

Meteoandmete kogumisest ja kättesaadavusest Antarktikas

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Molodjožnaja 1972

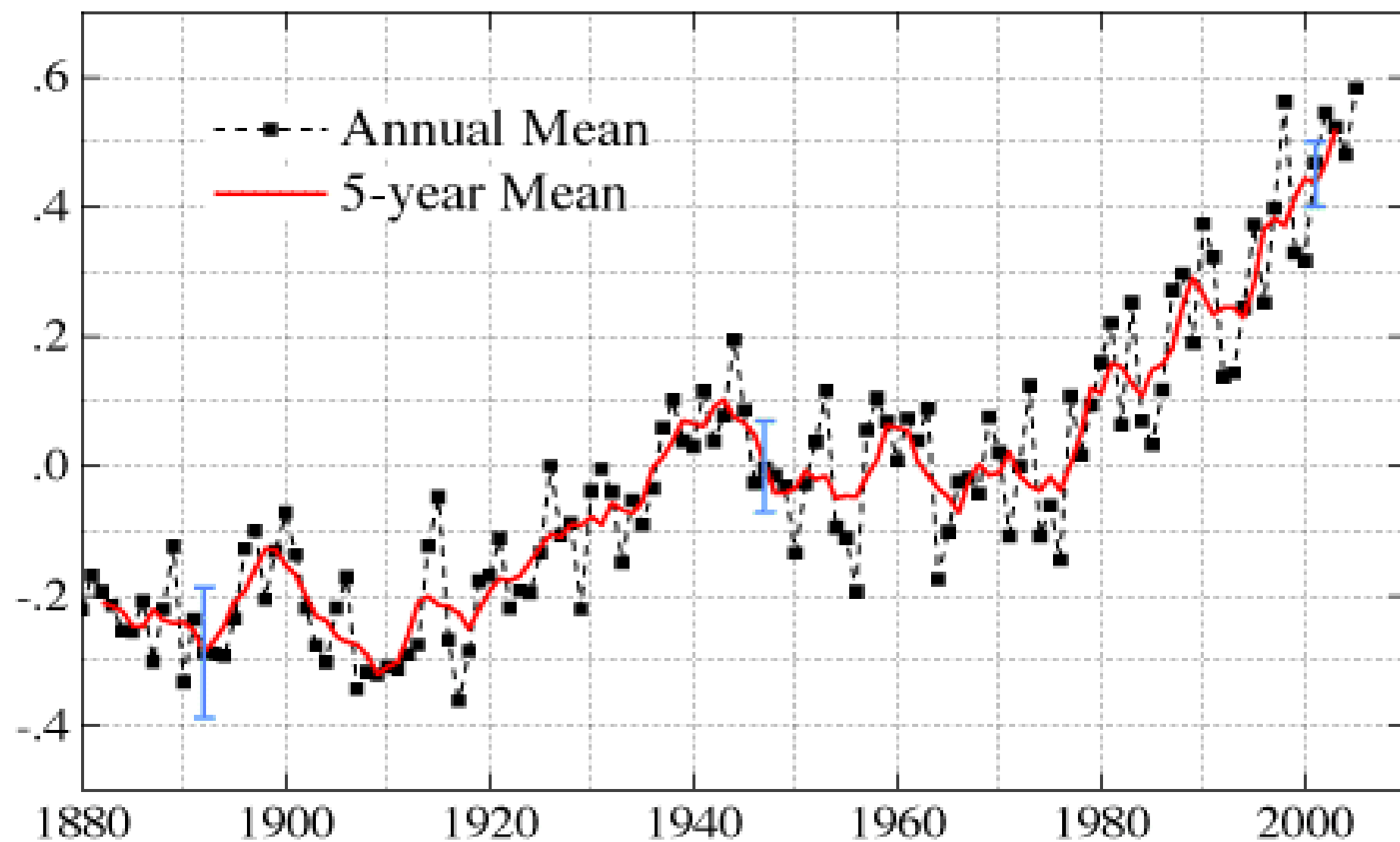


Osoonimõõtmine ja kiirgusmõõtjate kalibratsioon Molodjožnajas oktoobris 1972





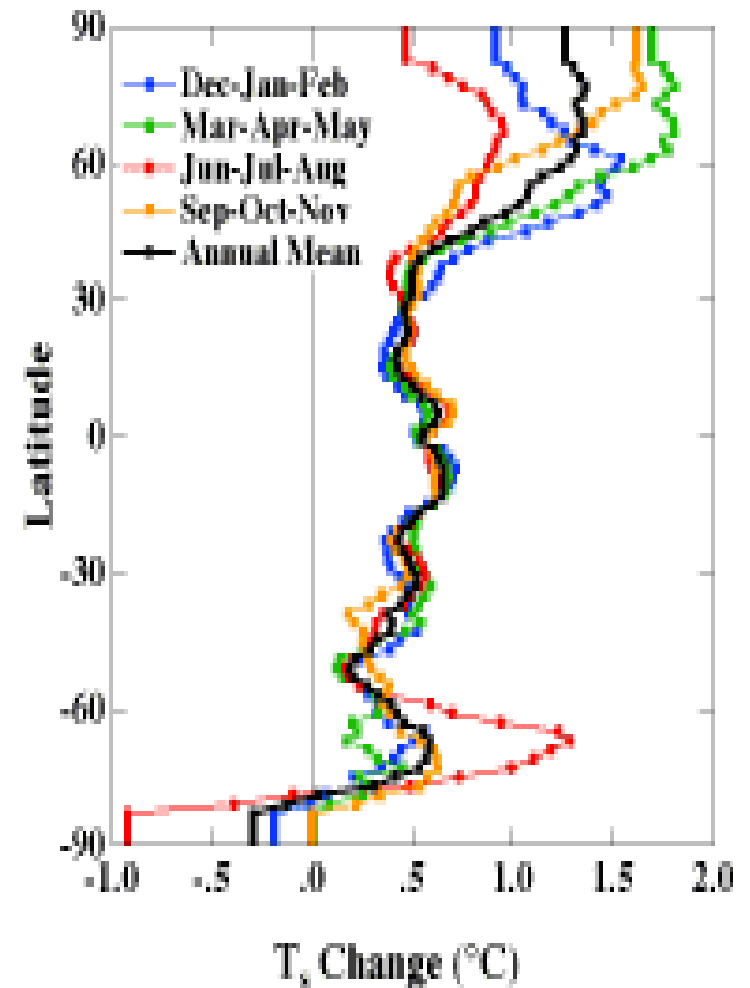
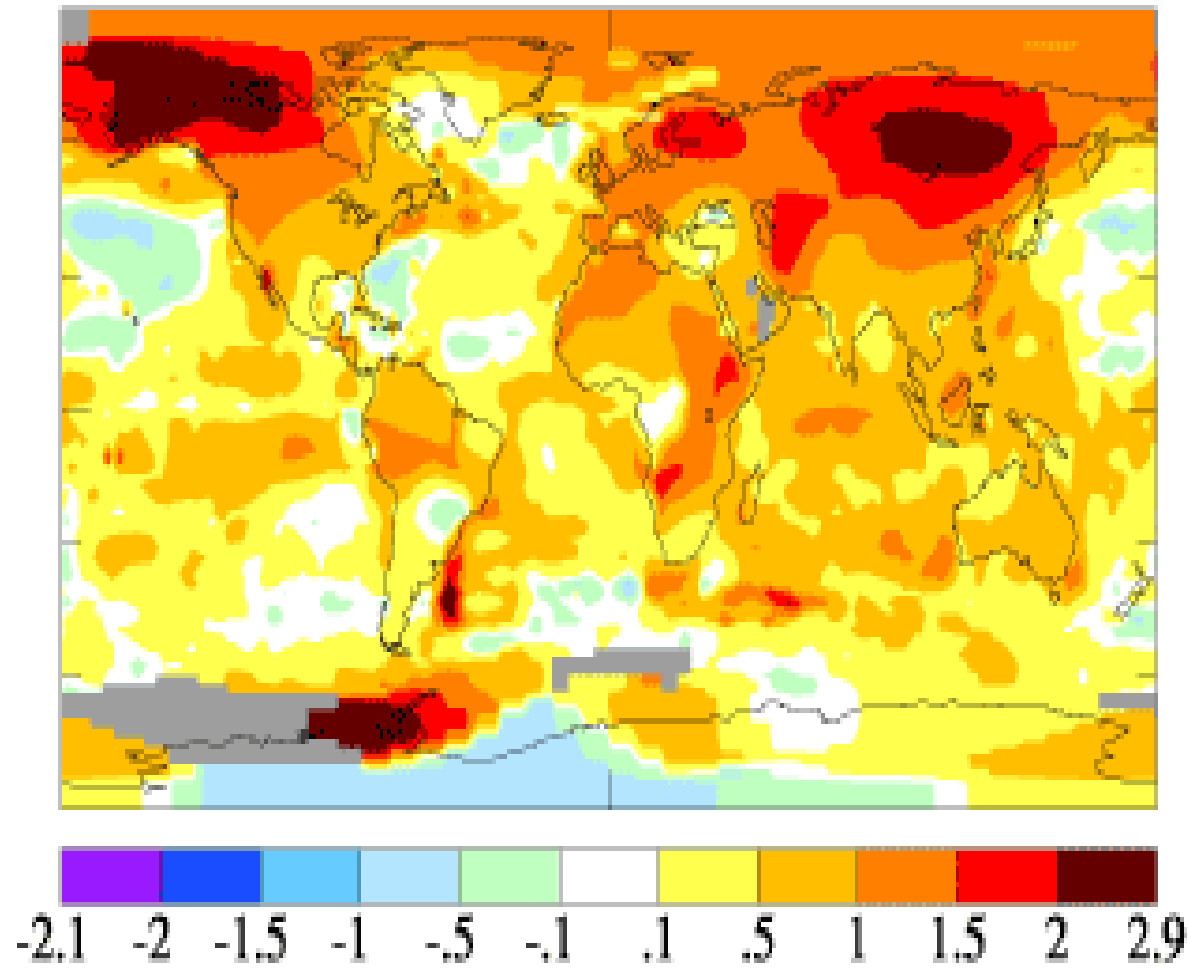
(a) Global-Mean Surface Temperature Anomaly ($^{\circ}\text{C}$)

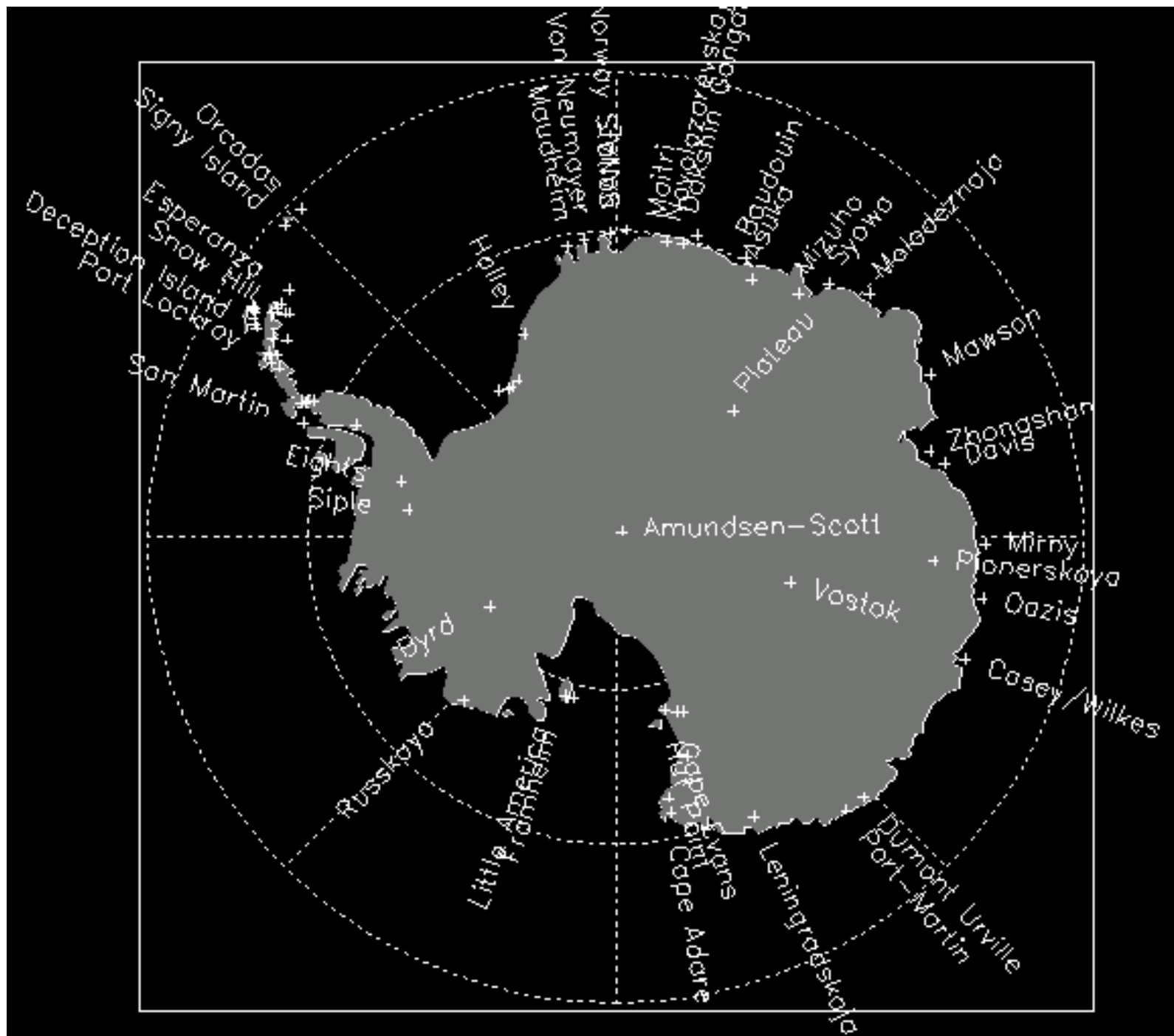


Last 50 Years Surface Temperature Change Based on Linear Trends (°C)

1955-2005 Annual Mean

.59





http://www.antarctica.ac.uk/met/stations/manned_stations.html

READER Projekt

READER (REference Antarctic Data for Environmental Research)

Projekt Antarktika Teaduskomiteelt (SCAR)

Eesmärk luua kõrge kvaliteediga
pikaajaline maapinnalähedase ja kõrgema õhukihi
meteoelementide andmebaas *in situ* mõõtesüsteemidest

Väärtuseks kasutusvõimalused kliimauuringutel
ja kliimamuutuste kindlakstegemisel

Kogutakse kuu- ja aastakeskmisi andmeid mehitatud või
naisetatud uurimisjaamadest ja automaatjaamadest
Vähemalt 25 aastat

Ei koguta laevadelt ja triivpoidelt

Maapinnalähedane õhutemperatuur ja tuule kiirus
keskmine õhurõhk merepinnale

Kõrgemate õhukihtide temperatuur
geopotsiaali kõrgus
tuule kiirus standardkõrgustel

READER

The data are arranged into three sections

Surface station data Temperatures Pressures Winds

Surface aws data Temperatures Pressures Winds

Upper air data Temperatures Heights

Temperatures are in degrees Celsius,

Pressures are in hecto-Pascals,

Wind speeds are in knots and

Heights are in metres

Grytviken Metadata

King Edward Point, Grytviken, South Georgia 54deg17'S 36deg29'W

1905

Data collection begins

1970

12z, 18z, 00z manual observations, 06z observations from autographic records

1970

Instruments in use

Thermograph, Barograph, Thermometers, Munro Mk.1b anemometer, Kew pattern barometer

1971 February

PAB replaces Kew pattern barometer

1971 March

Three hourly manual obs

1974

Munro Mk.4a replaces Munro Mk.1B

1978 January

Thermometer screen moved

1980 April

PT100 PRTs replace thermometer and are situated in a different place

1980 April

Vector A100 anemometer replaces Munro Mk.4a

1980 April

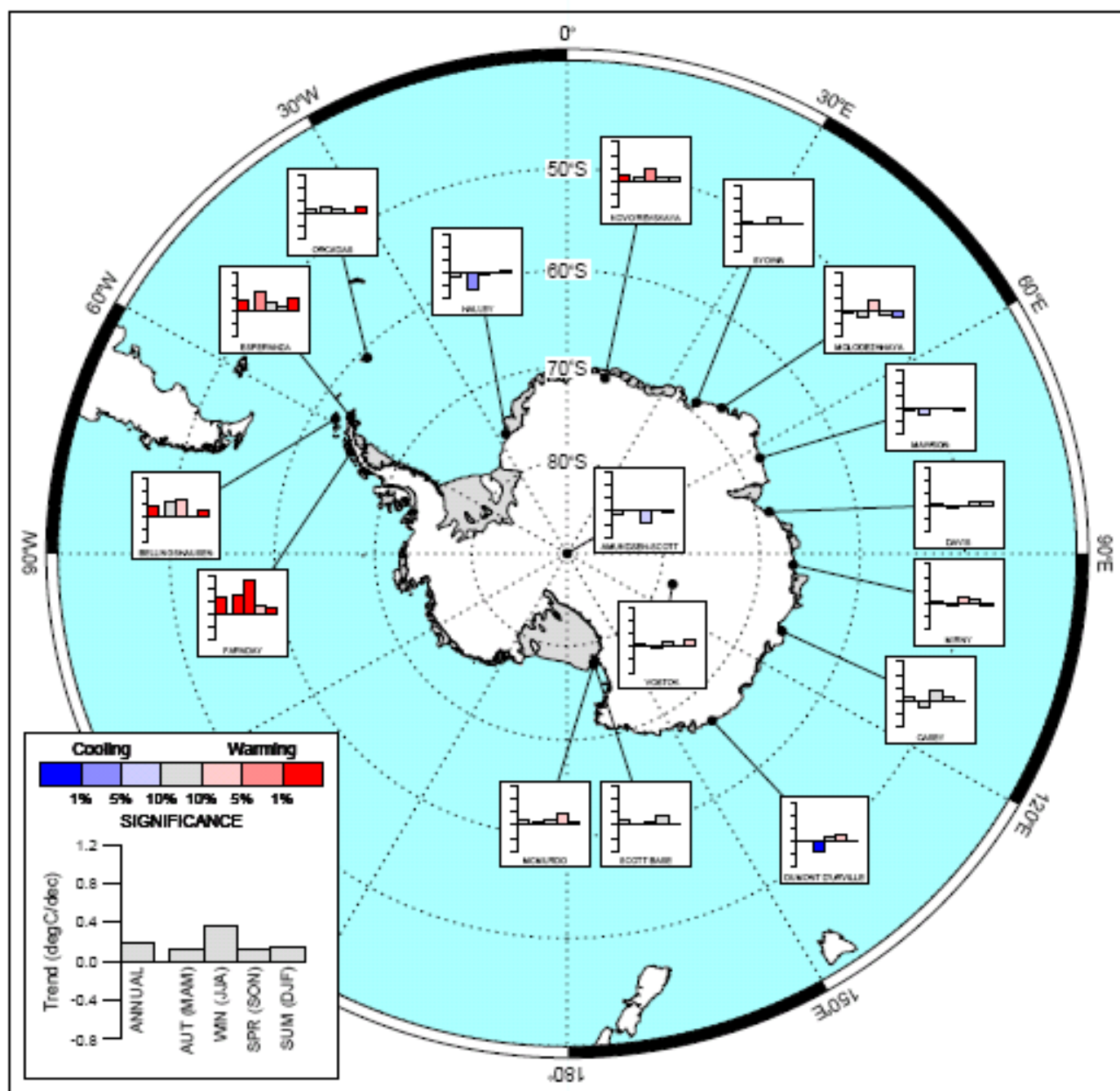
KDG pressure sensor replaces PAB

1982

Base becomes military, no metadata available

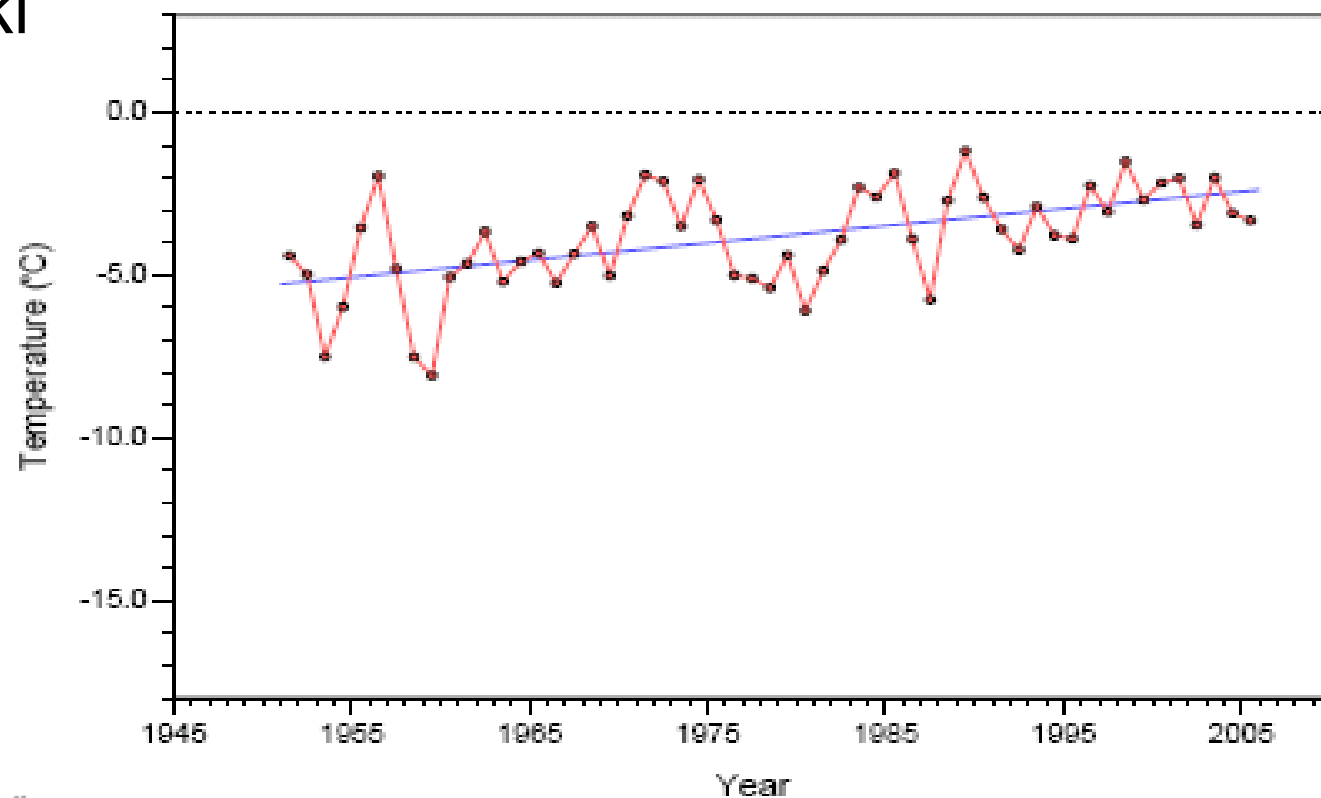
Thermometer screen moved

Barometer height assumed to have changed

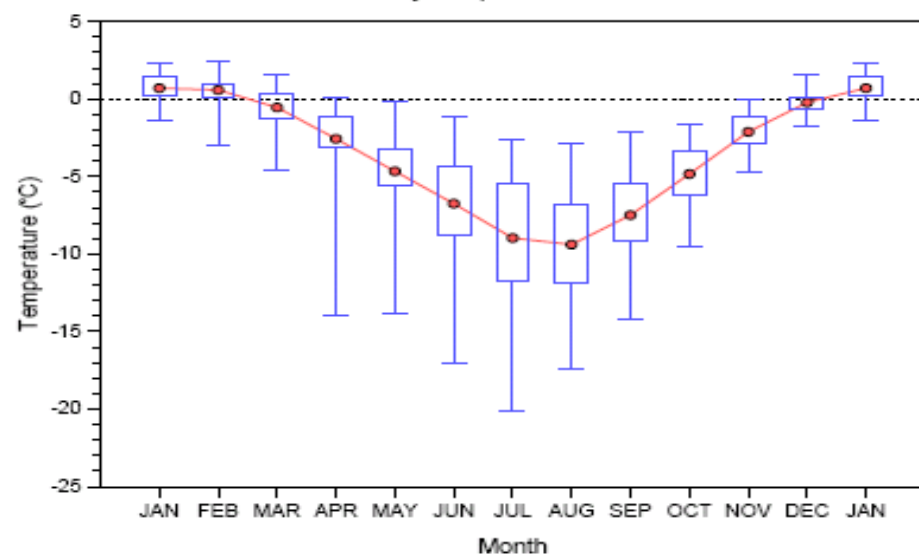


Faraday-Vernadski

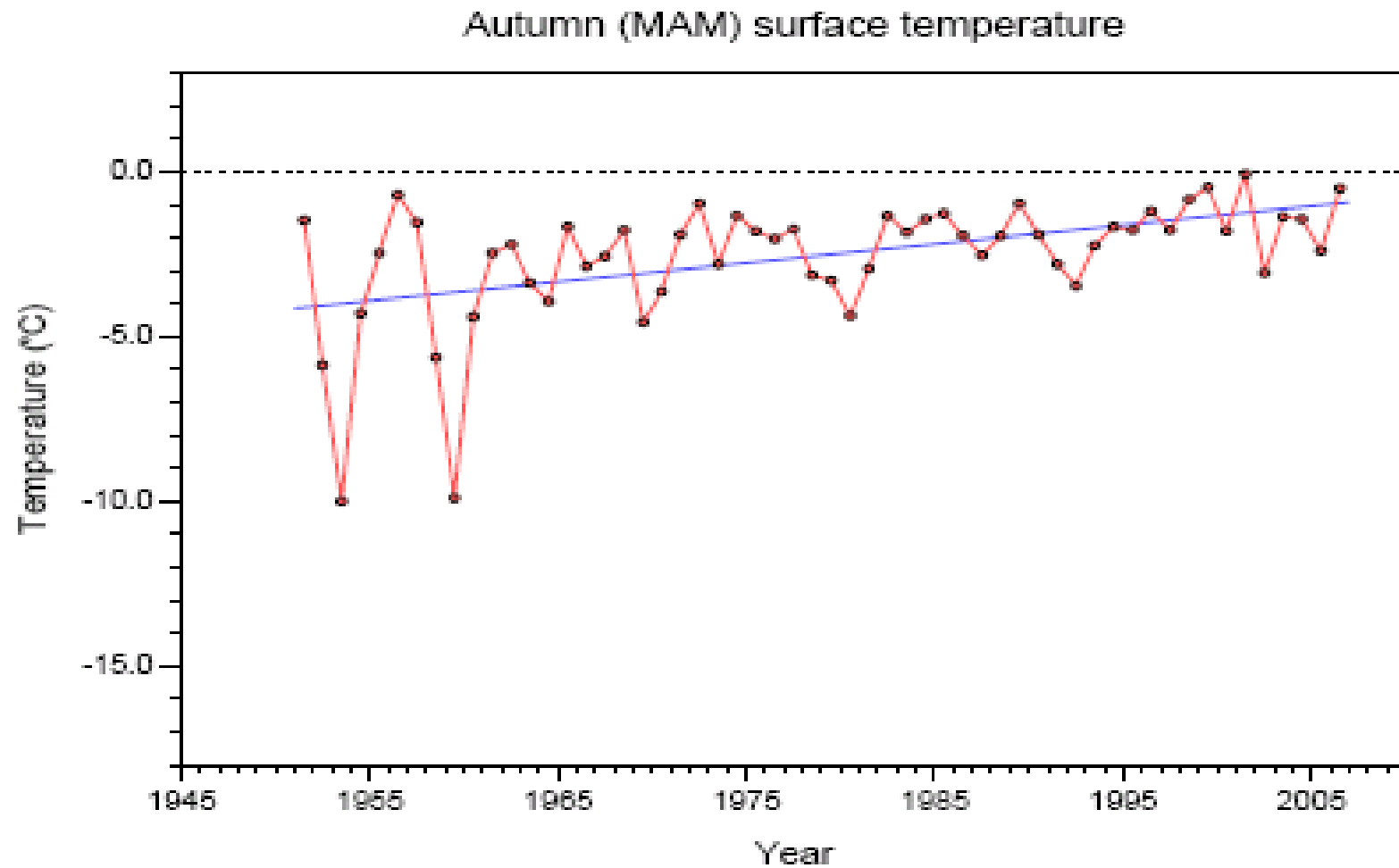
Annual surface temperature



Monthly temperature statistics

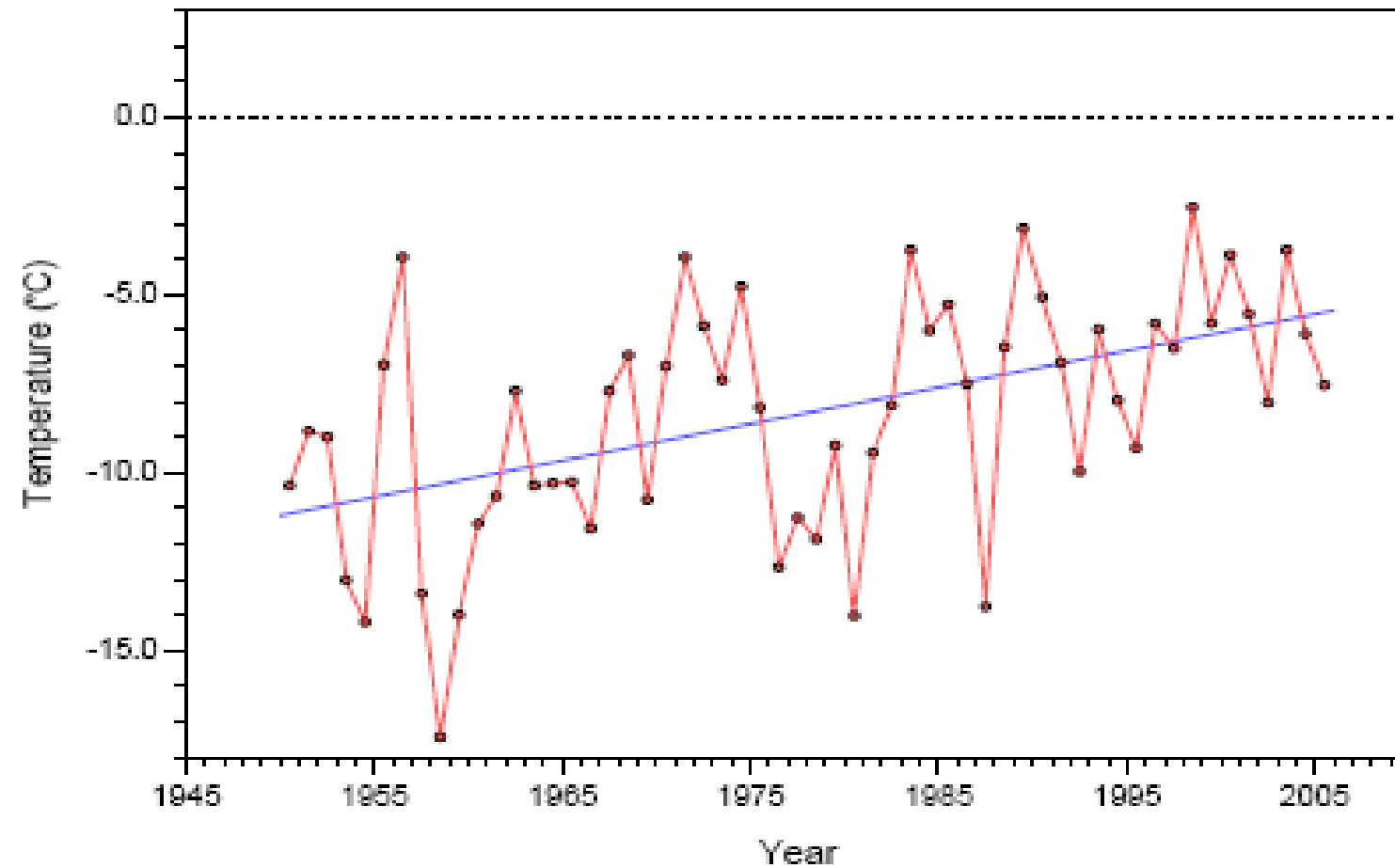


Faraday-Vernadski

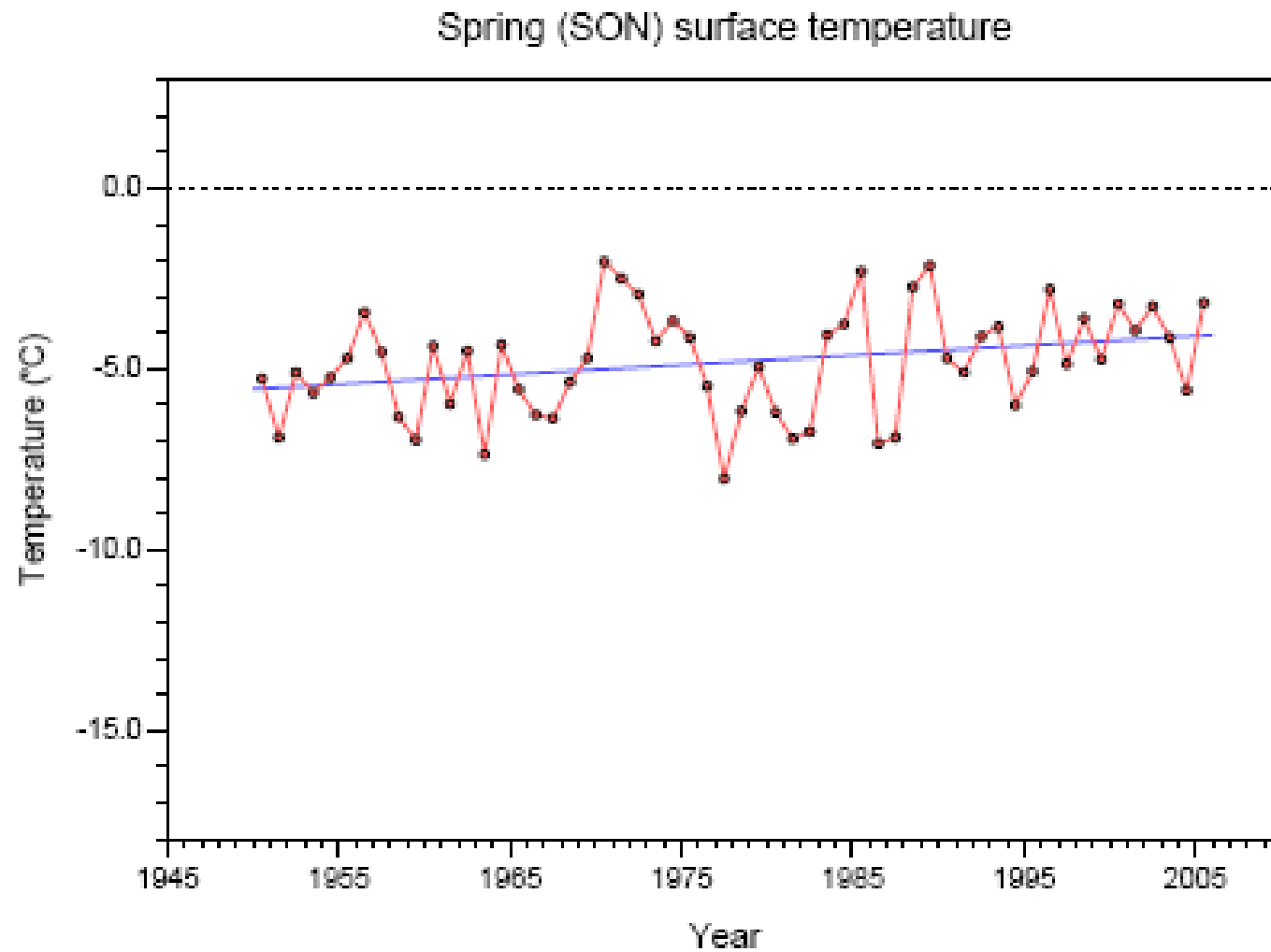


Faraday-Vernadski

Winter (JJA) surface temperature

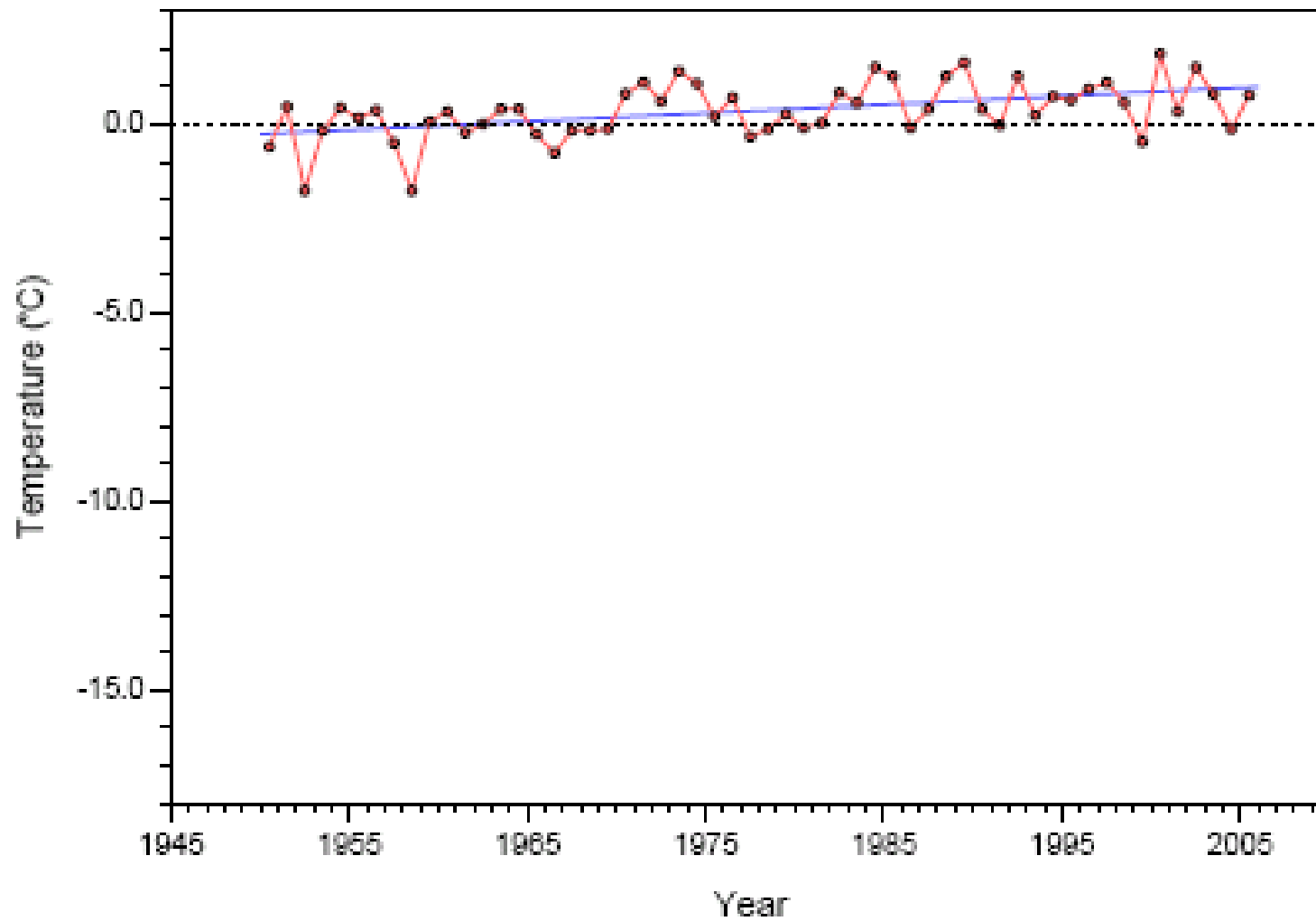


Faraday-Vernadski

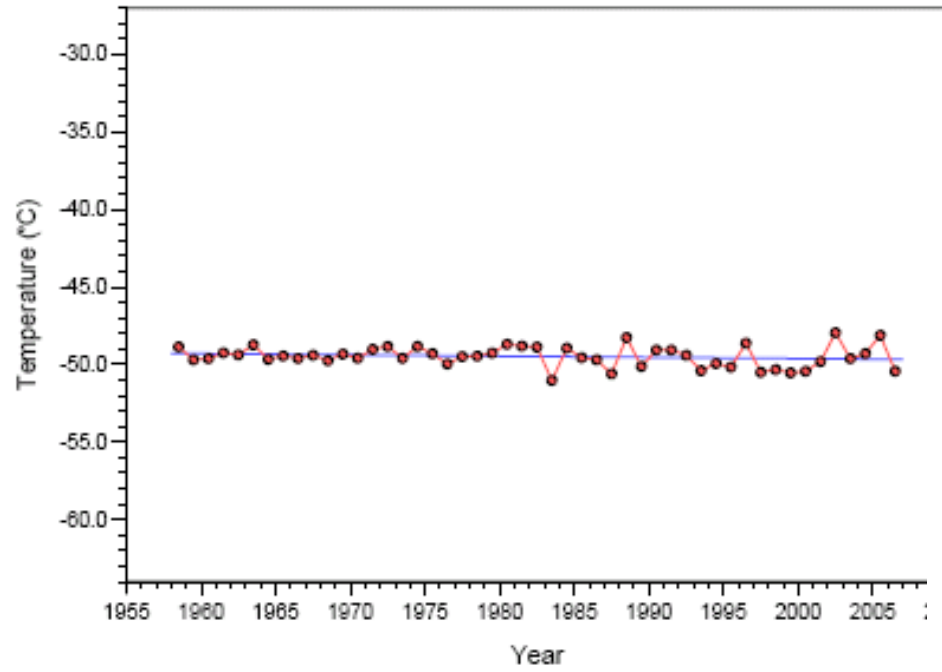


Faraday-Vernadski

Summer (DJF) surface temperature



Annual surface temperature



Amundsen-Scott

Vostok

Annual surface temperature

