

アメリカU.S.G.S.の災害関係文献について

青 木 滋*

Literatures on disaster in U.S.G.S. library, Menlo park, California

by

Shigeru AOKI

I は じ め に

昭和62年2月1日～3月28日の滞米中に、アメリカ・カリフォルニア・メンロパークのUSGS（アメリカ地質調査所）の図書館において、災害関係の文献調査を行なったので、その結果を報告する。

II U.S.G.S.発行の印刷物

- Open-file report : 速報（タイプ印刷）
- Bulletin : 調査期間の短い（30日程度）報告で、総合的なものではない。
- Professional paper : 2～3年から9～10年かけた総合的研究報告
- Monograph : 大変総合的なもの。現在は出版されていない。
- Circulation : 一般人を対象とした印刷物
- Journal of research : 短い速報。今は印刷されていない。

この他、有名なWater supply paperがある。

上記の内現在発行されているものは、次の機関で発売している。

- Books and Openfile Report Section, U.S.G.S. Federal center, Box 25425, Denver, Co, 80225.
- 毎月の案内 New Publication of the U.S.G.S.
U.S.G.S. 582, National Center, Reston, VA 22095（1年15ドル）。

(1) Professional paper.(1974～1986間の災害・応用地質関係のNoと題目)

- 813-A～S : Summary Appraisals of the Nations Ground Water Reservoirs.
- 878 : Evaluation of ground-water degradation results from waste disposal to alluvium near Barstow, California (1975).
- 898 : Slump blocks in the Atlantic highlands of New Jersey (1974).
- 900 : Geological Survey Research 1974.
- 914 : Geologic considerations for redevelopment planning of Managua, Nicaragua, following the 1972 earthquake (1975).
- 921 : Earth science in the public service (1974).
- 924 : Hurricane agnes rainfall and floods, June-July 1972 (1975).

* 新潟大学積雪地域災害研究センター

- 927 : Effect of irrigation pumping on desert pupfish habitats in Ash Meadows, Nye county, Nevada (1976).
- 930 : A Hydrologic assessment of the Sept, 14, 1974 flood in Elorado Canyon, Nevada (1975).
- 937 : The 1973 Mississippi River basin flood (1975).
- 939 : Artificial recharge to fresh water-sensitive brackish water sand aquifer, Norfolk, Virginia.
- 941-A : Studies for seismic zonation of the San Francisco Bay region.
- 941-B : Seismic safety and land use planning.
- 942 : Flood-prone areas and land use planning-selected examples from the San Francisco Bay Region, California (1974).
- 943 : Flatland deposits their geologic and engineering properties and their importance to comprehensive planning.
- 944 : Relative slope stability and land use planning.
- 945 : Quantitative land-capability analysis.
- 946 : Geologic principle for prudent land use.
- 965 : The relation of geology to stress changes caused by under ground excavation in crystalline rocks at Idaho springs, Colorado (1976).
- 969 : Some engineering geologic factors controlling coal mine subsidence in Utah and Colorado.
- 975 : Geological Survey Research 1975.
- 979 : Icings along the Trans-Araska pipeline route.
- 980 : Effect of the catastrophic flood of Dec. 1966, northern area, eastern Grand Canyon, Arizona.
- 982 : Analog-model analysis of regional three-dimensional flow in the ground-water reservoir of Long Island, New York (1977).
- 987 : Physical, chemical and biological aspects of subsurface organic waste injection near Wilmington, North Carolina (1976).
- 993 : Historic ground failures in Northern California associated with Earthquake 1978.
- 998 : Floods of March-April 1973 in southeastern United States (1976)
- 1000 : Geological Survery Research 1976.
- 1002 : Guatemalan Earthquake of Feb 4 , 1976.
- 1008 : Large landslide, composed of mega breccia, interbedded in Miocene basin deposits, southeastern Arizona (1977).
- 1012 : Hydrogeology of the Karst of Puerto Rico (1978).
- 1014 : Late Quaternary depositional history, Holocene sea level changes and vertical crustal movement, southern San Francisco Bay, California (1977).

- 1028 : Studies related to the Charstone, south California earthquake of 1886 (1977).
- 1050 : Geological Survey Research 1977.
- 1053 : Potential effect of deep well waste disposal in western New York (1978).
- 1074 : Reconnaissance engineering geology of the Yakritat area, Alaska.
- 1085 : Leachate plumes in ground water from Babylon and Islip landfills, Long Island, New York.
- 1088 : Evaluation of geologic and hydrologic factors related to the waste storage potential of Mesozoic aquifers.
- 1098 : Flood of April 1977 in Appalachian Region.
- 1099B : Land use and land cover information and air quality planning.
- 1114 : Procedures for estimating earthquake ground motion.
- 1115 : Flood, July 31 August, 1976, Big Thompson river.
- 1129-A-1 : Shorter contributions to Geochemistry (1979).
- 1150 : Geological Survey Research 1979.
- 1156 : Patterns and trends of land use and land cover on Atlantic and Gulf Coast Barrier Islands.
- 1169 : Floods in Kansas City, Missouri Kansas, Sept, 12-13, 1979 (1981).
- 1172 : GeoindeX (1982).
- 1175 : Geological Survey Research 1980.
- 1183 : Landslide overview map of the conterminous United States (1982).
- 1191 : Storm-induced debris avalanching and related phenomena in the Johnstown area, Pennsylvania (1980).
- 1203 : Ground Temperature measurement.
- 1211 : Johnstown-Western Pennsylvania storm and flood of July, 19-20, 1977 (1982).
- 1217 : Simulated effect of ground water development on the potentiometric surface of the Florisian Aquifer, West-Central Florida (1982).
- 1223 : Seismic intensities of earthquake of conterminous United States.
- 1229 : Landslides in the Greater Pittsburgh Region, Pennsylvania (1982).
- 1230 : Environmental geology of the Front Range Urban Corridor and vicinity, Colorado (1982).
- 1234 : Soil conservation and reduction of erosion and sedimentation in the Coon Creek Basin, Wisconsin (1982).
- 1240-B : Facing geologic and hydrologic hazards.
- 1244 : Floods of May 1978 in SE Mont and NE Wyo.
- 1249 : Volcanic eruption of 1980 at Mt. St. Helens the first 100 days.
- 1254 : Imperial valley, California earthquakes of 1979.
- 1264 : Earthflows.
- 1275 : Geological Survey Research 1981.

- 1286 : Down stream effects of dam on alluvial rivers.
- 1313 : Studies related the Charleston southern California earthquake of 1886 (1983).
- 1316 : Geology, earthquake hazards and land use in the Helena area, Montana.
- 1319 : Floods of April 1979 Mississippi, Alabama and Georgia.
- 1342 : Evolution of southern California uplift 1955 through 1917.
- 1360 : Earthquake hazard in the Los Angeles Region.
- 1402 : Hydrogeologic framework of the Florida aquifer.

(2) **Bulletin.** (上記と同じ)

- 1383 - A B C : Potential hazards from future eruptions of mount. St. Helens volcano, Washington (1978). (噴火前の予測図他2火山)
- 1398 : Recent landslides (1976).
- 1421 : Bedrock geology (1977).
- 1492 : Recent eruptive history of mount. Hood, Oregon and potential hazards from future eruptions (1980).
- 1618 : Storm induced slope movement at East Brady, Northwestern Pennsylvania.
- 1630 : Earthquake hazards in the offshore environments (1985).
- 1645 : Reconnaissance geology and geologic hazards of the offshore Coos Bay Basin, Oregon (1986).
- 1655 : U. S. Earthquakes 1982 (1985).
- 1659 : The national earthquake hazards reductions program-scientific status (1986).

(3) **Open-file report**

- 85-585 : Bibliography of United States landslide maps and reports.

(4) **Map.**

- USGS Map I - 1257 A~N (hazard map)

Ⅲ U.S.G.S. 所蔵の災害関係文献類

(1) **Journal.**

- Disasters, the international journal of disaster studies and practice, vol. 1. 1977 ~ vol.10.1986.
Research and development Institute, 1 . Ferdinand Place, London NW1 8EE, U. K. 又は, International disaster Institute, 85, Marylebone High street, London W1M 3DE, U. K. (1 volume US7ドル) (日本の予防時報的なもの)
- Earthquake Prediction Research (EPR) vol.1 (1982) ~
Ed. by T. Rikitake, Terra Scientific Publishing Company, Tokyo.
- Abstract Journal in Earthquake Engineering, vol.1 (1972).
Earthquake Engineering Research Center, Univ. of California, Berkley, 47 th Street and Hoffman Boulevard, Richmond, Ca 94804 (年56ドル).
- Geotimes.
American Geological Institute, 4220, King St., Alexandria Va 22302. (年18ドル).

- Engineering Geology Abstracts.
American Geological Institute (1987 - vol. 4).
(Abstracts from Assoc. Eng. Geologists, Canadian Geotechnical Soc, International Assoc. Eng. Geology, Geological Society of America) (年35ドル).
 - International Journal of Emergencies and Disasters.
vol. 1 (1983) ~ triannually (Mar. Aug. Nov) official journal of the research comitte on disasters ; To subsiribe to : Engelbreakt Distribution, Engelbreaktsgatan 13, s-11432, Stockholm, Sweden.
 - Ground water.
Jour, Association of Ground Water Scientists and Engineers. Water Well Jour. Pub. Co. 6375 Riverside Dr., OH 43017 (年63ドル) maild POBOX 848. Mare, PA 16046.
 - Goastal zone management Journal.
Grane, Russak and Company N.Y.
 - Water Resources Monograph.
American Geophysical Union.
 - Bibliography and Index of Geology.
1986 1 ~ 12 .
The American Geological Institute, 4420 King Street, Alexandria, Virginia 22302 (年1100ドル)
- (2) Proceeding.
- International Symposium on Landslide.
New delli, 1981, vol. 1 . 2 . 3 .
SARITA PRAKASHAN Nanehandi grounds, Meerut, New Delli.
 - International Symposium on Landslide.
Tronto, 1984, vol. 1 . 2 . 3 .
Canadian Geotechnical Society, c/o Univ. of Tronto Press, 5201 , Defferin Street, Downsview, Ontario CANADA MBH 5 T 8 .
 - International Geological Congress.
Paris, 1980.
Section 17, Geological Hazards, Earth movement.
 - Natural Hazards in Australia.
Proceeding of a symposium on Natural Hazards in Australia, Canbera, 1976, 1979.
The Australian Aeademy of Science, POBOX 783 , Canbera City, ACT 2601 .
 - Proceedings 4 th international congress.
International Association of Engineering Geology, India, '82 (260ドル).
 - Proceedings 5 th international congress.
International Association of Engineering Geology, Argentina, '86 (198ドル).

A.A.Balkema. P.O.Box 230, Accord, MA 02018, U.S.A.

(3) N.R.C.レポート

- National Academy of Science.
2101, Constitution Avenue N.W. Washington D.C. 20418, also available from National Technical Information Service, Attention : Document sales 5285 Port Royal Road Springfield, Virginia, 220161.
- National Research Council.
National Academy Press, Washington D.C. 1985.
- Debris flow, NRC Rep. № CETS-CND-027, (price code, paper AO6, mf AO1).
- Uta Landslide (The Utah landslides, debris flows and flood of May and June, 1983), NRC Rep. № CETS-CND-025, (price code, paper AO6, mf AO1) 1984.
- Reducing Losses (Reducing Losses from landsliding in the United States), NRC Rep.№ CETS-ABBE-156 (price code, paper AO3, mf AO1) 1985.
- Liquefaction of soils during Earthquakes, NRC Rep. № CETS-EE 001 (price code, paper A-11, mf AO1).
- Robert L. Schuster, Raymond J. Krizek (1978) : Landslides Analysis and Control, Special Report 176, Transportation research board, National Academy of Science, (14ドル) (The classification of Landslide in USA is based on the above book).

(4) 単行本

- White G.F. ed (1974) : Natural Hazards : Local, National, Global, (Oxford University Press, Oxford).
- F.C. Cuny (1983) : Disaster and Development (Oxford University Press, Oxford, 25,00ポンド).
- Denys Brunsten and David B.Prior (1984) Slope instability, (Wiley-Interscience Publ, Chichester and New, 620p. ISBN 0471903485, 37.95ドル).
- M.L.Blair. ed (1985) When the Ground Fails — Planning and Engineering Response to Debris Flows (Programme on environment and behaviour monograph №40, Institute of Behavioural Sciences ; Univ. of Colorado, Boulder, Colorado, 8ドル).
- Anders Wijkman and Lloyd Timberlake, (1984) : Natural disasters — Acts of God or Acts of Man? (Earthsoon, London, ISBN №-0-90534754-4 3.50ポンド).
- J.H.Sutter and M.L.Hecht (1974) : Landslide and subsidence Liability (California Pacific Book № 65, California continuing Education of the Bar, Berkely, Ca. Univ. of California) (不定期刊行物).
- C.F.Stewart Sharpe (1960) : Landslides and related phenomena — A study of mass movement of soil and rock — (Pageament Book Inc., 128 Oliver Street Paterson 1, New Jersey) (Copyrite 1938 Columbia Univ. Press, New York).
- Christian Veder (1980) Landslides and their stabilization (Springer — Verlag, New York).

- R. W. Perry and M. R. Greene (1983) : Citizen response to volcanic eruption : the case of Mt. St. Helens (Irvington Publisher Inc, 551 Fifth Avenue, New York, N. Y. 10017, 小冊子).
- P. H. Rossi, J. D. Wright and E. Weber-Burdin (1982) : Natural Hazards and Public Choice, (Academic Press Inc, 111 Fifth Ave. New York, N.Y. 10003).
- John white (1979) : Disasters (The University of Georgia Press Athens, Georgia 30602 ; John Whilton, 411p).
- W. J. Petak, A. A. Atkisson (1982) : Natural Hazard Risk Assessment and Public Policy (Springer-Verlag, New York).
- James Huffman (1986) : Government Liability and Disaster Mitigation—A Comparative Study— (University Press of America Inc., 4720 Boston Way Lanham, MD 20706) (中国, 日本, ソ連, ニュージーランド, アメリカ各国の例をのべている).
- Griggs and Gilchrist (1983) : Geologic Hazards, Resources and Environmental Planning (Washington Publishing Company Inc, A division of Wadsworth Inc, Belmont Ca 94002, 2版).
- James Corneil (1976) : The great international disaster book (Charles Scribners Sons, New York). 1982年の3版がでた。19.95ドル。
- Kendrick Frazier (1979) : The Violent Face of Nature (William Morrow and Company Inc, New York).
- Basil Booth and Frank Fitch (1979) : Earth Shock (Walker and Company, New York.) (食糧問題もあつまっている)。
- Kiyoshi Kanai (1983) : Engineering Scismology, (東大出版会)。
- R. U. Cook (1984) : Geomorphological Hazards in Los Angeles (George Allen and Unwin Publishers LTD, 40 Museum street, London, WC1A1LU. UK).
- R. H. Turner, J. N. Nigg and D. H. Paz (1986) : Wating for disaster— Earthquake Watch in California— (University of California Press).
- Helmut Tributel (1982) : When the Snakes awake— Animals and Earthquake Prediction— (The MIT Press, Cambridge, Massachuesetts, ドイツ語のほんやく)。
- Toshi Asada ed (1982) : Earthquake Predietion Technique (東大出版会)。
- Landslides in clays by Collin 1846 (University of Tronts Press, 1956 Canada, ほんやく本の複製版)。
- K. Mogi (1985) : Earthquake Prediction (Academic Press Japan Inc).
- J. R. Griffin (1982) : The Jupiter effect reconsidered (SH Plagemann Vintage Books, A division of Random House, N.Y.)
- Hoek d J.W.Bray (1977) : Rock slope Engineering. Institute of Mining and Metallurgy, London.)
- National Geographic Soc.(1982) : Our violent Earth (Washington D.C.)
- Fletcher G. Driscoll (1986) : Ground water and Wells (II nd ed) (Johnson Division,

St Paul, Minnesota 55112, 1108p).

- T. G. Aylesworth (1979) : Geological Disasters. (Franklin Watts, New York.)
 - Tor H. Nilsen ed (1985) : Modern and Ancient Alluvial Fan Deposits. (Benchmark Papers in Geology Series. Van Nostrand Reinhold Company, N.Y.)
 - Donald R. Coates (1976) : Geomorphology and Engineering (Halsted Press, John Wiley and Sons, Inc.)
 - R. S. Carmichael ed (1982) : Hand book of physical properties of rocks, vol. I , II , III. (CRC Press Inc. Boca, Raton, Florida.)
 - Ward G. Macarty ed (1985) : Ground Water Quality (Wiley-Interscience, John Wiley and Sons.)
 - Geological Soc. America ed : Engineering Geology Case Histories 6 - 10 (1974). (3300 Penrose Place Boulder, Co. 80301.)
 - Perry H. Rahn. (1986) : Engineering Geology, Environmental Approach (Elsevier).
- (5) その他
- San Fernando, California Earthquake of February 9, 1971. vol.1, 2, 3 (1973). (U.S. Department of commerce National Oceanic Atmospheric Administration for sale by the Superintendent of U.S. Government Printing Office, Washington D.C. 20402, (11.9ドル) Stock № 0317-0089.)
 - G. H. Eisbacher and J. J. Clegue (1984) : Destructive Mass movements in High Mountains ; Hazard and Management, (Geol. survey of Canada, paper 84-19, Canadian Government Publishing Center, Supply and Service, Ottawa, Canada KIAOS 9 .)
 - Surendrak ed (1978) : Evaluation and Prediction of subsidence. (ASCE (American Society of Civil Engineering) 345, East 47th Street, New York, NY 10017, 30ドル, 593p.)
 - Indian Society of Engineering Geology (1975) : Seminar on Landslides and Toe erosion problems with special reference to Himalayan region. (27, Jawaharlal Nehru Road Calcutta-70013.)
 - James Lewis : Some aspect of disaster research, Disaster Research Unit. (Univ. Bradford. Bradford, West Yorkshire BD7, 10p, U.K.)
 - GSA Reviews in Engineering Geology. (VI Man-induced land subsidence ed by T. L. Holzer, 231 p. 28ドル, Geological Society of America, Publication Sales PO BOX 9140, Boulder, CO80301.)
 - Liquefaction Problems in Geotechnical Engineering, (ASCE Annual Convention and Exposition, Sept. 27 - Oct. 1, 1976, Philadelphia, preprint 2752387, 10ドル) (ASCE : 345 East 47th Street, New York, NY 10017.)
 - 1987 Geologic Hazards Symposium (May 12 - 17, 1987) (contact William Pyle, PO BOX 101288, Anchorage, Alaska, 99510, 50ドル.)
 - US Department of Housing and Urban development (1969) : Environmental planning

and Geology. (Superintendent of Documents, U.S. Government Printing Office, Washington D.C. 20402, 2.75ドル.)

- R.R. Dynes, S.E. Hass and E.L. Quarantelli (1964) : Some preliminary Observation on Organizational Responses in the Emergency Period after the Niigata Earthquake of June, 1964. (Research Report 11, Disaster Research Center, Department of Sociology, The Ohio State Univ., Columbus Ohio, 43210 (タイプ印刷).)
- Reconnaissance Report of Miyagiken -oki Earthquake, June 12, 1978. (Earthquake Engineering Research Institute 2620, Telegraph Avenue, Berkely, California, 94704, 11ドル).
- Tokachioki, 1968 ed by Jiro Suzuki, (pubs. by Keigaku Publishing Co. Hagiwara Bld 3-1, 2-chome, Sarugaku-cho, Chiyoda-ku, Tokyo.)
- Disaster Prevention and Mitigation ; vol.2 Hydrological Aspect (1978), vol.3 Seismological Aspect (1978), vol.5 Land Use Aspect (1978), vol.10 Public Information Aspect (1979) (office of the United Nations Disaster relief co-ordinator, Genova.)
- The Status and Natural Hazards. (Council of State Governments 1979, Ioon Works Pike, Lexington, Kentucky 40578, 5ドル.)

IV おわりに (感想)

1. 1970年代からすでにhazard map的なものを行っている。
2. 災害や地質を土地利用やcity planningに応用しようとしている。
3. Professional paperには応用地質的なものが多い。
4. 洪水の調査報告が多い。
5. 日本の文献で、そろっているのは、東大地震研い報、災害学会のNatural disasterだけであった。
6. ある1つの書棚のブロックが、災害だけの本、雑誌、proceeding、パンフレット、写真、マスター論文、ドクター論文、科研レポート等が集められていて、非常に利用しやすかった。すべて通し番号がついているので、どこかがぬけているとすぐにわかる。
7. 災害では、圧倒的に地震が多く、日本地震月報もよく集められていた。中でも圧巻なのは、Berkeley, U.C.L.A. の E.Q.R.C. の文献であった。(ここでは、地震関係の文献は、かなり割愛してある。)