# Machu Picchu

## Division of Antarctic Affairs

62°05′49.6″S 58°28′23.4″W

**Type:** Station

**Operational period:**
October–March

## Location

Crepin Point, Mackellar Inlet, Admiralty Bay, King George Island, South Shetland Islands.

## Biodiversity and natural environment

Flora: Crustose lichens and mosses which grow directly on rock predominate. Birds: Brown skua and South polar skua (Stercorarius antarcticus, Stercorarius maccormicki and Catharacta chilensis), Antarctic tern (Sterna vittata). Mammals: Elephant seals (Mirounga leonina), Fur seals (Arctocephalus gazella) and Crabeater seal (Lobodon carcinophagus). Marine ecology: Variety of benthic species, including diatoms, foraminiferans, macroalgae, invertebrates and demersal fish.

## History and facilities

The station consists of eight metallic modules including two dormitories, one kitchen and canteen, a generator room, a scientific laboratory, a waste treatment building, an emergency room and one maintenance room.

## General research and databases

Research: Krill ecology, marine biodiversity, biotechnology, biological oceanography, geology, upper atmosphere, glaciology, hydrology, meteorology.

| CLIMATE | |
|---|---|
| Climate zone | Coastal Antarctica |
| Permafrost | None |
| Mean annual wind speed (km/h) | 25 |
| Max wind speed (km/h) | 133 |
| Dominant wind direction | SW |
| Sea Ice Break Up | |
| Snow free period | January |
| Total annual precipitation (mm) | |
| Precipitation type | Snow and Rain |
| Mean annual temperature (°C) | 2.1 |
| Mean temperature in February (°C) | 1.75 |
| Mean temperature in July (°C) | |
| **ENVIRONMENT** | |
| Region | Antarctic Peninsula |
| Antarctic Environmental Domain: G – Antarctic Peninsula offshore island geologic | |
| Antarctic Conservation Biogeographic Region: 3 North-west Antarctic Peninsula | |
| Altitude of facility (m) | 3.5 |
| Type of surface facility built on | |
| Long term monitoring | Yes |
| Waste management | Yes |
| Hazard(ous) management | No data |
| Fuel spill response capability | Yes |







| FACILITIES INFRASTRUCTURE | |
|---|---|
| Area under roof ($m^2$) | 872 |
| Area scientific laboratories ($m^2$) | 73.50 |
| Type of scientific laboratories: Biology, Geology | |
| Conference room (capacity) | |
| Logistic area ($m^2$) | |
| Number of beds | 30 |
| Showers | Yes |
| Laundry facilities | Yes |
| Power supply type | Fossil fuel |
| Power supply (V) | 220 |
| Power supply (hours per day) | 24 |
| Hydroponics facilities | No |
| Number of staff on station (peak/summer season) | 15 |
| Number of scientists on station (peak/summer season) | 15 |
| Number of staff on station (off peak/winter season) | |
| Number of scientists on station (off peak/winter season) | |
| Max number of personnel at a time (staff, scientists and others) | 30 |
| Specific device/Scientific equipment: | |
| Scientific services possible: | |
| Long-term monitoring/observations: | |
| **MEDICAL FACILITIES** | Yes |
| Area of medical facility ($m^2$) | 10 |
| Staff with basic medical training or doctor (Summer) | 1 |
| Staff with basic medical training or doctor (Winter) | |
| Capability: Basic | |
| Equipment: First Aid | |
| Distance to hospital (km) | |
| Closest emergency facility in Antarctica (km) | |
| Closest emergency facility external (km) | |
| Medical research capabilities | No |
| Medical screening requirements | Yes |
| **VEHICLES AT FACILITY** | |
| Sea transportation: Zodiac | |
| Land transportation: ATV | |
| **WORKSHOP FACILITIES** | |
| Mechanical, Wood workshop | |
| **COMMUNICATIONS** | |
| Internet, Satellite phone, VHF | |
| **TRANSPORT AND FREIGHT** | |
| Access | Air, Sea |
| Transport to facility: Ship, Zodiac. | |
| Number of airstrips | 0 |
| Length (m) of longest runway | |
| Width (m) of longest runway | |
| Number of flight visits per year | 0 |
| Period of flight visits per year: None | |
| Helipad | Yes |
| Number of ship visits per year | 2 |
| Period of ship visits per year: January, February | |
| Ship landing facilities: None | |

Photos: Peruvian Division of Antarctic Affairs

## Features in the facility area

Bird colonies, Glacier, Moraine.

## Main science disciplines

Climate change, Climatology, Ecology, Environmental sciences, Geodesy, Geology, Glaciology, Hydrology, Marine biology, Microbiology, Oceanography, Paleoecology, Pollution, Sedimentology, Terrestrial biology.