

PMC WP 15.2/Att 1: Work Plan and Budget for the Pacific Meteorological Desk Partnership 2015-2017

<u>Regional Priority Action Activities</u>

		Pacific Met Des	k Partnership	Relevant Pacific Key Outcome (PKO)	Indicative Budget
1.	Coordinate the development and implementation of a regional plan to support PIs NMSs QMS for aviation weather services including TAF, METAR and SPECI.			PKO 1 – Aviation Weather Services in the Pacific Island Countries and Territories (PICTs) region are improved.	
2.	Coordinate capacity development on aviation weather services including a. QMS development b. Auditing and establishment of a regional roving team to assist with QMS certification. c. Preparation of TAF and verification schemes and preparation of METAR and SPECI.				
3.	Coordinate the development of inter-agency agreements relating to aviation weather services, including contingency measures in case of natural disasters and other disruptions (for example between some SISs NMSs and Fiji Met Service/RSMC Nadi.				



4.	Promote among NMSs, Government's obligation as		
	signatories to the Convention for ICAO		
5.	Coordinate support for improving awareness among NMSs about ICAO policies and provision for cost recovery through provision of aviation weather services.		
6.	Promote the accreditation of NMSs as the Met authority for aviation weather purposes.		
7.	Coordinate safety oversight with ICAO, WMO, PASO and Pacific Islands NMSs.		

		Pacific Met Des	k Partnership	Relevant Pacific Key Outcome (PKO)	Indicative Budget
8.	Coordinate a regional marine weather services programme to support linking NMSs with partners and users of these services.	Activity 8.1 Implementation of a real time forecasting system of coastal storm impacts in the Pacific with funding to support tools, technical assistance and access to date.	Activity 8.1 SPREP, SPC, WMO (consortium of partners)	PKO 2 – Marine Weather Services in the PICTs region are improved.	Activity 8.1 funding TBD.
9.	Coordinate regional capacity development in the fields of marine meteorology and oceanography.	Activity 9.1 Update of existing agreements to deploy argo floats within the PICTs EEZ	Activity 9.1 SPREP, NOAA, MetService NZ, NIWA, IRD	РКО 2	Activity 9.1 funding TBD.
10.	Collaborate with PI-GOOS to develop oceanography programme.	Activity 10.1 Support and help coordinate the annual Data Buoy Cooperation Panel (DBCP) Pacific Islands capacity building workshops on ocean observations and data applications	Activity 10.1 SPREP/WMO/IOC- UNESCO/SPC/IRD	РКО 2, РКО 4, РКО 7	Activity 10.1 Supported by DBCP



 11. Identify and develop ways to assist the delivery of marine weather services and make them available to NMSs including: a. meteorological and oceanographic data and products. b. tools and techniques such as forecast of wave period and probable wave height for predicting storm surges and waves. c. guidelines for "good practices - approach" on methodologies for hazard data, metadata and mapping tools for storm surges and other marine meteorological hazards. 				
12. Coordinate the development of NMSs QMS for marine weather services.				
13. Assist with the development of inter- agency agreements relating to weather information for respective coastal areas, as well as contingency measures in case of natural disasters and other disruptions (for example between some SISs NMSs and the Fiji Met Service/RSMC Nadi)				
14. Coordinate the improvement of coverage and quality of marine observations, including marine weather observations at small and major ports, and the collation and dissemination of marine weather reports from small boats and commercial shippers traversing in between the islands.	Activity 14.1 PI-GOOS Marine Weather Observations from Ships of Opportunity Pilot Programme (in collaboration with SPC- Geosciences)	Activity 14.1 SPREP/SPC/Partners	РКО2	Activity 14.1 USD 200 000 [unfunded]



15. Ensure full cooperation between the	Activity 15.1	Activity 15.1	PKO2	Activity 15.1
WMO and UNESCO/IOC and	Ongoing	SPREP/SPC		TBD
IOC/ICG/PTWS and the PMC, so that				
requirements for regional tsunami				
early warning system are fully				
coordinated and meet national and				
regional requirements, including				
support from regional institutions				
such as the Pacific Tsunami Warning				
Center and the International				
Tsunami Information enter.				

	Pacific Met Desk Parti	nership	Relevant Pacific Key Outcome (PKO)	Indicative Budget
 16. Improve public weather services for PIs NMSs and setup of SmartMet including: a. Information on new tools and technologies b. Technical assistance c. Capacity building 	 Activity 16.1 Regional SmartMet Users Training Workshop Activity 16.2 Provide access to lightning location information 	Activity 16.1 FINPAC/SPREP Project Activity 16.2 FINPAC/SPREP Project	Pacific Key Outcome (PKO) 3: Public weather services in the PICTs region are improved.	Activity 16.1 USD51,069 [funded] Activity 16.2 USD115,477 [funded]
 17. Identify and develop ways to improve the presentation and usefulness of public weather services, including: d. Assessing current and future needs of users (including women, children and vulnerable communities) and their implication for NMSs. e. Public education and awareness activities (including forecasting 	 Activity 17.1 Training the NMSs to communicate with stakeholders in cooperation with NGOs. Activity 17.2 Improve NMSs communication to end users. NMSs contribute to the development of village-level integrated disaster risk management plans in 	Activity 17.1 FINPAC/SPREP Project MH, KI, VU, SB, PW, NU, FM, PG.	РКОЗ	Activity 17.1 USD105,133[funded] Activity 17.2 USD160,150 [funded] Activity 17.3 USD163,331[funded]



confidence and uncertainty). f. Communication skills	 collaboration with NGOs, NDMOs and villagers. Activity 17.3 Train Met service staff in using the media to deliver better weather Services more efficiently and effectively Development of village-level integrated disaster risk management plans in 			
 18. Promote improved access to different ways to deliver weather services to users including national TV channels, RANET, EMWIN, improved software, multi-media techniques and websites 19. Promote the use of WWIS website 	 collaboration with NMSs, NDMOs and villagers Activity 18.1 Introduce Smart Alert concept to the Pacific and adapt service to the region's needs Technical assistance & resources for the workshop will be facilitated by FMI Increase NMS collaboration with partners to develop understanding of weather and climate through village projects. MMSs in collaboration with partners to develop understanding of weather and climate for decision making through village projects 	Activity 18.1 FINPAC/ SPREP/WMO Activity 18.2 SPREP/WMO /FINPAC	PKO2, PKO3, PKO4, PKO5	Activity 18.1 305, 431(funded) Activity 18.2 USD157,801
19. Promote the use of WWIS website http://worldweather.wmo.int.				



	Pacific Met Desk Part	nership	Relevant Pacific Key Outcome (PKO)	Indicative Budget
20. In partnership with other agencies (eg SPC-SOPAC), assist NMSs to establish and improve MHEWS and enhance integration across government agencies and communities.	Activity 20.1 Seek support and implementation for MHEWS on coastal inundation and forecasting tools	Activity 20.1 SPC/IRD/SPREP	РКО4, РКО2	Activity 20.1 To be identified.
 21. Promote the regional coordination to support MHEWS including: a. Coordinate capacity assessment of national and regional MHEWS. b. Develop operational procedures and back-up systems for MHEWS. 	Activity 21.1 Training and data provision for improved severe weather forecasting.			
 22. Identify tools and methods to assist MHEWS including: c. Work with developed country NMSs and other institutions with seasonal tropical cyclone forecast capabilities to provide information on their forecast products in the Pacific Islands. d. Explore the use of ensemble techniques in tropical cyclone forecasting and probable forecasts. e. Identify availability and/or coordinate development of a combined storm surge 	Activity 22.1 Funding for Island Climate Update	SPREP/ NZ (NIWA) • On going support to PICs on development of the Island Climate Update		Activity 22.1 USD64,000 [funded] NIWA [funded]



and wave model (s).			
23. Coordinate the work related to the Southern hemisphere cyclones database.	Activity 23.1 Coordinate with NOAA and BoM		
24. Coordinate GIFS TIGGE products for cyclones and heavy rainfall relevant for the PIs region			
25. Identify institutional and financial mechanisms to ensure the continuity and sustainability of the SWFDDP for Pacific Islands.	Activity 25.1 WMO Canadian Project (Henry to fund)		Activity 25.1 WMO (\$\$)

	Pacific Met Desk	Partnership	Relevant Pacific Key Outcome (PKO)	Indicative Budget
 26. In partnership with other agencies (eg SPC-SOPAC) assist NMSs in developing and strengthening EWS-floods including: a. Coordinate regional support for the implementing EWS-floods. b. Coordinate development of guidelines for EWS-floods. c. Identify and coordinate sharing of available tools or methodologies including GIS, satellite information and hazard mapping for EWS-floods. 			Pacific Key Outcome (PKO) 5: Improved early warning system for floods (EWS- Floods)	
27. Coordinate analyses of socio-				



economic benefits of EWS-
Floods.

	Pacific Me	et Desk Partnership	Relevant Pacific Key Outcome (PKO)	Indicative Budget
28. Promote and develop a plan for regional coordination of climate information and prediction services and drought prediction including the implementation of GFCS and establishment of RCCs for the Pacific Island region.	Activity 28.1 PMC-3 to discuss a way forward, adopt PICS Panel Work Plan for GFCS. Activity S28.2 Develop a report on the status of climate and capacity in the Pacific Activity 28.3 Participate in consultancy process regarding the establishment of a Regional Climate Centre (RCC) for GFCS PMDP will assist to linking climate services provided by the NMSs for a wider audience through the PCCP Activity 28.4	Activity 28.1 Activity 28.2 SPREP/WMO Activity 28.3 SPREP/WMO Activity 28.4 SPREP/WMO Activity 28.5 SPREP / WMO	Pacific Key Outcome (PKO) 6: Climate information and prediction services, including drought prediction in the PICTs region are improved.	Activity 28.1 USD28,000 Activity 28.2 USD48,900 Activity 28.3 USD48,700 (WMO) Activity 28.4 USD20,000 (WMO) Activity 28.5 USD45,000
	National			



	stakeholders consultation in Tonga, Kiribati and Papua New Guinea Activity 28.5 Compendium of best practises showcasing benefits of weather and climate services in the Pacific		
29. Coordinate preparation of national reports on existing and future requirements for climate information and prediction services and drought prediction.	Activity 29.1 Capacity assessment reports developed for 14 member countries.	Activity 29.1 SPREP/APCC (ROK-PI CliPS)	Activity 29.1 \$USD1,000 (SPREP/APCC)
	ROKPI funded activities will focus on assessment of climate prediction services requirements in 14 member countries		
 30. Coordinate assistance to improve climate and prediction services in the PICTs region, including: a. Coordinate capacity douglonment to 	Activity 30.1 Production of the Island Climate Update by NIWA. Including new products based on	Activity 30.1 NIWA (NZ), APCC and SPREP	Activity 30.1 NIWA (NZ)
development to assist NMSs improving climate	water watch bulletin.	Activity 30.2 SPREP/WMO	Activity 30.2



 services and drought prediction. b. Support development of a simple dynamic model that can be run with limited resources. c. Support additional research on drought prediction, including the effects of La Nina and El Nino on drought around the region. d. Coordinate ENSO related regional products and services and make them available to Pacific Island NMSs. e. Coordinate MJO based information, products and services and make them available to NMSs. 	Activity 30.2 Report with recommendations on the Review of PICOF and NCOFs submitted to PMC through the PICS Panel. Activity 30.3 Convene first Regional Climate Outlook Forum in the Pacific Activity 30.4 National consultation workshops organised in 3 countries and development of their drought plans.	Activity 30.3 SPREP/WMO/FINPAC/USP/ APCC/NOAA/NIWA/BOM/EU Activity 30.4 SPREP/WMO	USD25,700 (WMO) Activity 30.3 USD154,500 (WMO) Activity 30.4 USD37,000 (WMO)
 31. Identify and develop ways to improve the presentation and usefulness of climate prediction services including: f. Identify processes and tools to translate 	Activity 31.1 • Establishing and transferring the dynamic seasonal forecasting prediction system	Activity 31.1 ROK-PI CLIPS/SPREP/APCC Activity 31.2 ROK-PI CLIPS/SPREP/APCC	Activity 31.1 USD110,000 [funded] Activity 31.2



 requirements of users of climate services into useful information and products. g. Promote climate services applications and drought prediction schemes in key socio-economic sectors. h. Develop coordinated response to regional questions about climate change, global warning, sea level rise (eg develop 'talking points' for media and other enquiries. 	 Activity 31.2 Develop the downscaled prediction system Activity 31.3 Basic training on climate Information Application on APCC Forecasting System. Activity S31.4 Develop the application guideline of multi climate factors 	Activity 31.3 ROK-PI CLIPS/SPREP/APCC Activity 31.4 ROK-PI CLIPS/SPREP/APCC	USD250,000 [funded] Activity 31.3 USD240,000 [funded] Activity S31.4 USD300,000 [funded]
 32. Promote the benefits of GEOSS in the Pacific Island region. 33. Assist Pacific Island in preparing to sign and join GEO membership and assist GEO secretariat in making contact with Pacific Islands 34. Address the lack of GEO net-cast coverage over the Pacific. 	Activity 33.1 Co-authorship in the GEO report from the PMDP	Activity 33.1 SPREP	Activity 33.1

Pacific Met Desk Partnership	Relevant Pacific	Budget
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			Key Outcome (PKO)	
35. Coordinate stocktaking and evaluation of existing national and regional observation networks including survey of existing synoptic stations and needs analysis.	Activity 35.1 • FINPAC project will support the current Synoptic networks and provide support to strengthen observations networks	Activity 35.1 FINPAC/SPREP/FMI/WMO TU, KI, NU, SB, PG, FJ, WS, CK, FM, MH, TU, TO, PW	Pacific Key Outcome (PKO) 7: Improved quality observations and coverage of networks in the Pacific Island region.	Activity 35.1 USD 1,063,384 [funded] Activity 35.2 No funding required
36. Coordinate the evaluation of existing national and regional plans and activities aligned to WIGOS.				
37. Coordinate the development and implementation of a regional WIGOS plan, ensuring that all countries and territories are integrated (not only WMO members).				
38. Promote and coordinate regional development and implementation plan for WIS.				
Coordinate integration between WIS and WIGOS. 39.	Activity 39.1 WMO Activities for WIS and WIGOS			



40. Coordinate and prepare regular evaluation report of Pacific based observing systems for reporting to UNFCCC and other international fora.	Activity 41.1 • PMDP preparing at least one regional pre- COP briefing paper for SPREP UNFCCC preparations for PICs			
41. Coordinate assistance to maintain and extend coverage and quality of observation networks including:	Activity 41.1 • SPREP is seeking additional funding to	Activity 41.1 SPREP/SPC/USP	Activity 41.1 PK07, PK013	Activity 41.1 Partial support through NZ MFAT
 a. Sustainable mechanism (including funding) for maintenance and calibration of observation networks. b. Explore expansion 	develop an ocean acidification observing network. Activity 41.2 • SPREP is seeking funding	Activity 41.2 SPREP	Activity 41.2	Activity 41.2 (\$200k) (unfunded) PMDP
of the AMDAR programme to include regional, national and budget air carriers to increase coverage of aircraft observations in the Pacific region.	to improve and expand the hydrological monitoring network including automated networks for	Activity 41.3 SPREP/NOAA/Argo/DBCP Activity 41.4 UKMO/MetService/SPREP	Activity 41.3 PKO7, PKO2, PKO13 Activity 41.4 PK07	Activity 41.3 TBD
 c. Promote Reference Stations in the Pacific to support data quality. d. Coordinate the 	 rapid response to extreme rain events. Activity 41.3 SPREP will seek 		F KU/	Activity 41.4 USD\$279,078.00 ongoing



implementation of standards for hydrological observations and processing, aimed at the compatibility of monitoring results within the framework of the WMO QMF.	 to continue to increase regional support for international ocean observing programmes such as the Argo Programme and the Surface Drifter Programme Activity 41.4 Maintenance and operations of the upper air stations of Kiribati. Cook Island and Tuvalu 		
 42. Support access to information, data and communication networks including: e. Develop a user plan in cooperation with relevant satellite operators to ensure smooth transition to the use of new and advance satellite systems. f. Coordinate the development of a strategy to mitigate the termination of MTSAT direct broadcasting. 	Activity 42.1 SPREP will upgrade the Pacific Climate Change Portal (PCCP) to improve access to climate information and data to NMHSs.	Activity 42.1 SPREP/Griffith University/iCLIM	Activity 42.1



g. Coordinate communication between Pacific Islands NMSs and RICs/RCCs.

	Pacific Met Desk Par	rtnership (Secretariat)	Relevant Pacific Key Outcome (PKO)	Budget
43. Coordinate the development of programmes/plans for data rescue and data management.	Activity 43.1	• Other Partners are taking the lead in this activity (BOM/COSPPAC/NI WA)	Pacific Key Outcome (PKO) 8: PICTs historical climatological data are preserved	Activity 43.1
44. Coordinate information, data rescue and management tools and make information available to PIs NMSs.	Activity 44.1			Activity 44.1
45. Support the development of CDMS for the PIs NMSs.	Activity 45.1	Activity 45.1 • PACCSAP has deployed the CliDE database management system and installed in all NMSs		Activity 45.1
46. Coordinate the development of a regional climatology data policy to assist NMSs.				



	Pacific Met Desk Partnership (Secretariat)	Relevant Pacific Key Outcome (PKO)	Budget
47. Coordinate the assessment of existing and future needs for expansion of monitoring station networks in the Pacific Is region.	Other partners are taking the lead in these activities.	Pacific Key Outcome (PKO) 9: Atmospheric chemistry observations and assessment meet regional needs.	
48. Coordinate the reporting on these atmospheric gases and agents.	Other partners are taking the lead in these activities.		

	Pacific Met Desk F	Partnership (Secretariat)	Relevant Pacific Key Outcome (PKO)	Budget
49. Coordinate the development of a regional strategy for building capacity of meteorological services in the Pacific Island region	Activity 49.1 Consultancy undertaken in 2016 to conduct the mid- term review of the PIMS.	Activity 49.1 SPREP/WMO	Pacific Key Outcome (PKO) 10: Regional and NMSs are more capable and effective	Activity 49.1: Funding TBC
50. Coordinate NMSs participation and advocacy in relevant regional and international fora including:	Activity 50.1 Coordination mechanism for PICS Panel.	Activity 50.1 SPREP/WMO	РКО10	Activity 50.1 USD28,000
 a. WMO meetings b. SPREP/regional meetings c. Thematic meetings on relevant issues such as climate change, tourism, agriculture etc. 	Activity 50.2 Coordination of Education, Training and Research Working Group and other Working Groups established by PMC.	Activity 50.2		Activity 50.2 TBD Activity 50.3
	Activity 50.3	Activity 50.3		Partners



	Coordination for NMHS and Partners to hold side events during the SPREP Meeting. Activity 50.4 Coordinate with other CROP Agencies and Institutions for specialized technical meetings.	Partners Activity S50.4 Partners	Activity 50.4 Partners
51. Organise and provide secretariat for the PMC meetings	Activity 51.1 Organised PMC-4	Activity 51.1 SPREP/WMO	Activity 51.1
 52. Develop socio-economic case studies and data to underpin regional and national initiatives to mobilize additional resources for NMS from: a. National governments (mainstreaming) b. Technical partners c. Donors d. International funds (eg GEF) 			
53. Contribute case studies and other material on socio-economic benefits on public weather services to the WMO socio-economic website: http//www.wmo.int/socioec	Activity 53.1 FINPAC Write-shop and Compendium of good practises showcasing benefits of weather and climate services in the Pacific	Activity 53.1 FINPAC/SPREP/FMI/WMO/BOM	Activity 53.1 USD59,144



	Pacific Met Desk	Partnership (Secretariat)	Relevant Pacific Key Outcome (PKO)	Budget
 54. Work with donors to ensure scholarship allotment toward meteorology undergraduate and postgraduate courses and relevant technical training 55. Assess the opportunities for development of meteorology at undergraduate level at Pacific tertiary institutions (USP, FNU etc) and encourage cross-institutional cooperation and use of remote communication and distance learning technologies to achieve common accreditation for meteorology related course work. 	 Activity 54.1 Two regional trainings on basic IT knowledge for the production of climate services Activity 55.1 WMO VCP Trainings in Philippines, Nanjing, UK, BOM and so forth Activity 55.2 	Activity 54.1 SPREP/WMO Activity 55.1 WMO Activity 55.2 SPREP	Pacific Key Outcome (PKO) 11: Education, training and capacity development activities in the field of meteorology, climatology in the PICTs region are coordinated and improved.	- Activity 54.1 USD62,000 (WMO) Activity 55.1 WMO Activity 55.2 TBD
56. Promote opportunities to include weather and climate teaching topics into primary/secondary school level curricula across the region.	 SPREP and other CROP agencies working with USP to ensure improved and more diverse opportunities for education are available. Activity 56.1 The SEREAD programme continues to develop primary/secondary school course content on oceans and climate 	Activity 56.1 SPREP/NOAA/Argo Programme		Activity 56.1 \$30,000



57. Coordinate capacity development for Pacific Is NMSs personnel to meet the Secondary Level AMP Competence Description and Related Criteria "for AMO and AMF.		
58. Coordinate with relevant training institutions currently providing training courses for meteorologists, meteorological technicians, climatologist, climatologically technician		

	Pacific Met Desk Partnership (Secretariat)		Relevant Pacific Key Outcome (PKO)	Budget
59. Advocate for Pacific Is NMHSs needs at high level donor coordination discussions.	 Activity 59.1 PMDP will continue to advocate NMHSs priorities. 	Activity 59.1 SPREP/WMO.	Pacific Key Outcome (PKO) 12: Donor funding is coordinated efficiently and effectively in PICTs.	Activity S59.1 TBC
60. Maintain database of regional and bilateral development programmes and projects.	 Activity 60.1 SPREP iCLIM project to maintain and update Pacific Island Climate Change Portal 	Activity 60.1 SPREP/iCLIM/Grithifth University		Activity 60.1
61. Promote coordination of development partners and donor	Activity 61.1 Partners coordination	SPREP/WMO		Activity 61.1



agencies inputs into the development of weather and climate services in the Pacific Is region.	meetings for implementation of the PIMS		TBD
	•		
62. Coordinate development of new regional projects	Activity 62.1 PMDP to work with countries and partners to develop weather and climate realted projects for GCF, AF and GEF.	SPREP/WMO and Partners	Activity 62.1 TBD

	Pacific Met Desk Partnership (Secretariat)		Relevant Pacific Key Outcome (PKO)	Budget
 63. Maintain and build partnership with a range of multi-lateral and bilateral donors and agencies, including a. UN agencies b. National governments c. Aid agencies and philanthropic organizations. d. International funding 	Activity 63.1 • PMDP will continue to advocate and bring in new partners Activity 63.2 • SPREP will continue to pursue a	Activity 63.1 SPREP/WMO Activity 63.2 SPREP/IODE	Pacific Key Outcome (PKO) 13: Enhance strategic partnerships and collaboration with UN,	Activity 63.1 TBD Activity 63.2 TBD
mechanisms such as	partnership with		,	



the GEF or multilateral fund and their implementing agencies.	the IODE Ocean Teacher Global Academy to establish a regional training centre in the region		regional and national organisation and agencies	
64. Maintain and build partnerships with technical support agencies (eg SPC- SOPAC) in the development and implementation of regional projects in the areas of weather, climate and water.	Activity 64.1 PMDP will continue to work in partnership with all agencies in the development and implementation of projects in the weather, climate and water.	Activity 64.1 SPREP/WMO		Activity 64.1 TBD
65. Develop regional project proposals and support national project proposals.	Activity 65.1 PMDP will work with countries to access support through Regional Technical Support Mechanism (RTSM)	Activity 65.1 SPREP/WMO		Activity 65.1 TBD

	Pacific Met Desk Partnership (Secretariat)		Relevant Pacific Key Outcome (PKO)	Budget
66. Maintain full reporting and accountability to the PMC and SPREP	Activity 66.1 PMDP will provide reports to PMC and SPREP	Activity 66.1 SPREP/WMO/PMDP	Pacific Key Outcome (PKO) 14: PMC is an effective and efficient body	Activity 66.1
67. Organise and support PMC	Activity 67.1	Activity 67.1		Activity S67.1



meetings efficiently and effectively	PMDP Coordination for PMC and PIMS.	SPREP	US	D88,000
 68. Promote consistency between the PMC and PMDP programmes, projects and activities of WMO programmes and institutions including: a. Advocate for Chair of the PMC to be a member of, or observer to, the RA V Management Group b. Foster the involvement of the Leads of RA V Working group in the work and meetings of the PMC c. Coordinate preparation of reports and present to the WMO Executive Council, RA V and its working group d. Promote work of RA V Working Group and ensure equity of participations of Pacific NMSs taking into full consideration 	Activity 68.1 On-going coordination of the PMDP	Activity 68.1 • SPREP/WMO/Partners	Act TB	tivity 68.1 D



e. Develop joint programmes/proje cts for the PMC and RA V Working Groups.

NOTES:

Exchange rates used: 1NZD = 0.773USD

Funded = funding secured

Proposed = dialogue with proposed funder, likely to be funded (>60%)

Unfunded = concept proposed, no funding as yet.