

ECONOMIC AND SOCIAL COMMISSION
FOR ASIA AND THE PACIFIC
AND
WORLD METEOROLOGICAL ORGANIZATION

WRD/TC.42/9.1
20 January 2010
ENGLISH ONLY

Typhoon Committee
Forty-second session
25-29 January 2010
Singapore

SUPPORT REQUIRED FOR THE COMMITTEE'S PROGRAMME

(Item 9 of the Provisional Agenda)

Note by the WMO Secretariat in cooperation with
the ESCAP Secretariat and the Typhoon Committee Secretariat

I. TECHNICAL COOPERATION

1. Banks

The WMO Secretariat continued to make efforts towards the mobilization of resources from the World Bank and regional development banks, including the Asian Development Bank (ADB). In collaboration with the World Bank and UNISDR, a project has been initiated for hydrometeorological study (consultancy services) for countries in Southeast Asia including Cambodia, Lao People's Democratic Republic, Philippines and Viet Nam. The existing capacity and capacity-strengthening needs (human, institutional and equipment) of NMHSs will be identified for each ASEAN member country, taking into account a regional approach in data sharing and analysis.

The Typhoon Committee submitted to the Global Facility for Disaster Reduction and Recovery (GFDRR), in June 2009, the partnership "Flood Resilient Communities in a Changing Climate", which was based on two Typhoon Committee projects: "Community-based Flood Forecasting and Warning System (CBFFWS)", from PAGASA, and "Community Weather Stations", from Hong Kong Observatory. The Typhoon Committee Secretariat was informed on 13 January 2010 by the World Bank that GFDRR was unable to recommend the proposal to the next round because only a very limited number of proposals were accepted and that was regrettably forced to decline many qualified proposals, including the one from Typhoon Committee.

2. WMO Voluntary Cooperation Programme

The WMO Voluntary Cooperation Programme (VCP) is another major source available for WMO Members requiring technical assistance for meteorological and operational hydrological components. A summary of the status of VCP projects for the Typhoon Committee Members is shown in Appendix A.

In 2009, China, Japan and the Republic of Korea made cash contributions to the Voluntary Cooperation Fund (VCP(F)). China; Hong Kong, China; Japan; Republic of Korea;

and USA provided equipment, expert services and fellowships within the framework of the VCP Equipment and Services (VCP(ES)) Programme. A VCP project for Philippines for capacity building on the use of remotely-sensed radar and weather satellite data, supported with the VCP(F) is to be implemented in 2010. A WMO expert mission to the Democratic People's Republic of Korea is planned in 2010 to assess the current status and priority requirements for the improvement of hydro-meteorological services. As of 31 December 2009, nine projects for four countries (Cambodia, Democratic People's Republic of Korea, Philippines and Viet Nam) are under implementation; and 14 projects have not received full support.

VCP holds potential for support of activities of the Typhoon Committee, either through individual projects with the Members of WMO or by a VCP coordinated programme which could provide assistance of a regional nature to the Committee as a whole. Members who need VCP assistance are urged to submit or update their requests to WMO in accordance with the Rules of the WMO VCP.

3. Emergency assistance for disasters

The WMO "Emergency Assistance Fund" (officially entitled "WMO Disaster Assistance Fund for Meteorological and Hydrological Services"), established in 1991 (and renamed in 1999), is an existing WMO emergency assistance mechanism to assist Members affected by disasters in the rehabilitation and restoration of observing network, data collection and processing facilities and in international data exchange in cases where disasters have destroyed or severely disabled the meteorological and/or hydrological infrastructure.

Following Cyclone Nargis in May 2008, a WMO emergency appeal was made for assistance to re-establish essential meteorological infrastructure and services in Myanmar. China and Japan offered to provide in-kind and cash contributions to the WMO Emergency Assistance Fund. Hydrometeorological instruments including an AWS, an electric generator, PCs for storm surge modeling as well as short-term training and a long-term fellowship were provided in 2008-2009, and more reliable Internet connectivity is being provided, to the Department of Meteorology and Hydrology, Myanmar, with the Emergency Assistance Fund and the VCP(F).

Following the floods caused by Typhoon Ketsana from 28 September to 2 October 2009, Lao People's Democratic Republic requested WMO for emergency assistance for the restoration of damaged meteorological instruments and equipment at synoptic meteorological stations. The assistance under the WMO Emergency Assistance Fund scheme and the VCP is being considered by the WMO Secretariat and potential donor Members. Affected Members who need emergency assistance are advised to utilize this scheme, and all Members are requested to consider possible support to the affected NMHSs.

4. TCDC

It is recalled that the basic objective of the Technical Cooperation among Developing Countries (TCDC) was to promote and strengthen collective self-reliance among developing countries through the exchange of expertise, pooling of resources, sharing of technical capabilities and development of complimentary capacities. The Member countries are requested to utilize such a scheme to promote the technical cooperation activities.

China organized the WMO Symposium on Meteorological Services in support of Decision-making followed by the 2009 Study Tour in China from 13 to 22 October 2009 for 22 participants from 16 Members of WMO. One member (China) of the Committee participated in the Symposium and Study Tour.

5. Bilateral assistance

Great importance should be attached to assistance from developed countries to Committee's activities on a bilateral basis. Members concerned are invited to inform the Committee at this session of typhoon-related activities, which have been implemented and/or will be undertaken on bilateral arrangements. Japan continued to provide assistance to Lao PDR to improve meteorological services through developing human resources for meteorology and hydrology in 2009-2010.

6. Typhoon Committee Trust Fund

The biennial statement of income and expenditure of the Typhoon Committee Trust Fund (TCTF) as of the end of 2009 is submitted by WMO to the Committee as shown in Appendices B and C, according to the "Rules of the ESCAP/WMO Typhoon Committee Trust Fund".

STATUS OF VCP PROJECTS related to ESCAP/WMO TYPHOON COMMITTEE MEMBERS

Country	Project Indicator	Project Title	Circulation Year	Donor Support	Status of Implementation	Estimated cost
CAMBODIA	TE/2/1/1	Linking of NMC Phnom Penh to the GTS	1998	CHINA and VCP(F)	On-going	\$31,710
				Full		
CAMBODIA	TE/5/3/1	Provision of a broadband Internet connection with Local Area Network	2006	VCP(F)	Completed on 24/08/07	US \$23,584
				Full		
DEMOCRATIC PEOPLE'S REPUBLIC OF KOREA	DP/1/2/1	Provision of PCs for hydrometeorological data and information processing in National Data Centre	2007	No	No support	
DEMOCRATIC PEOPLE'S REPUBLIC OF KOREA	OB/1/2/5	Provision of upper-air consumables (300 radiosondes)	2004	CHINA	Completed on 25/01/05	\$15,990
				Full		
DEMOCRATIC PEOPLE'S REPUBLIC OF KOREA	OB/1/2/6	Provision of meteorological balloons	2005	CHINA	On-going	
				Partial		
DEMOCRATIC PEOPLE'S REPUBLIC OF KOREA	OB/1/2/7	Restoration of Hamhung Upper-Air Station	2005	No	No support	
DEMOCRATIC PEOPLE'S REPUBLIC OF KOREA	OB/1/2/8	Provision of an upper-air system and consumables	2006	CHINA	On-going	
				Partial		
DEMOCRATIC PEOPLE'S REPUBLIC OF KOREA	OB/1/2/9	Provision of meteorological radiosondes and balloons	2009	No	No support	
DEMOCRATIC PEOPLE'S REPUBLIC OF KOREA	OB/3/3/1	Provision of an MTSAT satellite receiving system	2004	CHINA	Completed in 2006	
				Full		
DEMOCRATIC PEOPLE'S REPUBLIC OF KOREA	OB/4/1/1	Provision of a meteorological radar for improvement of nowcasting	2007	No	No support	
DEMOCRATIC PEOPLE'S REPUBLIC OF KOREA	OB/9/1/1	Provision of temperature chambers	2005	No	No support	
DEMOCRATIC PEOPLE'S REPUBLIC OF KOREA	TE/2/1/1	Upgrading of GTS communication between Pyongyang and Beijing	2006	CHINA	On-going	US \$6,650
				Full		
DEMOCRATIC PEOPLE'S REPUBLIC OF KOREA	TE/4/1/5	Improvement of data communication between local centres and synoptic stations	2003	CHINA	Completed on 25/01/05	\$62,540
				Full		
PHILIPPINES	AEM/3/1/3	Upgrading of the WAFS receiving system	2005	No	No support	
PHILIPPINES	DP/1/1/EX	Expert services for training on applications of Numerical Weather Prediction (NWP) products	2005	No	No support	
PHILIPPINES	OB/1/2/9 (Rev. 2)	Upgrading of Laoag upper-air station	2005	USA (GCOS)	On-going	
				Full		
PHILIPPINES	OB/1/2/10	Provision of upper-air consumables for Laoag upper-air station	2003	USA (GCOS)	On-going	US \$73,710
				Partial		

STATUS OF VCP PROJECTS related to ESCAP/WMO TYPHOON COMMITTEE MEMBERS

Country	Project Indicator	Project Title	Circulation Year	Donor Support	Status of Implementation	Estimated cost
PHILIPPINES	OB/1/2/11 (Rev)	Provision of 400 sets of GRAW radiosonde transmitters for Laoag upper-air station	2009	No	No support	
PHILIPPINES	OB/2/2/1	Rehabilitation of the meteorological observing network	2006	No	No support	
PHILIPPINES	OB/3/7/1	Upgrading of the GMS satellite receiving system for the new generation MTSAT	2005	USA	On-going	
PHILIPPINES	OB/3/7/EX	Expert services for training on analysis and applications of MTSAT data	2005	No	No support	
PHILIPPINES	OB/4/2/EX	Capacity Building on the Use of Remotely-sensed Radar and Weather Satellite Data	2008	VCP(F)	On-going	
PHILIPPINES	OB/9/1/2	Upgrading of the WMO Regional Instrument Centre (RIC) in the Philippines	2007	No	No support	
PHILIPPINES	TE/4/2/1	Restoration of the GTS Message Switching System in NMC	2007	ORIENTAL (JAPAN) & JAPAN	Completed on 15/08/07	US \$16,020
THAILAND	OB/1/2/4	Replacement of RS80 upper-air system with RS92 upper-air system	2006	No	No support	
THAILAND	OB/3/3/1	Provision of a FengYunCast Digital Video Broadcasting (DVB-S) receiving system	2007	No	No support	
VIET NAM, SOCIALIST REPUBLIC OF	OB/3/2/2	Provision of a meteorological satellite receiving system for FY-2C	2006	No	No support	
VIET NAM, SOCIALIST REPUBLIC OF	OB/3/3/1	Provision of a FengYunCast receiving system for use of satellite imagery for better weather forecast	2007	CHINA	On-going	

Appendix B



World Meteorological Organization
Organisation météorologique mondiale

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ESCAP/WMO TYPHOON COMMITTEE TRUST FUND

Statement of income and expenditure
For the period 1 January to 31 December 2008
Amounts in US dollars

1. Balance of fund at 1 January 2008	851,502
2. Income:	
2.1 Contributions received:	
2.1.1 Singapore (18 January)	12,000
2.1.2 Japan (18 March)	12,000
2.1.3 China (3 April)	12,000
2.1.4 Macao, China (8 August)	12,000
2.1.5 Thailand (14 August)	12,000
2.1.6 Singapore (14 August)	12,000
2.1.7 Hongkong, China (20 August)	12,000
2.1.8 USA (15 September)	24,000
2.1.9 Korea (15 December)	12,000
2.1.10 Vietnam (18 December)	12,000
2.1.11 Total contributions received	132,000
2.2 Interest credited	27,952
2.3 Total income	159,952
3. Total available funds during reporting period	1,011,454
4. Expenditure:	
4.1 Direct project costs:	
4.1.1 Participants "Training on Operational Typhoon Forecasting and Warning, Tokyo, 23 July -1 August	4,000
4.1.2 Support for "On-the-Job Training of Flood Forecasting, Malaysia, 21-28 February	1,018
4.1.3 Typhoon Ctte Secretariat Expenditure, Apr-Jun08	5,435
4.1.4 Workshop- Coping on Climate Change, Beijing, 22-26 Sep	85,565
4.1.5 Credit from 2007 Workshops (Thailand/Philippines)	(21,272)
4.1.6 Total direct project costs	74,746
4.2 Indirect project costs	
4.2.1 Support costs at 13%	9,717
4.2.2 Bank charges	115
4.2.3 Differences in exchange	(72,248)
4.2.4 Total indirect project costs	(62,416)
4.3 Total project expenditure	12,330
5. Balance of fund at 31 December 2008	999,124

Certified correct:

Luckson Ngwira
Chief, Finance Division
11 January 2010

Appendix C



World Meteorological Organization
Organisation météorologique mondiale

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ESCAP/WMO TYPHOON COMMITTEE TRUST FUND

Interim Statement of income and expenditure
For the period 1 January to 31 December 2009
Amounts in US dollars

1. Balance of fund at 1 January 2009				999,124
2. Income:				
2.1 Contributions received:				
2.1.1 Philippines (22 January)			12,000	
2.1.2 Japan (27 February)			12,000	
2.1.3 China (17 June)			12,000	
2.1.4 Hongkong, China (3 August)			12,000	
2.1.5 Malaysia (3 August)			12,000	
2.1.6 Singapore (6 August)			12,000	
2.1.7 Thailand (6 August)			12,000	
2.1.8 Macao, China (15 September)			12,000	
2.1.9 Total contributions received			96,000	
2.2 Interest credited (Jan-Nov 2009)			1,784	
2.3 Total income				97,784
3. Total available funds during reporting period				1,096,908
4. Expenditure:				
4.1 Direct project costs:				
4.1.1 The Ninth Typhoon Operational Forecasting Training at RSMC Tokyo- Typhoon Centre (Tokyo, Japan, from 22 to 31 July 2009)	4,000	-	4,000	
4.1.2 Letter of Agreement - WMO / ESCAP-WMO Typhoon Committee Trust Fund - March 2009 (PO 83856)	13,636		13,636	
4.1.3 Typhoon Committee secretariat expenditures (PO 89555)	8,524	-	8,524	
4.1.4 Workshop- Coping on Climate Change, Beijing, 22-26 Sep 2008*	(35,082)	-	(35,082)	
4.1.5 Credit from UNDP	(34)	-	(34)	
4.1.6 Letter of Agreement - WMO / ESCAP-WMO Typhoon Committee Trust Fund - Planned 2009 activities (PO 87783)	-	97,000	97,000	
4.1.7 Total direct project costs	(8,956)	97,000	88,044	
4.2 Indirect project costs				
4.2.1 Support costs at 13%	(1,164)	12,610	11,446	
4.2.2 Bank charges	94	-	94	
4.2.3 Differences in exchange	(50,917)	-	(50,917)	
4.2.4 Total indirect project costs	(51,987)	12,610	(39,377)	
4.3 Total project expenditure				48,667
5. Balance of fund at 31 December 2009				1,048,241

* Savings from cancellation of obligation

Certified correct:


Luckson Ngwira
Chief, Finance Division
11 January 2010