**Implementation Status & Results**

**Adaptation to the Impact of Rapid Glacier Retreat in the Tropical Andes (P098248)**

**Operation Name:** Adaptation to the Impact of Rapid Glacier Retreat in the Tropical Andes (P098248)

**Product Line:** Global Environment Project

**Implementing Agency:** Secretaria General de la Comunidad Andina

**Global Environmental Objectives**

The broad development objective of the proposed project is to contribute to strengthening the resilience of local ecosystems and economies to the impacts of glacier retreat in the Tropical Andes, through the implementation of specific pilot adaptation activities that illustrate the costs and benefits of adaptation. The specific objectives of the project, in support of this broad objective, are: a) the effective integration of the implications of glacier retreat into the regional and local planning in glacierized basins; b) the inclusion of glacier retreat impacts in local, sector development projects; and c) generation of data on glacier dynamics.

**Has the Project Development Objective been changed since Board Approval of the Project?**

- Yes
- No

**Component(s)**

<table>
<thead>
<tr>
<th>Component Name</th>
<th>Component Cost</th>
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</thead>
<tbody>
<tr>
<td>Development of climate change scenarios and glacier-fed basin impact maps and models</td>
<td>0.32</td>
</tr>
<tr>
<td>Design and implementation of pilot adaptation measures</td>
<td>5.81</td>
</tr>
<tr>
<td>Monitoring of glacier retreat in the region</td>
<td>0.35</td>
</tr>
<tr>
<td>Project Management</td>
<td>0.70</td>
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<tr>
<td>Development of regional activities</td>
<td>0.75</td>
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</table>

**Overall Ratings**

<table>
<thead>
<tr>
<th>Overall Ratings</th>
<th>Previous Rating</th>
<th>Current Rating</th>
</tr>
</thead>
<tbody>
<tr>
<td>Progress towards achievement of GEO</td>
<td>Moderately Satisfactory</td>
<td>Moderately Satisfactory</td>
</tr>
<tr>
<td>Overall Implementation Progress (IP)</td>
<td>Moderately Satisfactory</td>
<td>Moderately Satisfactory</td>
</tr>
<tr>
<td>Overall Risk Rating</td>
<td>Moderate</td>
<td>Moderate</td>
</tr>
</tbody>
</table>

**Implementation Status Overview**
The project has been extended for one year. The current closing date is September 30, 2013.

During this period there has been steady progress in the three participating countries:

Bolivia. All pieces of equipment have been purchased and delivered. The implementation phase of two irrigation schemes, for Batallas and Palca is expected to begin before end of year. A consultancy to reduce water losses and improve EPSAS's capacity to increase water distribution efficiency is currently being implemented, and has already yielded positive results. Another key consultancy, aimed at identifying water supply options for La Paz and El Alto in the short-medium term to adapt to water shortages caused by climate change, has been contracted, and is being implemented. The glacier inventory is finalized, and, using ALOS satellite images, the inventory of high-mountain lagoons and paramos is currently being conducted. The third pilot project, "Mainstreaming Adaptive River Defence for Huayhuasi & El Palomar Settlements", has been finalized, and a closing workshop took place at the La Paz's Institute of Hydrology and Hydraulics on May 30.

If no unexpected situations take place (such as constant, negative weather conditions that would prevent working on irrigation systems), all project investments are expected to be finalized before the end of project closing date.

Ecuador. There has been substantial progress in this period. A process for the acquisition of meteorological monitoring equipment is well advanced. A small water supply and sanitation pilot system in Papallacta is expected to begin the construction phase before end of the year. Another key activity, related to paramo conservation and cattle management, is about to begin. The vulnerability assessment study for the Pita basin is ongoing, and its scope has been increased to also include natural protected areas in the Antisana. The design of an activity related to paramo restoration has been finalized.

Peru has seen the resignation of its National Technical Expert (the person who coordinated all activities in the country), and this might have created some slight delays. However, a new person has been hired and has started working. Most of the activities in Peru have been finalized (with some minor purchases of seedlings for reforestation activities in Shullcas still pending). The work being performed in Piura, related to paramo, is being conducted from two complementary angles: one for the modeling of paramo functions and climate change impacts, which is already being implemented; the other, on paramo monitoring, is expected to begin before end of the year.

A new technical coordinator has been hired. Her main attribution is to implement activities under the regional component. Workshops are being held amongst the various actors of the countries, and terms of reference to prepare documents on lessons learnt are finalized.

All eight high-mountain monitoring stations are installed and functioning properly.

### Locations

<table>
<thead>
<tr>
<th>Country</th>
<th>First Administrative Division</th>
<th>Location</th>
<th>Planned</th>
<th>Actual</th>
</tr>
</thead>
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<tr>
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<tr>
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<tr>
<td>Country</td>
<td>First Administrative Division</td>
<td>Location</td>
<td>Planned</td>
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<td>Altiplano</td>
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<td>Andean Countrie</td>
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<tr>
<td>Peru</td>
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<td>Huancayo</td>
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<tr>
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</table>

**Results**

**Global Environmental Objective Indicators**
<table>
<thead>
<tr>
<th>Indicator Name</th>
<th>Core</th>
<th>Unit of Measure</th>
<th>Baseline</th>
<th>Current</th>
<th>End Target</th>
</tr>
</thead>
<tbody>
<tr>
<td>Information/data on CC scenarios and glacier retreat contribute to the definition of local/ regional governments' adaptation strategies to CC and/or integrated water resources management plans.</td>
<td>Text</td>
<td></td>
<td>There are no climate change (CC) adaptation strategies or plans for the selected basins that incorporate the implications of CC or glacier retreat.</td>
<td>Project continues to deliver relevant information for adaptation strategies in the participating countries.</td>
<td>Development of at least one adaptation strategy/plan per country that incorporates the information generated by the project on the implications of CC and glacier retreat.</td>
</tr>
<tr>
<td>Date</td>
<td></td>
<td></td>
<td>15-Oct-2008</td>
<td>26-Sep-2012</td>
<td>30-Sep-2013</td>
</tr>
<tr>
<td>Comments</td>
<td></td>
<td></td>
<td>This indicator has been adjusted as per approved project restructuring.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Design and implementation of pilots generates lessons delivered to relevant institutions which could be incorporated into planning and implementation of public/private investment programs and projects.</td>
<td>Text</td>
<td></td>
<td>There is no systematization of lessons learnt from what could be considered adaptation activities.</td>
<td>On-going. An experienced technical coordinator has been hired, and activities are progressing as more results become available.</td>
<td>All adaptation investment activities implemented by the PRAA generate relevant information on adaptation which is collected and elaborated to be used as input in the planning and implementation of public/private investment programs and projects.</td>
</tr>
<tr>
<td>Date</td>
<td></td>
<td></td>
<td>15-Oct-2008</td>
<td>26-Sep-2012</td>
<td>30-Sep-2013</td>
</tr>
<tr>
<td>Comments</td>
<td></td>
<td></td>
<td>This indicator has been adjusted as per approved project restructuring.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Strengthened national meteorological services capacity to monitor glacier dynamic in Bolivia Ecuador and Peru.</td>
<td>Text</td>
<td></td>
<td>Limited availability of high-mountain meteorological stations (only those administered by the IRD of France). Limited availability of satellite images/data.</td>
<td>8 stations are fully operational. Meteorological equipment is being purchased in Ecuador. A new batch of ALOS images has been requested</td>
<td>Information on glacier behavior in the region is available and 8 high-mountain meteorological stations provide useful data for modeling, and for CC impact and glacier retreat studies in the selected basins. ALOS images have been processed.</td>
</tr>
<tr>
<td>Date</td>
<td></td>
<td></td>
<td>15-Oct-2008</td>
<td>26-Sep-2012</td>
<td>30-Sep-2013</td>
</tr>
<tr>
<td>Comments</td>
<td></td>
<td></td>
<td>This indicator has been adjusted as per approved project restructuring.</td>
<td></td>
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</tr>
</tbody>
</table>
### Increase in the national and local awareness of the impacts of rapid tropical glacier retreat as measured through mentions in written media of mass circulation.

<table>
<thead>
<tr>
<th>Date</th>
<th>Value</th>
<th>Comments</th>
</tr>
</thead>
<tbody>
<tr>
<td>15-Oct-2008</td>
<td>No mentions in written media.</td>
<td>Dissemination at different levels continues in all participating countries.</td>
</tr>
<tr>
<td>26-Sep-2012</td>
<td></td>
<td>At least 8 press articles in the local written media.</td>
</tr>
<tr>
<td>30-Sep-2013</td>
<td></td>
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</tr>
</tbody>
</table>

**Contribute to strengthening Andean region integration by supporting implementation of Andean Env Agenda, through generation of tools to assess impacts and design and implement adapt measures.**

<table>
<thead>
<tr>
<th>Date</th>
<th>Value</th>
<th>Comments</th>
</tr>
</thead>
<tbody>
<tr>
<td>15-Oct-2008</td>
<td>The Andean Environmental Agenda establishes the need to work on these topics at the sub-regional level, but this has not fully materialized.</td>
<td>The SGCA is fully engaged in the process of assessing project results and lessons learnt. Ongoing projects and strategies are generating useful information for the Andean region.</td>
</tr>
<tr>
<td>26-Sep-2012</td>
<td></td>
<td>The results of the different studies, and design and implementation of adaptation activities in all countries has been systematized. Good practices at the community, national and Andean sub-regional levels have been identified and disseminated in participating countries.</td>
</tr>
<tr>
<td>30-Sep-2013</td>
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### Intermediate Results Indicators

<table>
<thead>
<tr>
<th>Indicator Name</th>
<th>Core</th>
<th>Unit of Measure</th>
<th>Baseline</th>
<th>Current</th>
<th>End Target</th>
</tr>
</thead>
<tbody>
<tr>
<td>Number of water utilities that the project is supporting</td>
<td>☑</td>
<td>Number</td>
<td>0.00</td>
<td>3.00</td>
<td>3.00</td>
</tr>
<tr>
<td>Date</td>
<td>15-Oct-2008</td>
<td>26-Sep-2012</td>
<td>30-Sep-2013</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Comments</td>
<td>No water utilities supported by project</td>
<td>Achieved. EPMAPS in Ecuador, EPSAS in Bolivia, SEDAM in Huancayo (Peru).</td>
<td>At least 3 water utilities involved with project activities and supported by it.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Climate change scenarios developed using data from a high-resolution global circulation model (Earth Simulator, MRI Japan) in participating countries generating useful information for selected basins.</td>
<td>☐</td>
<td>Text</td>
<td>Availability of some scenarios based on other global circulation models with less resolution.</td>
<td>Peru and Ecuador finalized. Bolivia expected to finalize by end of the year.</td>
<td>The three countries have generated CC scenarios with MRI data for the selected basins. This constitutes an input for assessing CC impacts on water balances on those basins.</td>
</tr>
<tr>
<td>Date</td>
<td>15-Oct-2008</td>
<td>26-Sep-2012</td>
<td>30-Sep-2013</td>
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<tr>
<td>Comments</td>
<td>Indicator modified through project restructuring.</td>
<td></td>
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<tr>
<td>Topic</td>
<td>Text</td>
<td>Value</td>
<td>Date</td>
<td>Comments</td>
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</tr>
<tr>
<td>Generation of models and/or impact maps to the effects of climate</td>
<td></td>
<td>There are no impact maps due to the effects of CC and glacier retreat for the selected basins. Three countries generating different products, with different resolutions and time scales, that provide a measure of impacts at basin level.</td>
<td>15-Oct-2008</td>
<td>New indicator introduced through project restructuring.</td>
<td></td>
</tr>
<tr>
<td>change and glacier retreat in the selected basins in Bolivia,</td>
<td></td>
<td></td>
<td>26-Sep-2012</td>
<td>At least one model or impact map has been developed by each country.</td>
<td></td>
</tr>
<tr>
<td>Ecuador and Peru.</td>
<td></td>
<td></td>
<td>30-Sep-2013</td>
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</tr>
<tr>
<td>Participatory development at the regional/local level of CC adaptation</td>
<td></td>
<td>There are no CC adaptation strategies or plans for the selected basins. Also, the coordination among water users is very limited. Plans and strategies are being developed, and the draw on lessons from the different pilots in the three countries. As pilots are finalized, strategies will be more defined.</td>
<td>15-Oct-2008</td>
<td>New indicator introduced through project restructuring.</td>
<td></td>
</tr>
<tr>
<td>adaptation strategies and/or plans (e.g. integrated water management</td>
<td></td>
<td></td>
<td>26-Sep-2012</td>
<td>At least one strategy and/or plan has been developed for each participating country.</td>
<td></td>
</tr>
<tr>
<td>plan or zoning plan that considers CC and glacier retreat implications)</td>
<td></td>
<td></td>
<td>30-Sep-2013</td>
<td></td>
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</tr>
<tr>
<td>Sets of adaptation measures designed for the selected basins.</td>
<td></td>
<td>No adaptation activities have been designed in the selected basins. All adaptation measures in the three participating countries have been designed.</td>
<td>15-Oct-2008</td>
<td>Indicator unchanged, target value adjusted through project restructuring.</td>
<td></td>
</tr>
<tr>
<td>Implementation of adaptation activities to promote integrated water</td>
<td></td>
<td>No specific activities on fragile high-mountain ecosystems in Ecuador, which contribute to water regulation at the basin level, have been designed or implemented as an adaptation response to CC. Activities are ongoing. A pilot on small water supply and sanitation for El Tambo is in the final stage of procurement. A number of other activities in the Papallacta area are finalized or being finalized as planned.</td>
<td>15-Oct-2008</td>
<td>Indicator modified through project restructuring.</td>
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<tr>
<td>resources management in the selected basins in Ecuador.</td>
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<td>26-Sep-2012</td>
<td>At least one adaptation measure implemented under each pilot in Ecuador, with its own M&amp;E system.</td>
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<td>30-Sep-2013</td>
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<tr>
<td>Implementation of adapt activities to promote integrated water resources management, including demo activities for CC resilient agriculture in the selected basins (Sta Teresa, Shullcas) in Peru</td>
<td>15-Oct-2008</td>
<td>Indicator modified through project restructuring.</td>
<td>There is no water resources planning that considers the impact of glacier retreat in any of the two selected sub-basins, and limited knowledge on climate change resilient agriculture practices amongst local farmers. Infrastructure and works at the two basins is finalized. Technical assistance and demonstrations are ongoing. The end target value of the indicator has thus been achieved. At least one adaptation activity has been implemented and tested in each sub-basin under each pilot in Peru, with their own M&amp;E system. At least one of the activities includes demonstration pilot showcasing good agricultural practices and water efficiency.</td>
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<tr>
<td>Implementation of adaptation activities to promote integrated water resources management in the cities of La Paz and El Alto, and in the selected sub-basins in Batallas and Palca in Bolivia.</td>
<td>15-Oct-2008</td>
<td>Indicator modified through project restructuring.</td>
<td>Water distribution systems in La Paz and El Alto register unaccounted-for water (UFW) loses of more than 30%. There are no local level plans that include CC and glacier retreat considerations. The UFW consultancy is almost concluded. Two irrigation schemes in Batallas and Palca are in final stages of procurement. A proposal to reduce UFW and improve efficiency is delivered to EPSAS. At least one adaptation activity is implemented in Palca and one in Batallas, with their own M&amp;E system.</td>
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<tr>
<td>Increase knowledge about the economic implications of glacier retreat in the region.</td>
<td>15-Oct-2008</td>
<td>New indicator introduced through project restructuring.</td>
<td>There is no economic information about the impacts of rapid glacier retreat in the region. Colombia has concluded its study. Peru, Ecuador and Bolivia have agreed on a combination of in-country training and real examples of valuation of impacts caused by glacier retreat. TDRs are ready for the procurement phase. Studies on the economic impacts of glacier retreat have been finalized in all countries based on the methodology agreed by all.</td>
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<tr>
<td>Availability of a methodological guide to formulate baselines and adaptation measures in high-mountain ecosystems.</td>
<td>15-Oct-2008</td>
<td></td>
<td>There are several methodologies but none specifically designed for high-mountain ecosystems. This activity, led by a Swiss consortium, is proceeding, with some minor delays due to difficulties in finding consensus amongst participating countries. Methodological guide is available.</td>
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<tr>
<td>Comments</td>
<td>Text</td>
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<td>Date</td>
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</table>
| New indicator to reflect newly created comp. 5 through project restructuring. | Systematization and analysis of the different methodologies used for glacier monitoring in the Andean sub-region. | Each country applies its own methodology and generates data, but there is no exchange of information generated by the project among countries. | 15-Oct-2008 | At least one workshop to exchange know-how on CC scenarios development and glacier monitoring has taken place. A document that systematizes the experiences of Bolivia, Ecuador and Peru on this topic is also available.

Number of high-mountain meteo stations installed in glacier and high-mountain ecosystems, generating consistent data through time to monitor glacier evolution and meteo conditions in the basins. | | Limited availability of high-mountain meteorological data in the tropical Andes. | 26-Sep-2012 | 30-Sep-2013

Availability and use of satellite images and/or aerial photographs to characterize glacier surface, assess the dynamic of glaciers and high-mountain ecosystems in the 4 countries. | | ALOS images are not being used and very few photogrammetric analyses are being done to assess glacier behavior in the region. | 30-Sep-2013 | Each country has at least generated one study on glacier cover evolution, using ALOS images and/or aerial photos obtained by the Project.

Development of capacity to analyze and monitor high-mountain ecosystems’ (paramos) behavior to CC, in reference to the water cycle and their role in fixing carbon. | | There is no knowledge about the impacts of CC on paramos. | 15-Oct-2008 | The studies on the role of the paramos on the water and carbon cycle in Peru and Ecuador have been finalized. |
Systematization and analysis of the different adaptation processes applied in the different pilots financed by the project.

<table>
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<tr>
<th>Date</th>
<th>Comments</th>
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<tbody>
<tr>
<td>15-Oct-2008</td>
<td>New indicator to reflect newly created comp. 5 through project restructuring.</td>
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</tbody>
</table>

Dissemination among the communities, local governments involved, specialized institutions and other stakeholders of the participatory working experiences and results on the topic of adaptation to CC.

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<thead>
<tr>
<th>Date</th>
<th>Comments</th>
</tr>
</thead>
<tbody>
<tr>
<td>15-Oct-2008</td>
<td>Indicator modified through project restructuring.</td>
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</tbody>
</table>

### Data on Financial Performance (as of 11-Oct-2012)

#### Financial Agreement(s) Key Dates

<table>
<thead>
<tr>
<th>Project</th>
<th>Ln/Cr/Tf</th>
<th>Status</th>
<th>Approval Date</th>
<th>Signing Date</th>
<th>Effectiveness Date</th>
<th>Original Closing Date</th>
<th>Revised Closing Date</th>
</tr>
</thead>
</table>

#### Disbursements (in Millions)

<table>
<thead>
<tr>
<th>Project</th>
<th>Ln/Cr/Tf</th>
<th>Status</th>
<th>Currency</th>
<th>Original</th>
<th>Revised</th>
<th>Cancelled</th>
<th>Disbursed</th>
<th>Undisbursed</th>
<th>% Disbursed</th>
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</thead>
<tbody>
<tr>
<td>P098248</td>
<td>TF-56694</td>
<td>Closed</td>
<td>USD</td>
<td>0.59</td>
<td>0.58</td>
<td>0.01</td>
<td>0.58</td>
<td>0.00</td>
<td>100.00</td>
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<td>P098248</td>
<td>TF-90328</td>
<td>Effective</td>
<td>USD</td>
<td>0.87</td>
<td>0.87</td>
<td>0.00</td>
<td>0.70</td>
<td>0.16</td>
<td>81.00</td>
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<tr>
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<td>TF-91712</td>
<td>Effective</td>
<td>USD</td>
<td>7.49</td>
<td>7.94</td>
<td>0.00</td>
<td>3.93</td>
<td>4.01</td>
<td>50.00</td>
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</tbody>
</table>

**Disbursement Graph**
Key Decisions Regarding Implementation
The project has been extended until September 30, 2013.

Restructuring History
Level two Approved on 21-Mar-2012, Level two Approved on 03-Apr-2012

Related Projects
P119725-Adaptation to the Impact of Rapid Glacier Retreat in the Tropical Andes Additional Financing