MAPPING SAMOAS PROTECTED AREA NETWORK

The use of available tools and technology to assist in environmental monitoring, reporting, planning and decision making.

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Division of Environment and Conservation
Ministry of Natural Resources and Environment
Outline

1. What's been done
2. Current situation
3. Challenges
4. What needs to be done
# 1. What has been done.

<table>
<thead>
<tr>
<th>Year</th>
<th>Study</th>
<th>Methodology</th>
<th>Outcome</th>
<th>Author</th>
</tr>
</thead>
<tbody>
<tr>
<td>2017</td>
<td>BIOBAMA workshop</td>
<td>GPS/GIS tool</td>
<td>TOR-PASC (draft) Initial mapping works for Reserves</td>
<td>MNRE and SPREP</td>
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<tr>
<td>2014/15</td>
<td>Mapping of catchment areas under rehabilitation programs</td>
<td>Ground truthing/QGIS</td>
<td>Map of rehabilitation catchment areas</td>
<td>WRD-MNRE</td>
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<td>2012</td>
<td>Mapping Marine Protected Area</td>
<td>GIS</td>
<td>Updated maps</td>
<td>MNRE/SPREP P/CI</td>
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<td>2010</td>
<td>Mapping Mangrove areas for Samoa – MESCL Project</td>
<td>Ground truthing,</td>
<td>Mangrove area maps</td>
<td>MESCL/MNRE/CI</td>
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<td>2008</td>
<td>Key Biodiversity Area (KBA) assessment for Samoa – MNRE and CI</td>
<td>GIS/ Literature review</td>
<td>KBA booklet Gap Analysis</td>
<td>MNRE and CI</td>
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<td>2004</td>
<td>Strengthening the Institutional Capacity of the Samoa Forestry</td>
<td>Aerial photo interpretation and</td>
<td>Samoa Forest SAMFRIS report and database</td>
<td>James Atherton /FAO</td>
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<td></td>
<td>Division to effectively plan and manage forest resources</td>
<td>ground truthing</td>
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<td>1993</td>
<td>A geographical-ecological model for landscape conservation development in Samoa</td>
<td>Aerial photographs, site visits, literature review</td>
<td>Report produced</td>
<td>Pearsall</td>
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<td>1991</td>
<td>Terrestrial ecosystem mapping for Samoa</td>
<td>Aerial photographs, site visits, literature review</td>
<td>Terrestrial ecosystem mapping for Samoa</td>
<td>Pearsall and Whistler</td>
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Samoa Terrestrial KBAs overlayed onto National Parks, Reserves, MPAs and Community Conservation Areas
Samoa Terrestrial National Parks, Reserves, Community CAs and Proposed Sites

<table>
<thead>
<tr>
<th>Name_of_site</th>
<th>Conservation_Type</th>
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<tbody>
<tr>
<td>Faleatupu CA</td>
<td>Community Conservation Area</td>
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<tr>
<td>Utulei CA</td>
<td>Community Conservation Area</td>
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<tr>
<td>O le Pupu Pue NP</td>
<td>National Park/Reserve</td>
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<tr>
<td>Faletau Catchment</td>
<td>Catchment Area</td>
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<tr>
<td>Vaisigano Catchment</td>
<td>Catchment Area</td>
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<tr>
<td>Fuluasapu Catchment</td>
<td>Catchment Area</td>
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<td>Faaleaesea Catchment</td>
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<td>Saleioloa Reserve</td>
<td>Proposed National Park/Reserve</td>
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<td>Mt Vaea Reserve</td>
<td>National Park/Reserve</td>
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<td>Mololoa Catchment</td>
<td>Catchment Area</td>
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<tr>
<td>Vaiola/Faleata Catchment</td>
<td>Catchment Area</td>
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</tbody>
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**Ecosystem**
(from Pearseall and Whitter 1991)
- Cloud forest
- Coastal forest
- Fernland
- Grassland
- Herbaceous Marsh
- Littoral forest
- Littoral scrub
- Lowland forest
- Mangrove forest
- Montane forest
- Ridge forest
- Swamp forest
- Secondary forest
- Volcanic succession
- Non-native forest
- Lake
- Disturbed coastal
- Disturbed herbaceous marsh
- Disturbed littoral forest
- Disturbed lowland forest
- Disturbed mangrove forest
- Disturbed Ridge forest
- Disturbed swamp forest
- Disturbed secondary forest

**Samoa Conservation Areas Legend**
- Protection Forest
- Community CA
- National Park
- Watershed Area
- Proposed Upland Savaii Area
- Coastline
Water Resource Management Areas
2. Current situation

- Completed national Protected Area Workshop for stakeholders
- Proposed establishment of National Protected Area Steering Committee – Draft TOR in place
- Training in using GPS to map important areas for management
- QGIS training for MNRE staff by SPREP
Team GPS training
3. Challenges

- Human resources
  - Limited number of staff
  - Capacity of staff to monitor and implement actions
- Funding availability
- Data and information management
4. What needs to be done

- Approve and establish National Protected Area Steering Committee
- Develop system for collation and validation of PA data and information.
- Proclamation for existing reserves to be legally protected
- Produce map for current PA not mapped
- Review and update existing maps for PA of Samoa
- Training for staff using GIS tools to monitor PA
- Implement recommendations from past survey/assessment reports above