添付資料 4-5 雨量計データブックサンプルファイル

Data Book of Rain Gauge Stations Matale District

January 2013

JICA Consulting Team on DiMCEP

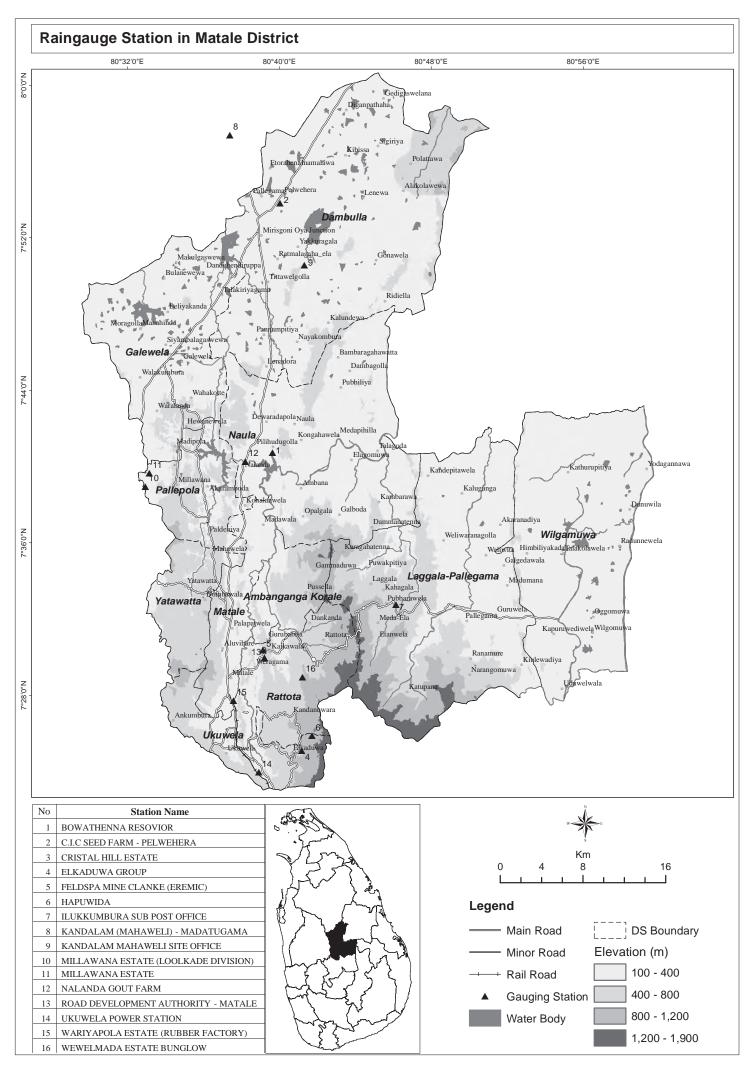
"Data Book of Rain Gauge Stations"

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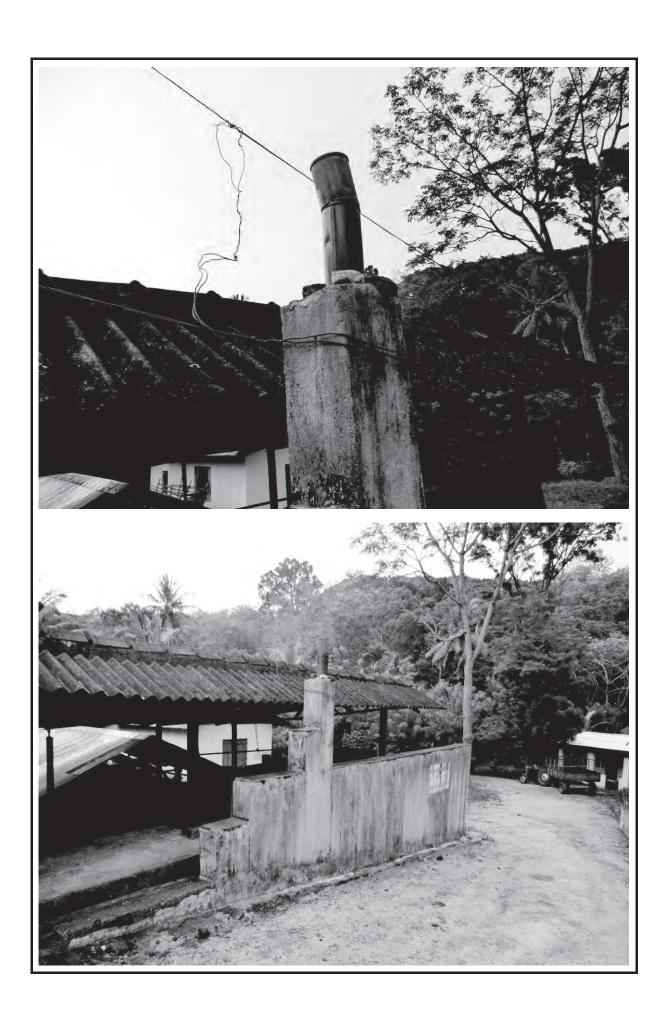
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1. Location Map



Name: MS. N.N.KUMUDINI Date: 23/04/2012

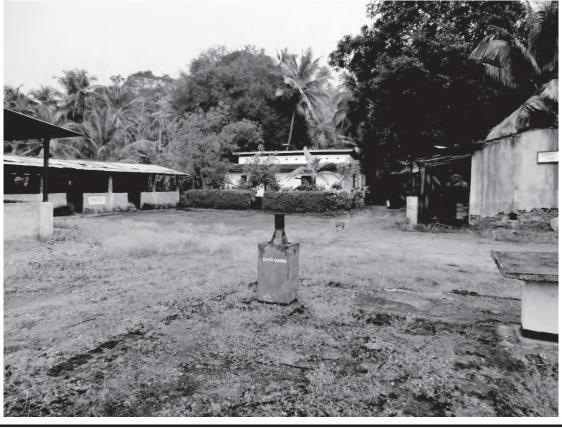
MILLAWANA E	STATE			
District: MATALE		Divisio	Division: PELLEPOLA	
GN: MILLAWANA PAHALAGAMA		Address: MALSIRIPURA		
Coordinates	N: 07 ^O 39' 39.6"	•	E: 80 [°] 33' 18.0"	
Elevation	220M			
Organization: E	ELKADUWA PL	Name:	STATE RESOUSE AND	
		ENTER	RPRISE DEVELOPMENT	
Gauge Reader	: CLERK / OFFICE ST	ΓAFF		
Tel: 066 36824	61	Fax:		
0773530902 M	IANAGER			
Daily				
Monthly				
Report on: Pap	er			
Report to: DON	Л			
Name:		Tel:		
Manual				
LOCATION SH	IOULD BE CHANGED). NEW R	G PROVIDED	
)				
	Roof		3m 8n	
			10m 1r	ee
Cement wall			Rain Ga	ıug
	Steps	→	3m high	
	Road			
Office building	ng			
	District: MATAL GN: MILLAWA Coordinates Elevation Organization: E Gauge Reader Tel: 066 36824 0773530902 M Daily Monthly Report on: Pap Report to: DOM Name: Manual LOCATION SH	GN: MILLAWANA PAHALAGAMA Coordinates N: 07° 39' 39.6" Elevation 220M Organization: ELKADUWA PL Gauge Reader: CLERK / OFFICE STEL: 066 3682461 0773530902 MANAGER Daily Monthly Report on: Paper Report to: DOM Name: Manual LOCATION SHOULD BE CHANGED Roof Cement wall Steps	District: MATALE GN: MILLAWANA PAHALAGAMA Coordinates N: 07° 39' 39.6" Elevation 220M Organization: ELKADUWA PL Name: ENTER Gauge Reader: CLERK / OFFICE STAFF Tel: 066 3682461	District: MATALE GN: MILLAWANA PAHALAGAMA Coordinates N: 07° 39' 39.6" Elevation 220M Organization: ELKADUWA PL Gauge Reader: CLERK / OFFICE STAFF Tel: 066 3682461 Daily Monthly Report on: Paper Report to: DOM Name: Tel: Manual Roof Roof Roof Road Bivision: PELLEPOLA Address: MALSIRIPURA Address: MALSIRIPURA E: 80° 33' 18.0" E: 80° 33' 18.



Name: MR. M.T RATHNAYAKA Date:

Station Name	MILLAWANA ESTATE (LOOLKADE DIVISION)			
Location	District: MATALE		Division: PALLEPOLA	
	GN: MILLAWANA,PAHALAGAWA		Address: MELSIRIPURA	
	Coordinates	N: 07 ^o 38' 58.2"	E: 80 ^o 33' 05.6"	
	Elevation	210M	·	
Owner	Organization: E	LKADUWA PL	Name:	
	Gauge Reader	: FIELD OFFICER (M.	T.RATHNAYAKA)	
Tel. and Fax	Tel: 066 36824	61	Fax:	
Mobile Number	0773530902			
Start Year/Month				
Monitoring	Daily			
Reporting	Monthly			
	Report on: Pap	er		
	Report to: DON	Л		
	Name:		Tel:	
Rainfall Gauge	Manual			
Remarks	SATISFACTOR	RY CONDOTION		
Plan View & Photo				
		Building 10m		
Building	■ 12m	in Gauge 8n		





Name: MR. W.G.NEERANGA Date: 24/04/2012

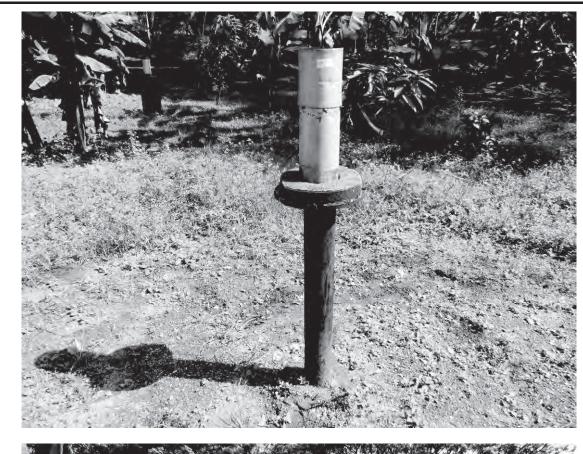
Station Name	NALANDA GOUT FARM				
Location	District: MATALE		Division: NAULA		
	GN: ALUGOLLA		Address: NALANDA		
	Coordinates	N: 07 ⁰ 40' 17.9"	E: 80° 38' 20.9"		
	Elevation	270M	-		
Owner	Organization:		Name:		
	Gauge Reader:	WATCHER (MR. G.R	R.SIRIWARDANA)		
Tel. and Fax	Tel: 066 224662	22	Fax:		
Mobile Number	nalandadtcf@g	mail.com			
Start Year/Month					
Monitoring	Daily				
Reporting	Monthly				
	Report on: Pap	er			
	Report to: DOM	1			
	Name:		Tel:		
Rainfall Gauge	Manual				
Remarks	SURROUNDING TO BE CLEARED				
Plan View & Photo		Banana cultivation			
Open	Pa	High land	Open 100m Rain Gauge		





Name: MR. NISSANKA WEERAKAM Date:

Station Name	BOWATHENNA RESOVIOR				
Location	District: MATALE		Division: NAULA		
	GN: PILIHUDUGALA		Address: NAULA		
	Coordinates	N: 07 ^o 04' 45.2"	E: 80 ^o 39' 45.8"		
	Elevation	270M			
Owner	Organization: N	MAHAWELI	Name:		
	Gauge Reader:	TECHNICAL OFFICE	R		
Tel. and Fax	Tel: 066 224628	81	Fax: 066 2246283		
Mobile Number	066 3683140				
Start Year/Month					
Monitoring	Daily				
Reporting	Daily				
	Report on: Pap	er			
	Report to: DOM	1 & SYSTEM CONTRA	ALL CENTER (CEB-DEMATAGODA)		
	Name:		Tel:		
Rainfall Gauge	Manual				
Remarks	SATISFACTOR	RY CONDOTION			
Plan View & Photo					
	Mango Tree ह	3m high Ja	ack Tree 3m high		
		$3m$ $\int 5m$			
Banana Tre			3m		
	₹₩Z 4m				
		Rain	Gauge Banana		
	Oper	,	Open		
Tree					
1166 \$\hlim_{\text{3}}					
	8m	1			





Name: MR. NIMAL Date:

Station Name	KANDALAM MAHAWELI SITE OFFICE			
Location	District: MATALE		Division: DAMBULLA	
	GN: WILHATHA		Address: KANDALAMA	
	Coordinates	N: 07 ⁰ 50' 35.7"	E: 80 ^o 41' 27.3"	
	Elevation	220M	'	
Owner	Organization: N	MAHAWELI	Name:	
	Gauge Reader:	WATCHER		
Tel. and Fax	Tel: 066 36650	18	Fax:	
Mobile Number				
Start Year/Month	1952			
Monitoring	Daily			
Reporting	Daily			
	Report on: Pap	er		
	Report to: DOM	1		
	Name:		Tel:	
Rainfall Gauge	Manual			
Remarks	SATISFACTOR	Y CONDOTION		
Plan View & Photo				
			,	
	_	Lake		
			Rain Gauge	
		•		
Building	50m		75m	
			Z _W z	
			Road Bo Tree	
 				
		, v	/	
		•		





Name: MR. P.A.N.S.PATHIRANA Date: 24/04/2012

Station Name	C.I.C SEED FARM - PELWEHERA				
Location	District: MATALE		Division: D/	AWOULLA	
	GN:		Address:		
	Coordinates	N: 07 ^o 53' 51.3"	E: 8	80 ⁰ 40' 10.4"	
	Elevation	165M	•		
Owner	Organization: C	CIC	Name:		
	Gauge Reader	: MANAGER – LABOR	ROTARY SER	VISES	
Tel. and Fax	Tel: 066 22852	68	Fax: 066 22	285268	
Mobile Number	0773585194				
Start Year/Month	1929				
Monitoring	Daily				
Reporting	Daily				
	Report on: Pap	er			
	Report to: DON	1			
	Name:		Tel:		
Rainfall Gauge	Manual				
Remarks	SATISFACTOR	Y CONDOTION			
Plan View & Photo)				
Open	ह्रू Rain Gauge	3m 3m 5m 5m	5m Mar	ngo Tree	Building
				Building	





Name: MR. H.M.R.PREMASIRI Date: 24/04/2012

Station Name	UKUWELA POWER STATION			
Location	District: MATALE		Division: UKUWELA	
	GN: RANITHALAWA		Address: UKUWELA	
	Coordinates	N: 07 ^O 23' 59.4"	E: 80° 39' 03.2"	
	Elevation	355M		
Owner	Organization: 0	CEB	Name:	
	Gauge Reader	: CONTRALL ROOM (OPREATORS	
Tel. and Fax	Tel: 066224422	29	Fax: 0662244351	
Mobile Number	0664928748			
Start Year/Month				
Monitoring	Daily			
Reporting	Daily			
	Report on: Pap	er		
	Report to: DON	M & SYSTEM CONTRA	ALL CENTER (CEB-DEMATAGODA)	
	Name:		Tel:	
Rainfall Gauge	Manual			
Remarks	SATISFACTOR	RY CONDOTION		
Plan View & Photo	3m 0	Rain Gauge	Power house	
		6m Tre	ee Building	



Name: MR.RADLY DISSAGE Date: 24/04/2012

Station Name	ELKADUWA GROUP			
Location	District: MATALE		Division: UKUWELA	
	GN: ELKADUWA ESTATE		Address: ELKADUWA	
	Coordinates	N: 07 ^O 25' 07.7"	E: 80 ^o 41' 18.4"	
	Elevation	830M	•	
Owner	Organization: E	ELKADUWA PL	Name:	
	Gauge Reader	: C.C (OFFICE)		
Tel. and Fax	Tel: 066368245	59	Fax:	
Mobile Number	0718043341			
Start Year/Month				
Monitoring	Daily			
Reporting	Monthly			
	Report on: Pap	er		
	Report to: DON	Л		
	Name:		Tel:	
Rainfall Gauge	Manual			
Remarks	SATISFACTOR	RY CONDOTION		
Plan View & Photo				
		Slope		
_				
			Em?	
_			8m	
	Rain Gauge —			
Open				
		5m		
		D I		
		Banglow	4m	





Name: Date:

Station I	Name	HAPUWIDA			
Location	1	District: MATAL	E	Divisio	on: UKUWELA
		GN: ELKADUWA		Addre	ss: ELKADUWA
		Coordinates	N: 07 ^o 25' 53.8"		E: 80 [°] 41' 51.5"
		Elevation	1010M		
Owner		Organization: E	ELKADAWA	Name	:
		PLANTATION			
		Gauge Reader:	FIELD OFFICER		
Tel. and	Fax	Tel: 066/36824	59	Fax:	
Mobile N	Number	0718043341			
Start Yea	ar/Month				
Monitori	ing	Daily			
Reportir	ng	Monthly			
		Report on: Pap	er		
		Report to: DOM	1		
		Name:		Tel:	
Rainfall	Gauge	Manual			
Remark	S	SATISFACTOR	Y CONDOTION		
Plan Vie	ew & Photo)			
			Fence		
			Tellee		
-			Rain Gauge		Open
Open	ı				Open
		↑ ↑			
		15m 10m			
		3m			
	25m				
- 1					





Name: K.M.PUSPA KUMAR Date: 25/04/2012

Station Name	ILUKKUMBURA SUB POST OFFICE				
Location	District: MATALE		Division: LAGGALA PALLEGAMA		
	GN: ILLUKKUMBURA		Address: ILLUKKUMBURA		
	Coordinates	N: 07 ^o 32' 47.7"	E: 80 [°] 46' 16.0"		
	Elevation	525M			
Owner	Organization: D	EPT. OF POSTAL	Name: GOVERNMENT		
	Gauge Readers	SUB POST MASTER			
Tel. and Fax	Tel: 066 36694	10	Fax:		
Mobile Number					
Start Year/Month	2003				
Monitoring	Daily				
Reporting	Monthly				
	Report on: Pap	er			
	Report to: DOM	1			
	Name:		Tel:		
Rainfall Gauge	Manual				
Remarks	LOCATION IS	VERY DEEP			
Road Road Tree 10m	Steps Steps Tree 10m	8m Rai	Building house Post office Slope		





Name: MR. R.SHIWACHANAPRAGRASM Date: 25/04/2012

Station Name	WEWELMADA ESTATE BUNGLOW				
Location	District: MATALE		Division: RATTOTA		
	GN: UDAGAMA		Address: NO.O1,		
			WELANGAHAWATTA, RATTOTA		
	Coordinates	N: 07 ^O 28' 58.9"	E: 80 [°] 41' 21.4"		
	Elevation	775M (2750)			
Owner	Organization: F	PRIVATE	Name:		
	Gauge Reader	MANAGER			
Tel. and Fax	Tel: 066 36612	42	Fax:		
Mobile Number	0776204566				
Start Year/Month					
Monitoring	Daily				
Reporting	Monthly				
	Report on: Pap	er			
	Report to: DOM	1			
	Name:		Tel:		
Rainfall Gauge	Manual				
Remarks	SATISFACTOR	Y CONDOTION			
Plan View & Photo)		Tree 8m		
		6m	Coconut Tree		
Open	Rain Gaug		8m		



Name: MR. L.P.GUNATHILAKA Date: 25/04/2012

Station Name	FELDSPA MINE CLANKE (EREMIC)				
Location	District: MATALE		Division: RATTHOTA		
	GN: OVALA		Address:		
	Coordinates	N: 07 ^o 30' 22.9"	E: 80 ^o 39' 17.0"		
	Elevation	470M			
Owner	Organization:		Name:		
	Gauge Reader: TECHNICAL STAFF MEMBER				
Tel. and Fax	Tel: 066 4460938		Fax: 66 4460938		
Mobile Number	0777567153				
Start Year/Month	1978				
Monitoring	Daily				
Reporting	Monthly				
	Report on: Paper				
	Report to: DOM				
	Name:		Tel:		
Rainfall Gauge	Manual				
Remarks	SATISFACTORY CONDOTION				
Plan View & Photo					
	Feldspar mine				
O 100m depth					
Sing.					
50m					
50m Office					
The same of the sa					
Rain Gauge					
The state of the s					





Name: MR. K.CHANDRAKUMAR Date: 25/04/2012

Station Name	CRISTAL HILL ESTATE				
Location	District: MATALE GN: OVALA		Division: RATTHOTA		
			Address: MATALE		
	Coordinates	N: 07 ^O 29' 58.3"	E: 80 ^o 39' 21.2"		
	Elevation	420M	1		
Owner	Organization: PRIVATE Na		Name:		
	Gauge Reader: WATCHER				
Tel. and Fax	Tel: 066 2220705		Fax:		
Mobile Number	'				
Start Year/Month					
Monitoring	Daily				
Reporting	Monthly				
	Report on: Paper				
	Report to: DOM				
	Name:		Tel:		
Rainfall Gauge	Manual				
Remarks	SATISFACTORY CONDOTION				
Plan View & Photo Road Road Road Road Road Tree					



Data Book of Rainfall Gauge Station

Name: MR. ANUSHKA THILAN Date:

Station Name	ROAD DEVELOPMENT AUTHORITY - MATALE					
Location	District: MATAI	LE	Division: MATHALE			
	GN: SINHALA	NAGARAYA	Address: MATHALE			
	Coordinates	N: 07 ^O 29' 58.3"	E: 80 ^o 39' 21.2"			
	Elevation	385M				
Owner	Organization:		Name:			
	Gauge Reader: PION (OFFICE ASSIS		STANT)			
Tel. and Fax	Tel: 066 22225	557	Fax: 066 2222557			
Mobile Number		'				
Start Year/Month						
Monitoring	Daily	Daily				
Reporting	Monthly					
	Report on: Par	Report on: Paper				
	Report to: DOI	Report to: DOM				
	Name:		Tel:			
Rainfall Gauge	Manual					
Remarks	LOCATION CANNOT BE RECOMENDED					
Plan View & Photo	Of Building	fice Building 3m 3m 3m	Building 30m			
Tree Bounday wall Rain Gauge						



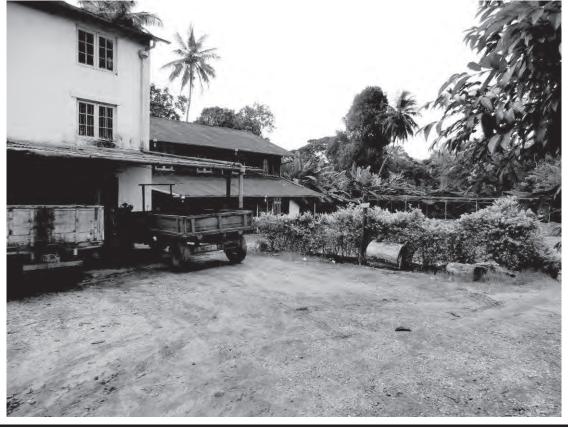


Data Book of Rainfall Gauge Station

Name: MR. FAWSECK Date: 25/04/2012

Station Name	WARIYAPOLA	ESTATE (RUBBER F.	ACTORY)	
Location	District: MATALE		Division: MATALE		
	GN: WARIYAPOL		Address: MATALE		
	Coordinates	N: 07 ^o 27' 45.4"		E: 80 ^o 37' 43.6"	
	Elevation	358M			
Owner	Organization: V	VARIYAPOLA	Name:	PRIVATE (LTD)	
	GROUPS				
	Gauge Reader				
Tel. and Fax	Tel: 066 2222581		Fax:		
Mobile Number					
Start Year/Month					
Monitoring	Daily				
Reporting	Monthly				
	Report on: Pap	er			
	Report to: DON	Л			
	Name:		Tel:		
Rainfall Gauge	Manual				
Remarks	SATISFACTORY CONDOTION				
Plan View & Photo	1				
			Factor	y Building	
Roa	.d				
		Rain Gauge			
		\		Building	
			6m	6m	
/			JIII		
	I	Open			

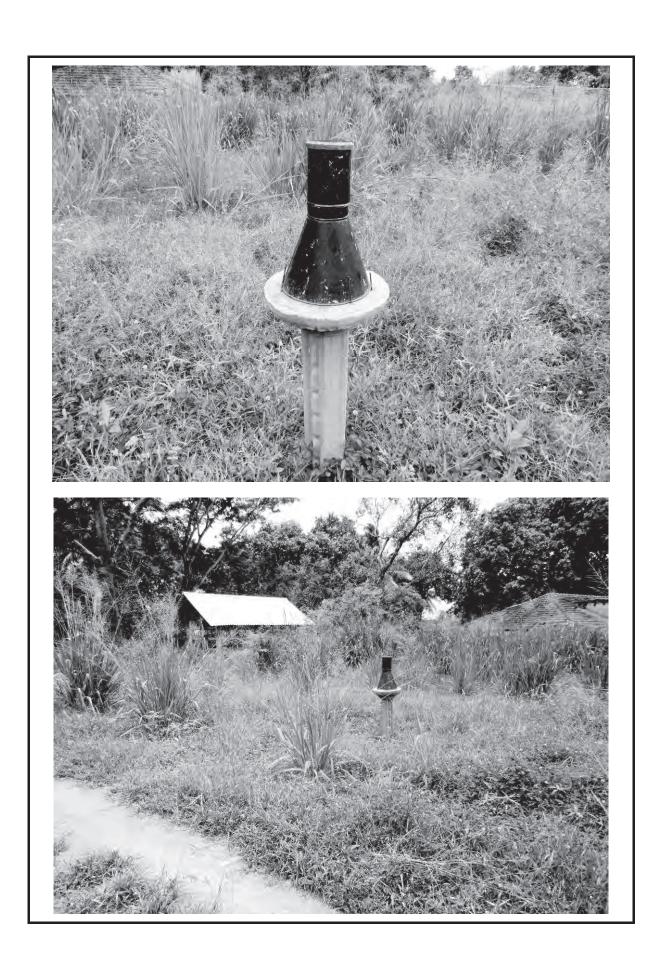




Data Book of Rainfall Gauge Station

Name: MR. M.SAMATHIKA FERNANDO Date: 24/04/2012

Station Name	KANDALAM (N	MAHAWELI) - MADATI	UGAMA	
Location	District: ANURADHAPURA		Division: KAKIRAWA	
	GN: MADATU	GAMA 650	Address: MADATUGAMA	
	Coordinates	N: 07 ^o 57' 24.3"	E: 80 ^o 37' 31.8"	
	Elevation	202M		
Owner	Organization: MAHAWELI		Name:	
	Gauge Reader: T/O			
Tel. and Fax	Tel: 025 2264345		Fax:	
Mobile Number				
Start Year/Month				
Monitoring	Daily			
Reporting	Monthly			
	Report on: Pap	er		
	Report to: DOM			
	Name:		Tel:	
Rainfall Gauge	Manual			
Remarks	SURROUNDIN	IG TO BE CLEANED		
Plan View & Photo)			
	80m	60m	Open Gauge	
		Road		



添付資料 5-1 兵庫行動枠組



International Strategy for Disaster Reduction

Hyogo Framework for Action 2005-2015:

Building the Resilience of Nations and Communities to Disasters

Extract from the final report of the World Conference on Disaster Reduction (A/CONF.206/6)



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I. Preamble

1. The World Conference on Disaster Reduction was held from 18 to 22 January 2005 in Kobe, Hyogo, Japan, and adopted the present Framework for Action 2005-2015: Building the Resilience of Nations and Communities to Disasters (here after referred to as the "Framework for Action"). The Conference provided a unique opportunity to promote a strategic and systematic approach to reducing vulnerabilities¹ and risks to hazards.² It underscored the need for, and identified ways of, building the resilience of nations and communities to disasters.³

A. Challenges posed by disasters

- 2. Disaster loss is on the rise with grave consequences for the survival, dignity and livelihood of individuals, particularly the poor, and hard-won development gains. Disaster risk is increasingly of global concern and its impact and actions in one region can have an impact on risks in another, and vice versa. This, compounded by increasing vulnerabilities related to changing demographic, technological and socio-economic conditions, unplanned urbanization, development within high-risk zones, under-development, environmental degradation, climate variability, climate change, geological hazards, competition for scarce resources, and the impact of epidemics such as HIV/AIDS, points to a future where disasters could increasingly threaten the world's economy, and its population and the sustainable development of developing countries. In the past two decades, on average more than 200 million people have been affected every year by disasters.
- 3. Disaster risk arises when hazards interact with physical, social, economic and environmental vulnerabilities. Events of hydrometeorological origin constitute the large majority of disasters. Despite the growing understanding and acceptance of the importance of disaster risk reduction and increased disaster response capacities, disasters and in particular the management and reduction of risk continue to pose a global challenge.
- 4. There is now international acknowledgement that efforts to reduce disaster risks must be systematically integrated into policies, plans and programmes for sustainable development and poverty reduction, and supported through bilateral, regional and international cooperation, including partnerships. Sustainable development, poverty reduction, good governance and disaster risk reduction are mutually supportive objectives, and in order to meet the challenges ahead, accelerated efforts must be made to build the necessary capacities at the community and national levels to manage and reduce risk. Such

Vulnerability is defined as: "The conditions determined by physical, social, economic, and environmental factors or processes, which increase the susceptibility of a community to the impact of hazards". UN/ISDR. Geneva 2004.

² Hazard is defined as: "A potentially damaging physical event, phenomenon or human activity that may cause the loss of life or injury, property damage, social and economic disruption or environmental degradation. Hazards can include latent conditions that may represent future threats and can have different origins: natural (geological, hydrometeorological and biological) or induced by human processes (environmental degradation and technological hazards)" UN/ISDR. Geneva 2004.

³ The scope of this Framework for Action encompasses disasters caused by hazards of natural origin and related environmental and technological hazards and risks. It thus reflects a holistic and multi-hazard approach to disaster risk management and the relationship, between them which can have a significant impact on social, economic, cultural and environmental systems, as stressed in the Yokohama Strategy (section I, part B, letter I, p. 8).

an approach is to be recognized as an important element for the achievement of internationally agreed development goals, including those contained in the Millennium Declaration.

5. The importance of promoting disaster risk reduction efforts on the international and regional levels as well as the national and local levels has been recognized in the past few years in a number of key multilateral frameworks and declarations.⁴

B. The Yokohama Strategy: lessons learned and gaps identified

- 6. The Yokohama Strategy for a Safer World: Guidelines for Natural Disaster Prevention, Preparedness and Mitigation and its Plan of Action ("Yokohama Strategy"), adopted in 1994, provides landmark guidance on reducing disaster risk and the impacts of disasters.
- 7. The review of progress made in implementing the Yokohama Strategy⁵ identifies major challenges for the coming years in ensuring more systematic action to address disaster risks in the context of sustainable development and in building resilience through enhanced national and local capabilities to manage and reduce risk.
- 8. The review stresses the importance of disaster risk reduction being underpinned by a more pro-active approach to informing, motivating and involving people in all aspects of disaster risk reduction in their own local communities. It also highlights the scarcity of resources allocated specifically from development budgets for the realization of risk reduction objectives, either at the national or the regional level or through international cooperation and financial mechanisms, while noting the significant potential to better exploit existing resources and established practices for more effective disaster risk reduction.
- 9. Specific gaps and challenges are identified in the following five main areas:
 - (a) Governance: organizational, legal and policy frameworks;
 - (b) Risk identification, assessment, monitoring and early warning;
 - (c) Knowledge management and education;
 - (d) Reducing underlying risk factors;
 - (e) Preparedness for effective response and recovery.

These are the key areas for developing a relevant framework for action for the decade 2005–2015.

⁴ Some of these frameworks and declarations are listed in the annex to this document.

⁵ Review of the Yokohama Strategy and Plan of Action for a Safer World (A/CONF.206/L.1).

II. World Conference on Disaster Reduction: Objectives, expected outcome and strategic goals

A. Objectives

- 10. The World Conference on Disaster Reduction was convened by decision of the General Assembly, with five specific objectives:⁶
- (a) To conclude and report on the review of the Yokohama Strategy and its Plan of Action, with a view to updating the guiding framework on disaster reduction for the twenty-first century;
- (b) To identify specific activities aimed at ensuring the implementation of relevant provisions of the Johannesburg Plan of Implementation of the World Summit on Sustainable Development on vulnerability, risk assessment and disaster management;
- (c) To share good practices and lessons learned to further disaster reduction within the context of attaining sustainable development, and to identify gaps and challenges;
- (d) To increase awareness of the importance of disaster reduction policies, thereby facilitating and promoting the implementation of those policies;
- (e) To increase the reliability and availability of appropriate disaster-related information to the public and disaster management agencies in all regions, as set out in relevant provisions of the Johannesburg Plan of Implementation.

B. Expected outcome

11. Taking these objectives into account, and drawing on the conclusions of the review of the Yokohama Strategy, States and other actors participating at the World Conference on Disaster Reduction (hereinafter referred to as "the Conference") resolve to pursue the following expected outcome for the next 10 years:

The substantial reduction of disaster losses, in lives and in the social, economic and environmental assets of communities and countries.

The realization of this outcome will require the full commitment and involvement of all actors concerned, including governments, regional and international organizations, civil society including volunteers, the private sector and the scientific community.

C. Strategic goals

- 12. To attain this expected outcome, the Conference resolves to adopt the following strategic goals:
- (a) The more effective integration of disaster risk considerations into sustainable development policies, planning and programming at all levels, with a special emphasis on disaster prevention, mitigation, preparedness and vulnerability reduction;

⁶ As per General Assembly resolution 58/214 of 23 December 2003.

- (b) The development and strengthening of institutions, mechanisms and capacities at all levels, in particular at the community level, that can systematically contribute to building resilience⁷ to hazards;
- (c) The systematic incorporation of risk reduction approaches into the design and implementation of emergency preparedness, response and recovery programmes in the reconstruction of affected communities.

III. Priorities for action 2005–2015

A. General considerations

- 13. In determining appropriate action to achieve the expected outcome and strategic goals, the Conference reaffirms that the following general considerations will be taken into account:
- (a) The Principles contained in the Yokohama Strategy retain their full relevance in the current context, which is characterized by increasing commitment to disaster reduction;
- (b) Taking into account the importance of international cooperation and partnerships, each State has the primary responsibility for its own sustainable development and for taking effective measures to reduce disaster risk, including for the protection of people on its territory, infrastructure and other national assets from the impact of disasters. At the same time, in the context of increasing global interdependence, concerted international cooperation and an enabling international environment are required to stimulate and contribute to developing the knowledge, capacities and motivation needed for disaster risk reduction at all levels;
- (c) An integrated, multi-hazard approach to disaster risk reduction should be factored into policies, planning and programming related to sustainable development, relief, rehabilitation, and recovery activities in post-disaster and post-conflict situations in disaster-prone countries;⁸
- (d) A gender perspective should be integrated into all disaster risk management policies, plans and decision-making processes, including those related to risk assessment, early warning, information management, and education and training;⁹
- (e) Cultural diversity, age, and vulnerable groups should be taken into account when planning for disaster risk reduction, as appropriate;

Resilience: "The capacity of a system, community or society potentially exposed to hazards to adapt, by resisting or changing in order to reach and maintain an acceptable level of functioning and structure This is determined by the degree to which the social system is capable of organising itself to increase this capacity for learning from past disasters for better future protection and to improve risk reduction measures." UN/ISDR. Geneva 2004.

⁸ The Johannesburg Plan of Implementation of the World Summit on Sustainable Development, Johannesburg, South Africa, 26 August-4 September 2002, paragraphs 37 and 65.

As reaffirmed at the twenty-third special session of the General Assembly on the topic "Women 2000: gender equality, development and peace for the twenty-first century".

- (f) Both communities and local authorities should be empowered to manage and reduce disaster risk by having access to the necessary information, resources and authority to implement actions for disaster risk reduction;
- (g) Disaster-prone developing countries, especially least developed countries and small island developing States, warrant particular attention in view of their higher vulnerability and risk levels, which often greatly exceed their capacity to respond to and recover from disasters;
- (h) There is a need to enhance international and regional cooperation and assistance in the field of disaster risk reduction through, *inter alia*:
 - The transfer of knowledge, technology and expertise to enhance capacity building for disaster risk reduction
 - The sharing of research findings, lessons learned and best practices
 - The compilation of information on disaster risk and impact for all scales of disasters in a way that can inform sustainable development and disaster risk reduction
 - Appropriate support in order to enhance governance for disaster risk reduction, for awareness-raising initiatives and for capacity-development measures at all levels, in order to improve the disaster resilience of developing countries
 - The full, speedy and effective implementation of the enhanced Heavily Indebted Poor Countries Initiative, taking into account the impact of disasters on the debt sustainability of countries eligible for this programme
 - Financial assistance to reduce existing risks and to avoid the generation of new risks
- (i) The promotion of a culture of prevention, including through the mobilization of adequate resources for disaster risk reduction, is an investment for the future with substantial returns. Risk assessment and early warning systems are essential investments that protect and save lives, property and livelihoods, contribute to the sustainability of development, and are far more cost-effective in strengthening coping mechanisms than is primary reliance on post-disaster response and recovery;
- (j) There is also a need for proactive measures, bearing in mind that the phases of relief, rehabilitation and reconstruction following a disaster are windows of opportunity for the rebuilding of livelihoods and for the planning and reconstruction of physical and socio-economic structures, in a way that will build community resilience and reduce vulnerability to future disaster risks;
- (k) Disaster risk reduction is a cross-cutting issue in the context of sustainable development and therefore an important element for the achievement of internationally agreed development goals, including those contained in the Millennium Declaration. In addition, every effort should be made to use humanitarian assistance in such a way that risks and future vulnerabilities will be lessened as much as possible.

B. Priorities for action

14. Drawing on the conclusions of the review of the Yokohama Strategy, and on the basis of deliberations at the World Conference on Disaster Reduction and especially the agreed expected outcome and strategic goals, the Conference has adopted the following five priorities for action:

- 1. Ensure that disaster risk reduction is a national and a local priority with a strong institutional basis for implementation.
- 2. Identify, assess and monitor disaster risks and enhance early warning.
- 3. Use knowledge, innovation and education to build a culture of safety and resilience at all levels.
- 4. Reduce the underlying risk factors.
- 5. Strengthen disaster preparedness for effective response at all levels.
- 15. In their approach to disaster risk reduction, States, regional and international organizations and other actors concerned should take into consideration the key activities listed under each of these five priorities and should implement them, as appropriate, to their own circumstances and capacities.

1. Ensure that disaster risk reduction is a national and a local priority with a strong institutional basis for implementation

16. Countries that develop policy, legislative and institutional frameworks for disaster risk reduction and that are able to develop and track progress through specific and measurable indicators have greater capacity to manage risks and to achieve widespread consensus for, engagement in and compliance with disaster risk reduction measures across all sectors of society.

Key activities:

(i) National institutional and legislative frameworks

- (a) Support the creation and strengthening of national integrated disaster risk reduction mechanisms, such as multi sectoral national platforms¹⁰, with designated responsibilities at the national through to the local levels to facilitate coordination across sectors. National platforms should also facilitate coordination across sectors, including by maintaining a broad based dialogue at national and regional levels for promoting awareness among the relevant sectors.
- (b) Integrate risk reduction, as appropriate, into development policies and planning at all levels of government, including in poverty reduction strategies and sectors and multi sector policies and plans.
- (c) Adopt, or modify where necessary, legislation to support disaster risk reduction, including regulations and mechanisms that encourage compliance and that promote incentives for undertaking risk reduction and mitigation activities.
- (d) Recognize the importance and specificity of local risk patterns and trends, decentralize responsibilities and resources for disaster risk reduction to relevant subnational or local authorities, as appropriate.

The establishment of national platforms for disaster reduction was requested in Economic and Social Council resolution 1999/63 and in General Assembly resolutions 56/195, 58/214, and 58/215. The expression "national platform" is a generic term used for national mechanisms for coordination and policy guidance on disaster risk reduction that need to be multi-sectoral and inter-disciplinary in nature, with public, private and civil society participation involving all concerned entities within a country (including United Nations agencies present at the national level, as appropriate). National platforms represent the national mechanism for the International Strategy for Disaster Reduction.

(ii) Resources

- (e) Assess existing human resource capacities for disaster risk reduction $\$ at all levels and develop capacity-building plans and programmes for meeting ongoing and future requirements.
- (f) Allocate resources for the development and the implementation of disaster risk management policies, programmes, laws and regulations on disaster risk reduction in all relevant sectors and authorities at all levels of administrative and budgets on the basis of clearly prioritized actions.
- (g) Governments should demonstrate the strong political determination required to promote and integrate disaster risk reduction into development programming.

(iii) Community participation

(h) Promote community participation in disaster risk reduction through the adoption of specific policies, the promotion of networking, the strategic management of volunteer resources, the attribution of roles and responsibilities, and the delegation and provision of the necessary authority and resources.

2. Identify, assess and monitor disaster risks and enhance early warning

17. The starting point for reducing disaster risk and for promoting a culture of disaster resilience lies in the knowledge of the hazards and the physical, social, economic and environmental vulnerabilities to disasters that most societies face, and of the ways in which hazards and vulnerabilities are changing in the short and long term, followed by action taken on the basis of that knowledge.

Key activities:

(i) National and local risk assessments

- (a) Develop, update periodically and widely disseminate risk maps and related information to decision-makers, the general public and communities at risk¹¹ in an appropriate format.
- (b) Develop systems of indicators of disaster risk and vulnerability at national and sub-national scales that will enable decision-makers to assess the impact of disasters ¹² on social, economic and environmental conditions and disseminate the results to decision-makers, the public and populations at risk.
- (c) Record, analyse, summarize and disseminate statistical information on disaster occurrence, impacts and losses, on a regular bases through international, regional, national and local mechanisms.

(ii) Early warning

(d) Develop early warning systems that are people centered, in particular systems whose warnings are timely and understandable to those at risk, which take into account the demographic, gender, cultural and livelihood characteristics of the target audiences, including guidance on how to act upon warnings, and that support effective operations by disaster managers and other decision makers.

¹¹ See footnotes 1, 2 and 3 for the scope of this Framework for Action.

¹² See footnotes 1, 2 and 3.

- (e) Establish, periodically review, and maintain information systems as part of early warning systems with a view to ensuring that rapid and coordinated action is taken in cases of alert/emergency.
- (f) Establish institutional capacities to ensure that early warning systems are well integrated into governmental policy and decision-making processes and emergency management systems at both the national and the local levels, and are subject to regular system testing and performance assessments.
- (g) Implement the outcome of the Second International Conference on Early Warning held in Bonn, Germany, in 2003¹³, including through the strengthening of coordination and cooperation among all relevant sectors and actors in the early warning chain in order to achieve fully effective early warning systems.
- (h) Implement the outcome of the Mauritius Strategy for the further implementation of the Barbados Programme of Action for the sustainable development of small island developing States, including by establishing and strengthening effective early warning systems as well as other mitigation and response measures.

(iii) Capacity

- (i) Support the development and sustainability of the infrastructure and scientific, technological, technical and institutional capacities needed to research, observe, analyse, map and where possible forecast natural and related hazards, vulnerabilities and disaster impacts.
- (j) Support the development and improvement of relevant databases and the promotion of full and open exchange and dissemination of data for assessment, monitoring and early warning purposes, as appropriate, at international, regional, national and local levels.
- (k) Support the improvement of scientific and technical methods and capacities for risk assessment, monitoring and early warning, through research, partnerships, training and technical capacity- building. Promote the application of *in situ* and space-based earth observations, space technologies, remote sensing, geographic information systems, hazard modelling and prediction, weather and climate modelling and forecasting, communication tools and studies of the costs and benefits of risk assessment and early warning.
- (l) Establish and strengthen the capacity to record, analyze, summarize, disseminate, and exchange statistical information and data on hazards mapping, disaster risks, impacts, and losses; support the development of common methodologies for risk assessment and monitoring.

(iv) Regional and emerging risks

- (m) Compile and standardize, as appropriate, statistical information and data on regional disaster risks, impacts and losses.
- (n) Cooperate regionally and internationally, as appropriate, to assess and monitor regional and trans-boundary hazards, and exchange information and provide early warnings through appropriate arrangements, such as, *inter alia*, those relating to the management of river basins.

¹³ As recommended in General Assembly resolution 58/214.

(o) Research, analyse and report on long-term changes and emerging issues that might increase vulnerabilities and risks or the capacity of authorities and communities to respond to disasters.

3. Use knowledge, innovation and education to build a culture of safety and resilience at all levels

18. Disasters can be substantially reduced if people are well informed and motivated towards a culture of disaster prevention and resilience, which in turn requires the collection, compilation and dissemination of relevant knowledge and information on hazards, vulnerabilities and capacities.

Key activities:

(i) Information management and exchange

- (a) Provide easily understandable information on disaster risks and protection options, especially to citizens in high-risk areas, to encourage and enable people to take action to reduce risks and build resilience. The information should incorporate relevant traditional and indigenous knowledge and culture heritage and be tailored to different target audiences, taking into account cultural and social factors.
- (b) Strengthen networks among disaster experts, managers and planners across sectors and between regions, and create or strengthen procedures for using available expertise when agencies and other important actors develop local risk reduction plans.
- (c) Promote and improve dialogue and cooperation among scientific communities and practitioners working on disaster risk reduction, and encourage partnerships among stakeholders, including those working on the socioeconomic dimensions of disaster risk reduction.
- (d) Promote the use, application and affordability of recent information, communication and space-based technologies and related services, as well as earth observations, to support disaster risk reduction, particularly for training and for the sharing and dissemination of information among different categories of users.
- (e) In the medium term, develop local, national, regional and international user-friendly directories, inventories and national information-sharing systems and services for the exchange of information on good practices, cost-effective and easy-to-use disaster risk reduction technologies, and lessons learned on policies, plans and measures for disaster risk reduction.
- (f) Institutions dealing with urban development should provide information to the public on disaster reduction options prior to constructions, land purchase or land sale.
- (g) Update and widely disseminate international standard terminology related to disaster risk reduction, at least in all official United Nations languages, for use in programme and institutional development, operations, research, training curricula and public information programmes.

(ii) Education and training

(h) Promote the inclusion of disaster risk reduction knowledge in relevant sections of school curricula at all levels and the use of other formal and informal channels to reach youth and children with information; promote the integration of disaster risk reduction as an intrinsic element of the United Nations Decade of Education for Sustainable Development (2005–2015).

- (i) Promote the implementation of local risk assessment and disaster preparedness programmes in schools and institutions of higher education.
- (j) Promote the implementation of programmes and activities in schools for learning how to minimize the effects of hazards.
- (k) Develop training and learning programmes in disaster risk reduction targeted at specific sectors (development planners, emergency managers, local government officials, etc.).
- (l) Promote community-based training initiatives, considering the role of volunteers, as appropriate, to enhance local capacities to mitigate and cope with disasters.
- (m) Ensure equal access to appropriate training and educational opportunities for women and vulnerable constituencies; promote gender and cultural sensitivity training as integral components of education and training for disaster risk reduction.

(iii) Research

- (n) Develop improved methods for predictive multi-risk assessments and socioeconomic cost-benefit analysis of risk reduction actions at all levels; incorporate these methods into decision-making processes at regional, national and local levels.
- (o) Strengthen the technical and scientific capacity to develop and apply methodologies, studies and models to assess vulnerabilities to and the impact of geological, weather, water and climate-related hazards, including the improvement of regional monitoring capacities and assessments.

(iv) Public awareness

(p) Promote the engagement of the media in order to stimulate a culture of disaster resilience and strong community involvement in sustained public education campaigns and public consultations at all levels of society.

4. Reduce the underlying risk factors

19. Disaster risks related to changing social, economic, environmental conditions and land use, and the impact of hazards associated with geological events, weather, water, climate variability and climate change, are addressed in sector development planning and programmes as well as in post-disaster situations.

Key activities:

(i) Environmental and natural resource management

- (a) Encourage the sustainable use and management of ecosystems, including through better land-use planning and development activities to reduce risk and vulnerabilities.
- (b) Implement integrated environmental and natural resource management approaches that incorporate disaster risk reduction, including structural and non-structural measures, ¹⁴ such as integrated flood management and appropriate management of fragile ecosystems.

[&]quot;Structural measures refer to any physical construction to reduce or avoid possible impacts of hazards, which include engineering measures and construction of hazard-resistant and protective structures and infrastructure. Non-structural measures refer to policies, awareness, knowledge

(c) Promote the integration of risk reduction associated with existing climate variability and future climate change into strategies for the reduction of disaster risk and adaptation to climate change, which would include the clear identification of climate-related disaster risks, the design of specific risk reduction measures and an improved and routine use of climate risk information by planners, engineers and other decision-makers.

(ii) Social and economic development practices

- (d) Promote food security as an important factor in ensuring the resilience of communities to hazards, particularly in areas prone to drought, flood, cyclones and other hazards that can weaken agriculture-based livelihoods.
- (e) Integrate disaster risk reduction planning into the health sector; promote the goal of "hospitals safe from disaster" by ensuring that all new hospitals are built with a level of resilience that strengthens their capacity to remain functional in disaster situations and implement mitigation measures to reinforce existing health facilities, particularly those providing primary health care.
- (f) Protect and strengthen critical public facilities and physical infrastructure, particularly schools, clinics, hospitals, water and power plants, communications and transport lifelines, disaster warning and management centres, and culturally important lands and structures through proper design, retrofitting and re-building, in order to render them adequately resilient to hazards.
- (g) Strengthen the implementation of social safety-net mechanisms to assist the poor, the elderly and the disabled, and other populations affected by disasters. Enhance recovery schemes including psycho-social training programmes in order to mitigate the psychological damage of vulnerable populations, particularly children, in the aftermath of disasters.
- (h) Incorporate disaster risk reduction measures into post-disaster recovery and rehabilitation processes¹⁵ and use opportunities during the recovery phase to develop capacities that reduce disaster risk in the long term, including through the sharing of expertise, knowledge and lessons learned.
- (i) Endeavor to ensure, as appropriate, that programmes for displaced persons do not increase risk and vulnerability to hazards.
- (j) Promote diversified income options for populations in high-risk areas to reduce their vulnerability to hazards, and ensure that their income and assets are not undermined by development policy and processes that increase their vulnerability to disasters.
- (k) Promote the development of financial risk-sharing mechanisms, particularly insurance and reinsurance against disasters.
- (l) Promote the establishment of public-private partnerships to better engage the private sector in disaster risk reduction activities; encourage the private sector to foster a culture of disaster prevention, putting greater emphasis on, and allocating resources to, predisaster activities such as risk assessments and early warning systems.

development, public commitment, and methods and operating practices, including participatory mechanisms and the provision of information, which can reduce risk and related impacts". UN/ISDR. Geneva, 2004.

¹⁵ According to the principles contained in General Assembly resolution 46/182.

(m) Develop and promote alternative and innovative financial instruments for addressing disaster risk.

(iii) Land-use planning and other technical measures

- (n) Incorporate disaster risk assessments into the urban planning and management of disaster-prone human settlements, in particular highly populated areas and quickly urbanizing settlements. The issues of informal or non-permanent housing and the location of housing in high-risk areas should be addressed as priorities, including in the framework of urban poverty reduction and slum-upgrading programmes.
- (o) Mainstream disaster risk considerations into planning procedures for major infrastructure projects, including the criteria for design, approval and implementation of such projects and considerations based on social, economic and environmental impact assessments.
- (p) Develop, upgrade and encourage the use of guidelines and monitoring tools for the reduction of disaster risk in the context of land-use policy and planning.
- (q) Incorporate disaster risk assessment into rural development planning and management, in particular with regard to mountain and coastal flood plain areas, including through the identification of land zones that are available and safe for human settlement,
- (r) Encourage the revision of existing or the development of new building codes, standards, rehabilitation and reconstruction practices at the national or local levels, as appropriate, with the aim of making them more applicable in the local context, particularly in informal and marginal human settlements, and reinforce the capacity to implement, monitor and enforce such codes, through a consensus-based approach, with a view to fostering disaster-resistant structures.

5. Strengthen disaster preparedness for effective response at all levels

20. At times of disaster, impacts and losses can be substantially reduced if authorities, individuals and communities in hazard-prone areas are well prepared and ready to act and are equipped with the knowledge and capacities for effective disaster management.

Key activities:

- (a) Strengthen policy, technical and institutional capacities in regional, national and local disaster management, including those related to technology, training, and human and material resources.
- (b) Promote and support dialogue, exchange of information and coordination among early warning, disaster risk reduction, disaster response, development and other relevant agencies and institutions at all levels, with the aim of fostering a holistic approach towards disaster risk reduction.
- (c) Strengthen and when necessary develop coordinated regional approaches, and create or upgrade regional policies, operational mechanisms, plans and communication systems to prepare for and ensure rapid and effective disaster response in situations that exceed national coping capacities.
- (d) Prepare or review and periodically update disaster preparedness and contingency plans and policies at all levels, with a particular focus on the most vulnerable areas and groups. Promote regular disaster preparedness exercises, including evacuation drills, with a view to ensuring rapid and effective disaster response and access to essential food and non-food relief supplies, as appropriate, to local needs.

- (e) Promote the establishment of emergency funds, where and as appropriate, to support response, recovery and preparedness measures.
- (f) Develop specific mechanisms to engage the active participation and ownership of relevant stakeholders, including communities, in disaster risk reduction, in particular building on the spirit of volunteerism.

IV. Implementation and follow-up

A. General considerations

- 21. The implementation of and follow-up to the strategic goals and priorities for action set out in this Framework for Action should be addressed by different stakeholders in a multi-sectoral approach, including the development sector. States and regional and international organizations, including the United Nations and international financial institutions, are called upon to integrate disaster risk reduction considerations into their sustainable development policy, planning and programming at all levels. Civil society, including volunteers and community-based organizations, the scientific community and the private sector are vital stakeholders in supporting the implementation of disaster risk reduction at all levels.
- 22. While each State has primary responsibility for its own economic and social development, an enabling international environment is vital to stimulate and contribute to developing the knowledge, capacities and motivation needed to build disaster resilient nations and communities. States and regional and international organizations should foster greater strategic coordination among the United Nations, other international organizations, including international financial institutions, regional bodies, donor agencies and non-governmental organizations engaged in disaster risk reduction, based on a strengthened International Strategy for Disaster Reduction. In the coming years, consideration should be given to ensuring the implementation and strengthening of relevant international legal instruments related to disaster risk reduction.
- 23. States and regional and international organizations should also support the capacities of regional mechanisms and organizations to develop regional plans, policies and common practices, as appropriate, in support of networking, advocacy, coordination, exchange of information and experience, scientific monitoring of hazards and vulnerability, and institutional capacity development and to deal with disaster risks.
- 24. All actors are encouraged to build multi-stakeholder partnerships, at all levels, as appropriate, and on a voluntary basis, to contribute to the implementation of this Framework for Action. States and other actors are also encouraged to promote the strengthening or establishment of national, regional and international volunteer corps, which can be made available to countries and to the international community to contribute to addressing vulnerability and reducing disaster risk.¹⁶
- 25. The Mauritius Strategy for the further implementation of the Barbados Programme of Action for Small Island Developing States underscores that small island developing States are located among the most vulnerable regions in the world in relation to the intensity and frequency of natural and environmental disasters and their increasing impact, and face disproportionately high economic, social and environmental consequences. Small island

¹⁶ In compliance with General Assembly resolution 58/118 and OAS General Assembly resolution 2018 (xxxiv-0/04).

developing States have undertaken to strengthen their respective national frameworks for more effective disaster management and are committed, with the necessary support of the international community, to improve national disaster mitigation, preparedness and early-warning capacity, increase public awareness about disaster reduction, stimulate interdisciplinary and inter-sectoral partnerships, mainstream risk management into their national planning process, address issues relating to insurance and reinsurance arrangements, and augment their capacity to predict and respond to emergency situations, including those affecting human settlements stemming from natural and environmental disasters.

- 26. In view of the particular vulnerabilities and insufficient capacities of least developed countries to respond to and recover from disasters, support is needed by the least developed countries as a matter of priority, in executing substantive programmes and relevant institutional mechanisms for the implementation of the Framework for Action, including through financial and technical assistance and for capacity building in disaster risk reduction as an effective and sustainable means to prevent and respond to disasters.
- 27. Disasters in Africa pose a major obstacle to the African continent's efforts to achieve sustainable development, especially in view of the region's insufficient capacities to predict, monitor, deal with and mitigate disasters. Reducing the vulnerability of the African people to hazards is a necessary element of poverty reduction strategies, including efforts to protect past development gains. Financial and technical assistance is needed to strengthen the capacities of African countries, including observation and early warning systems, assessments, prevention, preparedness, response and recovery.
- 28. The follow-up on the World Conference on Disaster Reduction will, as appropriate, be an integrated and coordinated part of the follow-up to other major conference in fields relevant to disaster risk reduction.¹⁷ This should include specific reference to progress on disaster risk reduction taking, into account agreed development goals, including those found in the Millennium Declaration.
- 29. The implementation of this Framework for Action for the period 2005-2015 will be appropriately reviewed.

B. States

- 30. All States should endeavour to undertake the following tasks at the national and local levels, with a strong sense of ownership and in collaboration with civil society and other stakeholders, within the bounds of their financial, human and material capacities, and taking into account their domestic legal requirements and existing international instruments related to disaster risk reduction. States should also contribute actively in the context of regional and international cooperation, in line with paragraphs 33 and 34.
- (a) Prepare and publish national baseline assessments of the status of disaster risk reduction, according to the capabilities, needs and policies of each State, and, as appropriate, share this information with concerned regional and international bodies;
- (b) Designate an appropriate national coordination mechanism for the implementation and follow up of this Framework for Action, and communicate the information to the secretariat of the International Strategy for Disaster Reduction;

As identified in General Assembly resolution 57/270 B.

- (c) Publish and periodically update a summary of national programmes for disaster risk reduction related to this Framework for Action, including on international cooperation;
- (d) Develop procedures for reviewing national progress against this Framework for Action, which should include systems for cost benefit analysis and ongoing monitoring and assessment of vulnerability and risk, in particular with regards to regions exposed to hydrometeorological and seismic hazards, as appropriate;
- (e) Include information on progress of disaster risk reduction in the reporting mechanisms of existing international and other frameworks concerning sustainable development, as appropriate;
- (f) Consider, as appropriate, acceding to, approving or ratifying relevant international legal instruments relating to disaster reduction, and, for State parties to those instruments, take measures for their effective implementation;¹⁸
- (g) Promote the integration of risk reduction associated with existing climate variability and future climate change into strategies for the reduction of disaster risk and adaptation to climate change; ensure that the management of risks associated with geological hazards, such as earthquakes and landslides, are fully taken into account in disaster risk reduction programmes.

C. Regional organizations and institutions

- 31. Regional organizations with a role related to disaster risk reduction are called upon to undertake the following tasks within their mandates, priorities and resources:
- (a) Promote regional programmes, including programmes for technical cooperation, capacity development, the development of methodologies and standards for hazard and vulnerability monitoring and assessment, the sharing of information and effective mobilization of resources, in view of supporting national and regional efforts to achieve the objectives of this Framework for Action;
- (b) Undertake and publish regional and sub-regional baseline assessments of the disaster risk reduction status, according to the needs identified and in line with their mandates;
- (c) Coordinate and publish periodic reviews on progress in the region and on impediments and support needs, and assist countries, as requested, in the preparation of periodic national summaries of their programmes and progress;
- (d) Establish or strengthen existing specialized regional collaborative centers, as appropriate, to undertake research, training, education and capacity building in the field of disaster risk reduction;
- (e) Support the development of regional mechanisms and capacities for early warning to disasters, including for tsunami.¹⁹

¹⁸ Such as the Tampere Convention on the Provision of Telecommunication Resources for Disaster Mitigation and Relief Operations (1998), which entered into force 8 January 2005.

¹⁹ The United Nations Advisory Board on Water and Sanitation established by the Secretary-General made an urgent appeal to halve loss of human life caused by major water related disasters, including tsunami, by 2015.

D. International organizations

- 32. International organizations, including organizations of the United Nations system and international financial institutions, are called upon to undertake the following tasks within their mandates, priorities and resources:
- (a) Engage fully in supporting and implementing the International Strategy for Disaster Reduction, and cooperate to advance integrated approaches to building disaster-resilient nations and communities, by encouraging stronger linkages, coherence and integration of disaster risk reduction elements into the humanitarian and sustainable development fields as set out in this Framework for Action;
- (b) Strengthen the overall capacity of the United Nations system to assist disaster-prone developing countries in disaster risk reduction through appropriate means and coordination and define and implement appropriate measures for regular assessment of their progress towards the achievement of the goals and priorities set out in this Framework for Action, building on the International Strategy for Disaster Reduction;
- (c) Identify relevant actions to assist disaster-prone developing countries in the implementation of this Framework for Action; ensure that relevant actions are integrated, as appropriate, into each organization's own scientific, humanitarian and development sectors, policies, programmes and practices and that adequate funding is allocated for their implementation;
- (d) Assist disaster-prone developing countries to set up national strategies and plans of action and programmes for disaster risk reduction and to develop their institutional and technical capacities in the field of disaster risk reduction, as identified through the priorities in this Framework for Action;
- (e) Integrate actions in support of the implementation of this Framework into relevant coordination mechanisms such as the United Nations Development Group and the Inter-Agency Standing Committee (on humanitarian action), including at the national level and through the Resident Coordinator system and the United Nations Country teams. In addition, integrate disaster risk reduction considerations into development assistance frameworks, such as the Common Country Assessments, the United Nations Development Assistance Framework and poverty reduction strategies;
- (f) In close collaboration with existing networks and platforms, cooperate to support globally consistent data collection and forecasting on natural hazards, vulnerabilities and risks and disaster impacts at all scales. These initiatives should include the development of standards, the maintenance of databases, the development of indicators and indices, support to early warning systems, the full and open exchange of data and the use of *in situ* and remotely sensed observations;
- (g) Support States with the provision of appropriate, timely and well coordinated international relief assistance, upon request of affected countries, and in accordance with agreed guiding principles for emergency relief assistance and coordination arrangements.²⁰ Provide this assistance with a view to reducing risk and vulnerability, improving capacities and ensuring effective arrangements for international cooperation for urban search and rescue assistance.²¹ Ensure that arrangements for prompt international response to reach

²⁰ Defined by General Assembly resolution 46/182.

²¹ Work towards the consistent implementation of General Assembly resolution 57/150.

affected areas are being developed at national and local levels and that appropriate linkages to recovery efforts and risk reduction are strengthened;

- (h) Strengthen the international mechanisms with a view to supporting disaster stricken States in the transition phase towards sustainable physical, social and economic recovery and to reducing future risks. This should include support for risk reduction activities in post-disaster recovery and rehabilitation processes and sharing of good practices, knowledge and technical support with relevant countries, experts and United Nations organizations;
- (i) Strengthen and adapt the existing inter-agency disaster management training programme based on a shared, inter-agency strategic vision and framework for disaster risk management that encompasses risk reduction, preparedness, response and recovery.

E. The International Strategy for Disaster Reduction

- 33. The partners in the International Strategy for Disaster Reduction, in particular, the Inter-Agency Task Force on Disaster Reduction and its members, in collaboration with relevant national, regional, international and United Nations bodies and supported by the inter-agency secretariat for the International Strategy for Disaster Reduction, are requested to assist in implementing this Framework for Action as follows, subject to the decisions taken upon completion of the review process²² of the current mechanism and institutional arrangements:
- (a) Develop a matrix of roles and initiatives in support of follow-up to this Framework for Action, involving individual members of the Task Force and other international partners;
- (b) Facilitate the coordination of effective and integrated action within the organizations of the United Nations system and among other relevant international and regional entities, in accordance with their respective mandates, to support the implementation of this Framework for Action, identify gaps in implementation and facilitate consultative processes to develop guidelines and policy tools for each priority area, with relevant national, regional and international expertise;
- (c) Consult with relevant United Nations agencies and organizations, regional and multilateral organizations and technical and scientific institutions, as well as interested States and civil society, with the view to developing generic, realistic and measurable indicators, keeping in mind available resources of individual States. These indicators could assist States to assess their progress in the implementation of the Framework of Action. The indicators should be in conformity with the internationally agreed development goals, including those contained in the Millennium Declaration;

Once that first stage has been completed, States are encouraged to develop or refine indicators at the national level reflecting their individual disaster risk reduction priorities, drawing upon the generic indicators.

A review process regarding the institutional arrangements within the United Nations pertaining to disaster reduction is currently being carried out and will be completed, following the World Conference on Disaster Reduction, with an evaluation of the role and performance of the International Strategy for Disaster Reduction.

- (d) Ensure support to national platforms for disaster reduction, including through the clear articulation of their role and value added, as well as regional coordination, to support the different advocacy and policy needs and priorities set out in this Framework for Action, through coordinated regional facilities for disaster reduction, building on regional programmes and outreach advisors from relevant partners;
- (e) Coordinate with the secretariat of the Commission on Sustainable Development to ensure that relevant partnerships contributing to implementation of the Framework for Action are registered in its sustainable development partnership database;
- (f) Stimulate the exchange, compilation, analysis, summary and dissemination of best practices, lessons learned, available technologies and programmes, to support disaster risk reduction in its capacity as an international information clearinghouse; maintain a global information platform on disaster risk reduction and a web-based register "portfolio" of disaster risk reduction programmes and initiatives implemented by States and through regional and international partnerships;²³
- (g) Prepare periodic reviews on progress towards achieving the objectives and priorities of this Framework for Action, within the context of the process of integrated and coordinated follow-up and implementation of United Nations conferences and summits as mandated by the General Assembly,²⁴ and provide reports and summaries to the Assembly and other United Nations bodies, as requested or as appropriate, based on information from national platforms, regional and international organizations and other stakeholders, including on the follow-up to the implementation of the recommendations from the Second International Conference on Early Warning (2003).²⁵

F. Resource mobilization

- 34. States, within the bounds of their financial capabilities, regional and international organizations, through appropriate multilateral, regional and bilateral coordination mechanisms, should undertake the following tasks to mobilize the necessary resources to support implementation of this Framework for Action:
- (a) Mobilize the appropriate resources and capabilities of relevant national, regional and international bodies, including the United Nations system;
- (b) Provide for and support, through bilateral and multilateral channels, the implementation of this Framework for Action in disaster-prone developing countries, including through financial and technical assistance, addressing debt sustainability, technology transfer on mutually agreed terms, and public–private partnerships, and encourage North–South and South–South cooperation;
- (c) Mainstream disaster risk reduction measures appropriately into multilateral and bilateral development assistance programmes including those related to poverty

To serve as a tool for sharing experience and methodologies on disaster reduction efforts. States and relevant organizations are invited to actively contribute to the knowledge-building process by registering their own effort on a voluntary basis in consideration of the global progress of the Conference outcomes.

General Assembly resolution 57/270B, follow-up to United Nations conferences, and the General Assembly resolutions on Implementation of the International Strategy for Disaster Reduction, which request the Secretary-General to report to the second committee of the General Assembly under "Sustainable development" (54/219, 56/195, 57/256 58/214, 58/215, 59/231).

²⁵ General Assembly resolution 58/214.

reduction, natural resource management, urban development and adaptation to climate change;

- (d) Provide adequate voluntary financial contributions to the United Nations Trust Fund for Disaster Reduction, in the effort to ensure the adequate support for the follow-up activities to this Framework for Action. Review the current usage and feasibility for the expansion of this fund, *inter alia*, to assist disaster-prone developing countries to set up national strategies for disaster risk reduction.
- (e) Develop partnerships to implement schemes that spread out risks, reduce insurance premiums, expand insurance coverage and thereby increase financing for post-disaster reconstruction and rehabilitation, including through public and private partnerships, as appropriate. Promote an environment that encourages a culture of insurance in developing countries, as appropriate.

Annex

Some multilateral developments related to disaster risk reduction

Among the multi-lateral frameworks and declarations that are of relevance to this document there are the following:¹

- The International Meeting to Review the Implementation of the Programme of Action for the Sustainable Development of Small Island Developing States,² held in Mauritius in January 2005, calls for increased commitments to reducing the vulnerability of small island developing States, due to their limited capacity to respond to and recover from disasters
- The Agenda for Humanitarian Action adopted by the International Conference of the Red Cross and Red Crescent in December 2003 includes a goal and actions to "reduce the risk and impact of disasters and improve preparedness and response mechanisms".
- The Johannesburg Plan of Implementation of the World Summit on Sustainable Development,³ held in 2002, paragraph 37 requests actions under the chapeau: "An integrated, multi-hazard, inclusive approach to address vulnerability, risk, assessment and disaster management, including prevention, mitigation, preparedness, response and recovery, is an essential element of a safer world in the 21st century", supporting the International Strategy for Disaster Reduction as the first action. The theme of "vulnerability, risk reduction and disaster management" is included in the multi-year programme of work of the Commission on Sustainable Development in 2014-2015, and as a cross-cutting theme throughout the programme.
- The third Action Programme for Least Developed Countries,⁴ adopted in 2001, requests action by development partners in view of giving priority attention to these countries in the substantive programme and institutional arrangements for the implementation of the International Strategy for Disaster Reduction.
- The Millennium Declaration⁵ of September 2000, identified key objectives of "Protecting the vulnerable" and "Protecting our common environment", which resolve to "intensify cooperation to reduce the number and effects of natural and man-made disasters". A comprehensive review of the progress made in the fulfillment of all the

For a more comprehensive listing of relevant frameworks and declarations, see information document: Extracts Relevant to Disaster Risk Reduction From International Policy Initiatives 1994-2003, Inter-Agency Task Force on Disaster Reduction, ninth meeting 4-5 May 2004.

² General Assembly resolution 58/213. Further implementation of the Programme of Action for the Sustainable Development of Small Island Developing States.

³ A/CONF.199/20

⁴ A/CONF.191/11

⁵ General Assembly resolution 55/2

commitments contained in the United Nations Millennium Declaration will be held in July 2005.⁶

- The International Strategy for Disaster Reduction was launched in 2000⁷ by the Economic and Social Council and the General Assembly as an inter-agency framework and mechanism (inter-agency task force on disaster reduction and an inter-agency secretariat) to serve as a focal point within the United Nations system with the mandate to promote public awareness and commitment, expand networks and partnerships, and improve knowledge about disaster causes and options for risk reduction, building on the Yokohama Strategy and Plan of Action and as follow-up to the International Decade for Natural Disaster Reduction.
- The Johannesburg Plan of Implementation of the World Summit on Sustainable Development⁸, held in 2002, requested the Intergovernmental Panel on Climate Change to "improve techniques and methodologies for assessing the effects of climate change, and encourage the continuing assessment of those adverse effects…". In addition, the General Assembly⁹ has encouraged the Conference of the Parties to the United Nations Framework Convention on Climate Change, ¹⁰ and the parties to its Kyoto Protocol¹¹ (entering into force in February 2005) to continue to address the adverse effects of climate change, especially in those developing countries that are particularly vulnerable. The United Nations General Assembly¹² also encouraged the Intergovernmental Panel on Climate Change to continue to assess the adverse effects of climate change on the socio-economic and natural disaster reduction systems of developing countries.
- The Tampere Convention on the Provision of Telecommunication Resources for Disaster Mitigation and Relief Operations of 1998 entered into force on 8 January 2005.
- The Yokohama Strategy for a Safer World: Guidelines for Natural Disaster Prevention, Preparedness and Mitigation and its Plan of Action¹³ (1994), was adopted at the World Conference on Natural Disaster Reduction, building on the mid-term review of the International Decade for Natural Disaster Reduction.
- The United Nations Convention to Combat Desertification in Those Countries Experiencing Serious Drought and/or Desertification, Particularly in Africa, was adopted in 1994 and entered into force in 1996. The United Nations Convention on Biological Diversity was adopted in 1992 and entered into force in 1993.

⁶ General Assembly resolution 58/291

⁷ General Assembly resolutions 59/231, 58/214, 57/256, 56/195, 54/219

⁸ A/CONF.199/20, paragraph 37 e).

⁹ General Assembly resolutions on natural disasters and vulnerability (59/233, and 58/215)

¹⁰ United Nations, *Treaty Series*, vol. 1771, No. 30822.

¹¹ FCCC/CP/1997/7/Add.1, decision 1/CP.3, annex.

¹² General Assembly resolutions on natural disasters and vulnerability (59/233, and 58/215)

¹³ A/CONF.172/9

¹⁴ United Nations, *Treaty Series*, vol. 1954, No. 33480

¹⁵ United Nations, *Treaty Series*, vol. 1760, No. 30619

- The General Assembly¹⁶ (1991) requested strengthening of the coordination of emergency and humanitarian assistance of the United Nations, in both complex emergencies natural disasters. It recalled the International Framework of Action for the International Decade for Natural Disaster Reduction (resolution 44/236, 1989), and set out guiding principles for humanitarian relief, preparedness, prevention and on the continuum from relief to rehabilitation and development.

¹⁶ General Assembly resolution 46/182

International Strategy for Disaster Reduction

United Nations

SUMMARY of the Hyogo Framework for Action 2005-2015:

Building the Resilience of Nations and Communities to Disasters

Expected outcome, strategic goals and priorities for action 2005-2015

The substantial reduction of disaster losses, in lives and in the social economic and environmental assets of communities and countries **Expected Outcome**

preparedness, response and recovery programmes. approaches into the implementation of emergency The systematic incorporation of risk reduction institutions, mechanisms and capacities to build The development and strengthening of Strategic Goals esilience to hazards. sustainable development policies and planning. The integration of disaster risk reduction into

5. Strengthen disaster preparedness for effective response at all levels.

4. Reduce the underlying risk factors.

and education to build a culture

of safety and resilience at

Use knowledge, innovation

Identify, assess and monitor

disaster risks and enhance

reduction (DRR) is a national and

Ensure that disaster risk

strong institutional basis for

mplementation

a local priority with a

early warning

Priorities for Action

Contributing to the achievements of the internationally agreed development goals (including the MDGs).

- Disaster management capacities: policy, technical and institutional
- disaster managers and development information exchange between Dialogue, coordination and
 - response, with risk reduction focus;

 Review and exercise preparedness Regional approaches to disaster

Vulnerability reduction with diversified income options;

Financial risk-sharing mechanisms;

Land use planning and building codes;

Public-private partnership;

Research capacity: multi-risk; socio-

Public awareness and media.

economic; application;

community level, local authorities,

development; data sharing, spaceinformation systems; public policy;

responsibilities and resources;

Legislation to support DRR;

Key Activities

Decentralisation of

wise and multisector;

Foster political commitment;

Community participation.

resources and capacities;

Assessment of human

Scientific and technological

based earth observation, climate

modeling and forecasting; early

Regional and emerging risks.

 Training and learning on DRR: curricula, formal and informal

targeted sectors; equal access;

Rural development plans and DRR.

Recovery schemes and social safety-nets;

Protection of critical public facilities;

DRR integrated into health sector and safe hospitals;

Food security for resilience;

 DRR strategies integrated with climate change Sustainable ecosystems and environmental

Information sharing and cooperation;

Risk assessments and maps,

DRR institutional mechanisms

designated responsibilities DRR part of development

(national platforms);

multi-risk: elaboration and

Networks across disciplines and

Use of standard DRR terminology;

Inclusion of DRR into school

Data and statistical loss information; Indicators on DRR and vulnerability;

policies and planning, sector

Early warning: people centered;

- Voluntarism and participation. and contingency plans; Emergency funds:

Cross Cutting Issues

Gender perspective and cultural diversity

Multi-hazard approach

Capacity building & technology transfer

Community and volunteers participation

DRR= disaster risk reduction

Continued

SUMMARY of the Hyogo Framework for Action 2005-2015: Building the Resilience of Nations and Communities to Disasters

Implementation and Follow-Up

with civil society and other stakeholders. The ISDR partners, in particular the Inter-agency Task Force on Disaster Reduction (IATF/DR)* and secretariat, are requested to assist in implementing the Hyogo Framework for Action. In order to achieve the strategic goals and act upon the priorities for action, the Framework identifies the following tasks for implementation and follow-up by States, regional and international organizations in collaboration

General Considerations

(NGOs, CBOs, volunteers), scientific community Implementation by different stakeholders, multisectoral approach; participation of civil society & private sector is vital.

stakeholder enabling international environment is vital, incl. strengthened regional States primarily responsible; an capacities

 Small island developing States: Mauritius Strategy; Particular attention to:

Least developed countries;

partnerships.

Build multi-

Africa.

themselves and a strengthened International States, regional and international organizations to foster coordination among Strategy for Disaster Reduction (ISDR)

other major conferences in Follow-up integrated with reviews as appropriate. fields relevant to DRR;

Actors

Regional Organizations and Institutions

Designate national coordination mechanisms for the implementation

States

and follow up, communicate to the ISDR secretariat National baseline assessments of the status of DRR

- cooperation, capacity development, the development of vulnerability monitoring and assessment, the sharing of Promote regional programmes including for technical methodologies and standards for hazard and
- Undertake and publish regional and sub-regional baseline assessments;

Develop procedure for reviewing national progress including systems

Publish and update a summary of national programme for DRR

including international cooperation;

Critical tasks

A-5-27

, Promote the integration of DRR with climate variability and climate Consider acceding to, approving or ratifying relevant international

change into DRR strategies and adaptation to climate change; legal instruments and make sure they are implemented; for cost benefit analysis and ongoing monitoring on risk

ensure management of risks to geological hazards.

information and effective mobilization of resources;

- support needs, and assists countries in preparation of Coordinate and publish reviews on progress and national summaries;
- Support the development of regional mechanisms and capacities for early warning, including for tsunami. Establish specialized regional collaborative centers;

International Organizations (including UN System and IFIs)

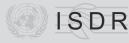
- Encourage the integration of DRR into humanitarian and sustainable development fields;
 Strengthen the capacity of the UN system to assist disaster-prone developing countries in DRR and implement measures for assessment of progress:
- Identify actions to assist disaster-prone developing countries in the implementation of the Hyogo Framework, ensure integration and that adequate funding is allocated; assist in setting up national strategies and programmes for DRR; Integrate actions into relevant coordination mechanisms (UNDG, IASC, RCs and UN Country Teams);
 - Integrate DRR into development assistance frameworks such as CCA/UNDAF, PRSP.
- In collaboration with networks and platform support: data collection and forecasting on natural hazards and risks; early Support States with coordinated international relief assistance, to reduce vulnerability and increase capacities;
 Strengthen international mechanisms to support disaster stricken States in post-disaster recovery with DRR approach warning systems; full and open exchange of data;
 - Adapt & strengthen inter-agency disaster management training for DRR and capacity building.

SDR (Inter-Agency Task Force on Disaster Reduction and secretariat)

- Develop a matrix of roles and initiatives in support of follow-up to the Hyogo Framework;
- Facilitate the coordination of effective actions within the UN system and other international and regional entities to support the implementation of the Hyogo Framework, identify gaps, facilitate processes to develop guidelines and policy tools for each priority area;
- In broad consultation, develop generic, realistic and measurable indicators. These indicators could assist States in measuring progress in the implementation of the Hyogo Framework;
- Register relevant partnerships with Commission on Sustainable Development; Support national platforms and regional coordination;
- Stimulate the exchange, compilation, analysis and dissemination of best practices, lessons learnt;
 Prepare periodic review on progress towards achieving the objectives of the Hyogo Framework and provide reports to the UNGA and other UN bodies.

Regional and International Organizations Resource Mobilization: States,

- Mobilize resources and capabilities of relevant national, regional and international bodies, including the UN system;
- Provide and support the implementation of the HFA in disaster prone developing countries, including through financial and technical assistance, addressing debt sustainability, technology transfer, public-private partnership and North-South and South-South cooperation:
- Mainstream DRR measures into multilateral and bilateral development assistance programmes;
- Provide adequate voluntary financial contribution to the UN Trust Fund for DR to support follow-up activities to Hyogo Framework; review usage and feasibility for the expansion of this fund;
- Develop parthership to implement schemes that spread risks, reduce insurance premiums, expand insurance coverage and increase financing for post-disaster reconstruction, including through public and private partnerships. Promote an environment that encourages a culture of insurance in developing countries.



United Nations International Strategy for Disaster Reduction

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