# <pre>

# @(#)antarctica 8.9

# This file is in the public domain, so clarified as of

# 2009-05-17 by Arthur David Olson.

# From Paul Eggert (1999-11-15):

# To keep things manageable, we list only locations occupied year-round; see

# <a href="http://www.comnap.aq/comnap/comnap.nsf/P/Stations/">

# COMNAP - Stations and Bases

# </a>

# and

# <a href="http://www.spri.cam.ac.uk/bob/periant.htm">

# Summary of the Peri-Antarctic Islands (1998-07-23)

# </a>

# for information.

# Unless otherwise specified, we have no time zone information.

#

# Except for the French entries,

# I made up all time zone abbreviations mentioned here; corrections welcome!

# FORMAT is `zzz' and GMTOFF is 0 for locations while uninhabited.

# These rules are stolen from the `southamerica' file.

# Rule NAME FROM TO TYPE IN ON AT SAVE LETTER/S

Rule ArgAQ 1964 1966 - Mar 1 0:00 0 -

Rule ArgAQ 1964 1966 - Oct 15 0:00 1:00 S

Rule ArgAQ 1967 only - Apr 2 0:00 0 -

Rule ArgAQ 1967 1968 - Oct Sun>=1 0:00 1:00 S

Rule ArgAQ 1968 1969 - Apr Sun>=1 0:00 0 -

Rule ArgAQ 1974 only - Jan 23 0:00 1:00 S

Rule ArgAQ 1974 only - May 1 0:00 0 -

Rule ChileAQ 1972 1986 - Mar Sun>=9 3:00u 0 -

Rule ChileAQ 1974 1987 - Oct Sun>=9 4:00u 1:00 S

Rule ChileAQ 1987 only - Apr 12 3:00u 0 -

Rule ChileAQ 1988 1989 - Mar Sun>=9 3:00u 0 -

Rule ChileAQ 1988 only - Oct Sun>=1 4:00u 1:00 S

Rule ChileAQ 1989 only - Oct Sun>=9 4:00u 1:00 S

Rule ChileAQ 1990 only - Mar 18 3:00u 0 -

Rule ChileAQ 1990 only - Sep 16 4:00u 1:00 S

Rule ChileAQ 1991 1996 - Mar Sun>=9 3:00u 0 -

Rule ChileAQ 1991 1997 - Oct Sun>=9 4:00u 1:00 S

Rule ChileAQ 1997 only - Mar 30 3:00u 0 -

Rule ChileAQ 1998 only - Mar Sun>=9 3:00u 0 -

Rule ChileAQ 1998 only - Sep 27 4:00u 1:00 S

Rule ChileAQ 1999 only - Apr 4 3:00u 0 -

Rule ChileAQ 1999 max - Oct Sun>=9 4:00u 1:00 S

Rule ChileAQ 2000 max - Mar Sun>=9 3:00u 0 -

# These rules are stolen from the `australasia' file.

Rule AusAQ 1917 only - Jan 1 0:01 1:00 -

Rule AusAQ 1917 only - Mar 25 2:00 0 -

Rule AusAQ 1942 only - Jan 1 2:00 1:00 -

Rule AusAQ 1942 only - Mar 29 2:00 0 -

Rule AusAQ 1942 only - Sep 27 2:00 1:00 -

Rule AusAQ 1943 1944 - Mar lastSun 2:00 0 -

Rule AusAQ 1943 only - Oct 3 2:00 1:00 -

Rule ATAQ 1967 only - Oct Sun>=1 2:00s 1:00 -

Rule ATAQ 1968 only - Mar lastSun 2:00s 0 -

Rule ATAQ 1968 1985 - Oct lastSun 2:00s 1:00 -

Rule ATAQ 1969 1971 - Mar Sun>=8 2:00s 0 -

Rule ATAQ 1972 only - Feb lastSun 2:00s 0 -

Rule ATAQ 1973 1981 - Mar Sun>=1 2:00s 0 -

Rule ATAQ 1982 1983 - Mar lastSun 2:00s 0 -

Rule ATAQ 1984 1986 - Mar Sun>=1 2:00s 0 -

Rule ATAQ 1986 only - Oct Sun>=15 2:00s 1:00 -

Rule ATAQ 1987 1990 - Mar Sun>=15 2:00s 0 -

Rule ATAQ 1987 only - Oct Sun>=22 2:00s 1:00 -

Rule ATAQ 1988 1990 - Oct lastSun 2:00s 1:00 -

Rule ATAQ 1991 1999 - Oct Sun>=1 2:00s 1:00 -

Rule ATAQ 1991 2005 - Mar lastSun 2:00s 0 -

Rule ATAQ 2000 only - Aug lastSun 2:00s 1:00 -

Rule ATAQ 2001 max - Oct Sun>=1 2:00s 1:00 -

Rule ATAQ 2006 only - Apr Sun>=1 2:00s 0 -

Rule ATAQ 2007 only - Mar lastSun 2:00s 0 -

Rule ATAQ 2008 max - Apr Sun>=1 2:00s 0 -

# Argentina - year-round bases

# Belgrano II, Confin Coast, -770227-0343737, since 1972-02-05

# Esperanza, San Martin Land, -6323-05659, since 1952-12-17

# Jubany, Potter Peninsula, King George Island, -6414-0602320, since 1982-01

# Marambio, Seymour I, -6414-05637, since 1969-10-29

# Orcadas, Laurie I, -6016-04444, since 1904-02-22

# San Martin, Debenham I, -6807-06708, since 1951-03-21

# (except 1960-03 / 1976-03-21)

# Australia - territories

# Heard Island, McDonald Islands (uninhabited)

# previously sealers and scientific personnel wintered

# <a href="http://web.archive.org/web/20021204222245/http://www.dstc.qut.edu.au/DST/marg/daylight.html">

# Margaret Turner reports

# </a> (1999-09-30) that they're UTC+5, with no DST;

# presumably this is when they have visitors.

#

# year-round bases

# Casey, Bailey Peninsula, -6617+11032, since 1969

# Davis, Vestfold Hills, -6835+07759, since 1957-01-13

# (except 1964-11 - 1969-02)

# Mawson, Holme Bay, -6736+06253, since 1954-02-13

# From Steffen Thorsen (2009-03-11):

# Three Australian stations in Antarctica have changed their time zone:

# Casey moved from UTC+8 to UTC+11

# Davis moved from UTC+7 to UTC+5

# Mawson moved from UTC+6 to UTC+5

# The changes occurred on 2009-10-18 at 02:00 (local times).

#

# Government source: (Australian Antarctic Division)

# <a href="http://www.aad.gov.au/default.asp?casid=37079">

# http://www.aad.gov.au/default.asp?casid=37079

# </a>

#

# We have more background information here:

# <a href="http://www.timeanddate.com/news/time/antarctica-new-times.html">

# http://www.timeanddate.com/news/time/antarctica-new-times.html

# </a>

# From Steffen Thorsen (2010-03-10):

# We got these changes from the Australian Antarctic Division:

# - Macquarie Island will stay on UTC+11 for winter and therefore not

# switch back from daylight savings time when other parts of Australia do

# on 4 April.

#

# - Casey station reverted to its normal time of UTC+8 on 5 March 2010.

# The change to UTC+11 is being considered as a regular summer thing but

# has not been decided yet.

#

# - Davis station will revert to its normal time of UTC+7 at 10 March 2010

# 20:00 UTC.

#

# - Mawson station stays on UTC+5.

#

# In addition to the Rule changes for Casey/Davis, it means that Macquarie

# will no longer be like Hobart and will have to have its own Zone created.

#

# Background:

# <a href="http://www.timeanddate.com/news/time/antartica-time-changes-2010.html">

# http://www.timeanddate.com/news/time/antartica-time-changes-2010.html

# </a>

# Zone NAME GMTOFF RULES FORMAT [UNTIL]

Zone Antarctica/Casey 0 - zzz 1969

8:00 - WST 2009 Oct 18 2:00

# Western (Aus) Standard Time

11:00 - CAST 2010 Mar 5 2:00

# Casey Time

8:00 - WST

Zone Antarctica/Davis 0 - zzz 1957 Jan 13

7:00 - DAVT 1964 Nov # Davis Time

0 - zzz 1969 Feb

7:00 - DAVT 2009 Oct 18 2:00

5:00 - DAVT 2010 Mar 10 20:00u

7:00 - DAVT

Zone Antarctica/Mawson 0 - zzz 1954 Feb 13

6:00 - MAWT 2009 Oct 18 2:00

# Mawson Time

5:00 - MAWT

Zone Antarctica/Macquarie 0 - zzz 1911

10:00 - EST 1916 Oct 1 2:00

10:00 1:00 EST 1917 Feb

10:00 AusAQ EST 1967

10:00 ATAQ EST 2010 Apr 4 3:00

11:00 - MIST # Macquarie Island Time

# References:

# <a href="http://www.antdiv.gov.au/aad/exop/sfo/casey/casey\_aws.html">

# Casey Weather (1998-02-26)

# </a>

# <a href="http://www.antdiv.gov.au/aad/exop/sfo/davis/video.html">

# Davis Station, Antarctica (1998-02-26)

# </a>

# <a href="http://www.antdiv.gov.au/aad/exop/sfo/mawson/video.html">

# Mawson Station, Antarctica (1998-02-25)

# </a>

# Brazil - year-round base

# Comandante Ferraz, King George Island, -6205+05824, since 1983/4

# Chile - year-round bases and towns

# Escudero, South Shetland Is, -621157-0585735, since 1994

# Presidente Eduadro Frei, King George Island, -6214-05848, since 1969-03-07

# General Bernardo O'Higgins, Antarctic Peninsula, -6319-05704, since 1948-02

# Capitan Arturo Prat, -6230-05941

# Villa Las Estrellas (a town), around the Frei base, since 1984-04-09

# These locations have always used Santiago time; use TZ='America/Santiago'.

# China - year-round bases

# Great Wall, King George Island, -6213-05858, since 1985-02-20

# Zhongshan, Larsemann Hills, Prydz Bay, -6922+07623, since 1989-02-26

# France - year-round bases

#

# From Antoine Leca (1997-01-20):

# Time data are from Nicole Pailleau at the IFRTP

# (French Institute for Polar Research and Technology).

# She confirms that French Southern Territories and Terre Adelie bases

# don't observe daylight saving time, even if Terre Adelie supplies came

# from Tasmania.

#

# French Southern Territories with year-round inhabitants

#

# Martin-de-Vivies Base, Amsterdam Island, -374105+0773155, since 1950

# Alfred-Faure Base, Crozet Islands, -462551+0515152, since 1964

# Port-aux-Francais, Kerguelen Islands, -492110+0701303, since 1951;

# whaling & sealing station operated 1908/1914, 1920/1929, and 1951/1956

#

# St Paul Island - near Amsterdam, uninhabited

# fishing stations operated variously 1819/1931

#

# Zone NAME GMTOFF RULES FORMAT [UNTIL]

Zone Indian/Kerguelen 0 - zzz 1950 # Port-aux-Francais

5:00 - TFT # ISO code TF Time

#

# year-round base in the main continent

# Dumont-d'Urville, Ile des Petrels, -6640+14001, since 1956-11

#

# Another base at Port-Martin, 50km east, began operation in 1947.

# It was destroyed by fire on 1952-01-14.

#

# Zone NAME GMTOFF RULES FORMAT [UNTIL]

Zone Antarctica/DumontDUrville 0 - zzz 1947

10:00 - PMT 1952 Jan 14 # Port-Martin Time

0 - zzz 1956 Nov

10:00 - DDUT # Dumont-d'Urville Time

# Reference:

# <a href="http://en.wikipedia.org/wiki/Dumont\_d'Urville\_Station">

# Dumont d'Urville Station (2005-12-05)

# </a>

# Germany - year-round base

# Georg von Neumayer, -7039-00815

# India - year-round base

# Dakshin Gangotri, -7005+01200

# Japan - year-round bases

# Dome Fuji, -7719+03942

# Syowa, -690022+0393524

#

# From Hideyuki Suzuki (1999-02-06):

# In all Japanese stations, +0300 is used as the standard time.

#

# Syowa station, which is the first antarctic station of Japan,

# was established on 1957-01-29. Since Syowa station is still the main

# station of Japan, it's appropriate for the principal location.

# Zone NAME GMTOFF RULES FORMAT [UNTIL]

Zone Antarctica/Syowa 0 - zzz 1957 Jan 29

3:00 - SYOT # Syowa Time

# See:

# <a href="http://www.nipr.ac.jp/english/ara01.html">

# NIPR Antarctic Research Activities (1999-08-17)

# </a>

# S Korea - year-round base

# King Sejong, King George Island, -6213-05847, since 1988

# New Zealand - claims

# Balleny Islands (never inhabited)

# Scott Island (never inhabited)

#

# year-round base

# Scott, Ross Island, since 1957-01, is like Antarctica/McMurdo.

#

# These rules for New Zealand are stolen from the `australasia' file.

# Rule NAME FROM TO TYPE IN ON AT SAVE LETTER/S

Rule NZAQ 1974 only - Nov 3 2:00s 1:00 D

Rule NZAQ 1975 1988 - Oct lastSun 2:00s 1:00 D

Rule NZAQ 1989 only - Oct 8 2:00s 1:00 D

Rule NZAQ 1990 2006 - Oct Sun>=1 2:00s 1:00 D

Rule NZAQ 1975 only - Feb 23 2:00s 0 S

Rule NZAQ 1976 1989 - Mar Sun>=1 2:00s 0 S

Rule NZAQ 1990 2007 - Mar Sun>=15 2:00s 0 S

Rule NZAQ 2007 max - Sep lastSun 2:00s 1:00 D

Rule NZAQ 2008 max - Apr Sun>=1 2:00s 0 S

# Norway - territories

# Bouvet (never inhabited)

#

# claims

# Peter I Island (never inhabited)

# Poland - year-round base

# Arctowski, King George Island, -620945-0582745, since 1977

# Russia - year-round bases

# Bellingshausen, King George Island, -621159-0585337, since 1968-02-22

# Mirny, Davis coast, -6633+09301, since 1956-02

# Molodezhnaya, Alasheyev Bay, -6740+04551,

# year-round from 1962-02 to 1999-07-01

# Novolazarevskaya, Queen Maud Land, -7046+01150,

# year-round from 1960/61 to 1992

# Vostok, since 1957-12-16, temporarily closed 1994-02/1994-11

# <a href="http://quest.arc.nasa.gov/antarctica/QA/computers/Directions,Time,ZIP">

# From Craig Mundell (1994-12-15)</a>:

# Vostok, which is one of the Russian stations, is set on the same

# time as Moscow, Russia.

#

# From Lee Hotz (2001-03-08):

# I queried the folks at Columbia who spent the summer at Vostok and this is

# what they had to say about time there:

# ``in the US Camp (East Camp) we have been on New Zealand (McMurdo)

# time, which is 12 hours ahead of GMT. The Russian Station Vostok was

# 6 hours behind that (although only 2 miles away, i.e. 6 hours ahead

# of GMT). This is a time zone I think two hours east of Moscow. The

# natural time zone is in between the two: 8 hours ahead of GMT.''

#

# From Paul Eggert (2001-05-04):

# This seems to be hopelessly confusing, so I asked Lee Hotz about it

# in person. He said that some Antartic locations set their local

# time so that noon is the warmest part of the day, and that this

# changes during the year and does not necessarily correspond to mean

# solar noon. So the Vostok time might have been whatever the clocks

# happened to be during their visit. So we still don't really know what time

# it is at Vostok. But we'll guess UTC+6.

#

Zone Antarctica/Vostok 0 - zzz 1957 Dec 16

6:00 - VOST # Vostok time

# S Africa - year-round bases

# Marion Island, -4653+03752

# Sanae, -7141-00250

# UK

#

# British Antarctic Territories (BAT) claims

# South Orkney Islands

# scientific station from 1903

# whaling station at Signy I 1920/1926

# South Shetland Islands

#

# year-round bases

# Bird Island, South Georgia, -5400-03803, since 1983

# Deception Island, -6259-06034, whaling station 1912/1931,

# scientific station 1943/1967,

# previously sealers and a scientific expedition wintered by accident,

# and a garrison was deployed briefly

# Halley, Coates Land, -7535-02604, since 1956-01-06

# Halley is on a moving ice shelf and is periodically relocated

# so that it is never more than 10km from its nominal location.

# Rothera, Adelaide Island, -6734-6808, since 1976-12-01

#

# From Paul Eggert (2002-10-22)

# <http://webexhibits.org/daylightsaving/g.html> says Rothera is -03 all year.

#

# Zone NAME GMTOFF RULES FORMAT [UNTIL]

Zone Antarctica/Rothera 0 - zzz 1976 Dec 1

-3:00 - ROTT # Rothera time

# Uruguay - year round base

# Artigas, King George Island, -621104-0585107

# USA - year-round bases

#

# Palmer, Anvers Island, since 1965 (moved 2 miles in 1968)

#

# From Ethan Dicks (1996-10-06):

# It keeps the same time as Punta Arenas, Chile, because, just like us

# and the South Pole, that's the other end of their supply line....

# I verified with someone who was there that since 1980,

# Palmer has followed Chile. Prior to that, before the Falklands War,

# Palmer used to be supplied from Argentina.

#

# Zone NAME GMTOFF RULES FORMAT [UNTIL]

Zone Antarctica/Palmer 0 - zzz 1965

-4:00 ArgAQ AR%sT 1969 Oct 5

-3:00 ArgAQ AR%sT 1982 May

-4:00 ChileAQ CL%sT

#

#

# McMurdo, Ross Island, since 1955-12

# Zone NAME GMTOFF RULES FORMAT [UNTIL]

Zone Antarctica/McMurdo 0 - zzz 1956

12:00 NZAQ NZ%sT

#

# Amundsen-Scott, South Pole, continuously occupied since 1956-11-20

#

# From Paul Eggert (1996-09-03):

# Normally it wouldn't have a separate entry, since it's like the

# larger Antarctica/McMurdo since 1970, but it's too famous to omit.

#

# From Chris Carrier (1996-06-27):

# Siple, the first commander of the South Pole station,

# stated that he would have liked to have kept GMT at the station,

# but that he found it more convenient to keep GMT+12

# as supplies for the station were coming from McMurdo Sound,

# which was on GMT+12 because New Zealand was on GMT+12 all year

# at that time (1957). (Source: Siple's book 90 degrees SOUTH.)

#

# From Susan Smith

# http://www.cybertours.com/whs/pole10.html

# (1995-11-13 16:24:56 +1300, no longer available):

# We use the same time as McMurdo does.

# And they use the same time as Christchurch, NZ does....

# One last quirk about South Pole time.

# All the electric clocks are usually wrong.

# Something about the generators running at 60.1hertz or something

# makes all of the clocks run fast. So every couple of days,

# we have to go around and set them back 5 minutes or so.

# Maybe if we let them run fast all of the time, we'd get to leave here sooner!!

#

Link Antarctica/McMurdo Antarctica/South\_Pole