitoshi Mochizuki	Yang	Linde				
SEISMIC ATTENUATION WAKAYAMA, SOUTHWE		TERS FROM	I SHALLOW	EARTHQU	UAKES IN T	'HE CRUST	OF
Matsunami Koji	Nakamura Masao	Seto	Norihiko				
A-3							
SOIL CONDITION AND SI	EISMIC CHARACTERIST	ICS IN SHIG	A PREFECT	TURE, JAPA	AN		
Teizo Fujiwara	Kazumasa Fukumoto	Koji	Matsunami	Masami	Kobayashi	Takashi	Morii
CHAMOLI EARTHQUAKE	E (INDIA) OF MARCH, 19	99 AND ITS	AFTERSHC	OCKS			
H.N. Srivastave	S.N. Bhattacharya						

	ALTH QUESTI		WAJIEAKII	IQUAKE DI	SASTER AI	ND FELLOW	V-UP OF HU	MAN INFL	UENCE
Gotoh	Takao	Nakata	Minori						
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G. A.	Papadopoulos								
	MONITORING INEERING ME		PHERIC FOR	RERUNNERS	S OF EARTH	IQUAKES E	BY RADIO-P	HYSICAL	AND
N.N.	Efimov	V.I.	Larkina						
	ON BETWEEN REA OF QUIN					IICAL & GE	OLOGICAL	FEATURE	S OF THE
Hashimoto	Takao	Miyajima	Masakatsu						
A-	4								
	SON OF SITE- N TANGSHAN,		ESTIMATIO	N BY DIFFE	ERENT MET	THODS USIN	NG STRONG	MOTION	
Matsunami	Koji	Zhang	Wenbo						
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Fukumoto	Kazumasa	Fujiwara	Teizo	Kobayashi	Masami				
	AL AND APPL TIVE VOLCA						L AND ARC	HAEOLOG	ICAL
Domenico	Patella	Paolo	Mauriello						
LANDSLIDE	S TRIGGEREE	ЭВҮ ТНЕ Л	ULY-AUGUS	T 1999 HEA	VY RAIN II	N KOREA			
Dugkeun	Park								
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PROPOSAL ON EARTHQUAKE EDUCATOINAL PROGRAMMES FOR INDIA AND NEIGHBOURING COUNTRIES III. Srivastave ANALYSIS ON IMPORTANCE OF EARTHQUAKE EDUCATION FOR DISASTER REDUCTION (COMPARISON OF SEVERAL QUESTIONNARE SURVEYS ON AFFECTED AREA) Tomohiro Kimum Kiyomichi Aoyana THE INTERNET AS AN INFORMATION COMMUNICATION MEDIUM FOR WEATHER-RELATED HAZARDS IN THE UNITED STATES Susan M. Maeey DEVELOPING PUBLIC AWARENESS ON IMPACT OF EARTHQUAKE Suprinali Bambang Murjaya Jaya DEVELOPING PUBLIC AWARENESS ON IMPACT OF EARTHQUAKE Suprinali Bambang Murjaya Jaya COMPARISON OF HAIL CHARACTERISTICS IN WESTERN PART OF PROTECTED AREA IN TWO SEPARATE PERIONS Damin' Pe_akal HURRICANE FLOYD ALONG THE US COAST - OBSERVATIONS OF DAMAGES AND LESSONS LEARNED Anti C. Khanduri Gilbert Molas ASSESSMENT AND MANGÉMENT OF AGRICULTURAL DROUGHT IN KAINFED RICE ECOSYSTEM OF CHIHATTISGARH REGION IN CENTRAL I. NDIA ASREAS. Stasti J. S. Urkurkar Diwakar Naihu S.K. Shrivastava NEW CONSIDERATIONS FOR AADEQUETE DIACNOSTIC TECINOLOGY FOR GEOTECLINICAL RETROFT FOR RESIDENTIAL RETAIN STRUCTURES SUBJECT TO SINOW HAZARDS - DEVELOPMENT OF RISK ASSESSMENT ON A QUESTIONNARE SURVEY. Hashimoto Takoo Kimura Tomohiro FAR FIELD TSUNAMI WAVE GUIDE EFFECT OF THE SU'LTH HONSHU RIDGE Koshimara Shan-ichi Imamura Fumihiko Shau Nohuo FAR FIELD TSUNAMI RAVE OVERTOPPING OF COASTAL LEVEES IN SHIKOKU ISLAND, JAPAN HItooth Murkami YASUNG KAWAI TAKING YASUNG KONJA IZARDA AND TONANKAI EARTHQUAKE SUNAMIS TAKAASSESSMENT FOR WAVE OVERTOPPING OF COASTAL LEVEES IN SHIKOKU ISLAND, JAPAN HItooth Murkami YASUNG KOWAI TAKING YASUNG KONJA ASSESSMENT HITORAK SASDESSMENT FOR WAVE OVERTOPPING OF COASTAL LEVEES IN SHIKOKU ISLAND, JAPAN HITONH MURKAMI YASUNG KOWAI TAKING YASUNG KONJA ASSESSMENT HITORAK SASDESSMENT FOR WAVE OVERTOPPING OF COASTAL LEVEES IN SHIKOKU ISLAND, JAPAN HITORM MURAMI YASUNG KONJA ASSESSMENT FOR WAVE OVERTOPPING OF COASTAL LEVEES IN SHIKOKU ISLAND, JAPAN HITORM MURAMI YASUNG KONJA YASUNG KONJA TAKING YASUNG KONJA KOJI MARAMI YASUNG KONJA KOJI MI JAST TERRI SHUMAKI AND NOAKI AND	N.A	Karanci	B Ak	sit						
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