

# Transportation and Logistics



U.S. ANTARCTIC PROGRAM

Through various partnerships, USAP transports people and cargo to and from Antarctica, as well as throughout the continent.

## Population/Flights



**2,500 passengers** each year move between Christchurch and NSF McMurdo Station.



**~400 passengers each summer** move between NSF McMurdo Station and NSF South Pole.



**Winter flights** to/from NSF McMurdo Station occur each August (3-5 missions).

March-September is considered Winter and there are no planned flights in and out of the NSF South Pole during that time... and very few in/out of NSF McMurdo Station.



**Summer "season"** starts in October and runs through February each year.

## Traverse



**3 trips to South Pole** per summer season delivering about **140-170K gallons of fuel/trip**.

## Cargo



**Ice pier** is used for vessel operations at NSF McMurdo Station.



**2.5M lbs/year** between Christchurch and NSF McMurdo Station.



**1.8M lbs/year** of cargo moves via commercial air/commercial surface from Port Hueneme to Christchurch.



**Avg ~9M lbs/year** offloaded at NSF McMurdo Station.



**2 runways** are used for airlift at NSF McMurdo Station – Phoenix and Williams (ski aircraft only at Williams) airfields, Phoenix is maintained to be operational year-round, if needed.

## Fleet



**Globemaster C-17**



**LC-130**



**Traverse**



**Helicopter**



**Cargo Vessel**



**Fuel tanker**



**Fixed-wing aircraft**



**Research vessel**

## USAP Partners for Transportation & Logistics

1. U.S. Air Force (airlift)
2. U.S. Navy (stevedore operations)
3. U.S. Army (modular causeway if ice pier fails)
4. New Zealand Defense Force (ground distribution at NSF McMurdo Station, airport operations in Christchurch, and airlift and tanker support)
5. Italian Air Force (C-130 airlift support)
6. Antarctic Support Contract (Leidos)
7. Military Sealift Command (cargo and fuel delivery)
8. Air New Zealand (commercial Air Cargo to NZ)
9. Various commercial shipping operators (commercial Surface Cargo to NZ)
10. Kenn Borek Air (passenger and cargo services)
11. Pathfinder Aviation Antarctica (transport and research support)
12. U.S. Navy Naval Information Warfare Center (all weather forecasting and air traffic control)

