

## Glacier San Rafael (Adventure on Kayak and Global Warming)

### Description

In 1675 MR Antonio de Veá observe a "... snowdrift that runs from the beach to inland..." which corresponds to a position that Alberto Aranedá in his publication "*Historical records of San Rafael glacier advances. . .*" *It is estimated to be close to the current position of the glacier.*

In 337 years between the first record and now, several other records exist, including the Simpsons and Steffen between 1871 and 1898 respectively indicate the limit of the glacier to 9kms away from his current position. Thanks to these historical records and most recently in the 1930 - 40 there are several drawings, maps and photography that allow us to follow the footsteps of some of these Scouts.

The goal of this expedition is to identify the precise places that they have visit and compare the now and before landscape and eventually recreate an historic map of the Laguna San Rafael

Kayak, this activity is designed in basic format class, for people without experience in kayaking or that have basic knowledge, who knows how to swim and who also want to project them as regular practican.

The principal objective is to contribute solid foundations, both technical and safety criteria with local professional guides with formation on outdoor leadership, certified in first aids in rugged areas WFR (wilderness first responder) certified by the American Canoe Association (ACA).

### Philosophies to be applied during this program:

**Learning Life Skills:** students will participate in activities that will allow them to dominate a new skill or gain greater experience in one who have practiced before.

**Leadership, Responsibility, Collaboration & Team Work:** Students will develop responsibility for their actions and leadership skills in dynamic activities, learning to defend their own ideas, to apply an empathic listen, to implement tactics for the resolution of individual and group conflicts, and learn to take risks in appropriate scenarios.

**Environmental Education:** Students will gain a bigger understanding of how our decisions affect the environment. Encourage the appreciation for protection and conservation of the environment, and impulse students to modify their habits and to be more Eco Friendly.

### Schedule

#### Day 1.

Reception of the group in Balmaceda or Coyhaique, transfer to Puerto Río Tranquilo. Accommodation and dinner at the Pudu Camping.

Presentation of the history of exploration in San Rafael Lagoon and coordination of the expedition.

Accommodation in camping El Pudú (Pto. Tranquilo).

**Educational component: Students will learn techniques of logistics in place, organization of food and camping equipment.**

**Day 2.**

Moving to Bahia exploradores, path valle Exploradores following the route of one of the protagonists of these historical expeditions – Juan Augusto Grosse. Lunch at Bahia Exploradores with local people and then way out to San Rafael. Transfer by boat to the Base Camp at Laguna San Rafael. First approach of the glacier.

**Educational component: Students will learn about geomorphology, shaping of fjords and evergreen forests and the colonization of the area of Bay explorers.**

**Day 3.**

This day will be dedicated to explore the surroundings of the glacier, the viewpoints and his current position in order to establish the most ancient and more recent boundaries of the glacier. Begins the kayak course - Group divided in to two, one practice Kayak and other group recognizes mirador trail.

**Educational component: Students will learn about glaciology, take samples and make measures to buy historical data with the present, analyzing the why and its consequences. As well learn basic techniques of kayak's cruise and logistics necessary for this kind of activities in extreme areas**

**Day 4.**

While a part of the Group continues with the kayak course, the other one will visit on boat the Ofqui, Southwest coast Beach, where the old camp where situate at the time of construction of the canal and visit on the South Bank to the path used by the first explorers who crossed the lagoon. Groups are exchanged to half a day.

**Educational component: Students will learn about ecosystems and biodiversity in the glaciers and surrounding coastal areas will continue to develop security and displacement in kayaking skills.**

**Day 5.**

Cross kayak of the whole group from Lake Caiquenes to the southern shore where there is a path that leads to a side of the glacier where you can directly observe the process of his own on the territory. There will be observation of amphibians.

**Educational component: Students will learn about the colonizing history of the San Rafael Lagoon National Park, as they also learn about first-aid techniques, extreme areas of minimal impact (LNT).**

**Day 6.**

Transfer from Laguna San Rafael to Glaciar exploradores reviewing on track other geographic milestone mentioned on the explorer records. Visit the viewpoint of the Galciar Exploradores before moving to Puerto Río Tranquilo. Dinner and overnight at Hostal El Puesto. Evaluation of the expedition and systematization of the information collected. Accommodation in cabins Valle Exploradores in Pto. Tranquillo or Hostal Costanera according to availability.

**Educational component: Students will learn about emblematic flora of the region, the effect of the settlers, above the ASPE (State wild protected area), management in Chile, present and future. As well as private conservation and local lifestyle initiatives.**



**Day 7.**

Visit marble chapel at General Carrera Lake, back to Balmaceda/Coyhaique

**Educational component: Students will learn about the geological formations of calcium present in the spectacular formations that emerge in the waters of Lake General Carrera, formations that are present in groundwater from San Rafael to the same Lake**