

ANNEX

Immediately after the first circular note on World Conference on Natural Disaster Reduction by IDNDR Secretariat, the Chinese Government decided to start the preparation of the National Report and, for this purpose, designated China National Committee for the IDNDR (CNCIDNDR) to coordinate the undertaking. In November 1993, a Leading Group for the National Report, composed of relevant officials from CNCIDNDR, Ministry of Foreign Affairs, the State Planning Commission, the State Science and Technology Commission, Chinese Academy of Sciences, State Seismological Bureau, etc. was set up to take charge of the organization work relating to the compilation of the report and to give guidance to its drafting. Under this leading group a drafting group was established, whose members included those from relevant administrative departments of the Government and representatives from relevant scientific and educational circles. On this basis, a standing drafting group was set up drawing upon expertise from CNCIDNDR, Ministry of Foreign Affairs, Chinese Academy of Sciences, State Oceanic Administration, Beijing Normal University and Beijing Aeronautical and Aerospace University, etc..

In order to ensure that the Report presents an accurate picture of the past, present and future of China's efforts at natural disaster reduction, the standing drafting group has held six meetings to solicit views from the Leading Drafting Group, 28 member organizations and also from relevant experts and scholars. Thus, the Report was redrafted and substantially amended four times before its finalization.

List of Participating Organs and Members for Preparation of *National Report of the People's Republic of China on Natural Disaster Reduction*

Leading Group

Head of the Group:

Fan Baojun Vice-Chairman & Secretary-General of CNCIDNDR, and
Vice-Minister of Civil Affairs

Deputy Head of the Group:

Jiang Li Office Director of CNCIDNDR, and Director,
Dept. of Disaster and Social Relief, Ministry of Civil Affairs

Members of the Group:

Yang Qingwei Deputy Director of Department for Social Development,
State Planning Commission

Zhang Yesui Deputy Director, International Dept.,
Ministry of Foreign Affairs

Wang Yong Deputy Director, Social Development Dept.,
State Science and Technology Commission

Wang Angsheng Head of Experts' Group of CNCIDNDR, and
Vice-President of Research Committee of Natural Disasters under
Chinese Academy of Sciences

Ma Zongjin Head of National Working Group on Natural Disasters Sponsored by
SSTC, SPC and SETC, and Director of Institute of Geology,
State Seismological Bureau

Shi Huaie Office Deputy-Director of CNCIDNDR, and
Senior Officer, Dept. of Disaster and Social Relief, MCA

Xie Lili Member of Scientific and Technological Committee of UN IDNDR,
Director of Institute of Mechanics Engineering, SSB

Drafting Group

Head of the Group:

Wang Angsheng Head of Experts' Group of CNCIDNDR, Professor

Deputy Heads of the Group:

Ma Zongjin Head of National Working Group on Natural Disasters, SSTC, SPC and
SETC, Academic

Zhou Jianguo Division Chief, Office of CNCIDNDR

Members of the Group:

Yang Huating	National Working Group on Natural Disasters, STSC, SPC and SETC, and China Institute for Marine Development Strategy, SOA, Professor
Li Jishun	Experts' Group of CNCIDNDR, Senior Engineer
Zhang Peiyuan	Geographical Research Institute of Chinese Academy of Sciences, Professor
Shi Peijun	Vice Dean of Resources and Environment College, Beijing Normal University, Professor
Zhong Shukong	Inter'l Dept. of Ministry of Foreign Affairs, Minister-Counsellor
Wei Guangshun	Experts' Group of CNCIDNDR, and Beijing Aviatorial and Aerospace Univ., Associate Professor
Xu Naizhang	Research Committee of Natural Disaster, Chinese Academy of Sciences, Senior Engineer
Gao Jianguo	National Working Group on Natural Disasters, STSC, SPC and SETC
Zhan Xuenong	Office of CNCIDNDR
Huang Wenxian	Office of the Headquarters of National Flood Prevention and Drought Resistance, General-Engineer
Liu Zhigang	Seismic Resistance Office, Ministry of Construction Senior Engineer
Yao Hong	Deputy Division-Chief, Dept. for Social Development, State Planning Commission
Yang Youming	Division-Chief, Dept. of Economic Coordination of State Economy and Trade Commission
Wang Zhixiong	Division-Chief, Social Development Dept., State Science and Technology Commission
Wu Hailong	Deputy Division-Chief, Inter'l Dept. of Ministry of Foreign Affairs
Lin Hai	Deputy Director, National Natural Sciences Foundation of China, Professor
Li Shukai	Institute of Remote Sensing of Chinese Academy of Sciences, Professor
Jiang Ruizhong	Deputy Director, General Station for Plant Prevention of Ministry of Agriculture, Senior-Agronomist
Zhang Xijin	Chinese Academy of Forest Science of Ministry of Forestry, Associate-Professor

Li Shaowu Ministry of Geological and Mineral Resources, Senior Engineer
Ding Shaoxiang Division Chief, Seismic Resistance Office, Ministry of Construction,
Senior Engineer
Li Geping Deputy Division-Chief, State Seismological Bureau,
Senior Engineer
Li Cuijin National Meteorological Centre of
China Meteorological Administration, Senior Engineer
Xu Sheng State Oceanic Administration, Engineer
Yu Peng Dept. for Social Development, State Planning Commission
Ruan Zhongjia Deputy Editor-in-Chief, *Natural Disaster Reduction in China* of
CNCIDNDR
Kang Peng Inter'l Cooperation Dept. of Ministry of Civil Affairs
Liu Yanhua Experts' Group of CNCIDNDR, Professor
Xin Miaoxin Experts' Group of CNCIDNDR, Associate-Professor
Gen Shujiang Experts' Group of CNCIDNDR, Senior Engineer
Qian Xiaoying Office of CNCIDNDR
Chen Huixiang Research Committee of Natural Disaster, Chinese Academy of Sciences,
Senior Engineer
Fang Zhiyong Dept. of Disaster and Social Relief, Ministry of Civil Affairs
Wu Yu Office of CNCIDNDR

Standing Drafting Group

Group Head: Wang Angsheng (see above)

Deputy Head: Zhou Jianguo (see above)

Members:

Yang Huating,	Li Jishun,	Zhang Peiyuan,	Shi Peijun,
Zhong Shukong	Wei Guangshun,	Xu Naizhang,	Gao Jianguo,
Zhang Xuenong,	Ruan Zhongjia,	Qian Xiaoying,	Kang Peng,
Chen Huixiang,	Fang Zhiyong,	Wu Yu.	

Institutions and Organizations which Have Participated in Discussion on the Drafts of the National Report

Ministry of Foreign Affairs, State Planning Commission, State Economy and Trade Commission, State Education Commission, State Science and Technology Commission, Ministry of Public Security, Ministry of Civil Affairs, Ministry of Finance, Ministry of Geological and Mineral Resources, Ministry of Construction, Ministry of Railways, Ministry of Communication, Ministry of Posts and Telecommunications, Ministry of Water Conservancy, Ministry of Agriculture, Ministry of Forestry, Ministry of Interior Trade, Ministry of Foreign Economic Relations and Trade, Ministry of Broadcasting, Film and Televisions, Ministry of Public Health, Chinese Academy of Sciences, China Meteorological Administration, State Oceanic Administration, State Seismological Bureau, China Red Cross Society, National Natural Sciences Foundation of China, the People's Insurance Company of China, the Headquarters of General Staff of People's Liberation Army, State Statistics Bureau, Chinese Academy of Social Sciences, etc.

Appendix:

SUMMARY REPORT OF THE PEOPLE'S REPUBLIC OF CHINA ON NATURAL DISASTER REDUCTION

SECTION A: PROFILE

1. China National Committee for the International Decade for Natural Disaster Reduction

China National Committee for the International Decade for Natural Disaster Reduction (hereafter referred to as CNCIDNDR) is an inter-ministerial organization that takes charge of the formulation of principle policy and action plan for IDNDR activities in China, organizes and coordinates relevant departments, NGOs and mass media in making concerted efforts to launch IDNDR activities, gives guidance to local government in their disaster reduction undertakings. The Committee is composed of the following 28 organizations:

Ministries(Commissions, Bureaus)[23]:

- Ministry of Foreign Affairs(MFA)
- State Planning Commission(SPC)
- State Economy and Trade Commission(SETC)
- State Education Commission(SEC)
- State Science and Technology Commission(SSTC)
- Ministry of Public Security(MPS)
- Ministry of Civil Affairs(MCA)
- Ministry of Finance(MF)
- Ministry of Geological and Mineral Resources(MGMR)
- Ministry of Construction(MCon)
- Ministry of Railways(MR)
- Ministry of Communications(MCom)
- Ministry of Posts and Telecommunications(MPT)
- Ministry of Water Conservancy(MWC)
- Ministry of Agriculture(MA)

Ministry of Forestry(MFor)
Ministry of Interior Trade(MIT)
Ministry of Foreign Economic Relations and Trade(MFERT)
Ministry of Broadcasting, Film and Television(MBFT)
Ministry of Public Health(MPH)
China Meteorological Administration(CMA)
State Oceanic Administration(SOA)
State Seismological Bureau(SSB).

Non-Governmental Organizations[1]:

The China Red Cross Society(CRCS).

Academic & Research Institutions[2]:

The Chinese Academy of Sciences(CAS)
National Natural Sciences Foundation of China (NNSFC).

Insurance[1]:

The People's Insurance Company of China(PICC).

Others[1]:

The Headquarters of General Staff of the People's Liberation Army(HGSPLA)

2.Internal Organization of CNCIDNDR

CNCIDNDR has designated: 1 Chairman held by one State Councillor (vice premier level), who takes charge of the overall work; 6 Vice-Chairmen, of whom 1 Executive Vice-Chairman (minister-level) to assist Chairman and takes charge of routine matters; 1 Secretary-General (vice-minister level) in charge of the coordination among the member organizations, 22 standing members who are involved in the discussion, study and decision-making of significant issues relating to the Committee.

Office and Experts' Committee are established under the CNCIDNDR Committee. The Office is the administrative agency (department level) responsible for daily routine matters of the Committee; The Experts' Committee is a consultative body drawing upon prominent experts on various relevant subject matters, who offer disaster reduction advices and are involved in evaluation and judgement of scientific and technical projects and engineering works relating to disaster reduction, and also in the programme formulation and important policy-making on disaster reduction.

3. Prevailing hazards

Type		Location	Affected Population (hds.ml per year)
Atmospheric-Hydrospheric Disaster	Rainstorm and Flood, Waterlogging	Yellow River, Haihe and Huaihe River valleys, middle and lower reaches of Yangtze River; Taihu Lake and northwestern China	2
	Drought	Northwestern, northern and southern China	1.6
	Typhoon; Storm Surge	Coastal areas	2
	Hails	Various areas in China	0.5
	Cool and Freezing Injury	Northwestern, northern and northeastern China, South of Yangtze River	1.7
	Snowstorm	Northwestern, northern, northeastern and southwestern China	1
	Geological and Geomorphological Disasters	Earthquake	Northern, southwestern, northwestern China and Coastal areas of southeastern China
Landslides		Some parts of China	0.05
Mud-rock flow		Some parts of China	0.05
Soil erosion		Northwestern and northern China	1
Desertification		Northwestern and northern China	1
Biological Disasters	Disease, Insect pests and Rodent	Various areas in China	1.5
	Vicious weeds	Various areas in China	2
	Red tides	Off-shore regions	1
Forest and Grassland Fires		Forest and pastoral areas of northeastern, northwestern, northern, southwestern China	0.1

4. Natural disasters in the last 3 years(1990-1992)

Type	Location	Affected Population(hds.ml)	Losses (hds.ml yuan)
Rainstorm, Flood and Waterlogging	Valleys of Huaihe River, middle and lower reaches of Yangtze River; Taihu Lake; Liaohe and Songhuajiang River Valleys	3	1800
Drought	Northern, southern, northeastern, northwestern China and also South of the Yangtze River	2	450
Typhoon, Storm Surge	Coastal areas	2	210
Cool and Freezing Injury	Northern, northeastern, northwestern, China; South of the Yangtze River	1.7	150
Hails	Various areas in China	0.8	80
Earthquake	Lazi of Tibet Autonomous Region; Pu-er of Yunnan, etc.	0.15	25
Sandstorm	Northwestern part of China like Gansu, Ningxia, Inner-Mongolia and Xinjiang	0.2	17
Plant Diseases, Insect Pests and Rodent	Various areas in China	1	200

5. On national socio-economic conditions

According to the 1992 statistics, China has a population of 1.17 billion; the Gross National Product amounted to 2403.6 billion yuan; the income per capita in the urban area was 1826 yuan, and the net per capita income in the rural area was 784 yuan. The estimated GNP of China in 1993 would exceed 3000 billion yuan.

6. Available elements of assistance to other countries in the field of natural disaster reduction

Having a long history of and abundant experience in disaster reduction, China has a scientific and technical staff of a considerable size, including first-class scientists by world standards. And her experience in disaster reduction engineering works, characterized by lower financial input and faster benefits, can be of reference value to other developing countries, and can be exported as a form of technical assistance.

Besides, as most parts of China are located in the joint areas between the 2 regions where

natural disasters of various types occur with high frequencies, these areas are rather typical in the world and are capable of offering good sites and valuable information for conducting studies of global natural disasters.

7. International assistance needed for natural disaster reduction

China is one of the few countries in the world where the heaviest losses caused by natural disasters are recorded. Being now in the process of economic development, China's financial resources for disaster reduction are insufficient and her S & T levels still lag behind those of advanced countries. It follows, therefore, that China needs international assistance in scientific research, applied technologies and, particularly in financial resources in the field of natural disaster reduction.

SECTION B: STRATEGIC MEASURES AND ACTIVITIES

1. Steps towards achieving the 3 main targets of CNCIDNDR

(a) Conducting integrated national risk assessments on natural hazards. On the basis of the existing and relatively scattered risk assessment, CNCIDNDR will conduct integrated risk assessments on natural hazards through organizing and coordinating efforts of all circles across the country.

(b) Formulating mitigation plans at national and local levels. On the basis of current system of disaster management by multi-departments and current plans for different types of disasters formulated by various departments and regions, China will draw up national and local plans for natural disaster mitigation with the integration of preparedness, prevention and relief operations, and will have these incorporated into the overall programming of national socio-economic development.

(c) Developing and improving the existing forecasting and warning systems, China will progressively form an integrated forecasting and early warning system to be linked with relevant international systems.

2. Present national programme for natural disaster reduction

(a) Time frame: 1994 to 2000.

(b) Agencies, institutions and organizations involved: CNCIDNDR and its member organizations, academic research institutions, relevant NGOs and resident agencies of the U.N. system in China.

(c) Implementing agencies: National Government and local government at all levels.

(d) Funds available for implementation: financial resources from the budget of national and local governments, social contributions, donations and financial assistance from the international community.

3. Legislation & Law-enforcement in relation to national disaster reduction

A number of laws and regulations relating to different types of natural disasters have been formulated, which cover many areas but lack integration. Initial preparations are now under way to formulate the nation's integrated legislation on disaster reduction.

4. Disaster mitigation activities underway or completed

a) Identification of Hazard Zones: Hazard Assessment

No	Project Title	Status	National Participating Organizations	Coast (hds.ml. yuan)	Sources of Funding	Implementing Agencies	Address of the Agencies in Charge
1	Earlier pre-disaster survey of major geological disasters	from 1991-1993, completed, underway	MGMR; Prov govts.	0.2/year	Central govt local govts.	Govts. of provs/municipalities/ auto. regs.	SPC, No.38, Yuetan Nan Str. Beijing Tel 8501805
2	Zoning map of seismic intensity of China, Geophysical survey in seismic areas and activity fault map	The former completed, the latter underway	SSB	0.1	Central govt. local govts	SSB	SSB, No.63, Fuxing Rd. Beijing Tel:8215979
3	Remote-sensing monitoring and evaluation on major natural disasters		CAS, MFor, SSB	0.06	Central Govt.	CAS	CAS, No.52, Sanlihe Rd Beijing Tel:8597531 Fax.8597559
4	Basic research in disaster reduction in cities and in engineering works	to be implemented in 1994	Tongji Univ.; Qinghua Univ.; China Research Institute of Construction & Architecture	0.05	Central Govt.	SSB	NNSFC, Huayuan Bei Str Beijing Tel.2016655

b) Monitoring, Forecasting and Warning

No	Project Title	Status	National Participating Organizations	Costs (hds.ml. yuan)	Sources of Funding	Implementing Agencies	Address of the Agencies in Charge
1	Marine environment observation and forecasting system	partly completed	SOA,MWC;MCom.	3	Central Govt.	SOA	SOA, No 1, Fuxingmenwai Str. Beijing Tel:8032211 ext.389
2	Engineering system of forest disease and pest monitoring, forecasting and warning	underway		2.9	Central and local govts.; Inter'l funds	MFor	MFor, Hepingli, Beijing Tel:4213786
3	Weather forecast systems at national regional and prov. levels	bulk completed	CMA, local govts.	2.6	Central and local govts.	CMA; local govts.	CMA, No 46, Baishi Bridge Rd. Beijing Tel:8312277-2682
4	Seismic monitoring and forecasting system	underway	SSB; local govts	0.8	Central and local govts.	SSB; local govts.	SSB, No.63, Fuxing Rd. Beijing Tel:8219348
5	Monitoring and forecasting system of grassland insect pests and rodent	underway	10 pastoral provs./ auto. regs.	0.2	Central and local govts.	MA	MA, No 11, Agricultural Exbt. Hall Nanli, Beijing Tel.5003366
6	Monitoring and warning system of mud-rock flows		MWC;MA;CAS	0.04	Central govt.	CAS	CAS, No.52, Sanlihe Rd. Beijing Tel 8597531 Fax:8597559

c) Long-Term Preventive Measures

No	Project Title	Status	National Participating Organizations	Costs (hds. ml. yuan)	Sources of Funding	Implementing Agencies	Address of Agencies in Charge
1	Reinforcement of existing buildings and facilities that are non-resistant to seismic disasters	underway	Govts of 30 provs. and 20 plus ministries, enterprises and institutions	30	Central and local govts.; enterprises and institutions	Central and local govts	MCon, Baiwanzhuang, Beijing Tel 8393376
2	Taihang Mountains greening engineering project	underway	Shanxi;Hebei; Henan and Beijing	26.4	Central and local govts.; Inter'l funds	MFor	MFor, Hepingli, Beijing Tel:4213786
3	Land degradation control and project management	underway	CAS	0.22	Central govts	CAS	CAS, No 52, Sanlihe Rd. Beijing Tel:8597531
4	Beihou Mount landslide control in Hanyuan County of Sichuan Prov.	to be completed in 1994	Govt. of Sichuan Prov.	0.17	Central and local govts.	Govt. of Sichuan prov	SPC, No.38, Yuetan Nan Str, Beijing Tel.8501805
5	Douyapong landslide control in Wanxian County of Sichuan Prov.	1993-1994	Govt. of Sichuan Prov.	0.13	Central and local govts	Govt. of Sichuan prov.	SPC, No.38, Yuetan Nan Str, Beijing Tel:8501805

d) Short-Term Protective Preparedness and Measures

No	Project Title	Status	National Participating organizations	Costs (hds. ml. yuan)	Sources of funding	Implementing Agencies	Address of the Agencies in charge
1	Preplan for imminent-quake & during-quake emergency measures	underway	MPT; MCoal; Govts of Yunnan, Sichuan, Xinjiang, Ningxia, Gansu, Qinghai, Shanxi, Hebei, Beijing	0.5	Central and local govts.	Central and local govts.	MCon, Baiwanzhuang Beijing Tel:8393376
2	Seismic situation monitoring and tracking in the monitoring and preventive area of serious earthquake	underway	SSB; local govts of all key regions	0.08	Central and local govts.	SSB, govts. of provs./municipalities	SSB, No.63, Fuxing Rd. Beijing Tel:8219384

5. Plans to achieve IDNDR targets by the end of 1999

a) Identification of Hazards Zones: Hazards Assessment

No	Project Title	Status	National Participating Organizations	Costs (hds.ml. yuan)	Sources of funding	Implementing Agencies	Address of the Agencies in Charge
1	Seismic risk prediction, prevention and emergency response-measures at national and zonal major areas	underway	SSB; ministries concerned, local govts.	1	Central and local govts.	SSB	SSB, No.63, Fuxing Rd. Beijing Tel:8221108
2	Comprehensive seismic prevention system in the delta area of Yangtze River		MR; MCom; MPT; MWC; govt. of Jiangsu prov.	0.8	Central govt. and govt. of Jiangsu prov.	Central govt. , govt. of Jiangsu prov.	SSB, No 63, Fuxing Rd. Beijing Tel:8221108

b) Monitor, Forecast and Warning

No	Project Title	Status	National Participating Organizations	Costs (hds.,ml. yuan)	Sources of funding	Implementing Agencies	Address of the Agencies in Charge
1	Engineering system of forest fire prevention, monitoring and forecasting	underway	MFor	10.9	Central and local govts.; Inter'l assistance	MFor	MFor, Hepingli, Beijing Tel:4213786
2	China Center for monitoring desertification	to be implemented	MFor	5	Central and local govts.; Inter'l assistance	MFor	MFor
3	Marine disaster forecasting and warning system	partly completed	SOA	2	Central govt.	SOA and govts at coastal area.	SOA, No.1, Fuxingmenwai Str. Beijing, Tel: 8032211-389
4	Monitoring networks for disastrous crops diseases and insect pests	First phase completed; Second phase being implemented	MA, plant protection stations in 10 provs.	1.8	Central and local govts.	MA	MA, No.11, Agricultural Exbt. Hall Nanli, Beijing Tel:5003366
5	Monitoring and forecasting system for grassland fire-prevention	underway	Govts. of the pastoral provs	1.1	Central and local govts.; Inter'l assistance	MA	MA
6	1.Digital seismic station network 2.Seismic information network 3.Dynamic network for monitoring earth transformation	1.under test 2.just started 3.Plan to be finalized	SSB; relevant local govts.	0.4	Central and local govts.	SSB	SSB, No.63, Fuxing Rd. Beijing Tel:8221108
7	Monitoring and forecasting of typhoon and torrential rains and hazards mitigation study	underway	CMA; CAS, SEC	0.25	Central govt.	CMA, CAS, SEC	CMA, No.46, Baishi Bridge Rd. Beijing Tel.8312277-2682

c) Long-Term Disaster-Prevention Measures

No	Project title	Status	National Participating Organizations	Costs (hds.ml. yuan)	Sources of Funding	Implementing Agencies	Address of the Agencies in Charge
1	Three-Gorge Dam engineering on Yangtze River	underway	TG Committee of State Council	500.9	Central and local govts	MWC; Hubei prov.	TGCSC, No.39, Yuetan Nan Str. Beijing
2	Mid-line engineering of water channelling from South to North China	to be implemented	MWC; govts. of Beijing, Tianjin, Hebei, Henan, Hubei, Sha'anxi provs & munics.	226	Central and local govts; Domestic and foreign loans	Leading group of water transport from South to North under the State Council	to be decided
3	Xiaolangdi dam engineering on Yellow River	Underway	MWC; Henan and Shanxi provs.	150	Central and local govts; World Bank loan	MWC	MWC, Baiguang Rd. Beijing Tel:3203161
4	3rd phase of "3-Northern" Shelter Forest System	to be implemented in 1996	Govts. of 13 provs in north-eastern, northern and northwestern China	140	Central and local govts; Domestic and foreign loans	MFor	MFor, Hepingli Beijing Tel:4213786
5	Shelter-forest system engineering in the upper and middle reaches of Yangtze River	underway	Govts of Yunnan, Guizhou, Sichuan, Gansu, Qinghai, Sha'anxi, Hubei, Hunan, Jiangxi	110	Central and local govts; Inter'l assistance	MFor	MFor, Hepingli Beijing Tel:4213786
6	Seismic resistance and prevention engineering in new construction works	completed	Local govts. and enterprises located in seismic intensity over VI	100	Local govts.; Enterprises	MCon;	MCon, Baiwanzhuang Beijing Tel:8393376
7	The Huaihe River control engineering projects (18 items)	underway	Govts. of Henan, Anhui, Jiangsu, Shandong Provinces	61	Central and local govts.; World Bank loans	MWC	MWC, Baiguang Rd. Beijing Tel:8393376

No	Project title	Status	National Participating Organizations	Costs (hds.ml. yuan)	Sources of Funding	Implementing Agencies	Address of the Agencies in Charge
8	Comprehensive control & management engineering projects of grasslands	underway	28 provincial govts.	61	Central and local govts.; Inter'l funds	MA	MA, No 11 Agriculture Hall Nanli, Beijing Tel:3203161
9	National desertification control and prevention engineering projects	underway	27 provincial /auto regs/ municipality govts.	45	Central and local govts.; Inter'l assistance	MFor	MFor, Hepingli Beijing Tel:4213786
10	Comprehensive Control & management engineering of Taihu Lake	underway	MWC; Jiangsu, Zhejiang and Shanghai govts.	40	Central and local govts ; Inter'l assistance	MWC	MWC, Baiguang Rd. Beijing Tel:8393376
11	Control & management engineering of the lower reaches of Yellow River	underway	MWC; Henan and Shandong govts.	29.5	Central govt.	MWC, Henan and Shandong prov. govts	MWC
12	Shelter forest systems engineering in the coastal areas	underway	Govts. of 11 provs. in the coastal area	21	Central and local govts.; Inter'l funds	MFor	MFor
13	Shelter forest system engineering of Huaihe River and Taihu Lake	for approval	Govts. of 7 provs. along Huaihe River and Taihu Lake	14.7	Central and local govts.; Inter'l assistance	MFor	MFor
14	Shelter forest system engineering in the Zhujiang River Valley	to be worked out	Govts. of Yunnan, Guizhou, Guangxi and Guangdong	14	Central and local govts.; Inter'l assistance	MFor	MFor

No	Project title	Status	National Participating Organizations	Costs (hds.ml. yuan)	Sources of Funding	Implementing Agencies	Address of the Agencies in Charge
15	Engineering project of the 3 big irrigated areas in Sichuan	completed	MWC; Govt. of Sichuan prov.	12	Central and local govts	MWC	MWC
16	Reinforcement of Jingjiang Dam. Yangtze River	completed	MWC; Govt. of Hubei prov.	3.88	Central and local govts.	MWC and Hubei prov. govt	MWC
17	Disaster prevention and reduction engineering system in disaster prone pasture areas	underway	Inner Mongolia, Xinjiang, Qinghai, Sichuan, Gansu prov. govts.	2.0	Central and local govts.; Inter'l assistance	MA	MA
18	Seismic prevention and preparedness integrated system in the joint areas of Beijing, Shanxi, Hebei and Inner Mongolia		M.Elec Power; MR; MPT; MWC; MCoal; MCom; Beijing and Hebei govts.	0.8-1	Same with participating agencies	same with participating agencies	MCon, Baiwanzhuang Beijing Tel:8393376
19	Management of Risk Rock of Lianziya and Huanglashi Landslide in "the 3-gorge" area of Yangtze River.	1993-1997	MGMR	0.9	Central govt.	MGMR	SPC, No 38 Yuetan Nan Str. Beijing Tel 8501805
20	Landslide control in Yuanyang county of Yunnan prov.	1992-1995	Govt. of Yunnan prov.	0.57	Central and local govts	Yunnan Provincial govt.	SPC
21	Ocean-data buoy network	part completed	SOA. local govts of the coastal area	2	Central govt.	SOA	SOA, No.1 Fuxingmenwai Str. Beijing, Tel:8032211-389

d) Public Education and Information

No	Project Title	Status	National Implementing Organizations	Costs(lds. ml.yuan)	Sources of funding	Implementing agencies	Address of the Agencies in Charge
1	Scientific and technical training center on coastal shelter belt disaster reduction	to be implemented	Govt. of Guangdong prov.	0.08	Central and local govts. Inter'l assistance	MFor	MFor, Hepingli Beijing Tel:4213786
2	South China Centre for forest fire prevention	to be implemented	Govt. of Yunnan prov.	0.08	Central and local govts, Inter'l funds	MFor	MFor
3	South China Experimental center for forest plant quarantine	to be implemented	Govt of Guangdong prov.	0.06	Central and local govts, Inter'l funds	MFor	MFor

SECTION C: INTERACTIONS

(International Involvement in the IDNDR)

1. Publications on IDNDR-related subjects

1.1 Books

(1) Sun Guangzhong, Wang Angsheng, Zhang Peiyuan, "Natural Hazards in China" (English and Chinese versions), 280 pp, China Academic Publication Press, Beijing, 1990.

(2) Academic Dept. of China Association of Science and Technology, "Study of Natural Disaster Reduction in China", 664 pp, China Science and Technology Press, Beijing, 1991.

(3) China National Committee for the IDNDR and Ministry of Civil Affairs, "Combat Floods in China", 224 pp, China Society Press, Beijing, 1991.

(4) Editorial Committee of China Seismic Resistance and Disaster Prevention, "China's Seismic Resistance and Disaster Prevention", 248 pp, Jilin Arts Press, Changchun, 1991.

(5) China Disaster Prevention Association, "On Disaster Reduction and Development in the Coastal Areas", 242 pp, Seismological Press, Beijing, 1991.

(6) Nanjing Univ., "Collection on Causes of and Response-measures against Natural

Disasters", 558 pp, Editorial Dept. of Journal of Nanjing University, Nanjing, 1991.

(7) Geological Dept. of Chinese Academy of Sciences, "Disaster Effect Analysis and Response-measures in Disaster Reduction", 468 pp, Hubei Science and Technology Press, Wuhan, 1992.

(8) Academic Dept. of China Association of Science and Technology, "Study of Natural Disaster Reduction in China", 455 pp, China Meteorological Press, Beijing, 1992.

(9) The People's Insurance Company of China, Beijing Normal University, "Atlas of Natural Hazards in China" (Chinese and English version), 189 pp, Science Press, Beijing, 1992.

(10) Shi Yafeng, " Geographic Hazards and their Reduction (English version)", 216 pp, Science Press, Beijing, New York, 1992.

(11) Seismic Resistance Office of China Petroleum and Chemistry Corporation, Head Office, "Seismic Resistance of Industrial Facilities", 268 pp, Seismological Press, Beijing, 1992.

(12) J. Lisher, Zheng Zheming, "Tropical Cyclone" (English version), 588 pp, Beijing University Press, Beijing, 1993.

(13) Comprehensive Natural Hazard Study Group under the State Science and Technology Commission, "Major Natural Hazards in China and their Mitigation", 658 pp, Science Press, Beijing, 1993.

(14) Wang Jinfeng, "The Evaluation Method Study of Natural Disaster Effects in China", 213 pp, China Science and Technology Press, Beijing, 1993.

1.2 Magazines

(1) China National Committee for the IDNDR, "Natural Disaster Reduction in China" (Chinese), quarterly publication, China Society Press, Beijing, founded in 1990.

(2) China National Committee for the IDNDR, "Natural Disaster Reduction in China" (English), quarterly publication, China Society Press, Beijing, founded in 1991.

(3) China Disaster Prevention Association, "Journal of Natural Disaster Reduction in China" (Chinese), weekly newspaper, Beijing.

(4) Sha'anxi Provincial Seismological Bureau, Sha'anxi Disaster Prevention Association, "Chinese Natural Hazards Study", quarterly magazine, Xi'an.

(5) Engineering Mechanism Research Institute of State Seismological Bureau, "Journal of Natural Hazards", quarterly publication, Harbin.

(6) China Geological Disaster Society, "Geological Disasters and Their Prevention and

Control" (Chinese), quarterly, Beijing.

2. IDNDR meetings and conferences held or planned to be held in China

(1) "International Academic Workshop on Geological Disasters and their Mitigation," Aug. 21-26, 1990, Nanjing, China.

(2) "International Academic Seminar on Natural Disaster Reduction", May 8-11, 1991, Kunming, China.

(3) "1991 International Exhibition on Technology and Equipments of Disaster Prevention and Relief", Tianjin, China.

(4) "International Seminar on Application of Space Technology in Disaster Reduction", Sept. 23- 27, 1991, Beijing, China.

(5) "The 14th Conference of Eastern Region Public Administration Organization", Oct. 14-19, 1991, Beijing, China

(6) "Sino-Soviet-Japan Workshop on Natural Disasters", Sept. 2-16, 1991, Soviet Union and China.

(7) "International Academic Workshop on Mud-rock Flow and Flood Prevention", Oct. 14-19, 1991, Beijing, China.

(8) "China International Seminar on Geological Disaster Prevention and Control", Oct. 20-25, 1991, Beijing, China

(9) "The Second International Conference on Special Experimental Technic of Typhoon", Nov. 25-29, 1991, Guangzhou, China.

(10) "International Workshop on Heavy Rain, Flood and Waterlogging", Oct. 5-9, 1992, Anhui, China.

(11) "The Second International Conference on Mainland Seismology", Oct. 7-10, 1992, Beijing, China

(12) "International Tropical Cyclone Meeting", Oct. 12-16, 1992, Beijing.

(13) "International Workshop on Erosion, Mud-rock Flow and Environment of Hilly Area", July 5-9, 1992, Chengdu, China.

(14) "Seminar on Science and Technology of Fires in the Asia-Pacific Region", Oct. 9-12, 1992, Beijing, China.

(15) "International Workshop on Climate Change, Natural Disasters and Agricultural Countermeasures", May 26-29, Beijing, China.

(16) "China International Conference on Natural Disaster Management" sponsored jointly by CNCIDNDR and UNDP, June 25, 1993, Beijing, China.

(17) "China Senior Workshop on Disaster Management" organized jointly by CNCIDNDR, Ministry of Civil Affairs and UNDP, June 28-July 2, 1993, Beijing, China.

(18) "The 18th Asia-Pacific Plant Protection Meeting" Aug. 27-28, 1993, Beijing, China.

(19) "The 5th International Workshop on Natural and Man-made Disasters", Aug. 29-Sept. 3, Qingdao, China.

(20) "International Seminar on Sea Ice Disaster", Oct. 19-22, 1993, Beijing, China.

(21) "The 3rd International Meeting on Special Experimental Technic of Typhoon", Oct. 25-29, Shanghai, China.

3. Current or planned partnership and cooperation activities related to IDNDR with other countries.

(1) CNCIDNDR is now, in cooperation with UN disaster management group, formulating China's national Framework for Disaster Reduction.

(2) CNCIDNDR is participating in the disaster training programme (1993-1995) organized by Asia Disaster Preparedness Center.

(3) The Datong-Yanggao Earthquake Rehabilitation and Restriction Project funded by the World Bank loans.

(4) The Taihu Lake Control Engineering assisted by the Asian Bank.

(5) Sino-Swiss Engineering Project of Mianyuan River in Deyang, Sichuan Prov.

(6) The Forest Fire Monitoring and Forecasting System funded by the World Bank loans.

(7) The construction of Yellow River Xiaolangdi Water Engineering Project with funds from the Chinese government and loans from the World Bank loans.

(8) The National Desert Control Engineering with funds from the Central and local governments as well as loans from the World Bank.

(9) IPM project on rice, cotton, vegetables funded by the World Bank loans.

(10) The Cooperative project between China and NACA on aquatic raising and environment.

SECTION D: EVALUATION

1. China's achievements since launching of IDNDR

— Having made preparations, investigation and study for the formulation of national programme on disaster reduction, to be finalized in 1994;

— Having conducted initial analysis and assessment of risks of various natural disasters, with the results being used as reference in the nation's socio-economic development programming;

— Having established a monitoring and forecasting system for various natural disasters, which is being improved progressively;

— Having carried out a series of disaster prevention engineering projects, such as engineering of water conservancy capital construction, seismic resistance and prevention engineering projects, afforestation engineering, etc;

— Having done substantive work in coordinating and organizing disaster resistance and relief operations to minimize losses in life and property and ensure the livelihood of the disaster-stricken people;

— Having launched publicity on disaster reduction, aimed at improving the disaster reduction awareness and knowledge of the general public. Coordinating and organizing the disaster reduction undertakings and carrying out strategic measures by relying on science and technology.

In recent years, the objectives set by CNCIDNDR have been partly fulfilled. However, difficulties still remain due to lack of integrated disaster management and shortage of funds. These have retarded the progress of the formulation of comprehensive disaster reduction plans, the enhancement of comprehensive management, disaster assessment and disaster reduction engineering undertakings. With the nation's efforts and cooperation with international community, China's disaster reduction will be further developed from 1995 to 2000.

2. Review of the IDNDR

— IDNDR is a concerted action of mankind for the first time in face of the challenges of natural disasters. Progress of IDNDR has been made in publicity, education and planning of disaster reduction, in promoting relevant undertakings of every country and international cooperation and exchanges. Disaster Reduction has "stricken root in the hearts of the people"

and enhanced the attention of quite a number of nations.

— The IDNDR has clearly set 3 targets, but the concrete organization and implementation are lacking in momentum. This is because to a great extent some countries and international organizations have not attached enough importance to the activities, and the funds and technologies required for meeting the targets are not yet available.

SUGGESTIONS:

— It is the common duty of all countries to reduce natural disasters, and UN, all international agencies/organizations should give support to the developing countries in funds and technical equipment necessary for major disaster reduction projects.

— It is hoped that IDNDR should promote the exchanges and sharing of management expertise, science and technology, and information among all countries. It is indeed necessary to set up an Asia-Pacific Disaster Reduction Information Center.

— It is necessary to conduct more international training programmes for further improving the disaster reduction awareness and capability of the leading personnel and technicians engaged in disaster reduction. In this context, we welcome setting up an International Disaster Reduction Training Center in China.