|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **INTEGRATED SAFEGUARDS DATA SHEET** | | | | | | | | | | | | | | | | | | | | | |
| **APPRAISAL STAGE** | | | | | | | | | | | | | | | | | | | | | |
| . | | | | | | | | | | | | | | | | | | | | | |
| Report No.: | | | | | | | | | | | | | | | | | | | 83113 | | |
| . | | | | | | | | | | | | | | | | | | | | | |
| **Date ISDS Prepared/Updated:** | | | | | | | | 15 November 2013 | | | | | | | | | | | | | |
| **I. BASIC INFORMATION** | | | | | | | | | | | | | | | | | | | | | |
|  | | **1. Basic Project Data** | | | | | | | | | | | | | | | | | | | |
|  | | **Country:** | | | Solomon Islands | | | | **Project ID:** | | | | | P112613 | | | | | | | |
|  | | **Project Name:** | | | COMMUNITY RESILIENCE TO CLIMATE AND DISASTER RISK IN SOLOMON ISLANDS PROJECT (P112613) | | | | | | | | | | | | | | | | |
|  | | **Task Team Leader:** | | | Denis Jean-Jacques Jordy | | | | | | | | | | | | | | | | |
|  | | **Estimated Board Date:** | | | 10-Feb-2014 | | | | | | | | | | | | | | | | |
|  | | **Managing Unit:** | | | EASNS | | | | | | | | | | | | | | | | |
|  | | **GEF Focal Area:** | | | Climate change | | | | | | | | | | | | | | | | |
|  | | **Sector(s):** | | | Envir & natural res (30%); Central government  administration (30%); Water supply (30%), Social  prot & risk (10%) | | | | | | | | | | | | | | | | |
|  | | **Theme(s):** | | | Climate change (100%) | | | | | | | | | | | | | | | | |
|  | | **Is this project processed under OP 8.50 (Emergency Recovery) or OP 8.00 (Rapid Response to Crises and Emergencies)?** | | | | | | | | | | | | | | | No | | | | |
|  | | **Project Financing Data (in USD Million)** | | | | | | | | | | | | | | | | | | | |
|  | | Total Project Cost: | | 9.1 | | | | | | Total Bank Financing: | | | | | 7,3 (GEF) | | | | | | |
|  | | Total Cofinancing: | | 1.8 | | | | | | Financing Gap: | | | | | 0.00 | | | | | | |
|  | | **Financing Source** | | | | | | | | | | | **Amount USD m** | | | | | | | | |
|  | | BORROWER/RECIPIENT | | | | | | | | | | | 0.0 | | | | | | | | |
|  | | Global Environment Facility (GEF) | | | | | | | | | | | 7,3 | | | | | | | | |
|  | | Global Facility for Disaster Reduction and Recovery | | | | | | | | | | | 1.8 | | | | | | | | |
|  | |  | | | | | | | | | | |  | | | | | | | | |
|  | | Total | | | | | | | | | | | 9.1 | | | | | | | | |
|  | | **Environmental Category:** | | | B - Partial Assessment | | | | | | | | | | | | | | | | |
|  | | **Is this a Repeater project?** | | | No | | | | | | | | | | | | | | | | |
|  | | **Is this a Transferred project?** | | | Yes | | | | | | | | | | | | | | | | |
| . | | | | | | | | | | | | | | | | | | | | | |
| . | | | | | | | | | | | | | | | | | | | | | |
|  | **2. Project Development Objective(s)** | | | | | | | | | | | | | | | | | | | | |
|  | **The project development objective (PDO) is to “*to increase the capacity of selected rural communities to manage natural hazards and climate change risk*”.**  The project would achieve this objective by strengthening government capacity in disaster and climate risk management, and implementing disaster risk reduction and climate change adaptation investments in selected communities in up to four provinces including Guadalcanal and Temotu which are included in the pilot phase (PHRD grant). | | | | | | | | | | | | | | | | | | | | |
|  | | | | | | | | | | | | | | | | | | | | | |
|  | | **3. Project Description** | | | | | | | | | | | | | | | | | | | |
|  | | To be revised based on the appraisal PAD  The components for the CRISP project are:  ***Component A – Integration of climate change adaptation and disaster risk reduction in government policies and operations*** (Total US$0.82 million including taxes and contingencies)   1. The objective of this component is to support policy development, capacity building and institutional strengthening aimed at integrating governance and operational processes for CCA and DRR. 2. Component A will include three sub-components: (i) development of a national integrated CCA and DRM framework, (ii) strengthening institutional capacity for aligning DRM and CCA, (iii) assist sector Ministries and the Provincial Governments, which may include MECDM, Ministry of Land Housing and Survey, (MLHS), Ministry of Agriculture and Livestock (MAL), Ministry of Health and Medical Services (MHMS), to mainstream DRM and CCA in sector planning and investments. This component will support policy development, capacity building and institutional strengthening by: integrating governance and operational processes for CCA and DRR; strengthening MECDM's CCA and DRR roles and responsibilities; and supporting more climate and disaster resilient planning and implementation capacity in selected Ministries and Provincial authorities. Support will be provided to the Permanent Secretary and the executive team of MECDM to review the organizational structure and capacity requirements to better integrate the role and effectiveness of its various Divisions, both nationally and provincially. 3. The component will provide for: (i) a Senior Policy Advisor to support the policy dialogue, provide technical assistance and mentoring for the project coordinator: (ii) consultant services to strengthen the capacity of the MECDM for DRM/CCA mainstreaming; and (ii) carrying out training and capacity building including travel costs related to south - south exchanges.   ***Component B – Strengthening of climate and disaster risk information and early warning systems*** (Total US$1.44 million including taxes and contingencies)   1. The objective of this component is to establish an early warning network for volcanic/seismic hazards[[1]](#footnote-1) and start the establishment of a national risk information platform. 2. Component B will include two sub-components: (i) establishing an early warning network for volcanic/seismic events (as tentatively identified in the Solomon Islands Country Assessment by GFDRR in 2009); and (ii) establishing the foundations of a national risk information system, that can be applied under CRISP to assess disaster and climate change effects for sectors and investment planning, and expanded under other programs. The latter activity will include creating protocols and standards for sharing climate and disaster risk information and other existing mapping data between ministries and regional organizations; undertaking quantitative and qualitative risk assessments and mapping; as well as limited and targeted acquisition of geo-spatial data for Guadalcanal and Temotu Provinces (and up to two more provinces to be identified by the PCC). By providing information to the communities to better understand the risks, this component would also support the development of risk management plans (Component C) for selected communities and areas in Guadalcanal and Temotu provinces to facilitate communities to design and subsequently implement their own adaptation and risk reduction measures. 3. The component will provide for: (i) consultant services to strengthen the capacity of the MECDM for disaster risk assessment and early warning systems; (ii) goods, equipment, software and geo-spatial data for disaster risk information and early the warning system; and (iii) training and capacity building.   ***Component C – Climate change adaptation and disaster risk reduction investments (***Total US$5.96 million including taxes and contingencies).   1. This component aims to support both structural and non-structural disaster risk and adaptation investments at the community and provincial level. It will be implemented in collaboration with the Rural Development Program (RDP) and the Provincial Governments of the target Provinces. The identification, prioritization and implementation of community investments will integrate the lessons learned from the pilots conducted under the PHRD grant. 2. Component C will include three sub-components: (i) risk analysis, design, advisory and supervision services of rural infrastructure investments and disaster/climate risk management plans, (ii) development and implementation of community-led rural investment projects, (iii) development and implementation of provincial-led rural investment projects. The component will support the implementation of provincial and community-level climate change adaptation and disaster risk reduction investment activities and engineering works to increase resilience of selected communities in Guadalcanal and Temotu Provinces and up to two more provinces to be identified by the Project Coordination Committee (PCC). Community based disaster risk management and climate change adaptation plans will be developed using RDP, community-based disaster risk management (CBRDM), vulnerability and adaptation (V&A) participatory approaches. These plans will include priority structural risk reduction sub-projects (e.g. community shelters, improved water supply and storage systems, earthquake retrofit strengthening or cyclone strengthening of buildings, foundation raising for flood alleviation, shoreline protection systems..) , as well as non-structural measures (e.g. disaster preparedness, evacuation and recovery plans and drills for landslides, earthquake, tsunami or volcanic hazards, hazards mapping and risk zoning, improved land use planning). 3. The component will provide for: (i) engineering, consultant services for risk analysis, design and supervision of rural infrastructure investments and consultants or NGOs for community based DRM/CCA plans, (ii) additional operating costs that may be incurred by RDP or Provincial Governments to assist with project implementation, monitoring and supervision; and (iii) community and provincial investments including technical assistance, small works, goods, and equipment.   ***Component D - Project management and monitoring & evaluation*** (Total US$0.90 million including taxes and contingencies)   1. This component aims to provide efficient and effective management support for the implementation of the project. 2. Component D will include two sub-components: (i) project coordination and management, (ii) project monitoring and evaluation. The Project Management Unit (PMU) based in MECDM will be responsible for the day to day operations including procurement, accounting, development and application of key performance indicators and monitoring and evaluation. In light of the limited capacity of the Ministry, the PMU will be supported by a senior policy advisor and an M&E advisor, who will undertake an evaluation of the M&E reporting and conclusions at mid-term or when approximately 50% of the budget has been disbursed, and near the end of the project. In addition, key equipment and works contracts will be managed and supervised through specialists engaged to provide technical assistance to MECDM and other government implementing agencies. Community-led investments under Component C will be undertaken in close collaboration with RDP and the Provincial Governments and will use the existing provincial implementation structures i.e. RDP’s Provincial Support Unit (PSU) or Provincial Government. The PMU procurement officer and financial management officer will work closely with RDP and Provincial Governments on all fiduciary aspects of the project. The PMU project coordinator will monitor implementation process and CRISP may supplement resources i.e. additional Community Helpers, PMU-based engineers and environmental specialists, as required. 3. The component will provide for: (i) project coordination and fiduciary consultant support services to strengthen MECDM (procurement and finance officer, financial advisor, project assistant, (ii) support to the steering committee (mainly workshops), (iii) goods and equipment (computers, office furniture and equipment, vehicles); (iv) training for PMU staff; (v) financial and technical audit; and (vi) incremental operating costs to assist with project implementation and monitoring. | | | | | | | | | | | | | | | | | | | |
|  | | **4. Project location and salient physical characteristics relevant to the safeguard analysis (if known)** | | | | | | | | | | | | | | | | | | | |
|  | | Selected communities and areas in Guadalcanal and Temotu provinces | | | | | | | | | | | | | | | | | | | |
| . | | | | | | | | | | | | | | | | | | | | | |
|  | | **5. Environmental and Social Safeguards Specialists on the Team** | | | | | | | | | | | | | | | | | | | |
|  | | Ly Thi Dieu Vu ( EASVS )  Ann McLean, Social Safeguards Consultant (EASNS) | | | | | | | | | | | | | | | | | | | |
| . | | | | | | | | | | | | | | | | | | | | | |
|  | | **6. Safeguard Policies** | **Triggered?** | | | **Explanation (Optional)** | | | | | | | | | | | | | | | |
|  | | Environmental Assessment OP/BP 4.01 | **Yes** | | | The potential negative impacts would mainly occur during construction phase. These are increases in dust and noise level, pollution related to waste and wastewater generation, disturbance to daily domestic and production activities etc. These are mostly localized, at low or moderate level and can be avoided or mitigated effectively.  An Environmental and Social Management Framework (ESMF) has been prepared and served as an EA instrument. The ESMF consider the project’s potential social and environmental impacts and set a mechanism for impacts screening, mitigation and monitoring during project implementation phase. Environmental Codes of Practices (ECOP) are also introduced in the ESMF for application during construction phase to mitigate potential negative social and environmental impacts of sub-projects. | | | | | | | | | | | | | | | |
|  | | Natural Habitats OP/BP 4.04 | **Yes** | | | The project may have limited negative impact on natural habitats (e.g. rivers, waterway), given the nature of the sub-projects and the fact that the exact location is not known.  Sub-projects that would affect natural habitats could be eligible provided that the benefits outweigh the negative impacts and that mitigation measures are put in place in accordance with OP/BP 4.04. Sub-projects that would significantly convert or degrade critical natural habitats will not be supported. A screening mechanism for sub-project impacts on natural habitats is included in the ESMF | | | | | | | | | | | | | | | |
|  | | Forests OP/BP 4.36 | **No** | | | The Project is not envisaged to significantly affect forest, forest health or forest-dependent communities because of the small scale nature of the sub-projects, which are mainly small community infrastructure. | | | | | | | | | | | | | | | |
|  | | Pest Management OP 4.09 | **No** | | | The Project does not involve in pest control or lead to increase use of pesticide. | | | | | | | | | | | | | | | |
|  | | Physical Cultural Resources OP/BP 4.11 | **Yes** | | | The Project may encounter and/or find PCR during implementation from excavations during construction phase. A chance find protocol has been included in the ESMF to address cases of chance find. | | | | | | | | | | | | | | | |
|  | | Indigenous Peoples OP/BP 4.10 | **Yes** | | | Triggered as per policy. The population is 95% Melanesian, 3% Polynesian and a little over 1% Micronesian. Over 80% of the population relies substantially on land for subsistence. Policy requirements, especially concerning consultation and benefit sharing will be embedded in project design and policy advice under Component A. As the Indigenous Peoples are the overwhelming majority of the population, no IPP is required. Social assessment will be performed as part of sub-project consultation and design to address issues of vulnerability due to poverty, gender, age, infirmity or ethnicity. | | | | | | | | | | | | | | | |
|  | | Involuntary Resettlement OP/BP 4.12 | **Yes** | | | Construction of structural disaster risk and adaptation investments at the community and provincial levels may require access to land or may impact livelihoods. The project will develop a participatory approach to get broad community support of the sub-projects, and access to communal or private lands is expected to be largely through voluntary donation.    A Resettlement Policy Framework (annex to the ESMF) has been prepared by the Project in case involuntary resettlement is unavoidable.  As development of policy and process is an important component of the project under Component A, this policy is also triggered to guide incorporation of resettlement and land acquisition principles into standard operating procedures of the line agencies engaged in DRR and DRM. The RPF provides guidance in integrating resettlement principles in the development of policy that will regulate implementation of sub-projects under Component C. | | | | | | | | | | | | | | | |
|  | | Safety of Dams OP/BP 4.37 | **No** | | | No dam will be affected by the Project. There will be no works of which safety depends on any existing dams. | | | | | | | | | | | | | | | |
|  | | Projects on International Waterways OP/BP 7.50 | **No** | | | The Project does not have impacts on any international waterway. | | | | | | | | | | | | | | | |
|  | | Projects in Disputed Areas OP/BP 7.60 | **No** | | | The Project is not implemented in disputed areas. | | | | | | | | | | | | | | | |
| . | | | | | | | | | | | | | | | | | | | | | |
|  | | **II. Key Safeguard Policy Issues and Their Management** | | | | | | | | | | | | | | | | | | | |
|  | | ***A. Summary of Key Safeguard Issues*** | | | | | | | | | | | | | | | | | | | |
|  | | **1. Describe any safeguard issues and impacts associated with the project. Identify and describe any potential large scale, significant and/or irreversible impacts:** | | | | | | | | | | | | | | | | | | | |
|  | | The project is expected to be beneficial to the population at large. The potential negative environmental impacts are mostly related to construction and these are manageable. If resilience planning indicates relocation of key infrastructure to secure areas, some tensions and anxieties could result, but will be planned with participation of affected persons and counterbalanced by avoided risk. | | | | | | | | | | | | | | | | | | | |
|  | | **2. Describe any potential indirect and/or long term impacts due to anticipated future activities in the project area:** | | | | | | | | | | | | | | | | | | | |
|  | | The project would contribute long term to water, food, sanitation, communications and energy security, and to reducing climate change and disaster risks to physical and social infrastructure. Since women predominate in the subsistence sector, and will be consulted and empowered in design and management of village sub-projects, they will be the main beneficiaries of subsistence sector improvements. | | | | | | | | | | | | | | | | | | | |
|  | | **3. Describe any project alternatives (if relevant) considered to help avoid or minimize adverse impacts.** | | | | | | | | | | | | | | | | | | | |
|  | | Experience from the Rural Development program has been taken into account in creating forward and backward linkages in the institutional arrangements for this project, recognizing synergies between the NGO and the commercial sectors and planning capacity building that will extend to the Provincial DMOs. Participatory approaches will be used in the community led investment activities. Selection criteria for sub-projects will include screening to avoid and minimize adverse impacts. | | | | | | | | | | | | | | | | | | | |
|  | | **4. Describe measures taken by the borrower to address safeguard policy issues. Provide an assessment of borrower capacity to plan and implement the measures described.** | | | | | | | | | | | | | | | | | | | |
|  | | The Borrower has prepared an Environmental and Social Management Framework (ESMF) acceptable to IDA. The ESMF sets out procedures for effective management of social and environmental impacts including impacts on natural habitats, land acquisition/resettlements, and physical cultural resources. The procedures include environmental screening, impact identification and selection of mitigation measures to be implemented at various stage of sub-project preparation. The Borrower will build safeguards principles into Standard Operating Procedures to improve sustainability of outcomes. Weaknesses in Borrower capacity are addressed through provision in the PMU of a Project Coordinator, a Finance Officer, Procurement Officer, engineering expertise and an Environmental Officer who will work with counterparts to build skills and experience in the IA as the project progresses. | | | | | | | | | | | | | | | | | | | |
|  | | **5. Identify the key stakeholders and describe the mechanisms for consultation and disclosure on safeguard policies, with an emphasis on potentially affected people.** | | | | | | | | | | | | | | | | | | | |
|  | | The key institutional stakeholders will be Ministry of Environment Climate Change, Disaster Management and Meteorology, the National Disaster Management Office, Ministry of Agriculture and Livestock, Ministry of Culture and Tourism, Ministry of Infrastructure Development, Ministry of Communications and Aviation Rural Development Ministry of Development Planning and Aid Coordination, Ministry of Provincial Government and Institutional Strengthening, Ministry of Women, Youth and Children. These agencies will be consulted to contribute to an Integrated National Framework to support mainstreaming CCA and DRR across sectors. Provincial Governments will confer under the Provincial Government Strengthening Program. Grass-roots stakeholders in the selected sub-projects under Component C Community led rural investment projects will participate through the screening, options assessments and implementation planning for local level investments. Community consultations will be managed through the Subproject Implementation Committees and will include all sectors of the community with particular efforts to ensure the effective participation of women and youth. These processes will aim secure broad community support and to avoid adverse impacts to individuals of communities. Policy advice will include integration of social and environmental safeguards into the standard operating procedures of the IA. | | | | | | | | | | | | | | | | | | | |
| . | | | | | | | | | | | | | | | | | | | | | |
|  | | ***B. Disclosure Requirements*** | | | | | | | | | | | | | | | | | | | |
|  | | **Environmental Assessment/Audit/Management Plan/Other** | | | | | | | | | | | | | | | | | | | |
|  | | Date of receipt by the Bank | | | | | | | | | | | | 22 October 2013 | | | | | | | |
|  | | Date of In country Disclosure | | | | | | | | | | | | 30 October 2013 | | | | | | | |
|  | | Date of submission to InfoShop | | | | | | | | | | | | 30 October 2013 | | | | | | | |
|  | | For category A projects, date of distributing the Executive Summary of the EA to the Executive Directors | | | | | | | | | | | |  | | | | | | | |
|  | |  | | | | | | | | | | | | | | | | | | | |
|  | | **Resettlement Action Plan/Framework/Policy Process** | | | | | | | | | | | | | | | | | | | |
|  | | Date of receipt by the Bank | | | | | | | | | | | | 22 October 2013 | | | | | | | |
|  | | Date of In country Disclosure | | | | | | | | | | | | 30 October 2013 | | | | | | | |
|  | | Date of submission to InfoShop | | | | | | | | | | | | 30 October 2013 | | | | | | | |
|  | |  | | | | | | | | | | | | | | | | | | | |
|  | | **Indigenous Peoples Development Plan/Framework** | | | | | | | | | | | | | | | | | | | |
|  | | Date of receipt by the Bank | | | | | | | | | | | | n/a | | | | | | | |
|  | | Date of submission to InfoShop | | | | | | | | | | | | n/a | | | | | | | |
|  | | "In country" Disclosure n/a | | | | | | | | | | | | | | | | | | | |
|  | | **If the project triggers the Pest Management and/or Physical Cultural Resources policies, the respective issues are to be addressed and disclosed as part of the Environmental Assessment/Audit/or EMP.** | | | | | | | | | | | | | | | | | | | |
|  | | **If in-country disclosure of any of the above documents is not expected, please explain why:** | | | | | | | | | | | | | | | | | | | |
|  | |  | | | | | | | | | | | | | | | | | | | |
| . | | | | | | | | | | | | | | | | | | | | | |
|  | | ***C. Compliance Monitoring Indicators at the Corporate Level*** | | | | | | | | | | | | | | | | | | | |
|  | | **OP/BP/GP 4.01 - Environment Assessment** | | | | | | | | | | | | | | | | | | | |
|  | | Does the project require a stand-alone EA (including EMP) report? | | | | | | | | | Yes | [ X ] | | | | No | | [ ] | | NA | [ ] |
|  | | **OP/BP 4.11 - Physical Cultural Resources** | | | | | | | | | | | | | | | | | | | |
|  | | Does the EA include adequate measures related to cultural property? | | | | | | | | | Yes | [ X ] | | | | No | | [ ] | | NA | [ ] |
|  | | Does the credit/loan incorporate mechanisms to mitigate the potential adverse impacts on cultural property? | | | | | | | | | Yes | [ X ] | | | | No | | [ ] | | NA | [ ] |
|  | | **OP/BP 4.10 - Indigenous Peoples** | | | | | | | | | | | | | | | | | | | |
|  | | Has a separate Indigenous Peoples Plan/Planning Framework (as appropriate) been prepared in consultation with affected Indigenous Peoples? | | | | | | | | | Yes | [ ] | | | | No | | [ ] | | NA | [ X] |
|  | | **OP/BP 4.12 - Involuntary Resettlement** | | | | | | | | | | | | | | | | | | | |
|  | | Has a resettlement plan/abbreviated plan/policy framework/process framework (as appropriate) is currently is being prepared? | | | | | | | | | Yes | [ X ] | | | | No | | [ ] | | NA | [ ] |
|  | | If yes, then did the Regional unit responsible for safeguards or Sector Manager review the plan? | | | | | | | | | Yes | [ X ] | | | | No | | [ ] | | NA | [ ] |
|  | | **The World Bank Policy on Disclosure of Information** | | | | | | | | | | | | | | | | | | | |
|  | | Have relevant safeguard policies documents been sent to the World Bank's Infoshop? | | | | | | | | | Yes | [ X ] | | | | No | | [ ] | | NA | [ ] |
|  | | Have relevant documents been disclosed in-country in a public place in a form and language that are understandable and accessible to project-affected groups and local NGOs? | | | | | | | | | Yes | [ X ] | | | | No | | [ ] | | NA | [ ] |
|  | | **All Safeguard Policies** | | | | | | | | | | | | | | | | | | | |
|  | | Have satisfactory calendar, budget and clear institutional responsibilities been prepared for the implementation of measures related to safeguard policies? | | | | | | | | | Yes | [ X ] | | | | No | | [ ] | | NA | [ ] |
|  | | Have costs related to safeguard policy measures been included in the project cost? | | | | | | | | | Yes | [ X ] | | | | No | | [ ] | | NA | [ ] |
|  | | Does the Monitoring and Evaluation system of the project include the monitoring of safeguard impacts and measures related to safeguard policies? | | | | | | | | | Yes | [ X ] | | | | No | | [ ] | | NA | [ ] |
|  | | Have satisfactory implementation arrangements been agreed with the borrower and the same been adequately reflected in the project legal documents? | | | | | | | | | Yes | [ X ] | | | | No | | [ ] | | NA | [ ] |
| . | | | | | | | | | | | | | | | | | | | | | |
| . | | | | | | | | | | | | | | | | | | | | | |
|  | | **III. APPROVALS** | | | | | | | | | | | | | | | | | | | |
| . | | | | | | | | | | | | | | | | | | | | | |
|  | | Task Team Leader: | | | | | Name: Denis Jean-Jacques Jordy | | | | | | | | | | | | | | |
|  | | Environmental Specialist Social Specialist | | | | | Ly Thi Dieu Vu  Ann Mc Lean | | | | | | | | | | | | | | |
|  | | Regional Safeguards Advisor: | | | | | Peter Leonard | | | | | | | | | | | | | | |
|  | | *Approved By:* | | | | | | | | | | | | | | | | | | | |
|  | | Sector Manager: | | | | | Name: Michel Kerf | | | | | Date: November 19, 2013 | | | | | | | | | |

1. Noting that there are eight volcanoes in Solomon Islands, of which four have been recently active [↑](#footnote-ref-1)