

ANTARKTİKA'DA TÜRK ARAŞTIRMA ÜSSÜ KURULMASI
II. ÇALIŞTAYI

ANTARKTİKA'YA YOL HARİTASI

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İTÜ Denizcilik Fakültesi

17 Haziran 2013

Resim: 2006 ODEN keşif – Burcu Özsoy Çiçek

iÇERİK

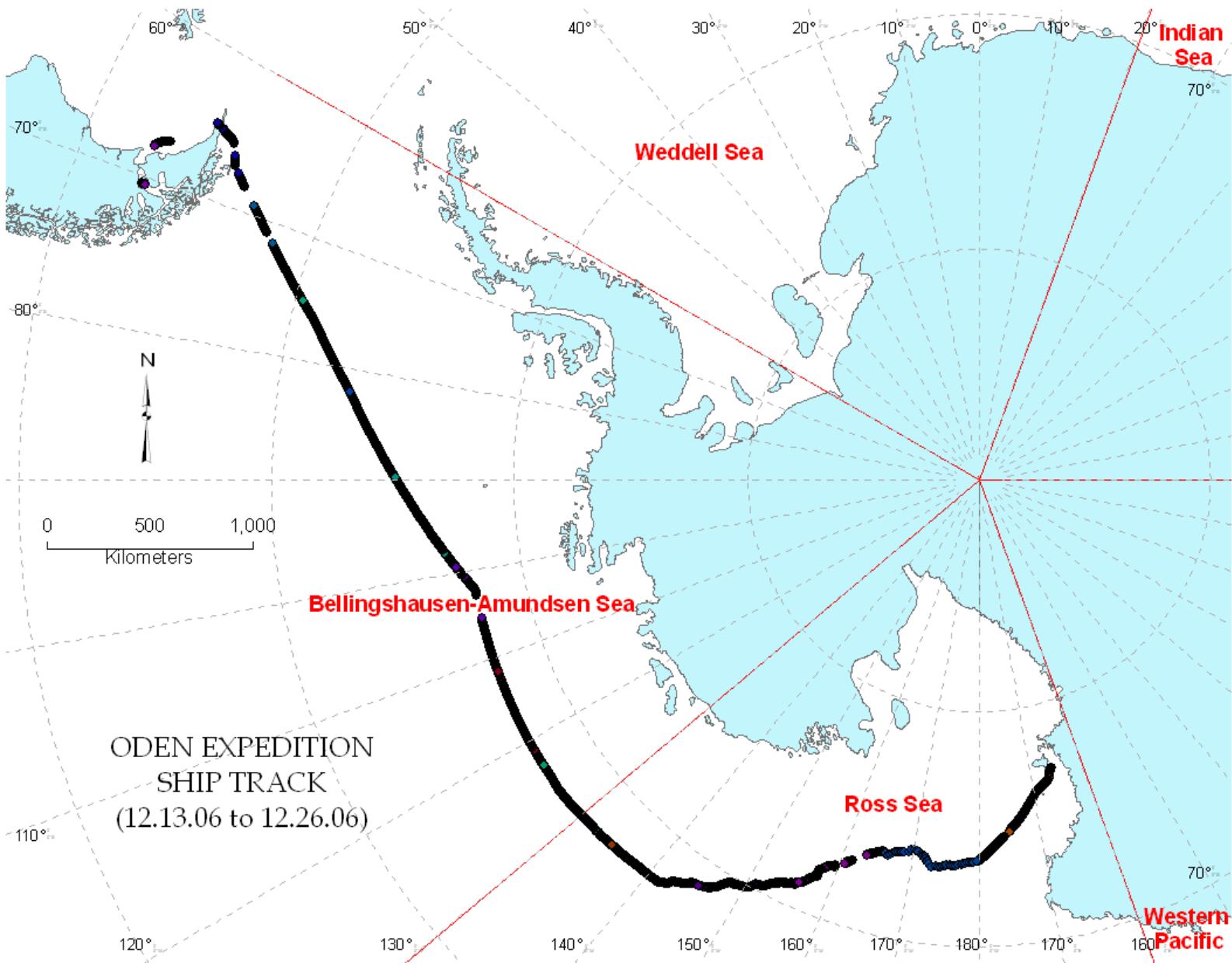
- 2006 Antarktika keşif (ODEN buzkırı)
- Motivasyon
- Yol haritası

A wide-angle photograph of a desolate, icy landscape. The foreground is covered in white, textured snow and numerous small, dark, jagged icebergs. In the middle ground, the terrain continues with more ice formations. The background is a hazy, overcast sky, suggesting a cold, polar environment.

**2006 ANTARKTİKA KEŞİF
ODEN BUZ KIRAN GEMİSİ**



2006 12 10





2006 12 10

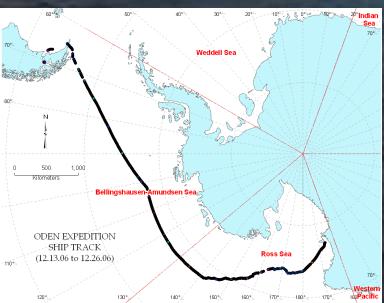
ODEN leaving Punta Arenas, Chile



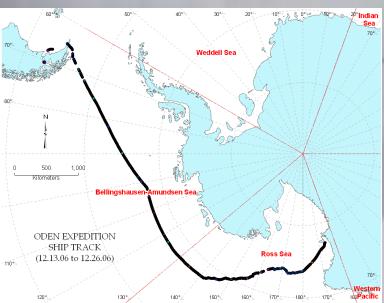
12 10:09 PM



21 5:58 PM

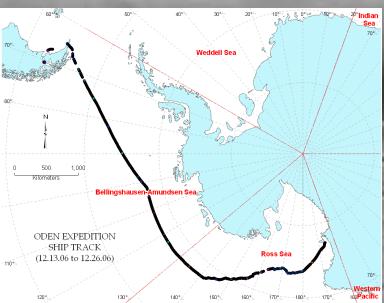


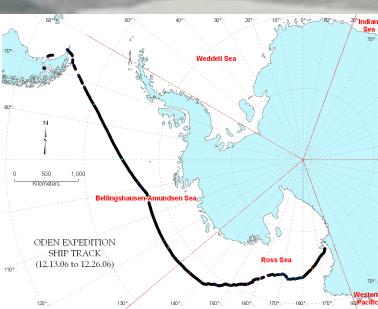


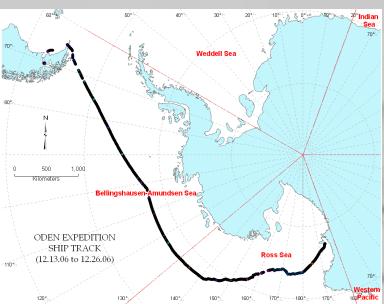


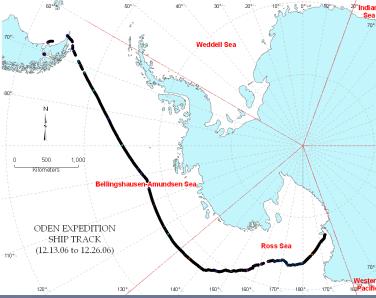


21 6:00 PM

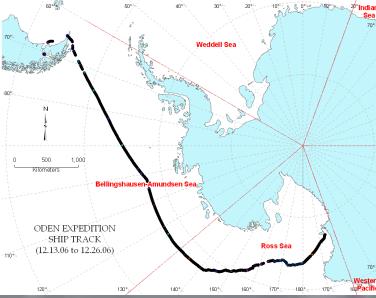




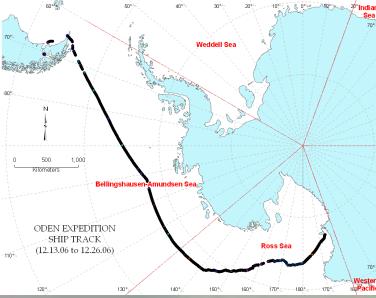




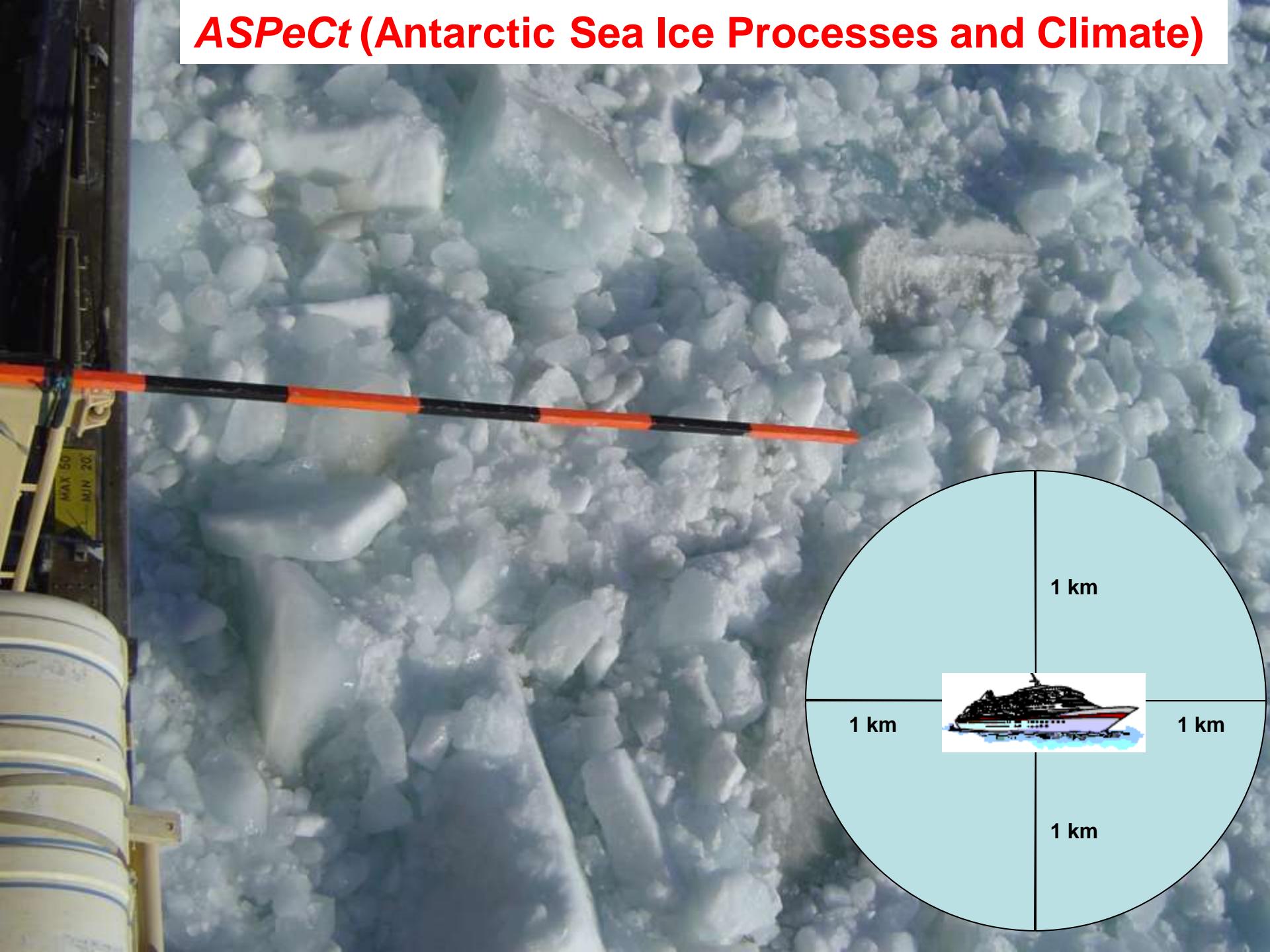
24 5:55 AM



26 1:19 AM



ASPeCt (Antarctic Sea Ice Processes and Climate)



Fast ice in McMurdo Sound



27 1:46 AM



2006/12/27



2006/12/27

Pick up scientist and teacher team to the McMurdo Station



27 4:50 AM



27 7:30 PM



2006/12/27



View of the McMurdo Station from the Helicopter

27 8:05 PM



27

8:05 PM



RICHARD EVELYN BYRD
REAR ADMIRAL UNITED STATES NAVY
OCTOBER 25, 1888 - MARCH 11, 1957



I AM HOPEFUL THAT ANTARCTICA IN ITS SYMBOLIC
ROBE OF WHITE WILL SHINE FORTH AS A CONTINENT
OF PEACE AS NATIONS WORKING TOGETHER THERE
IN THE CAUSE OF SCIENCE SET AN EXAMPLE OF
INTERNATIONAL COOPERATION

TO ALL WHO FOLLOW IN ADMIRAL BYRD'S FOOTSTEPS
THIS MONUMENT IS DEDICATED

NATIONAL GEOGRAPHIC SOCIETY

27 8:16PM

Passing through the Scott Base, New Zealand



28 1:49 AM



2006/12/27

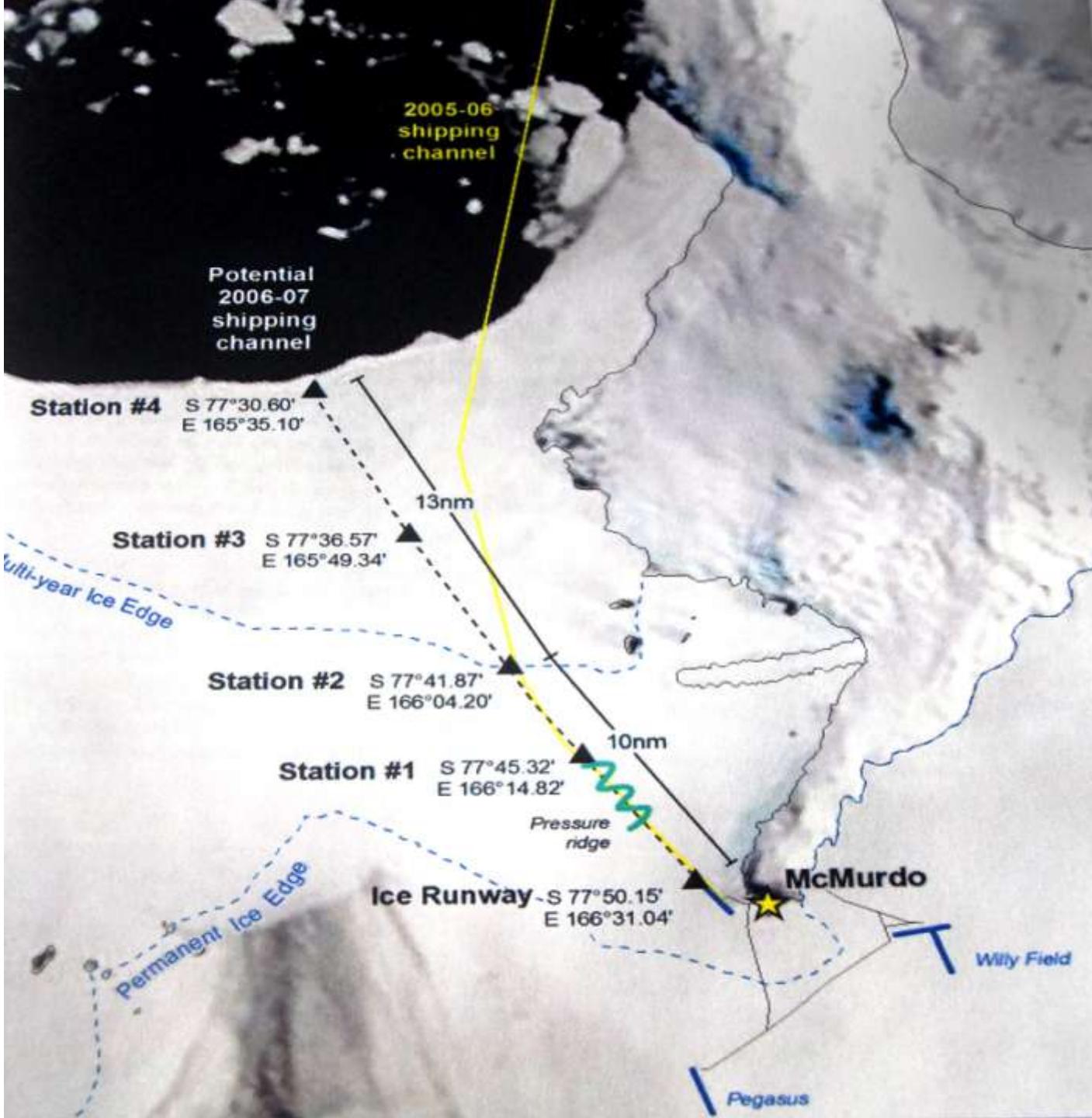
Finally, we arrived at the airplane on the ice sheet



28 2:46 AM



28 8:07 AM



A wide-angle photograph of a desolate, rocky terrain. The ground is covered in light-colored sand or gravel, with numerous dark, irregularly shaped rocks scattered across it. In the far distance, a few small, dark structures, possibly buildings or industrial facilities, are visible against a cloudy, overcast sky.

MOTİVASYON

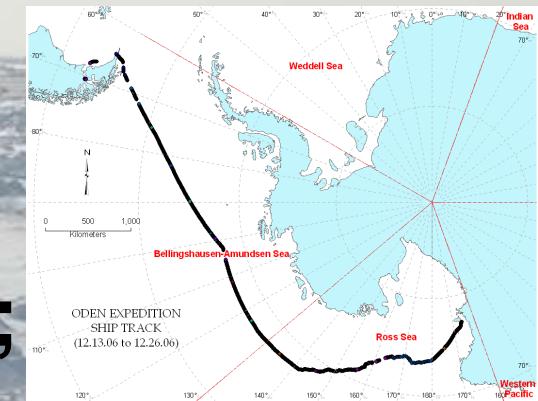
Antarktikada yapıcıak çok işimiz var!



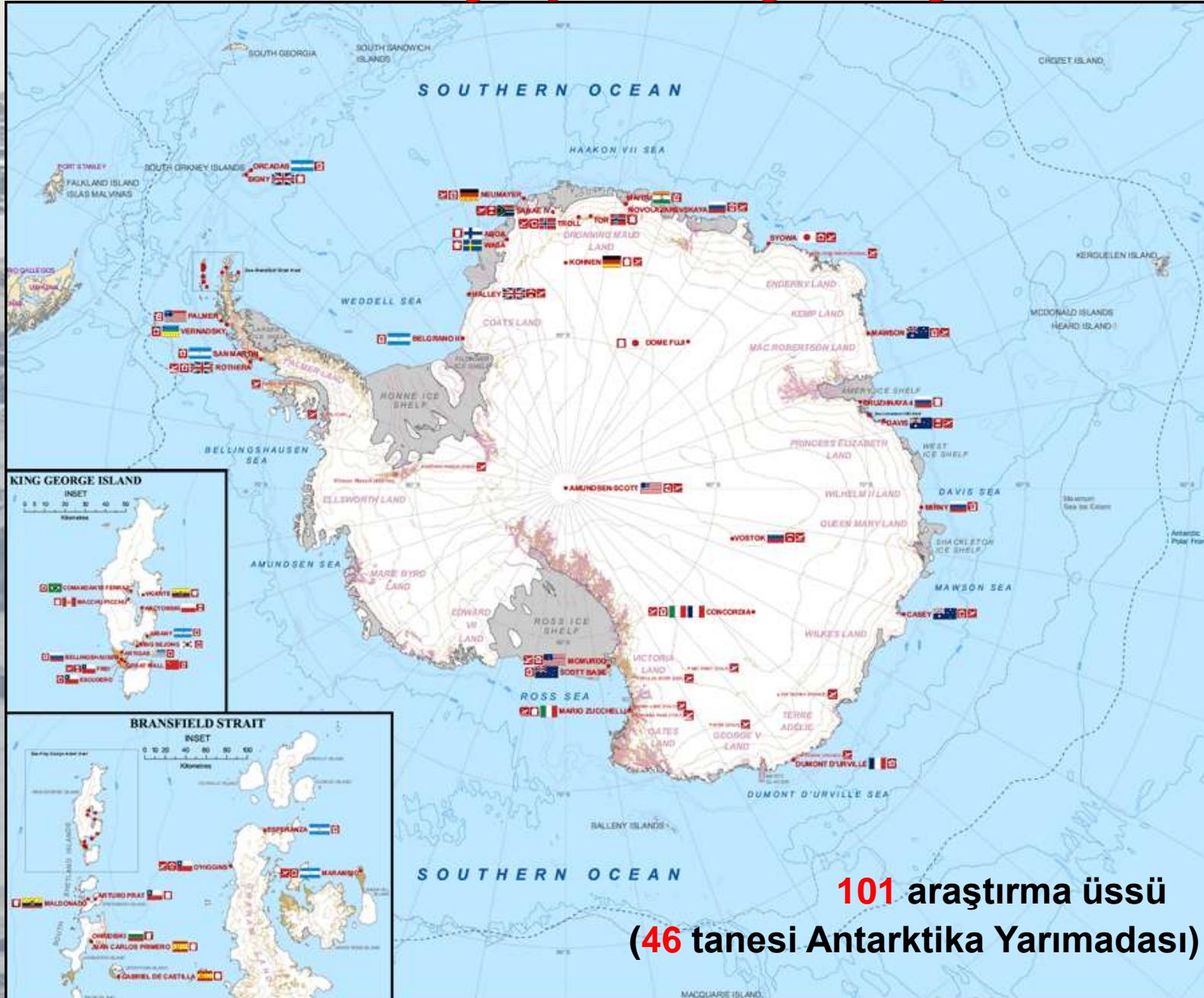
Antarktikada yapıcak çok işimiz var!

Antarktika'da kurulu **29** ülkeye ait;

101 araştırma üssü bulunmaktadır (**46** tanesi
Antarktika Yarımadası ve çevresindeki
adalardadır).



Antarktikada yapıcak çok işimiz var!



Antarktikada yapıcak çok işimiz var!

Aboa	SUMMER	Finland	1988	Finnish Antarctic Research Program	Queen Maud Land
Vernadsky Research Base	PERMANENT	Ukraine	1994	National Antarctic Scientific Center	Galindez Island
Almirante Brown Antarctic Base	Summer	Argentina	1951	Argentine Antarctic Institute	Antarctic Peninsula
Amundsen–Scott South Pole Station	Permanent	United States	1957	United States Antarctic Program	Geographical South Pole
Artigas Base	Permanent	Uruguay	1984	Uruguayan Antarctic Institute	King George Island
Asuka Station	UNMANNED OBSERVATION	Japan	1985	National Institute of Polar Research	Queen Maud Land
Belgrano II	Permanent	Argentina	1979	Argentine Antarctic Institute	Coats Land
Bellingshausen Station	Permanent	Russia	1968		King George Island
Bernardo O'Higgins Station	Permanent	Chile	1948	Chilean Army, Logistics	Antarctic Peninsula
Bharati	Permanent	India	2012	Indian Antarctic Program	Larsemann Hills
Byrd Station	Summer	United States	1957	United States Antarctic Program	Marie Byrd Land
Captain Arturo Prat Base	Permanent	Chile	1947	Chilean Navy	Greenwich Island
Casey Station	Permanent	Australia	1957	Australian Antarctic Division	Vincennes Bay
Comandante Ferraz Brazilian Antarctic Base	Permanent	Brazil	1984	Brazilian Antarctic Program	King George Island
Concordia Station	Permanent	France Italy	2005		Dome C, Antarctic Plateau
Dakshin Gangotri Station	Replaced by Maitri Station	India	1984~1991	Indian Antarctic Program	Queen Maud Land
Davis Station	Permanent	Australia	1957	Australian Antarctic Division	Princess Elizabeth Land
Dome Fuji Station	Permanent	Japan	1995	National Institute of Polar Research	Queen Maud Land

Antarktikada yapıcak çok işimiz var!

Dumont d'Urville Station	Permanent	France	1956		Adélie Land
Base Presidente Eduardo Frei Montalva and Villa Las Estrellas	Permanent	Chile	1969	Chilean Air Force	King George Island
Esperanza Base	Permanent	Argentina	1975	Argentine Antarctic Institute	Hope Bay
Gabriel de Castilla Spanish Antarctic Station	Summer	Spain	1989	Marine biology	Deception Island
Georg von Neumayer Station	Replaced by Neumayer Station	Germany	1981-1992	Alfred Wegener Institute	Queen Maud Land
Gonzalez Videla Station	Summer	Chile	1951	Chilean Air Force	Paradise Bay, Water Boat Point.
Great Wall Station	Permanent	China	1985	Meteorology	King George Island
Halley Research Station	Permanent	United Kingdom	1956	British Antarctic Survey	Brunt Ice Shelf
Henryk Arctowski Polish Antarctic Station	Permanent	Poland	1977	Polish Academy of Sciences	King George Island
Jang Bogo Station (proposed)	Permanent	South Korea	2014	Korea Antarctic Research Program	Terra Nova Bay
Jinnah Antarctic Station	Summer	Pakistan	1991	Pakistan Antarctic Programme	Sør Rondane Mountains, Queen Maud Land
Juan Carlos I Antarctic Base	Summer	Spain	1988	CSIC. Laboratory, investigation and meteorological station.	South Bay, Livingston Island
Jubany	Permanent	Argentina	1953	Argentine Antarctic Institute	King George Island
King Sejong Station	Permanent	South Korea	1988	Korea Antarctic Research Program	King George Island
Kohnen-Station	Summer	Germany	2001	Alfred Wegener Institute	Queen Maud Land
Kunlun Station	Summer	China	2009	Chinese Arctic and Antarctic Research Institute	Princess Astrid Coast

Antarktikada yapıcı çok işimiz var!

Law-Racoviță Station	Summer	Romania	1986	Romanian Polar Research Institute	Larsemann Hills, Princess Elizabeth Land
Leningradskaya Station	Re-opening in 2007/2008	Russia	1971	Russian Antarctic Expedition	Oates Coast, Victoria Land
Machu Picchu Research Station	Summer	Peru	1989	Peruvian Antarctic Institute (INANPE)	Admiralty Bay, King George Island
Maitri Station	Permanent	India	1989	Indian Antarctic Program	Schirmacher Oasis
Maldonado Base	Summer	Ecuador	1990		Greenwich Island
Marambio Base	Permanent	Argentina	1969	Argentine Antarctic Institute	Seymour-Marambio Island
Mario Zucchelli Station	Summer	Italy	1986	Oceanobiology, Oceanography, Geology, Geomorphology, Glaciology, Meteorology, Climatology, Seismology, Magnetism and Ecology	Terra Nova Bay, Ross Sea
Mawson Station	Permanent	Australia	1954	Australian Antarctic Division	Mac Robertson Land
McMurdo Station	Permanent	United States	1956	United States Antarctic Program	Ross Island
Mendel Polar Station	Summer	Czech Republic	2006	biological, geological and climate research	James Ross Island
Mirny Station	Permanent	Russia	1956	glaciology, seismology, meteorology, polar lights, cosmic radiation, and marine biology	Davis Sea
Mizuho Station	irregular (transshipment station)	Japan	1970	National Institute of Polar Research	

Antarktikada yapıcak çok işimiz var!

Molodyozhnaya Station	Re-opening in 2007/2008	Russia Belarus	1962	Meteorolog Russian Antarctic Expedition	
Neumayer Station	Permanent	Germany	1992	Alfred Wegener Institute	Atka Bay
Neumayer-Station III	Permanent	Germany	2009	Alfred Wegener Institute	Atka Bay
Novolazarevskaya Station	Permanent	Russia	1961		Queen Maud Land
Orcadas Base	Permanent	Argentina	1904	Argentine Antarctic Institute, Argentine Navy	Laurie Island, South Orkney Islands
Palmer Station	Permanent	United States	1968	Science labs, a dock and a helicopter pad.	Anvers Island
Princess Elisabeth Base	Permanent	Belgium	2007	Energy-passive research station.	Queen Maud Land
Professor Julio Escudero Base	Permanent	Chile	1994	Chilean Antarctic Institute	King George Island
Progress Station	Summer	Russia	1988	Russian Antarctic Expedition	Prydz Bay
Rothera Research Station	Permanent	United Kingdom	1975	British Antarctic Survey	Adelaide Island
Russkaya Station	Re-opening in 2007/2008	Russia	1980	Russian Antarctic Expedition	Marie Byrd Land
San Martín Base	Permanent	Argentina	1951	Argentine Antarctic Institute	Barry Island
SANAE IV (South African National Antarctic Expedition)	Permanent	South Africa	1962 (SANAE I)	South African National Antarctic Programme	Vesleskarvet in Queen Maud Land
St. Kliment Ohridski Base	Permanent	Bulgaria	1988	Biological research, laboratorial and meteorological measurements. First Eastern Orthodox chapel, St. Ivan Rilski	Emona Anchorage, Livingston Island
Scott Base	Permanent	New Zealand	1957	Antarctic physical environments, Southern Ocean and Antarctic ecosystems.	Ross Island

Antarktikada yapıcak çok işimiz var!

Showa Station	Permanent	Japan	1957	National Institute of Polar Research	East Ongul Island
Signy Research Station	Summer (Permanent 1947-1995)	United Kingdom	1947	British Antarctic Survey	Signy Island, South Orkney Islands
Siple Station	Permanent	United States	1973	STAR Lab	
Svea Research Station	Summer	Sweden	1988	Swedish Polar Research Secretariat	Queen Maud Land
Tor Station	Summer	Norway	1993	Norwegian Polar Institute	Queen Maud Land
Troll Station	Permanent	Norway	1990	Norwegian Polar Institute	Queen Maud Land
WAIS Divide Camp	Summer	United States	2005	United States Antarctic Program, Collect a deep ice core	West Antarctic Ice Sheet
Wasa Research Station	Summer	Sweden	1989	Swedish Polar Research Secretariat	Queen Maud Land
Vostok Station	Permanent	Russia	1957	Russian Antarctic Expedition	Antarctic Ice Sheet
Zhongshan (Sun Yat-Sen) Station	Permanent	China	1989	Polar Research Institute of China (PRIC)	Larsemann Hills in Prydz Bay

Antarktikada yapıcak çok işimiz var!

NASIL İŞLETİLİYOR BU ÜSLER

29 ülkeye ait **101** üs, bu üslere ait POLAR programlar ve enstitütüler tarafından işletiliyor ve yürütülüyor.

Finnish Antarctic Research Program – Finlandiya

National Antarctic Scientific Center – Ukrayna

Argentine Antarctic Institute – Arjantin

United States Antarctic Program – A.B.D

National Institute of Polar Research – Japonya

Indian Antarctic Program – Hindistan

Australian Antarctic Division – Avustralya

Brazilian Antarctic Program – Brezilya

Alfred Wegener Institute – Almanya

British Antarctic Survey – İngiltere

Korea Antarctic Research Program – Kore

Pakistan Antarctic Programme – Pakistan

Chinese Arctic and Antarctic Administration – Çin

Romanian Polar Research Institute – Romanya

South African National Antarctic Programme – Güney Afrika...

A wide-angle photograph of a desolate, rocky terrain. The foreground is covered in light-colored sand or gravel with numerous dark, irregularly shaped rocks scattered across it. In the distance, a range of low hills or mountains is visible under a sky filled with heavy, grey clouds.

YOL HARİTASI

1.Türk Kutup Araştırma Programı (TÜKAP) (Bilimsel boyutu)

- Arktik Birimi

- Antarktik Birimi

Yapılacak çalışmalar: Deniz biyolojisi, Deniz kimyası, Oşinografi, Jeoloji, Jeomorfoloji, Buzullar (deniz ve kara), Meteoroloji, İklim bilimi, Seismoloji, Magnetism, ASPeCt gözlemleri ve ekoloji

1.Türk Kutup Araştırma Programı (TÜKAP) (Bilimsel boyutu)

SCAR (Scientific Committee on
Antarctic Research)

APECS (*Association of Polar Early
Career Scientists*)

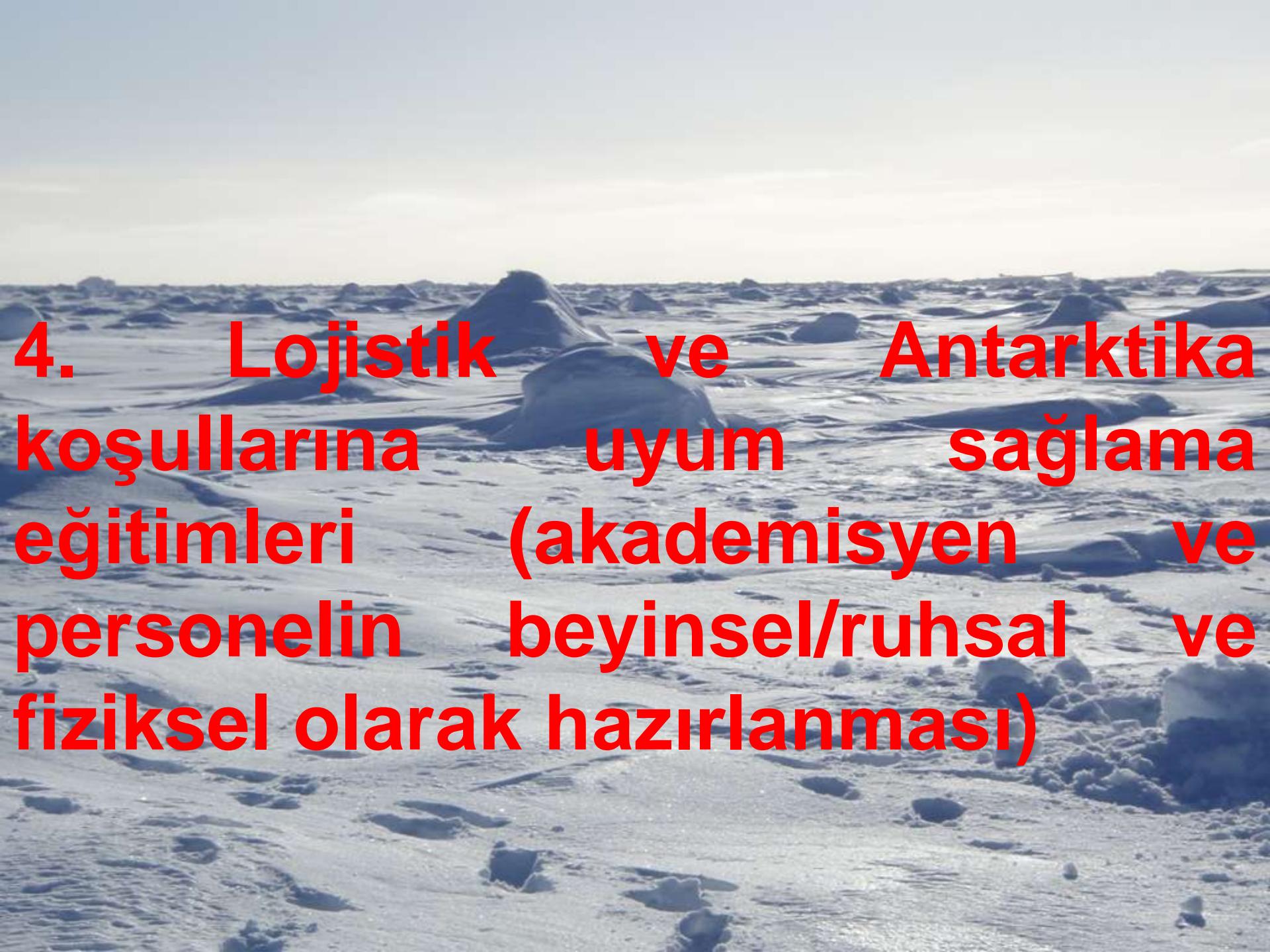
2. Diğer Antarktik Programlarla İletişime girilmesi

**Güney Kore - Jang Bogo Station
Korea Antarctic Research Program
yetkileri ile (de) Brükselde görüşüldü.**

3. Antarktika Antlaşmasına ek diğer protokollerin imzalanması (siyasi boyutu)

Bakanlıklar (?) tarafından takibi

Gözlemci statüsünden çıkmak, Üsküduru mu için protokollere taraf olmak

The background of the slide is a photograph of a snowy, icy terrain, likely the Antarctic landscape mentioned in the text. The foreground is covered in white snow, with several large, dark blue-grey icebergs of various sizes scattered across the scene. The horizon is flat, and the sky above is a pale, clear blue.

4. Lojistik koşullarına ve uyum sağlama eğitimleri (akademisyen beyinsel/ruhsal ve fiziksel olarak hazırlanması)



TEŞEKKÜRLER!

Resim: 2006 ODEN keşif – Burcu Özsoy Çiçek