The Magnetic Field Surrounding the Tarantula Nebula

SOFIA 154 µm intensity (gray) and magnetic field direction (striations) superposed on an ESO/HAWK (1.021 µm; blue) and Ks (2.146 µm; red) image of 30 Doradus (the Tarantula Nebula). This low-metallicity, high-luminosity cluster is an excellent analog for a typical star-forming region in the early Universe. These data, along with polarization maps at 3 additional wavelengths, were immediately made available to the community as a Director’s Discretionary Time observation (taken in July 2018).

Find out more on SOFIA science from our New Zealand flights at: https://www.sofia.usra.edu/multimedia/science-results-archive/new-zealand-science-summaries

New Zealand Science Summaries | SOFIA Science Center
www.sofia.usra.edu

NASA’s Stratospheric Observatory for Infrared Astronomy (SOFIA) deploys to Christchurch, New Zealand, during the southern hemisphere’s winter months to take advantage of the long nights and especially cold, dry conditions in the stratosphere. Flying from Christchurch enables the observatory to study celestial objects not visible from SOFIA’s northern hemisphere base.
2019 will be the sixth mission deployment of SOFIA to Christchurch, New Zealand. On July 20, 2019, there are two significant anniversaries in milestones of human exploration which will be celebrated across New Zealand.

1. The 100th anniversary of the birth of Sir Edmund Hillary, the first man to reach the summit of Mt. Everest.

2. The 50th anniversary of the first human landing on the moon, NASA’s Apollo 11.

Some other interesting anniversaries in 2019:
- Founding of Armstrong Flight Research Center (1949).
- D-Day Invasion of Normandy (1944).
- Founding of Ames Research Center (1939).
- Founding of GE Aviation (1919).
- First circumnavigation of the Globe (1519).
# Table of Contents

1. **Mission Schedule** ................................................................. 1

2. **Arrival & Immigration - NZ** ............................................... 3

3. **Airport Access & Flight Line Operations** .......................... 5

4. **US Antarctic Center Facilities** ........................................... 7
   - Building 52 ................................................................. 7
   - Building 46 ................................................................. 8
   - Parking ................................................................. 9
   - Power .................................................................. 10

5. **Contact List** .................................................................... 11

6. **Communication** ................................................................ 12
   - In Case of Emergency .................................................... 12
   - Medical Process ........................................................ 12
   - Mission Briefings ....................................................... 12
   - Phones/Calling in New Zealand ..................................... 12
   - Text Messaging ......................................................... 12
   - IT .......................................................................... 13

7. **Medical & Health** .............................................................. 14

8. **Ground Transportation** ................................................... 16

9. **Money/Currency Exchange** ............................................. 17

10. **Hotels** ........................................................................ 18

11. **Restaurants** .................................................................. 23

12. **Grocery Stores/Laundry** .................................................. 26

13. **Things to do - the Local Area** ........................................ 27

14. **Weather** ...................................................................... 28

15. **Emergency Information and Instructions** ....................... 29

**Appendix A:** NZ Visa Application Process ....................... 37

**Appendix B:** Flightline Access Approval Letter ............... 39

**Appendix C:** Driving in New Zealand ................................. 41
1. Mission Schedule

Transit Schedule

**Palmdale to Christchurch (May 29)**

Everyone that will be flying on the aircraft will need to arrive at 7:00 pm with their baggage. SOFIA is scheduled to arrive in Christchurch at 11:30 am local time. The aircraft will arrive into the main terminal in the Christchurch International Airport and use the jet bridge for exiting the aircraft.

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<tr>
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<tr>
<td>Depart KPMD       2100L/0400Z - May 29th</td>
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<tr>
<td>Arrive PHNL       2315L/0915Z - May 29th</td>
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<tr>
<td>Depart PHNL       0330L/1330Z - May 30th</td>
</tr>
<tr>
<td>Arrive NZCH       1130L/2330Z - May 31st</td>
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**Christchurch to Palmdale**

Arrival time into Palmdale is 12:00 pm local time on July 29th. Prior to arrival in Palmdale, we will arrive in HNL to clear Customs.

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<tr>
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<tr>
<td>Depart PHNL       0400L/1400Z</td>
</tr>
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<td>Arrive KPMD       1200L/1900Z - July 29th</td>
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KPMD (Zulu -7)
PHNL (Zulu -10)
NZCH (Zulu +12)
### Operations Schedule

**1. Mission Schedule**

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<td>Arrive CHC</td>
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Arrival & Immigration - NZ

If you are flying on SOFIA, New Zealand passenger arrival cards will be available on board. The process for arrivals and departures onboard SOFIA is straightforward; SOFIA will arrive at the International Terminal, everyone onboard will exit the aircraft via the air bridge in the same manner as a commercial flight. Everyone must clear customs in the same manner as if flying into the country commercially. Luggage will be unloaded by SOFIA personnel and sent to a designated carousel in the baggage claim area. Only team members flying on SOFIA are allowed to have personal baggage on the aircraft (i.e., no unaccompanied baggage).

New Zealand is VERY particular regarding declaration of incoming goods and agricultural products. Sporting and recreational equipment, especially footwear, must be spotlessly clean, with no indication of soil or other debris. You can be fined on the spot, and can have your goods confiscated, if you fail to comply.

For more information, see New Zealand Ministry for Primary Industries: https://www.mpi.govt.nz/travel-and-recreation/arriving-in-new-zealand

This year, all personnel will be required to obtain work visas prior to their arrival in NZ. See Appendix A for instructions on how to apply. These visas will be valid for three (3) years.

For those personnel traveling to New Zealand by commercial air and returning on SOFIA, NASA will provide a “one-way” immigration letter, which would allow a one-way commercial air ticket entry (or exit) to the country.

This year, SOFIA will not be providing a separate luggage shipment. Travelers can be reimbursed for excess baggage fees as a travel expense. For those traveling on SOFIA, you are allowed two bags up to 75 lbs each, plus a personal/computer bag.
3. Airport Access & Flight Line Operations

There are three areas that we will be using while in Christchurch. They are: (1) the outside area that is fenced-off property of the US Antarctic (USAP) program, (2) the buildings inside this area (Buildings 46 and 52), and (3) the ramp area.

Outside Area and Access

It is mandatory to have a NASA badge. This is your access to work and you will not be allowed access to the facilities or flight line without it. Orchard Road and the ramp divide the USAP outside area and are fully gated with access provided by guards at gate 3. For our operations, there is only one guard shack staffed around the clock. For access to the locked security-coded gates, we will get a passcode. The guards will have a list of deployment staff and will accept the NASA badges from Civil Servants, Contractors, DLR, DSI, and the instrument team members. There is also a cryogen storage here, as well as rental car parking. (See p. 6.)

Buildings

There are two buildings that we will have access to, Building 52 and Building 46 (see map page 6). There we have space for offices, labs, and meeting rooms. There is also a large meeting room at the USAP Building that can be used for crew briefs and all-hands meetings. Throughout the facilities there are U.S.-style outlets, some are 117V 50Hz and some are 117V 60Hz. The network connectivity consists of a 100 Mbps data pipe supplied by New Zealand Telecom, and we will have secure wireless within buildings 46 and 52.

Ramp Access

There is a gate that separates the USAP facilities from the airport ramp. To gain access, we need our badges and a reflective safety vest.

You MUST be wearing a reflective vest at all times while on the flight line.

Do not wander around on the ramp. You should be on the ramp only to go directly to and from the aircraft. Cross to the aircraft from B-46, the shortest, direct route.

No bicycles are allowed on the ramp. Smoking is not permitted anywhere on the ramp.

Please familiarize yourself with the Flightline Access Approval letter in Appendix B.

Please use hearing protection while on the ramp and around the aircraft as appropriate.

Rules governing access are:

1. SOFIA Crew must display their personal NASA ID cards at all times when entering the Antarctic Program operational areas and tarmac areas of the aerodrome.

2. SOFIA Crew must not move into or walk through the Security Enhanced Area of any other building, tarmac area, or sterile area of Christchurch International Airport, unless fully escorted at all times by a full airport identity card holder; and only then for the purpose of their specific work.
3. We can only enter the security area of the aerodrome via The Antarctic Program’s gate and hangar for the purposes of our duties as outlined in NZ Civil Aviation Rule (CAR) Part 19.357.

### Vehicle Access to the Antarctic Ramp

While SOFIA personnel are exempt from the airport’s driver training and licensing program, there are imposed limits to vehicle operations on the ramp by SOFIA personnel, as follows:

- Only personnel who hold an equivalent, and current, airside driver status at their home base airfield are permitted to drive on the ramp.
- Before any SOFIA participant can operate a vehicle on the ramp, they must complete training provided via the USAP Mission Manager’s office.
- Rental vehicles are not permitted on the ramp.

### Air Cargo Yard Access

Access to the Air Cargo Yard (ACY) is limited to SOFIA personnel collecting or delivering cargo or accessing equipment/cryogens stored in the facility. Authorized personnel may enter the ACY via the side gate (behind the Guard Port-a-Com) or via Gate 1 Orchard Road. Hi-Viz vests must be worn at all times, and personnel must be aware that heavy equipment may be operating at any time.

### Visitors

All visitors must be in possession of a photo ID and must enter the USAP facility via Gate 3. A member of the SOFIA deployment must accompany visitors at all times. Aircraft Tours or any visit beyond the bounds of the USAP facility (e.g., onto the ramp) must be coordinated with the Mission Management office and Public Affairs in advance.

No visitors from Designated Countries are allowed.

### Cold Weather Operations

Deicing fluids are prohibited from use on SOFIA. **SOFIA + SNOW = NO GO**

Based on accounts from the USAP staff, any snow that accumulates melts away by the afternoon. The airport does not have snow removal equipment, so if a heavy snowfall occurs, they will close the airfield.

Note: The cabin aircraft temperature must remain at 5°C (41°F) or above, and needs to be heated above the Dew Point during SI swaps.
All NASA badged personnel require escorts prior to entering the taxiway (beyond dashed line).
4. U.S. Antarctic Center Facilities

Building 52

A  Mission Managers
B  Flight Crew
C  SI Lab
D  M + E
E  MOPS
F  Project Science + VIPs
G  PAO
H  IT + SIL
I  SI Teams – GREAT, FORCAST, HAWC+, GOs
P  Printer

DSI CONEX #1

DSI CONEX #2

Mission Operations Conf. Room
SI Equipment & Work Area
DSI Equipment & Work Area
Building 46 Hangar

A Ops Engr + Logistics
B Maintenance & Avionics
C IT
D Mission Systems, Quality, & Safety
P Printer
Parking

Please note available parking areas at the Antarctic Center. Everybody parking in the primary and secondary areas must enter through the security gate. To get to the primary parking area, make an immediate left turn to the marked zones. To get to the secondary area, make a right turn around the security building. Only a few cars can fit into the secondary parking area. If you park across the street, you must park in as space marked “USAP ONLY” (see photo).

**DO NOT** park in front of dumpsters, doors, or the fueling area next to the ramp entry gate by Bldg-52.

- **Primary Parking** – enter security gate, turn left, and park near building 52.
- **Secondary Parking** – enter security gate, turn right, and park inside along the security fence but not on the concrete slab.
- **Overflow Parking** – park only in U.S. Antarctic Program spots.
4. U.S. Antactic Center Facilities

**Power**

The USAP facilities use U.S.-style electrical outlets, and provide 117 volts, 50 Hz & 60 Hz unconditioned power. Science teams may want to consider bringing their own power conditioners and UPSs as appropriate.

In other places, electrical plugs supply 230 volts, 50 Hz, and they use an angled two-pin or three-pin plug, the same as in Australia (see photo). Note that the outlets are typically switched off, and must be manually turned on.
# Contact List

<table>
<thead>
<tr>
<th>NAME</th>
<th>POSITION</th>
<th>AFFILIATION</th>
<th>EMAIL</th>
<th>CELL PH</th>
<th>NOTES</th>
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</tr>
<tr>
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<td>650-495-5514</td>
<td>May 26 - June 15</td>
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<tr>
<td>Mike Thomson</td>
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</tr>
<tr>
<td>Mike Gaunce</td>
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<tr>
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<tr>
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<tr>
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<td>650-224-1781</td>
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<td>July 14 - July 22</td>
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<tr>
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</tr>
<tr>
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<tr>
<td>Oliver Zeile</td>
<td>DSI Telescope Engr Lead</td>
<td>DSI</td>
<td><a href="mailto:zeile@dsi.uni-stuttgart.de">zeile@dsi.uni-stuttgart.de</a></td>
<td>661-225-7804</td>
<td></td>
</tr>
</tbody>
</table>
6. Communication

Communications

Emergency Information

In case of an emergency in New Zealand dial 1-1-1 (cell phone).
Dial 1-111 from the office.
Report any emergencies in which you are involved to your NASA/Contractor on-site lead. Refer to section 15.

Mission Briefings

We plan to operate nominally in NZ. We will have preflight briefings before every flight and only hold post flight briefings if a situation warrants one. Preflight briefings will be held in Building 52 Mission Ops Conference Room (see p. 7). Daily timelines will be published and delivered to the team via email.

Dedicated Phone Lines

There will be a dedicated VOIP (Ooma) phones in both buildings, plus the conference room, and the Pilot/Navigator Area in Bldg. 52, where you can call back to the United States without incurring long distance charges.

Calling in New Zealand

To call New Zealand from a U.S. cell phone dial:
011 + 64 + single digit area code + 7 digit phone number
To call New Zealand from a New Zealand cell phone dial:
02 + single digit area code + 7 digit phone number
To call New Zealand from a New Zealand land line dial:
0 + single digit area code + 7 digit phone number
(The city code for Christchurch is “3”.)

Text Messaging

We will have an SMS mass text capability again this year. Important mission changes will be sent to all cell phones with updated information.
6. Communication Plans

IT

- Secure wireless access points have been placed around buildings 46 & 52 to give sufficient coverage. Our network connectivity consists of a 100 Mbps data pipe supplied by New Zealand Telecom.

  Wireless SSID: **SOFIA WIRELESS**

  Wireless Password: ________________

- There will be two multi function printers, one in each building. (See map on pages 7 - 8 for exact locations.)

<table>
<thead>
<tr>
<th>IP ADDRESS</th>
<th>SPACE</th>
<th>SPACE</th>
</tr>
</thead>
<tbody>
<tr>
<td>192.168.31.248</td>
<td>Bldg 46 Maint office</td>
<td>Multi Function</td>
</tr>
<tr>
<td>192.168.31.249</td>
<td>Bldg 52 SI-Teams office</td>
<td>Multi Function</td>
</tr>
</tbody>
</table>
Medical Process

While at the airport, for non-emergency situations, medical services require a referral for non-life threatening emergencies. In these situations, we can meet with the on-site nurse who can then refer an individual to a medical facility. (Leeann Stringer, Cell #: +64 27 471 4282). Please refer to Section 15 for additional information.

Hospitals

Christchurch Hospital
Riccarton Avenue (approximately 5.5 miles from the airport)
Has on-site pharmacy (Parkside).

http://www.cdhb.health.nz/Hospitals-Services/hospitals/Christchurch-Hospital

For a general practice & urgent care clinic: Moorhouse Medical Centre, 3 Pilgrim Place, Christchurch. Phone: +64 3 365 7900. Cost per visit is $110 - $140 NZD, and they have a pharmacy on site. Open 8am - 8pm, 7 days a week.

http://www.moorhousemedical.co.nz.

Pharmacies

Unichem Spitfire Square Pharmacy
14/544 Memorial Ave
Mon-Sat, 9-6, Sun 10-5
+64 3-358 6266

Urgent Pharmacy (near downtown)
931 Colombo Street
Mon-Sun, 9am - 11pm
+64 3-366 4439

Unichem Cashel Pharmacy
111 Cashel Street,
Central City
Mon-Fri 8am-6pm
Sat 9am-5pm
Sun 10am-5pm
+64 3 595 1289

Taking Care of Yourself and Others

Being in a different local environment, adjusting to time changes, and being in close working quarters with people, increases the chance you may get sick. Colds, flus, and other upper respiratory infections are common during the winter months. You need to take care of yourself so that you or others don’t get ill, an additional burden to getting your job done. Generous and frequent use of hand sanitizer is STRONGLY RECOMMENDED.
**Other good health practices:**

- Cover your mouth and nose when you sneeze/cough.
- Wash hands frequently (and use hand sanitizer).
- Get plenty of sleep. Sleep deprivation is interpreted by the body as a stress, and in response the body kicks out catecholamines (acute stress hormones) and glucocorticoids (chronic stress hormones), the latter of which dramatically suppress the immune system and one’s ability to fight viral attack.
- Get plenty of (non-alcoholic) fluids. Lymphocytes and other cells of the immune system must migrate through a wet membrane environment to respond to viral markers; when one is dehydrated, the cells do not migrate as well.
- Use of decongestants and antihistamines (especially non-sedating antihistamines) can be helpful in reducing symptoms like coughing and sneezing, and can reduce the transmission of viruses.

**Flu Shots**

A limited number of flu shots will be available from a USAP-provided physician upon arrival.

It is recommended to have a southern hemisphere influenza vaccine dose, even if you have had a northern hemisphere vaccine just before arrival in NZ. People should allow up to 2 weeks to respond to the influenza strains in their southern hemisphere vaccine. Note that some vaccines are produced using egg products; if you are allergic to eggs, you should inform the medical folks there before getting the shot.

In addition, there are vaccinating pharmacies in Christchurch, where the influenza vaccine can be purchased. The “Influenza” website for health professionals, www.influenza.org.nz, has a list of participating pharmacies.

**Additional info:**


**Employee Assistance Program**

Both AFRC and ARC have Employee Assistance Programs, which are available to civil servants, contractors, and their families, even while on deployment. Services are free & confidential.

NASA provides an Agency-wide, 24-hour EAP service to all civil servant and contractor employees. If you need to speak with a mental health counselor during non-business hours, call (888) 728-1404.

**Center Contact:**

AFRC:
Ashley Prueitt,
(661) 276-2034
ashley.d.prueitt@nasa.gov

ARC:
CONCERN-EAP
(800) 344-4222
www.concern-eap.com
8. Ground Transportation

**Buses**

Regular bus service (Metro) connects the airport to the city center and other locations in Christchurch. There are three bus lines that go to the airport: Purple, 29, and 125. Route 125 also passes the Antarctic Center.

You can buy your tickets from the driver. Tickets to the airport cost $8.50 NZD (about $6 USD) one way or $15 return. Both buses depart from outside the far end of the international arrivals terminal. However, if you catch the bus from Memorial Drive or the Antarctic Center, the cash fare is less than half from the airport terminal ($4). A ‘Metrocard’ is also available, which is a stored-cash value card, and can be used on any bus or ferry in the Christchurch area. A one-way fare using the Metrocard is $2.55.

The main bus terminal (Interchange) is located downtown at the corner of Lichfield and Colombo streets.

Web site: [www.metroinfo.co.nz](http://www.metroinfo.co.nz)

Phone: [+64 03 366 8855](tel:+64%2003%20366%208855)

**Rental Cars**

SNAP is the preferred rental provider. Their rate is $23USD/day, including full coverage insurance.

**Snap Rentals Limited**

578 Wairakei Road | Harewood | Christchurch | 8053 | New Zealand

Mobile: [+64 21 827 781](tel:+64%2021%20827%20781)

Reservations: [0800 288 699](tel:0800%20288%20699)

Web: [www.snaprentals.co.nz](http://www.snaprentals.co.nz)

Email: patrick@snaprentals.co.nz

**Ride Sharing**

Uber is available in Christchurch, plus Zoomy (NZ) and Ola (India).
9. Money/Currency Exchange

Currency Exchange

1.00 USD = 1.50 NZD as of 4/29/19

ATMs/Credit cards

ATMs are plentiful at the airport and around the city. Using a bank ATM to get cash will usually get you the best exchange rate between USD and NZD. Currency exchanges have worse rates and charge commissions, and are therefore a less desirable way to get local cash. Note: some card readers may not accept the new “smart” credit or debit cards without the gold chip.

Major U.S. cards are readily accepted. You may want to get and use a credit card that does not charge “International Transaction Fees”, typically 1%.

It is also a good idea to notify your credit card company of the dates and location of your travel. You may want to notify your bank for your debit card usage as well.

Banks

Banks are typically open **M-F 9:00 am to 4:30 pm.**

Major banks are ANZ, Kiwibank, BNZ, and Westpac. ANZ, ASB, and BNZ have ATMs in the airport terminal.

Tipping

Tipping is not customary or required in New Zealand. For great service, you may want to give a nominal gratuity (<10%).
1. Airport Gateway Motor Lodge

**DESCRIPTION:**
Located two kilometers from Christchurch Airport and a 10 minute drive from the city, the Airport Gateway is close to not one, but six golf courses and a variety of sports facilities. The motor lodge provides modern accommodations for business or pleasure, and has a selection of self-contained one and two bedroom apartments, studios, and executive suites.

**LOCATION:**
45 Roydvale Avenue, Christchurch 8005

**CONTACT:**
Tel: +64 3 358 7093  |  Fax: +64 3 358 3654
http://www.airportgateay.co.nz/

2. Best Western Fino

**DESCRIPTION:**
Fully-equipped 1 and 2 BR suites, with laundry, 48” HDTV, free ultra high speed internet. On-site parking. Platter Restaurant open for breakfast 7:00-10:30 am daily. One-half block from Victoria Street restaurants, and two blocks from city center.

**LOCATION:**
87 Kilmore St, Christchurch 8013

**CONTACT:**
Tel: +64 3 355 0050  |  http://fino.nz

3. Chateau on the Park - Doubletree

**DESCRIPTION:**
A 5-acre property 2.9km from the city, near Botanic Gardens and Riccarton Mall. Restaurant on site, plus heated pool and fitness room. Rooms have a mini fridge, but no kitchen or laundry. Became a Hilton Doubletree property in 2016 (so they have the warm cookies).

**LOCATION:**
189 Deans Avenue, Riccarton Christchurch 8001

**CONTACT:**
Tel: +64 3 348 8999  |  Fax: +64 3 348 8990
4. Commodore Airport Hotel

**DESCRIPTION:**
The Commodore is close to both the international and domestic air terminals, the Antarctic Centre, several golf courses (Russley Golf Course is within walking distance) and is no more than 15 minutes from the city center. Located on picturesque Memorial Avenue and within its own garden setting, the Commodore is a good place to relax and enjoy being pampered. It is a popular venue for local diners and corporate functions and dinners. Check website for additional information.

**CONTACT:**
Tel: +64 3 358 8129  |  Fax: +64 3 358 2231
http://www.commodore.net.nz/

**LOCATION:**
449 Memorial Avenue
Christchurch 8053

5. Crowne Plaza

**DESCRIPTION:**
One of the newest hotels in downtown Christchurch, this business class hotel has lots of great features; rooms include free wifi and parking, in-room refrigerator, and there is an on-site fitness center. Breakfast buffet is $15 NZD. Higher floor rooms have excellent views of Christchurch and Canterbury region. Hotel will provide microwave for stays of 30 days or more. Free parking for stays more than 14 days.

**CONTACT:**
Tel: +64 3-741 2800

**LOCATION:**
764 Colombo St,
Christchurch 8011

6. Heritage Christchurch

**DESCRIPTION:**
Located in the Old Government Building (national historic site) in the heart of downtown, hotel has apartment-style rooms, with an on-site restaurant, health club, lap pool, Jacuzzi, and sauna. Weekly parking for $100 NZD per week.

**CONTACT:**
Tel: +64 3 983 4800  |  Fax: +64 3 377 9881
http://www.heritagehotels.co.nz/hotels/heritage-christchurch

**LOCATION:**
28 - 30 Cathedral Square
Christchurch 8011
### 7. Pavilions Hotel

**DESCRIPTION:**
At the edge of the Central Business District, this modern hotel is a 12-minute walk from Christchurch Casino and 2 km from the Cardboard Cathedral. Rooms feature limited free Wi-Fi, flat-screens, and tea and coffeemakers. Studios add kitchenettes and/or whirlpool baths, while 1- and 2-bedroom suites have full kitchens. Room service is available 24/7; there's no air-conditioning. There's a casual restaurant/bar and a fitness room, as well as an outdoor pool, a hot tub and complimentary parking. The hotel also has extended-stay cottages.

**CONTACT:** Tel: +64 3-355 5633  
http://www.pavilionshotel.co.nz/

**LOCATION:**  
42 Papanui Rd, Merivale, Christchurch 8014

### 8. Peppers Clearwater Resort

**DESCRIPTION:**
Much nicer than other airport-hotel options, Clearwater has the advantage of a rural situation, not to mention its 18-hole international golfing resort facilities -- and all for a very pleasing price. Set amid 186 hectares (465 acres) of greenery, golf courses, and trout-filled lakes, it's a short drive to the airport. Rooms are modern, chic, individual, and beautifully cantilevered out over the water. The hotel rooms and suites are a great value, and the eight larger terrace apartments are perfect for long stays, sharing with friends, or families. It opened in 2003 and construction on future facilities -- including a swimming pool and health spa -- are still underway.

**CONTACT:** Tel: +64 3 360 1009  
Fax: (03) 360 1001  
Email: clearwater@peppers.co.nz/  
http://www.clearwatergolf.co.nz/

**LOCATION:**  
Clearwater Avenue  
Northwood, Christchurch 8051
9. Quest Christchurch Apartment Hotel

**DESCRIPTION:**

Apartment style accommodation offers guests an alternative to traditional motel or hotel accommodation in the Christchurch region. One bedroom, two bedroom and three bedroom apartments provide fully equipped kitchen, private laundry and a spacious living room.

**LOCATION:**
Cathedral Junction, 113 Worcester Street
Christchurch, 8011
New Zealand

**CONTACT:**
Tel: +64 3 222 2003  Fax: +64 3 222 2004
http://www.questapartments.co.nz/Accommodation/158/New_Zealand/Christchurch_CBD/Quest_Christchurch/

10. Ramada

**DESCRIPTION:**

Studio apartments with en-suite bathroom, full kitchen and laundry. Free Wifi access, SKY TV, on site cafe, and free parking. Several restaurants and grocery store nearby.

**LOCATION:**
264 Tuam Street
Christchurch 8011

**CONTACT:**
Tel: +64 39 290267  Fax: +64 33 650042
http://www.ramadachristchurch.co.nz
Map of Hotels
General advice: Christchurch has great Indian, Thai, and lamb. Don’t waste your time on Mexican; you’ll be disappointed.

NEAR THE AIRPORT

The Antarctic Café
Located across the street from the U.S. Antarctic Center, has sandwiches & baked goods, and is open daily from 8:00 am – 5:00 pm. Show your NASA badge for a discount of 20% on food. http://www.iceberg.co.nz

Café Raeward
Café Raeward, in the Raeward Fresh Market, 800 Harewood Rd, is open Monday – Friday, 7:00 am – 4:00 pm, Weekends, 8:00 am – 4:00 pm. http://raewardfresh.co.nz/cafe.php

Copenhagen
409 Harewood Road, Bishopdale. Great coffee, pastries, lunch. Open 7:00 am - 4:30 pm daily. http://www.copenhagenbakery.co.nz

Merrin Street Brewery Bar
Avonhead Mall, 210 Withells Road, Avonhead. Great for B, L, or D. Daily specials. Open 9:30 am until late daily. http://www.monteithsmerrin.co.nz/about

Good Thai Restaurant
Located at 166 Kendal Ave, off Memorial Ave near the Commodore Hotel, has excellent, fresh Thai food. https://www.facebook.com/GOODTHAI166

Spitfire Square
Located on Memorial Ave behind the Sudima, has a Subway, as well as Indian, Mexican, Japanese, and a burger restaurant. The Coffee Club had great breakfasts and lunches. http://www.christchurchairport.co.nz/en/shop-eat-and-play/spitfire-square/
11. Restaurants

**DOWNTOWN**

**Belgian Beer Cafe Torenhof**

**Coriander’s Indian Restaurant**
222 St Asaph St, Christchurch Central. Hours: 12–2PM, 5–10:30PM. http://corianders.co.nz

**Curator’s House**
7 Rolleston Avenue, next to Botanic Gardens. Spanish tapas and paella, excellent roasted lamb. Open 7 days/week for lunch & dinner. http://www.curatorshouse.co.nz

**Lotus Heart**

**Pomeroy’s Inn**
292 Kilmore St. British/NZ inn, simple but well-prepared comfort food. http://pomspub.co.nz

**Sal’s Authentic New York Pizza**
A thoroughly competent New York Style Pizza in the middle of the south Pacific, the only thing that would make this more authentic would be DeBlasio eating slice in the corner with a knife and fork. 146 Lichfield St, Christchurch. http://www.sals.co.nz/pizzerias.php#store=5

**Uncommon**
262 Tuam Street, next to Ramada. Excellent breakfast and coffee. Open 7:00 am - 3:00 pm daily. https://www.facebook.com/uncommonchch/

**Venuti**

**Winnie Bagoes**
11. Restaurants

PAPANUI/MERIVALE

1. **Brazil BBQ**
   A good churrasco on restaurant row on Papanui. Reservations recommended.
   505 Papanui Rd, Papanui, Christchurch 8053, New Zealand
   http://www.bbqbrazil.co.nz

2. **Keo Thai Restaurant**
   Carlton Court 13-14/4 Papanui Rd. Authentic Esaan Thai cuisine. Open every day from 5:00 pm.
   http://keothai.co.nz

3. **Little India**
   150 Aikmans Road. Extensive menu, North Indian style, very good quality. Open 7 days, lunch 11:30-2:00, dinner from 5:00 pm. https://www.littleindia.co.nz/christchurch-merivale

4. **Pedro’s House of Lamb**
   (Takeaway only). 17b Papanui Road. People say it's the best lamb in Christchurch. Open every day 4:00 pm - 8:00 pm. https://www.pedros.co.nz

5. **Pfuket Thai Restaurant**
   513 Papanui Road, Authentic Thai, extensive menu. http://phuketthai.co.nz

6. **Sun Dog Diner**
   Casual, American style diner with an excellent, hearty breakfast menu. Open 8:00am – 9:00pm Tuesday to Sunday. Closed Mondays. 2 Papanui Road, Merivale, 8014
   https://www.sundogdiner.co.nz/

7. **Tutto Bene**
   192 Papanui Road, opposite Merivale Mall. Authentic and affordable Italian.
   http://www.tutobene.co.nz

RICCARTON

1. **Dimitris Greek Food**
   Small, family run restaurant, famous with locals as delivering some of the best Greek food in Christchurch. Open 11:00am – 8:00pm Tuesday to Saturday. Closed Sunday, Monday.
   86 Riccarton Road, Riccarton, 8011. https://www.facebook.com/dimitrisgreekfood/

2. **Dux Dine**
   28 Riccarton Road. Fresh and local, especially seafood. Good NZ wine list. Great brunch on the weekends.
   http://duxdine.co.nz

3. **Fox & Ferret**
   28 Rotherham St, Riccarton. Gastropub & sports bar.
   http://www.foxriccarton.co.nz

4. **Nando’s**
   35 Riccarton Road. Afro-Portuguese food, featuring spicy broiled chicken. Lunch and dinner, 7 days/week.
   https://www.nandos.co.nz
12. Grocery Stores/Laundry

1. PAK’nSAVE Northlands
   Northlands Shopping Centre,
   Main North Road, Christchurch 8053
   +64 3-352 9872

2. Countdown Moorhouse Central Shopping Centre
   347 Moorhouse Ave, Christchurch Central,
   Christchurch 8011
   +64 3-365 0276

3. New World Supermarket Northwood
   2 Mounter Ave., Northwood,
   Christchurch 8051
   +64 3-375 9004

4. Countdown Spitfire Square
   530 - 546A Memorial Avenue,
   Christchurch 8053
   (03) 357 0450
   Opening Hours: Mon - Sun: 7am - 10pm

5. Countdown Church Corner
   361 Riccarton Rd., Upper Riccarton,
   Christchurch 8041
   +64 3-348 3754

6. FreshChoice
   189 Papanui Rd, Merivale,
   Christchurch 8014
   +64 3-355 4432

7. Raeward Fresh
   800 Harewood Rd, Harewood,
   Christchurch 8051
   +64 3-359 2772

8. New World Fendalton
   19-23 Memorial Avenue,
   Christchurch 8011
   +64 3-351 6251

**Laundry**

Self Service: **AIRPORT:** Liquid Self-Service Laundromat, 47 Carmen Rd., Hornby.
   About 3 mi south of the airport on Route 1.
   **DOWNTOWN:** Figlo Laundromat, 332 Gloucester Street (at Fitzgerald).
Information

CHRISTCHURCHNZ

Official tourism site for the local region: https://www.christchurchnz.com/new-zealand/

To find local events:

https://findchch.com

Christchurch I-Site Visitor Centre

The Christchurch i-SITE Visitor Information Centre is part of the official information network for New Zealand. They offer a free booking and information service. Open daily from 8:30am to 5:00pm. There is also a tourist office & booking service at the airport in the International Arrivals Hall.

28 Worcester Boulevard, Christchurch Central, 8013
+64 3-3799629

New Zealand Tourism Guides

- New Zealand Tourism Guide: http://www.tourism.net.nz
- 100% Pure New Zealand: http://www.newzealand.com/us

News – Christchurch Local

https://www.stuff.co.nz/the-press

Day or Overnight Trips from Christchurch

Popular day trip destinations include Akaroa, Hanmer Springs, Arthurs Pass and Kaikoura (return bus tickets start from $45 per person) or the TranzAlpine Train. Other destinations include Tekapo, Mt Cook or overnight trips from the TranzAlpine train in either Greymouth, Lake Brunner or Punakaiki.
Weather

Christchurch is located at 43.5 degrees South latitude, 172.6 degrees East longitude. New Zealand Standard Time (NZST) is 12 hours ahead of GMT/UTC, 19 hours ahead of PDT, and 10 hours ahead of Central European Summer Time (CEST). New Zealand has a temperate climate with moderately high rainfall and many hours of sunshine. While the far north has subtropical weather during summer, and inland alpine areas of the South Island can be as cold as -10°C (14°F) in winter; most of the country lies close to the coast, which means mild temperatures.

Temperature

The average New Zealand temperature decreases as you travel south. January and February are the warmest months, and July is the coldest month of the year. In summer, the average maximum temperature ranges between 20-30°C (68-90°F) and in winter between 10-15°C (50-60°F).

You can check on current weather conditions in New Zealand on the NZ Met Service website: www.metservice.com/national/home.

Seasons and Clothing Requirements

Winter in New Zealand is June to August, followed by Spring starting in September. Winter in New Zealand brings colder weather to much of the country, with snow in the south and rain in the north. You’ll need jeans, long-sleeved tops and coats in most places, and if you’re heading into the mountains thermals, gloves and thick sweaters are also a good idea.
Introduction

This document is provided for the employees of PAE (New Zealand) Limited (“PAE NZ”) as a quick reference in the event of an emergency situation. Your safety is of utmost concern to PAE NZ Management. Employees and other building occupants should be familiar with the Emergency Procedures contained in the document. It should be frequently reviewed and accessible at each employee’s desk for immediate reference.

This quick reference contains:

1) How to report an emergency
2) What to do
3) Who will assist you, and
4) What help will come from company and professional emergency units.

After-hours, weekends, and holidays:
Even though the procedures in this reference document are applicable 24 hours, 7 days a week, it was primarily written for use during the normal business hours. If you do experience an emergency after-hours, weekends, or holiday, please use the procedures outlined in this reference where applicable, along with common sense if certain personnel are not available.

Emergency Phone Numbers

<table>
<thead>
<tr>
<th>Service</th>
<th>Number</th>
</tr>
</thead>
<tbody>
<tr>
<td>Airport Fire Service</td>
<td>1-8888 (Office Phone) 353 7800</td>
</tr>
<tr>
<td>Non Emergency</td>
<td></td>
</tr>
<tr>
<td>Airport Police Department</td>
<td>1-8888 (Office Phone) 353 7800</td>
</tr>
<tr>
<td>Non Emergency</td>
<td></td>
</tr>
<tr>
<td>Aviation Security Service</td>
<td>357 3500</td>
</tr>
<tr>
<td>Fire Service</td>
<td>1-111 (Office Phone) 358 1465 (x 35465 Internal)</td>
</tr>
<tr>
<td>Health &amp; Safety Coordinator</td>
<td></td>
</tr>
<tr>
<td>Medical Emergencies</td>
<td>1-111 (Office phone)</td>
</tr>
<tr>
<td>Non-emergency (Medical Coordinator)</td>
<td>358 1425 (x35425 Internal)</td>
</tr>
<tr>
<td>Poison Control and Hazardous Chemicals</td>
<td>0800 764 766</td>
</tr>
<tr>
<td>PAE NZ Emergency number</td>
<td>0 (Reception)</td>
</tr>
<tr>
<td>PAE NZ Facilities Maintenance</td>
<td>358 1453 (x 35453 Internal)</td>
</tr>
</tbody>
</table>
15. Emergency Information and Instructions

Fire Procedure

Know the location of the fire alarm boxes and extinguishers closest to your work location.

Upon discovery of a fire or smoke:

1. Break the glass and push button on the fire alarm box adjacent to the nearest exit to where the fire is located and evacuate the immediate area.

2. Call the Fire Service on 1-111 from office phones or 111 from a cell phone
   Calmly state:
   • Your name
   • Building location and address (PAE NZ, 38 Orchard Rd., Christchurch)
   • Nature of the emergency
   • Telephone number to the switch board, in case they need to contact us (358 8139)

3. If the fire is small and you have training in the proper use of a fire extinguisher, you should attempt to extinguish the fire if it is safe to do so. If you have any concern about your safety or ability to extinguish the fire, do not attempt to put it out. Evacuate the building and wait for professional fire fighters.

4. Evacuation: Follow the evacuation route to the nearest exit: if on the second floor use the stair exits only.

5. Move to the grass area situated in the Northeast Car Park. Fire Wardens will do a roll call and account for all personnel. If smoke is blowing in that direction personnel are to move further across the parking lot until away from the smoke.

Fire Extinguisher Use

Only use a fire extinguisher for a small fire and ONLY if you have either been trained or are familiar with its use. ABC type dry chemical fire extinguishers are located throughout the building in designated locations. Following these basic instructions:

An easy way to remember what to do to use an extinguisher is the acronym P A S S - Pull, Aim, Squeeze, and Sweep.

1. Remove the extinguisher from the case or wall mount.
2. Pull the pin from the handle assembly – position yourself about 3 metres from the fire.
3. Aim the nozzle at the base of the fire
4. Squeeze the handle fully
5. Sweep the nozzle back and forth past the edges of the fire until the extinguisher is empty or the fire is out.
The Fire Service will still be required to inspect the site even if the fire has been extinguished to insure it is completely out and presents no further risk. **Remember:** **ALWAYS** report a fire (111) before attempting to extinguish it.

---

### Evacuation

**It is the responsibility of each employee to be familiar with all of the Emergency Procedures outlined in this manual.**

In case of an evacuation alarm, red flashing light in Antarctic Passenger Terminal, or other notification to evacuate the building, all personnel are to leave the area and report to the designated assembly points located outside of the building in a safe location. (See Evacuation Map on Office Walls)

**Procedure:**

1. Remain calm.
2. Check for others, to assist those who may need it.
3. Close all doors of offices and rooms as you leave.
4. Use only stairwells for evacuation from upper floor; hold onto the handrails when going down the stairs.
5. Exit to the nearest exit in an orderly and quiet fashion. (Know your nearest exit route and alternate route)
6. Clear walkways and stairs for Fire Service personnel.
7. If the area becomes smoke filled crawl on hands and knees to avoid toxic gas.
8. Listen for instructions from your Fire Warden
9. Proceed to designated assembly area
10. The primary evacuation site is grass area in Northeast car park, further back if needed to get away from smoke.
11. The alternative assembly point is grass edge, East side of Inwards Goods Driveway.
12. Stay with co-workers and managers. Do not go to vehicles or out of area.
13. No Smoking allowed during the evacuation.
14. Follow directions from management, Safety or Fire personnel.
15. Do not return to the building until the authority in charge gives the “All Clear.”

Fire Wardens will assist in verifying that all employees have evacuated the building and ensure that doors are closed.
For Administration Building Upstairs
PLEASE READ

Emergency Exit Door

When Emergency Alarm starts ringing:
- Push handle on door to start exit process
- Amber light above door will flash
- Wait up to 15 seconds
- When light stops flashing
- Push door and it will open.
- Red light will show while door open

DO NOT PANIC

Medical Emergencies

1. In the case of a medical emergency call 1-111 and the Reception at 0
   Calmly state:
   - Your name
   - Address and Location in the building (38 Orchard Rd., Christchurch)
   - Nature of medical emergency
   - Telephone number
   - Listen for instruction

2. If you are trained and certified give first aid and call for AED if necessary. First responders will be on scene to assist in medical care.

3. Do not move an injured employee unless their life is in further danger from the situation.

4. Keep injured or sick employee calm, warm and comfortable.

5. If person conscious, find out what happened.

6. Follow the instructions of the First Aid personnel and assist as requested.

7. Stay with the injured person unless it places you at risk or you need to leave to call for medical assistance.

Major Natural Disaster and Weather Emergency

Predictable Emergencies:

Some conditions leading to weather emergencies are predictable. In the event that heavy snow, high winds, flood, low temperatures, or a combination are imminent PAE NZ may:

1. Suspend or reduce normal operation
2. Delay starting times
3. Send employees home
Unpredictable Emergencies:

Other disasters and emergencies can affect large areas, many people and develop very quickly. Flash floods, tornados, severe thunderstorms and earthquakes, for example, can strike with little or no advance warning. There are certain procedures that you can take to prepare for and cope with these emergencies and minimize your risks. The most basic thing to remember is to Keep Calm.

Take time to think.

1. Whenever a major storm or other possible peacetime disaster threatens, if you have a radio in your work area tune it to news weather reports and forecast issued by the NZ Weather Service as well as other information and advice that may be broadcast by local authorities. The PAE NZ Safety Officer and security personnel will monitor reports and provide information via runners.

2. During these situations, use your telephone only to report important disaster events to authorities 1-111 for Office phones. Using the telephones for other calls may prevent emergency calls from being completed.

3. Stay away from windows and doors.


5. Follow the advice and instructions from wardens as to where to assemble.

6. Close and lock office doors upon instructions to leave these areas.

7. Stay away from disaster areas.

Earthquake

In the event of an Earthquake follow the directions of your Fire Warden or Supervisor:

1. Remain calm.

2. Move away from windows, equipment and shelves that may fall.

3. Take cover under solid furniture such as tables and desks, or stand in between the door frames if there is no furniture.

When the shaking stops:

4. Remain calm, helping those that need assistance.

5. Put out any fires if possible.

6. Wardens to turn off any electrical output at power boxes if able.

7. Wait for orders from your Wardens.

If you need to evacuate or the fire alarm sounds:

8. Use evacuation procedures to leave the building.


10. Follow your Warden’s instructions.

**DO NOT LEAVE THE ASSEMBLY AREA UNTIL YOUR WARDEN HAS GIVEN INSTRUCTIONS.**
15. Emergency Information and Instructions

Chemical/Hazardous Waste Emergency

Although we do not have significant hazardous materials in the Main Administration building, in the case of an incident call the Reception at 0 to activate the Municipal Emergency Spill Response Team.

The Air Cargo Yard does have hazardous materials onsite, in a locked storage facility.

Calmly state:

• Your name
• Address and Location in the building (38 Orchard Rd., Christchurch)
• Nature of the emergency
• Chemical(s) involved
• Telephone number
• Listen for instruction

Evacuate the area and prevent people from entering the area.

Sound the building fire alarm for large spills or extremely hazardous chemicals.

Follow the building evacuation plan as instructed.

Bomb Threat

It is the responsibility of each employee to be familiar with all of the Emergency Procedures outlined in this manual - any bomb threat is considered a serious matter.

If you receive a bomb threat:

Keep the caller on the line as long as possible and ask the following questions, while trying to attract someone else’s attention:

• When is the bomb going to explode?
• What does the bomb look like?
• What kind of bomb is it?
• Why are you doing this?
• How will it explode?
• Why did you place the bomb?
• Where is the bomb?
• Who are you?

Note: Exact wording of threat and background noises; Voice characteristics such as caller’s sex, race, age; time and length of call; Number of call received on display (copy the number of the call if available.)
15. Emergency Information and Instructions

After the caller hangs-up:

- Address and Location in the building
- Immediately Notify Supervisor
- Provide information from the threat to Management and follow their instructions
- Cooperate with management in reporting incident to local authorities.
- Complete Formal Bomb-Threat Report

Management in conjunction with Local Authorities will make building evacuation decisions.

Suspicous Substance or Package

DO NOT PANIC

1. If package appears suspicious, do not touch or open it.
2. If you are already handling it and find that it appears suspicious, do not shake or empty the contents. Place on a stable surface.
3. Leave the area and block off to prevent others from entering.
4. Wash hands with soap and water, and remove contaminated clothing. Shower as soon as possible if you think there was contamination associated with the package.
5. Dial 0 to report the situation to PAE NZ Security, note all people who were in the room and isolate them until local authorities arrive or provide guidance.
6. Do not try to clean up the contaminant.

Mail Bomb recognition points:

- Address and Location in the building
- Excessive weight for its size
- Rigid envelope
- Excessive securing material
- Protruding wires, string or tinfoil
- Oily stains or discoloration
- Source unknown
- Excessive postage on local mail
- Unexpected or unsolicited mail, both local and foreign
- Restrictive markings (i.e. Private, Personal)
- Handwritten or poorly typed address
- No return address
- Titles, but no names
- Misspelling of common words/name/address
In the unlikely event, you should be stuck in an elevator. Remain calm, there is no danger.

Calmly state:

1. Locate the alarm inside the elevator cab. This is below the controls on the left side of the door.
2. Push the button and wait for assistance.
3. Should you become stuck in between floors, do not attempt to climb out, as the elevator may begin to move and you may be injured. Keep your hands and arms inside the cab until help has arrived.
4. If you are passing by the elevator and you hear an alarm inside, contact the PAE NZ Reception by dialing 0.

### PAE Employees
**Work Place First Aid Trained, AED Trained or Wardens**

<table>
<thead>
<tr>
<th>Name</th>
<th>Workplace First Aid Certificate</th>
<th>AED Training</th>
<th>Warden</th>
<th>Dept.</th>
<th>Phone</th>
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<tbody>
<tr>
<td>AGNEW Sarah</td>
<td>Yes</td>
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<td>Procurement</td>
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<td>AMBLER Phil</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
<td>Term Ops Mgr</td>
<td>35470</td>
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<td>CAMERON Leighton</td>
<td>Yes</td>
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<td>CLARK Steve</td>
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<td>Facilities Maint.</td>
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<tr>
<td>COLLINS Mike</td>
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<td>Yes</td>
<td>AGE Mechanic</td>
<td>35475</td>
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<tr>
<td>FENWICK Jeff</td>
<td>Yes</td>
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<td>Procurement</td>
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<td>GREAVES Gary</td>
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<td>JOBSON Dave</td>
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<td>ACY</td>
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<td>KENNAN Dave</td>
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<td>APO</td>
<td>35046</td>
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<tr>
<td>McLENNAN Marlene</td>
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<td>ROBB Terry</td>
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<td>IT</td>
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<td>ROGERS Ron</td>
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<td>-</td>
<td>Yes</td>
<td>AGE/H&amp;S Officer</td>
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<tr>
<td>SKEVINGTON Mike</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
<td>ACY</td>
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<td>SLOAN Janice</td>
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<td>Travel</td>
<td>35426</td>
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<tr>
<td>STRINGER Leann</td>
<td>Yes</td>
<td>Yes</td>
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<td>Medical</td>
<td>35425</td>
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<tr>
<td>TURNER Dave</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
<td>Facilities Maint.</td>
<td>35453</td>
</tr>
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</table>
NZ Work Visa Application Process for SOFIA 2019 Deployment • March 25, 2019

SOFIA personnel planning to travel to New Zealand for the 2019 Southern Hemisphere deployment will be required to get a work visa. You can apply online at the NZ Immigration web site: [https://www.immigration.govt.nz/new-zealand-visas](https://www.immigration.govt.nz/new-zealand-visas). The visas will be valid for three (3) years.

**Before you start your application, you will need:**

1. A current photo (jpg).
2. A scanned copy of your passport page (pdf).

To start the application, you will first need to create an account with RealMe, an online ID that New Zealand uses for its government services. Once you have this ID, you can begin the visa application process.

The application is available online:


- Under Identify and Contact, Group Application: Select “No”.
- Under Work Details:
  - Select “Specific Purpose or Event” for visa type.
  - Select “Other” for type of specific purpose.
- Under details of specific purpose, add the following:
- Under Work History, just put current employment info.
- Under Qualification History, put your degree or other training/professional certification.
- Under Other Contacts, put “No.”
  [This is contacts you have in NZ. If you say “Yes,” you will have to enter information about them.]
- Under Upload Documents, upload the three documents mentioned above. The photo needs to be in jpg form, other docs are pdf.

The whole process should take about 30 min.

The visa will be issued in electronic form in 2-3 weeks, and will be sent to you by e-mail and also posted to your RealMe account. You should have a printed copy of the visa with you every time you enter New Zealand.
Appendix A

Notes & Misc Info:

- Photo requirements are slightly different than for passports. See: https://www.immigration.govt.nz/new-zealand-visas/apply-for-a-visa/tools-and-information/acceptable-photos. Photo can be no more than 6 months old.

- If you need help getting a photo, contact Nick Veronico (nicholas.a.veronico@nasa.gov).

- There is no fee for on-line application for U.S. passport holders living outside NZ.

- There are fees for other passports. Germany and UK passports have a $495 NZD fee. You may also need to mail in your passport.

If you need assistance, contact Mike Gaunce (michael.t.gaunce@nasa.gov).
6 May 2019

Mr Phil Ambler
Terminal Operations Manager
PAE (New Zealand) Limited
Private Bag 4747
Christchurch 8140

Dear Phil

NASA Sophia Crew ID Cards accepted as Airport Identity Cards

Pursuant to Civil Aviation Rule 19.357(a), I, Rodney Guy Albrechtsen, Technical Specialist - Aviation Security, acting under an Instrument of Delegation from the Director of Civil Aviation issued on 27 July 2005 under section 23A (1) of the Civil Aviation Act 1990 (the Act), do hereby approve the use of a 'NASA' photo identity card as being an Airport Identity Card for the purposes of Rule 19.357, subject to the following conditions:

- The approval is for the operators and crew who hold and display their NASA ID cards to enter the Christchurch Airport Security Area at the Antarctic apron only, for the purpose of assessing their aircraft for flight operations, maintenance/servicing and ground operations for research purposes.

- Personnel must not move into or walk through the Security or Security Enhanced Area of any other building, tarmac area or sterile area of Christchurch International Airport, unless for the purposes of their duties and only if they are escorted at all times by the holder of a current permanent New Zealand Issued Airport Identity Card or full access temporary Identity card.

- Civil Aviation Rules Part 19.357 is applicable to those personnel for whom the use of a NASA identity card is approved in that:
  - Their personal NASA identity card must be displayed on the front of their outer garment above waist height at all times when entering the Antarctic Programme operational and tarmac areas of the Christchurch Aerodrome.
  - Personnel may only enter and remain in the Antarctic Programme operational and tarmac areas of Christchurch Aerodrome for the purposes of their duties.
  - If required to do so by an authorised person, shall produce for inspection their NASA identity card.

This approval is valid from the 20th of May until the 1st of August 2019.
Signed at Wellington this 6th day of May 2019

Rod Albrechtsen
Technical Specialist - Aviation Security
Security Regulatory Unit
What's Different about Driving in New Zealand?

There are a few things that you may not be used to when driving in New Zealand.

For example:

- They drive on the left side of the road.
- Using a hand-held mobile phone while driving is illegal.

Make sure you have a safe and enjoyable journey and please make sure to read this information before starting out.

Keep Left

ALWAYS drive on the left side of the road. If you drive on the right side of the road in your own country, please remember to keep left when pulling out onto the road - it’s easy to forget where you are!

Giving Way at Intersections

In general, if you are turning, give way to all vehicles that are not turning. Always use your indicator when turning.

NO LEFT Turn on RED

In New Zealand you may not turn left at an intersection when the traffic signals are red.

If turning at the traffic signals, give way to pedestrians crossing the road.

Hand-Hand Mobile Devices

Drivers must not use a hand-held mobile phone when driving, unless the device is completely hands-free or mounted securely to the vehicle - and touched infrequently and briefly. Writing, reading or sending text messages on a mobile phone while driving is illegal.
Traveling Times

It’s easy to underestimate traveling time in New Zealand.

Distances may seem short on paper, but New Zealand roads may be narrower than you’re used to, cover hilly terrain and vary from motorways (freeways) to unsealed gravel roads.

If you’re tired you’re much more likely to have a crash. Here are some tips to help you stay alert.

- Get plenty of rest before a long drive.
- Take a break from driving every two hours.
- If possible, share the driving with someone else.
- If you begin to feel sleepy, stop at a safe place and try to have a short sleep for up to 40 minutes.
- If you’re feeling very tired, find a place to stay overnight.

Driving Speeds

Speed limit signs show the maximum speed you can travel. At times you may need to drive at a slower speed due to road, weather or traffic conditions.

Different speed limits apply throughout New Zealand - look out for the speed limit signs.
Safety Belts

By law, everyone in the vehicle must wear a safety belt or child restraint - weather they’re in the back or front.

Children under five years of age must be secured in an approved child restraint.

Alcohol and Drugs

Don’t drink or use drugs and then drive - the laws against this are strictly enforced in New Zealand and penalties are severe.

Driver Licence Requirements

You must have your current and valid drivers licence or driver permit with you at all times when you’re driving. If your overseas licence or drivers permit is not in English, you must also carry an accurate English translation issued by:

- a translation service approved by the NZ Transport Agency (a list is available at www.nzta.govt.nz/licence/residents-visitors/translators.html), or
- a diplomatic representative at a high commission, embassy or consulate, or
- the authority that issued your overseas licence.

An international Driving Permit (issued in accordance with the United Nations Convention on Road Traffic) is acceptable as a translation.

Provided your overseas drivers licence or driver permit remains current and valid, you can drive for a maximum period of 12 months from the date you arrive in New Zealand. Each time you arrive in New Zealand you can drive for a further 12-month period.

After 12 months, if you wish to continue driving in New Zealand, you must obtain a New

Overtaking

Most roads in New Zealand have a single lane each way, and some provide passing lanes at regular intervals - these should be used where possible when overtaking.

You must not cross a solid yellow line on your side of the center line to pass a vehicle, as this indicates it’s too dangerous to overtake.

Sharing the Road with Cyclists

Cyclists have the same rights as drivers on New Zealand roads. Always slow down near cyclists, pass slowly and only when safe, and try to leave a space of 1.5 meters.

Indicate in plenty of time and respect lanes.
One-Lane Bridges

A number of roads in New Zealand have one-lane bridges where vehicles traveling in one direction must give way to vehicles going in the other direction.

Any of the signs below show that you are approaching a one-lane bridge. Slow down and check for traffic coming the other way. The smaller red arrow shows which direction has to give way.

Winter Driving

Look out for this slippery surface sign in wet or icy conditions - slow down and avoid braking suddenly.

Snow and ice can make roads even more hazardous, particularly around mountain passes. Rental vehicle companies will often supply chains if you’re likely to be driving in these conditions - make sure you know how to fit them before setting out.

Animals on the Road

Watch out for farm animals on the road, particularly in rural areas. When you see them, slow down and do not sound your horn - it may startle them. You may need to stop and let the animals go past or move slowly up behind and follow the farmer’s instructions.
Unsealed Gravel Roads

Avoid unsealed roads if possible. If you need to drive on them, remember they can be very narrow. Reduce your speed and slow down even further when approaching oncoming traffic as dust could obscure your vision and loose stones could chip your windshield.

Parallel Parking

In New Zealand, you can be fined and towed away for parallel parking on the wrong side of the road. You may only park in the direction of traffic flow or your side of the road (i.e., on the left side) unless it is a one-way street.

Rail Crossings

Only half of New Zealand's 1500 public rail crossings have automatic alarms. If red lights are flashing, stop and only proceed once the lights have stopped flashing.

Other crossings have Railway Crossing and Give Way or Stop signs only. When you see a Stop sign at a crossing, stop and only cross the track if there are no trains approaching. When you see a Give Way sign, slow down and be ready to stop and only cross the track if there are no trains approaching.

Accidents

If you are in an accident, you must stop at the scene and find out whether anyone has been injured. Move your vehicle off the highway and out of the flow of traffic. Make sure your hazard lights are on and that each car’s ignition is turned off. You should give assistance to anyone who is injured, if you are able.

See your rental car agreement for detailed instructions, and local telephone to call in case of accident/break-down.

If someone was killed or injured in the accident you must report it to the Police as soon as possible. If the accident is minor and involves no injury, you are not required to report it to the Police. Get the other driver’s vehicle and insurance information, and report it to your insurance company.