

ESCAP/WMO Typhoon Committee
Forty-Sixth Session
10 -13 February 2014
Bangkok, Thailand

FOR PARTICIPANTS ONLY

INF/TC.46/13.2(Rev.3)
13 February 2014

ENGLISH ONLY

IN-KIND CONTRIBUTION FROM TYPHOON COMMITTEE MEMBERS

(Item 13 of Provisional Agenda – Support required for the Committee’s Programme)

(Submitted by Typhoon Committee Secretariat)

ACTION REQUIRED:

This Committee is invited the Members to:

Take note of the In-kind contributions from the Members

APPENDIX:

Summary and List of In-kind Contribution from Typhoon Committee Members

IN-KIND CONTRIBUTION FROM TYPHOON COMMITTEE MEMBERS FOR 2013

MEMBER	UNIT OF MAN-MONTHS	VALUE ASSIGNED (USD)
CHINA	108.00	80,200
HONG KONG, CHINA	6.90	-
JAPAN	23.50	23,150
MACAO, CHINA	3.00	-
THE PHILIPPINES	2.80	4,219
REPUBLIC OF KOREA	50.23	618,806
THAILAND	14.16	5,035
USA	4.50	-
TOTAL	213.09	731,410

TCTF BUDGET ITEM/OTHERS	IN-KIND CONTRIBUTION	Unit of Man-Months	Comments	
China				
			VALUE ASSIGNED (USD)	
Support to attend Annual Session, Integrated Workshop (IWS) and other activities	<ul style="list-style-type: none"> • Transportation • Logistics • Travel expenses 	5.00	3,500	
Item 7: Verification of tropical cyclone operational forecast	<ul style="list-style-type: none"> • Transportation • Logistics • Travel expenses 	2.00	2,500	
Item 8: Publication of Tropical Cyclone Research and Review	<ul style="list-style-type: none"> • Online submission system installation • Printing expense • Delivery expense 	12.00	19,000	
AOP4 of WGH Development of Operational System for Urban Flood Forecasting and Inundation Mapping (OSUFFIM)	<ul style="list-style-type: none"> • Sun Yat-Sen University of China prepares the technical support for this project 	3.00		
AOP5 of WGH Extend application of Xin'anjiang Model in Selected River Basins in TC Members	<ol style="list-style-type: none"> 1.Perfect the English version of Xin'anjiang model 2.Sent two experts to Malaysia for training 3.Prepare for the training courses 	7.00		
Closure of the cross-cutting project, Guidelines on Urban Flood Risk Management	<p>China as the leading country did the following work:</p> <ol style="list-style-type: none"> 1.Collect comments and recommendations 2.Revise and improve the Guidelines 	8.00		In February-April 2013, the team of the project gathered comments and recommendations from pilot cities. Based on their inputs, it took 5 months for the team to revise and to improve, which had been printed in October as a publication of the Typhoon Committee.
WMO Workshop on Climate Data Requirements and Applications, March 4-March 8	<ul style="list-style-type: none"> • Local Transportation; • Logistics. 	55.00	42,500	Total (for the participants from TC members):

TCTF BUDGET ITEM/OTHERS	IN-KIND CONTRIBUTION	Unit of Man-Months	Comments	
China (cont.)				
International Seminar on Methods of Short-term Climate Prediction April 1- April 10	<ul style="list-style-type: none"> • Training; • Local Transportation; • Logistics; • Pocket money. 	5.00	VALUE ASSIGNED (USD)	
WMO Interregional Training Workshop on Verification of Operational Seasonal Forecasts, October 28- November 1	<ul style="list-style-type: none"> • Local Transportation; • Logistics fees. 	2.00	8,900	
WMO Meeting of the CBS/OPAG-PWS Expert Team on Communication, Outreach and Public Education Aspects of PWS Delivery October 28-November 1	<ul style="list-style-type: none"> • Local Transportation; • Logistics fees. 	3.00	1,500	
Training Course for Aeronautical Meteorology Observers from Macao, China, May 20-May 31	<ul style="list-style-type: none"> • Installations of the Labs of Weather Observatory, Atmospheric Observation Centre and etc. at NUIST are sponsored by CMA and the training practices are conducted at the Labs. 	6.00	2,300	
	TOTAL	108.00	USD80,200	

TCTF BUDGET ITEM/OTHERS	IN-KIND CONTRIBUTION	Unit of Man-Months	Comments	
Hong Kong, China				
ITEM 8. Publication of Tropical Cyclone Research and Review	<ul style="list-style-type: none"> Served as associated editor for the new Tropical Cyclone Research and Review Journal 	0.06	VALUE ASSIGNED (USD)	Two papers reviewed by Senior Scientific Officers. Total 2 working days spent.
Taskforce on TC Intensity Analysis for Upgrading TD under WGM	<ul style="list-style-type: none"> Served as leader of the taskforce 	0.17		5 working days by a Senior Scientific Officer spent in coordinating and carrying out the activities of the taskforce.
ITEM 6. QPF/QPE for UFRM	<ul style="list-style-type: none"> Offered one fellowship to Typhoon Committee Research Fellowship 2013. Provided in-depth QPE/QPF training to trainees from Thailand Meteorological Department (TMD) and National Hydro-Meteorological Service (NHMS) of Vietnam 	0.67		7 working days by a Scientific Officer and 13 working days by an Experimental Officer in carrying out activities related to training and research fellowship
	<ul style="list-style-type: none"> Hosting of the 45th Session of ESCAP/WMO Typhoon Committee from 28 January to 1 February 2013 	6.00		A total expenditure of around 0.11 M USD was incurred for hosting the Session
	TOTAL	6.90		

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Japan				
WGM AOP Objective No.7: Development of regional radar network (Training Course on radar composite map for TMD experts)	<ul style="list-style-type: none"> Lecture on radar composite map & QPE/QPF training on programming for radar composite maps 	5.00	VALUE ASSIGNED (USD)	
Item 3: Support for attachment of two(2) forecasters to RSMC Tokyo - Typhoon Center	<ul style="list-style-type: none"> Preparation and Attachment Training at the RSMC Tokyo 	4.00		
Tropical Cyclone Ensemble Forecast Information Website	<ul style="list-style-type: none"> Maintenance of server machine 	0.50		
Storm Surge Watch Scheme	<ul style="list-style-type: none"> Development of the storm surge model for the Asian area, especially a) enlargement of the model domain and b) addition of stations for time series charts. 	5.00		
WGH AOP Objective No.7: Study on prediction of debris flow and shallow landslide by satellite rainfall data	<ul style="list-style-type: none"> Developing prototype program 		20,000	
RSMC Tokyo Activities	<ul style="list-style-type: none"> Publication of "Annual Report on the Activities of the RSMC Tokyo - Typhoon Center" 	2.00	3,000	
	<ul style="list-style-type: none"> Publication of "Technical Review" 	2.00	150	
	<ul style="list-style-type: none"> Development and maintenance of the JMA Numerical Typhoon Prediction (NTP) website 	4.00		
	<ul style="list-style-type: none"> Update of TOM 	1.00		
	TOTAL	23.50	USD23,150	

TCTF BUDGET ITEM/OTHERS	IN-KIND CONTRIBUTION	Unit of Man-Months	Comments	
Macao, China				
8th Integrated Workshop / 2nd TRCG Forum	<ul style="list-style-type: none"> Organizing and hosting the 8th Integrated Workshop / 2nd TRCG Forum Venue setting, logistic arrangement, catering & souvenirs Welcome Dinner Labor cost Local Tour 	3.00	2 - 7 December in Macao, China No. of supporting staff: 5 Sponsored by the Macao Government Tourist Office and Macao Science Center	
	TOTAL	3.00		
The Philippines				
Support to the NDMI Flash Flood Alert System (FFAS) Project in Cagayan de Oro	<ul style="list-style-type: none"> Installations Transportation Logistics Travel expenses (some lecturers and participants, etc) 	1.37	VALUE ASSIGNED (USD)	
			USD1,110 (P50,000.00)	4 technical personnel involved – 3 times (328 hrs)
Support in the conduct of the SOOP Project Workshop in Manila – 3-4 Oct 2013	<ul style="list-style-type: none"> Local Transportation Logistics (food and venue, invitation of participant, etc) 	0.80	USD1,444 (P65,000.00)	12 personnel involved including Secretariat (192 hrs)
Support to 1 participant in the SSOP inception workshop in Bangkok, Thailand in May 7-9, 2013	<ul style="list-style-type: none"> Travel expenses (DSA and Air-Fare) 	0.10	USD888 (P40,000.00)	1 participant (24 hrs)
Support to WGH Project on Extreme Flood Events – meetings, site survey and provided data	<ul style="list-style-type: none"> Local Transportation Logistics (food and venue) 	0.53	USD777 (P35,000.00)	4 technical personnel involved (128 hrs)
	TOTAL	2.80	USD4,219	(PhP 190,000.00) (672 hrs)

TCTF BUDGET ITEM/OTHERS	IN-KIND CONTRIBUTION	Unit of Man-Months	Comments	
Republic of Korea				
ITEM 5. Typhoon Information Processing System (TIPS) Research Fellowship and training support	<ul style="list-style-type: none"> • Travel expenses for three typhoon experts (\$4,300) • Salary for three typhoon experts for 2 months (\$13,800) • Other cost (\$800) (Meetings, etc.) 	6.00	VALUE ASSIGNED (USD)	
			18,900	During May-June 3 persons x 2months =6 months
OTHER	<ul style="list-style-type: none"> • Establish of web-portal for typhoon seasonal prediction 	8.00	42,000	Through project
2nd Field survey in Philippines, Thailand and Lao P.D.R	<ul style="list-style-type: none"> • Airfare, hotel, meals, and a per diem allowance were supported to one expert from each country (Thailand, Philippines, Laos) by MOLIT HRFCO <ul style="list-style-type: none"> - Thailand (Somkid Saphaokham) - Philippines (Nivagine Nievares) - Laos (VITHAYA Somphanh) - 4 Korea Investigation staffs supported by MOLIT HRFCO (Dongryul Lee, Seongkyu Kang, Cheolkyun Shin, Wanhee Cho) - 1 Korea Investigation staff supported by TCTF (Changhwan Kim) 	-	14,000	27. Oct. ~ 2Nov. 2013
The 2 nd Meeting of Typhoon Committee Working Group on Hydrology held in Seoul, Han River Flood Control Office	<ul style="list-style-type: none"> • 8 participants from TC members were supported Airfare, hotel, meals, and a per diem allowance by MOLIT HRFCO • Welcome & Farewell dinner was provided <ul style="list-style-type: none"> - 22 delegation (KAMOTO Minoru, Hayashi Shin-ichiro, Hajoon Park, Sangheon Lee, Hwirin Kim, Changhwan Kim, Jiyoun Sung , Dong-Ryul Lee , Chung-Soo Kim , Seong-Kyu Kang , Byung-Hwa Oh , Cheol-Kyun Shin , Wan-Hee Cho , Somphanh VITHAYA , ParidahAnunBt TAHIR , Nivagine C. NIEVARES , ROY A. BADILLA) 	-	20,000	14~17 Oct. 2013

TCTF BUDGET ITEM/OTHERS	IN-KIND CONTRIBUTION	Unit of Man-Months	Comments	
Republic of Korea (cont.)				
The 8th Typhoon Committee Integrated Workshop, Macao, China	<ul style="list-style-type: none"> Two experts from the selected members (Laos, Malaysia) were supported Airfare, hotel, meals, and a per diem allowance to attend the 8th Typhoon Committee Integrated Workshop (Macao, China) by MOLIT HRFCO - Laos (SengduanguanPhouthanoxay) - Thailand (Nor AsikenBinti Alias) 	-	VALUE ASSIGNED (USD)	
			3,500	1~7Dec. 2013
Other	<ul style="list-style-type: none"> Define the Extreme Flood 	2.00		9 persons
Other	<ul style="list-style-type: none"> An comparative analysis of the flood characteristics in TC members 	3.00		8 persons
Other	<ul style="list-style-type: none"> Suggestion of the establishment direction for the appropriate Extreme Flood Forecasting System 	3.00		6 persons
Other	<ul style="list-style-type: none"> Guideline for Structural Flood Control Measures Assessment 	4.00		5 persons
Other	<ul style="list-style-type: none"> Establish the TC WGH webpage 	10.00		8 persons
The 8th WGDRR Annual Meeting in Seoul	<ul style="list-style-type: none"> Airfare, hotel, meals were supported to the delegations from each country 	1.00	18,670	29 - 30 May, 2013
2013 AOP2 (Provide the training program for disaster prevention technologies and policies including WGTCDIS)	<ul style="list-style-type: none"> Expert mission in Viet Nam and Lao PDR 	1.00	1,736	18-19 Nov, 2013 (Lao PDR) 21-22 Nov, 2013 (Viet Nam) 1 person
2013 AOP3 of WGDRR (Promote international cooperation research)	<ul style="list-style-type: none"> Installation of Flash Flood Alert System (FFAS) and Automatic Rainfall Warning System (ARWS) Education-Training program for FFAS and ARWS 	12.00	500,000	January-December 2013 4 persons
TCRR Journal Review	<ul style="list-style-type: none"> TCRR Journal Review in DRR filed 	0.23		2 persons
	TOTAL	50.23	USD618,806	

TCTF BUDGET ITEM/OTHERS	IN-KIND CONTRIBUTION	Unit of Man-Months	Comments	
Thailand				
Co-host (local arrangement) Workshop on Synergized Standard Operating Procedures for Coastal Multi-hazards Early Warning System (SSOP) UNESCAP, Bangkok, Thailand, 8 - 9 May 2013	<ul style="list-style-type: none"> • Welcome Dinner hosting and logistic arrangement for Welcome Dinner • Labor (LOC) 	2.16	VALUE ASSIGNED (USD)	
			1,671.00	No. of supporting staff : 7
Attachment Training at RSMC Tokyo-2013 (17 - 26 July 2013)	<ul style="list-style-type: none"> • Internal travel expenses and per diem for sending a participant, Ms. Roongrawee Onkot, Thai Meteorological Department to participate in the training 	0	264.00	
2013 Typhoon Committee Research Fellowship Scheme, Hong Kong Observatory, 21 October - 20 December 2013	<ul style="list-style-type: none"> • Additional funding support for sending a participant, Dr. Sukrit Kirtsaeng, Thai Meteorological Department to participate in the programme 	0	3,100.00	
Development of regional radar network (AOP WGM : 7)	<ul style="list-style-type: none"> • Served as experts team in radar composite project 	12.00		No. of staff working for the project : 4
	TOTAL	14.16	USD5,035.00	

TCTF BUDGET ITEM/OTHERS	IN-KIND CONTRIBUTION	Unit of Man-Months	Comments
USA			
Participation/Support at Typhoon Committee Meetings	<ul style="list-style-type: none"> • 45th TC Session (3 US participants) • SSOP Workshop (1 US participant) • 8th IWS / 2nd TRCG (2 US participants) 	3.50	
Hosting of Technical Exchanges with TC Members	<ul style="list-style-type: none"> • RSMC Tokyo visit to RSMC Honolulu/JTWC • KMA visit to RSMC Honolulu/JTWC 	1.00	
	TOTAL	4.50	