
行走南极：探索地球
最南端的奥秘

南极终年积雪，98%的大陆表面均被冰雪覆盖

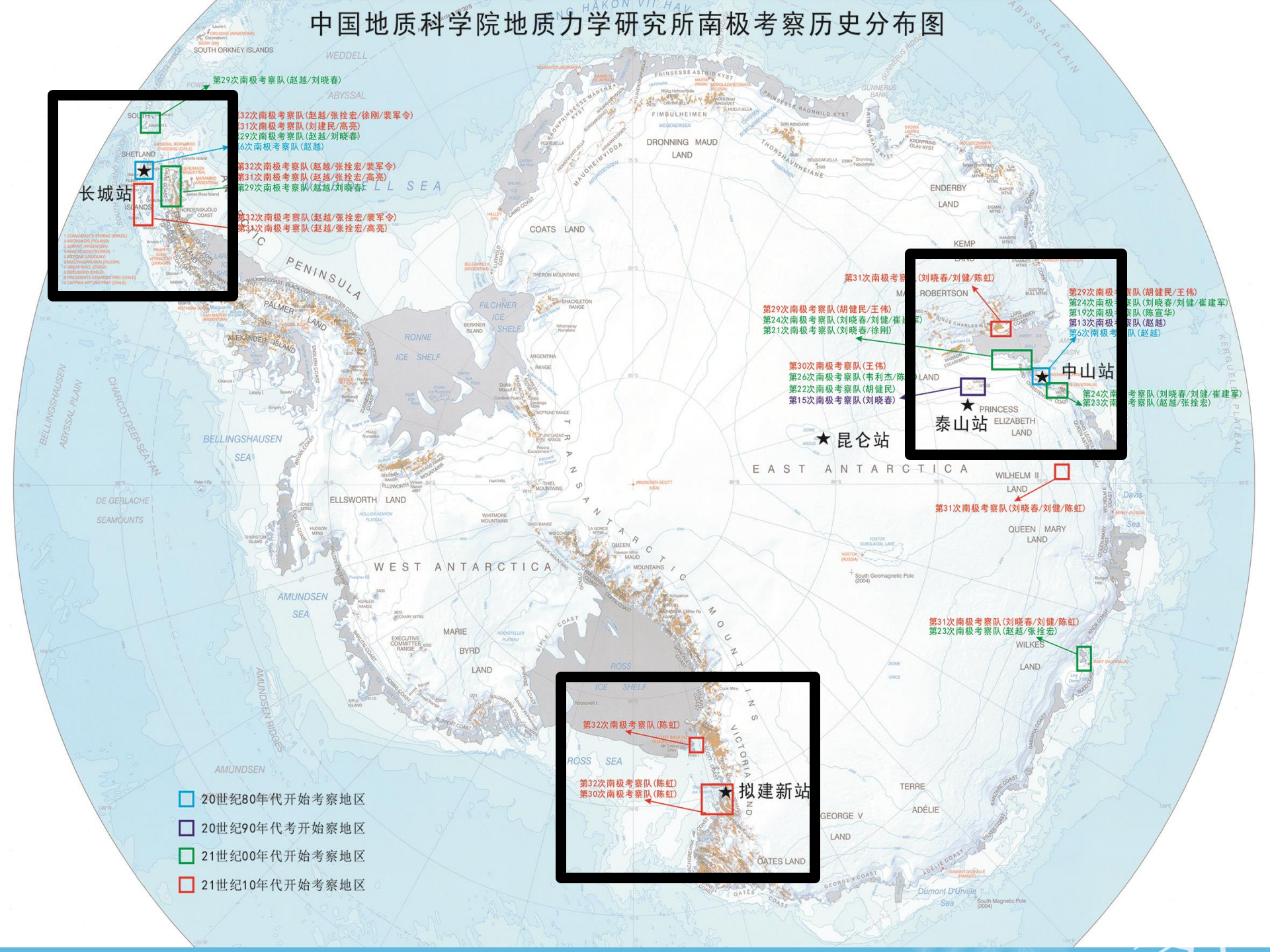
南极是世界上最寒冷的大陆，最低温度为-89.2℃

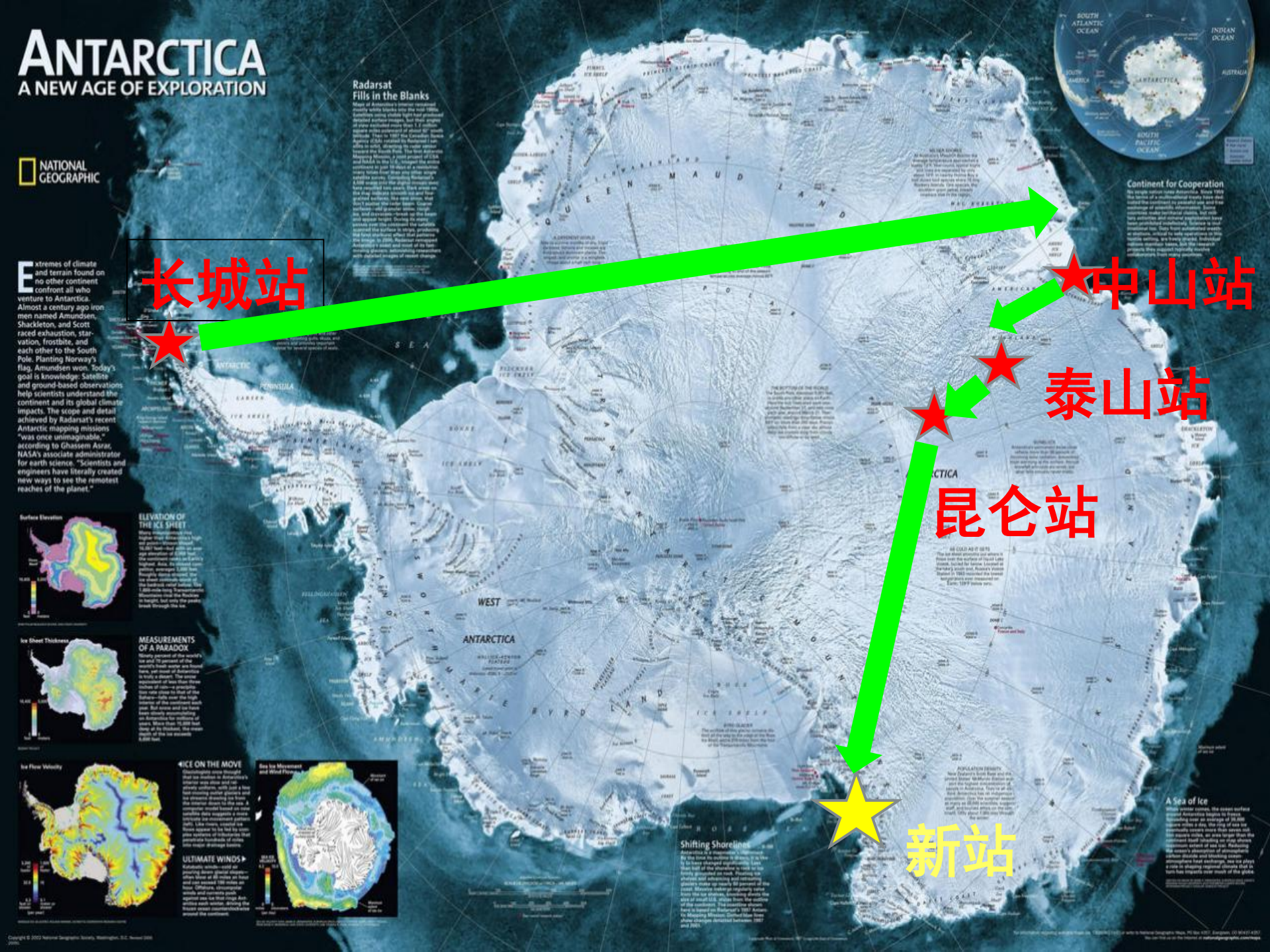
南极是世界上风最大的大陆，最大风速达100米/秒


ANTARCTICA
A NEW AGE OF EXPLORATION
NATIONAL GEOGRAPHIC
Radarsat Fills in the Blanks
Extremes of climate and terrain found on no other continent confront all who venture to Antarctica. Almost a century ago iron men named Amundsen, Shackleton, and Scott raced exhaustion, starvation, frostbite, and each other to the South Pole. Planting Norway's flag, Amundsen won. Today's goal is knowledge: Satellite and ground-based observations help scientists understand the continent and its global climate impacts. The scope and detail achieved by Radarsat's recent Antarctic mapping missions "was once unimaginable," according to Ghassem Asrar, NASA's associate administrator for earth science. "Scientists and engineers have literally created new ways to see the remotest reaches of the planet."
Surface Elevation
ELEVATION OF THE ICE SHEET
Ice Sheet Thickness
MEASUREMENTS OF A PARADOX
Ice Flow Velocity
ICE ON THE MOVE
ULTIMATE WINDS
Sea Ice Movement and Wind Flow
Continent for Cooperation
A Sea of Ice
Shifting Shorelines
EAST ANTARCTICA
WEST ANTARCTICA
SOUTH ATLANTIC OCEAN
INDIAN OCEAN
SOUTH AMERICA
AUSTRALIA
SOUTH PACIFIC OCEAN
ANTARCTICA

南 极 大 陆

中国地质科学院地质力学研究所南极考察历史分布图

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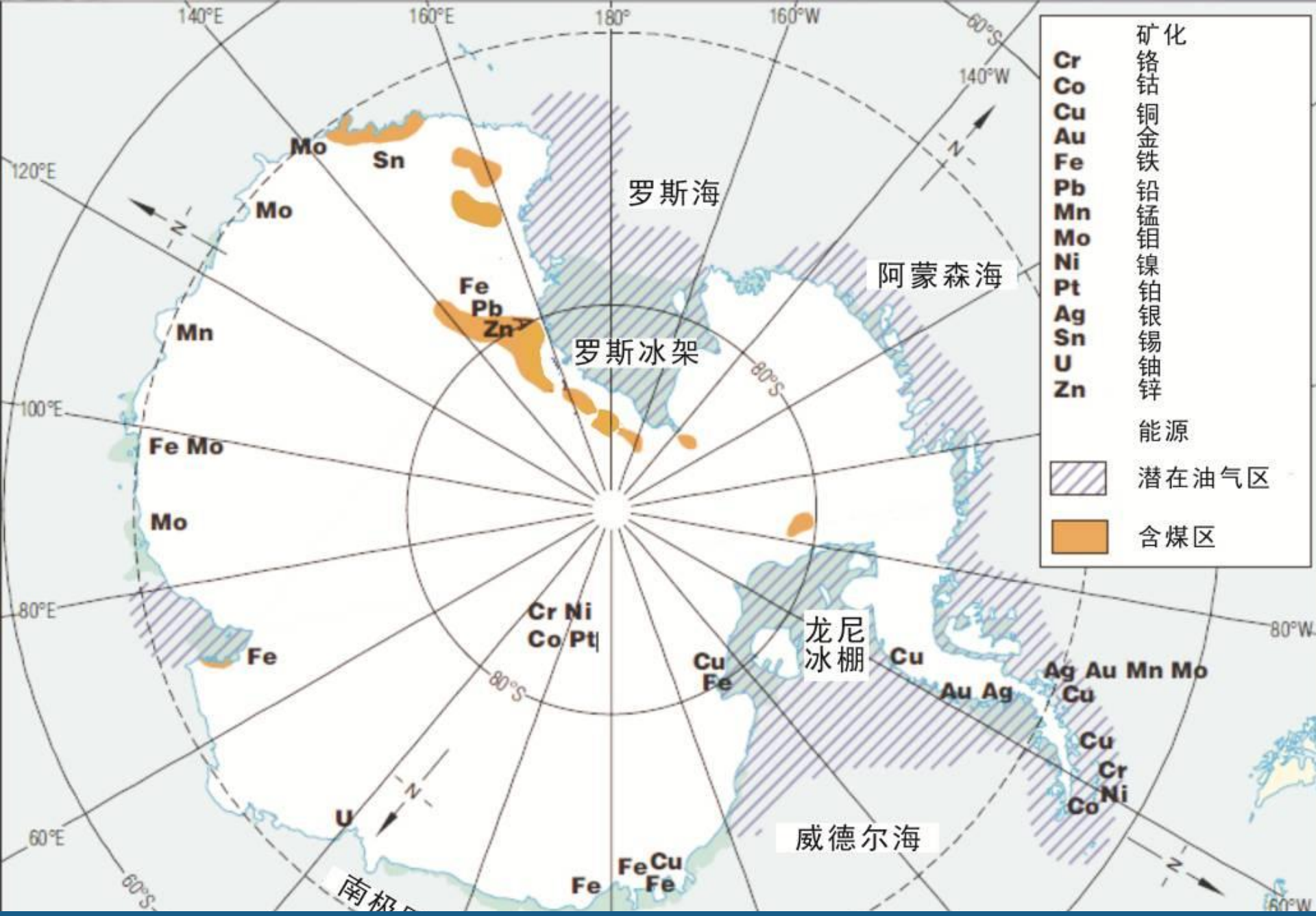
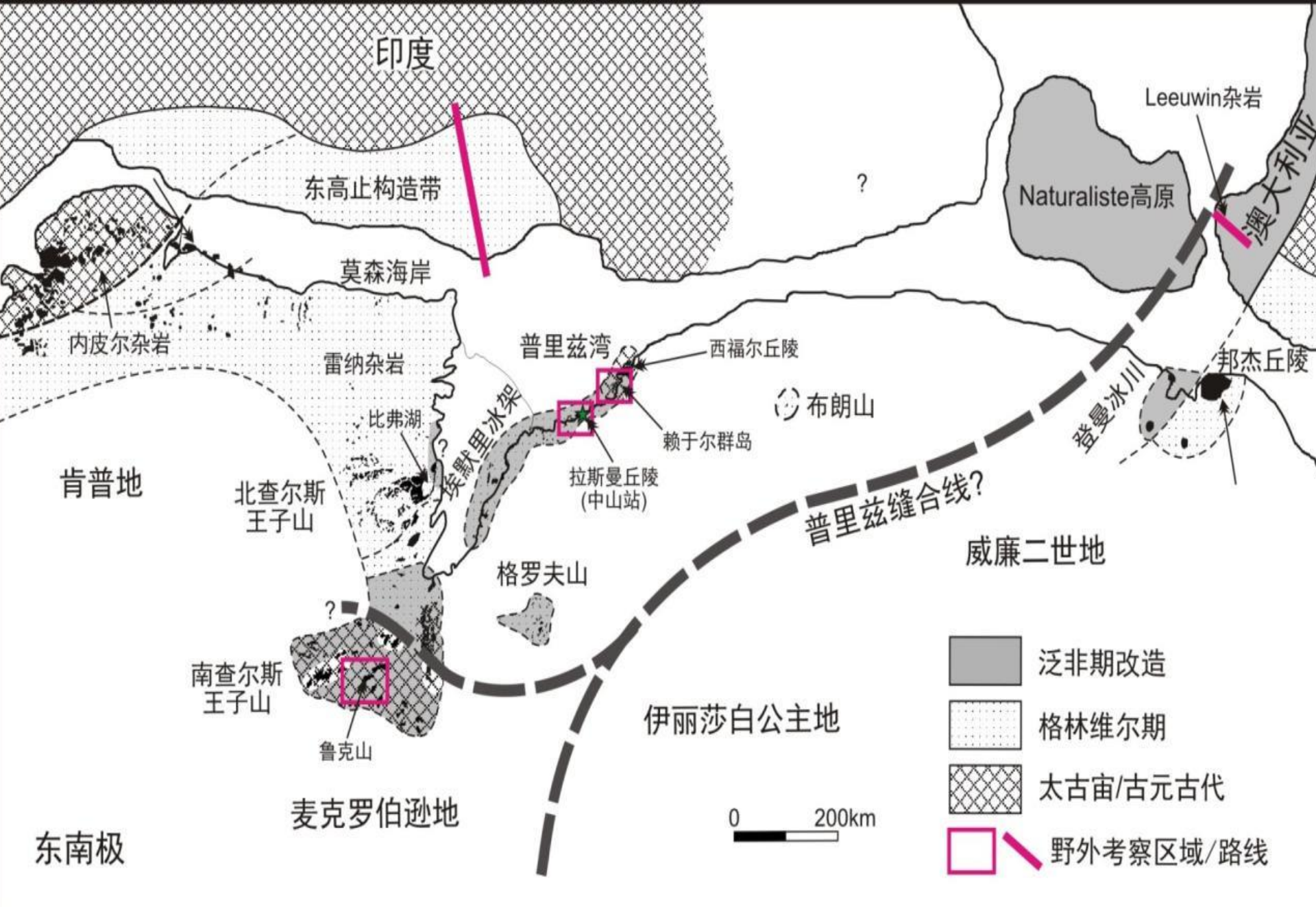
WEST ANTARCTICA
长城站
中山站
泰山站
昆仑站
新站


140°E
160°E
180°
160°W
140°W
120°E
100°E
80°E
80°W
60°E
60°W
60°S
80°S
罗斯海
阿蒙森海
罗斯冰架
龙尼冰棚
威德尔海
南极
Mo
Sn
Mo
Fe
Pb
Zn
Mn
Fe Mo
Mo
Fe
Cr Ni
Co Pt
U
Fe
Fe Cu
Fe
Cu
Fe
Cu
Au Ag
Ag Au Mn Mo
Cu
Cu
Cr
Ni
Co
矿化
Cr 铬
Co 钴
Cu 铜
Au 金
Fe 铁
Pb 铅
Mn 锰
Mo 钼
Ni 镍
Pt 铂
Ag 银
Sn 锡
U 铀
Zn 锌
能源
潜在油气区
含煤区

南极大陆矿产与能源



最早识别出东南极大陆泛非期构造热事件

新华社:中国南极陨石拥有量世界第三

2016-04-16 09:20:37 来源:科技日报社-中国科技网(北京)

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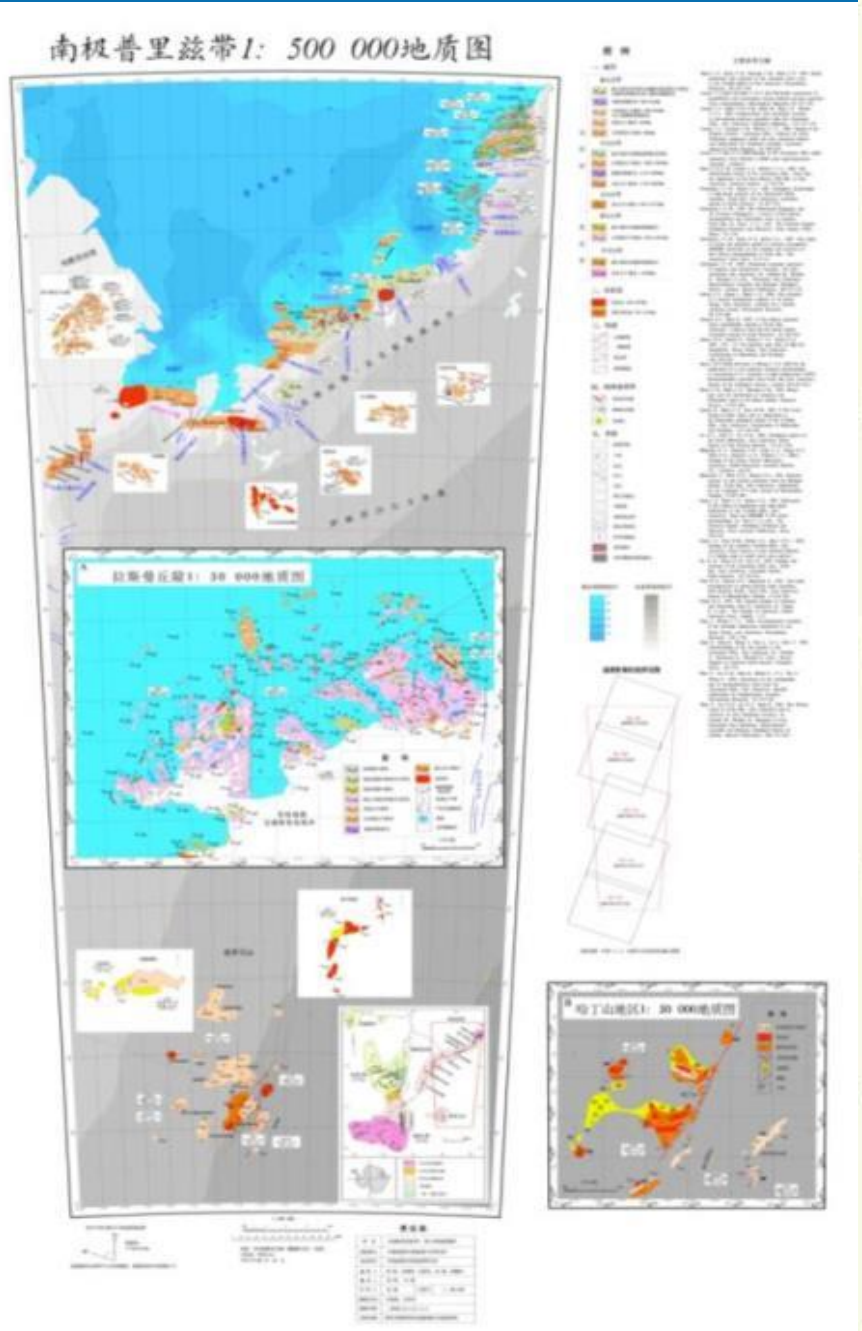
（原标题：我国南极陨石拥有量达12665块 居世界第三）

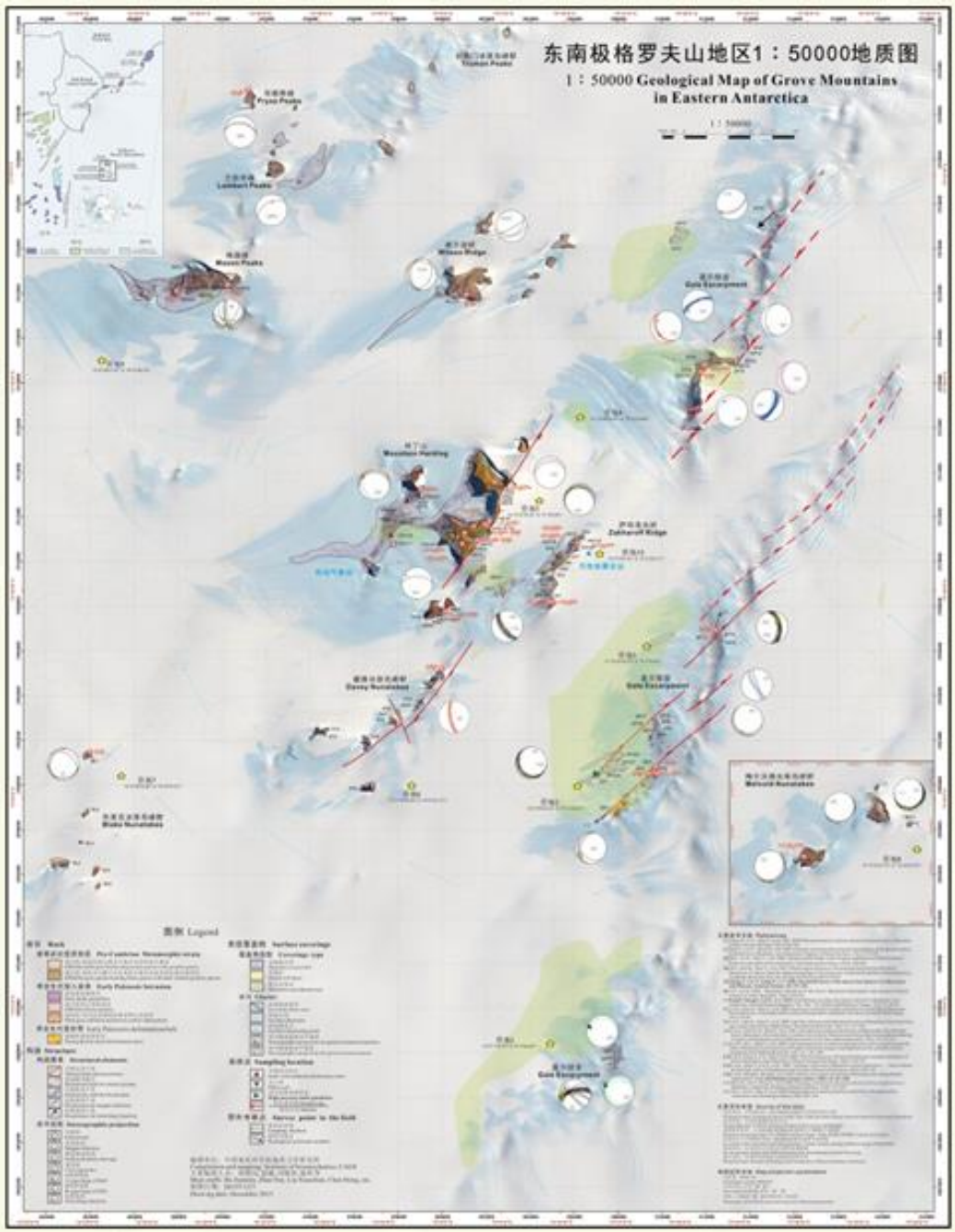
新华社上海电（记者张建松朱基钗）记者从近日召开的中国第32次南极考察队新闻发布会上获悉，我国在南极“格罗夫山宝库”新发现630块陨石,使我国南极陨石拥有量达到12665块,仅次于日本和美国。

我国南极陨石拥有量世界第三

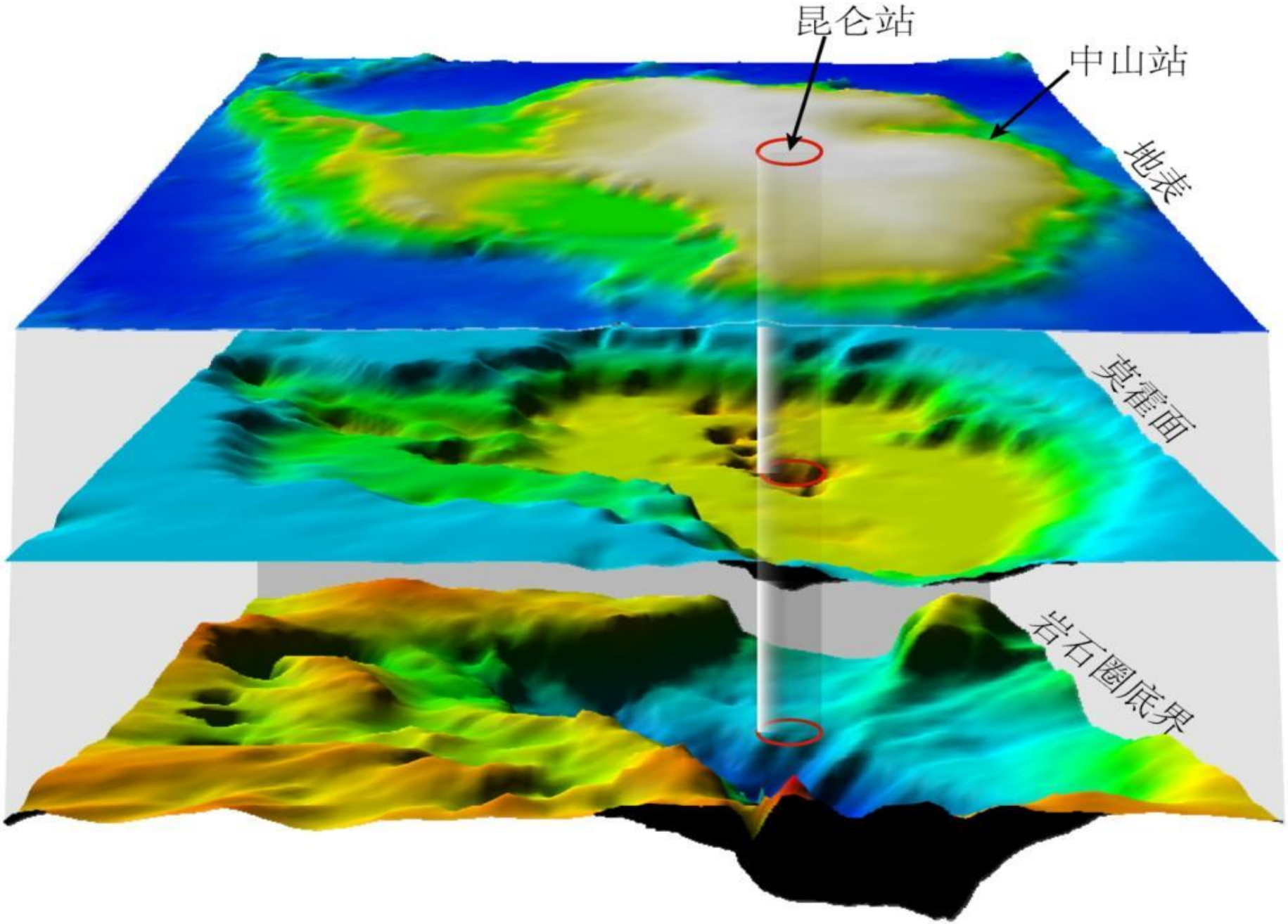
新华社上海4月12日电（记者张建松 朱基钗）记者从12日召开的中国第32次南极考察队新闻发布会上获悉，我国在南极“格罗夫山宝库”新发现630块陨石，使我国南极陨石拥有量达到12665块，仅次于日本和美国。

回收了我国第一块南极陨石

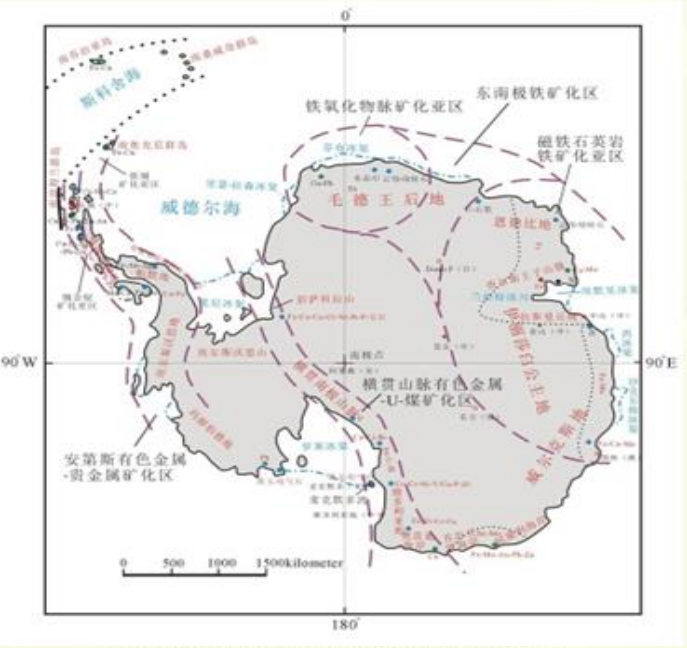




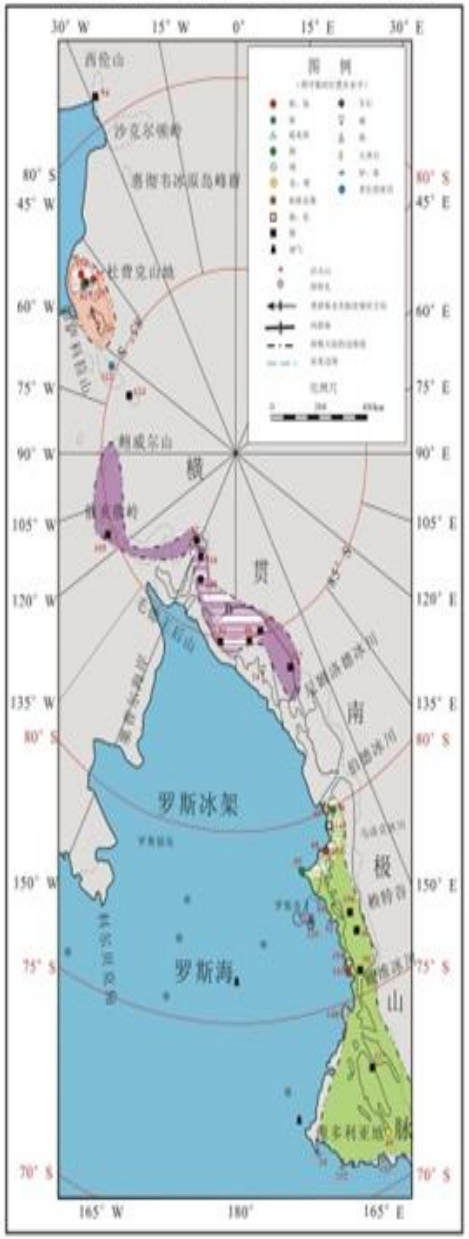
编制南极普里兹带1：50万地质图和东南极格罗夫山1：5万地质图



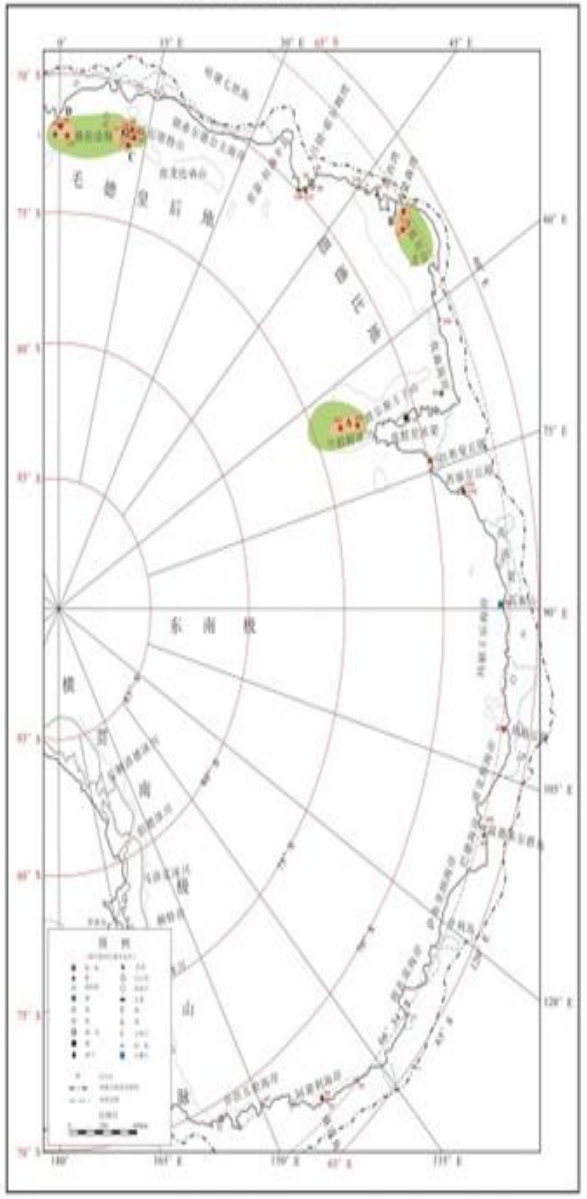
全世界首次绘制南极板块岩石圈厚度图、地壳厚度图等



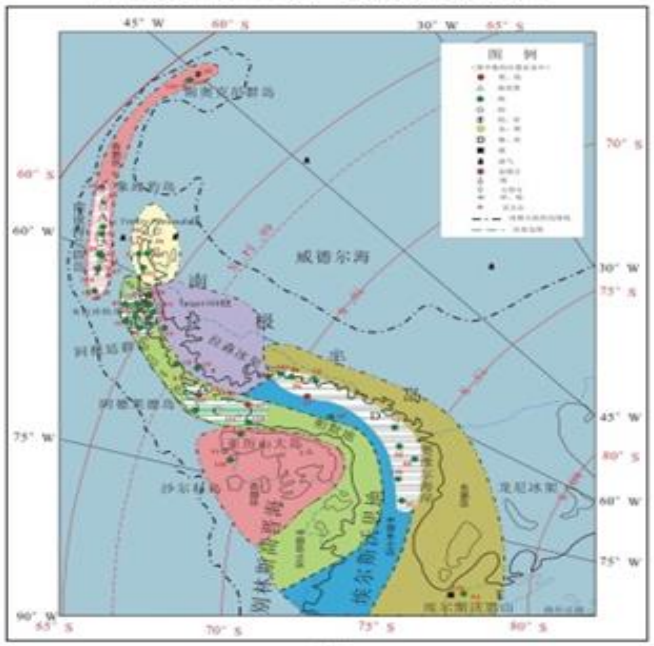
横贯南极山脉矿化富集区示意图



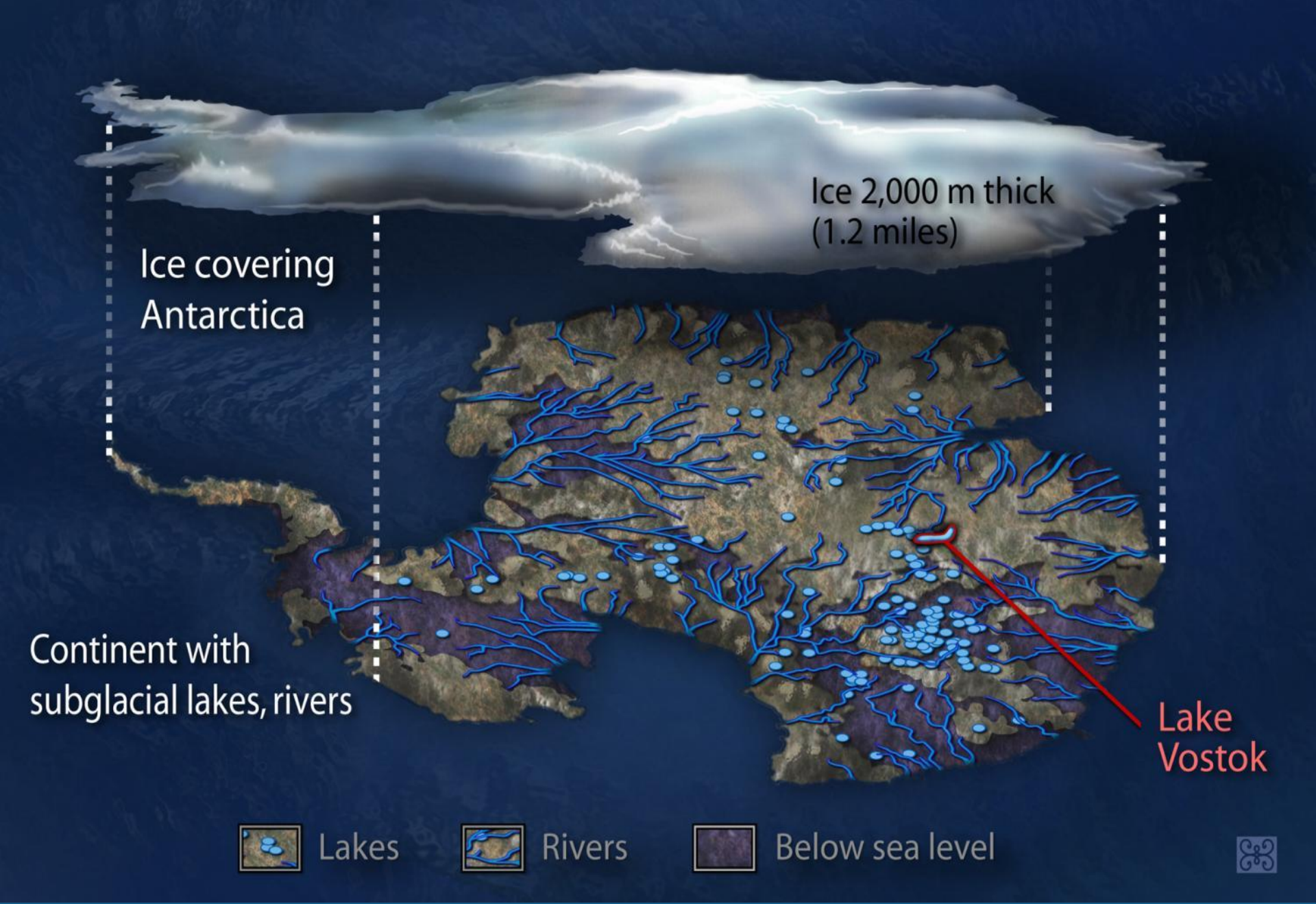
东南极矿化富集区示意图



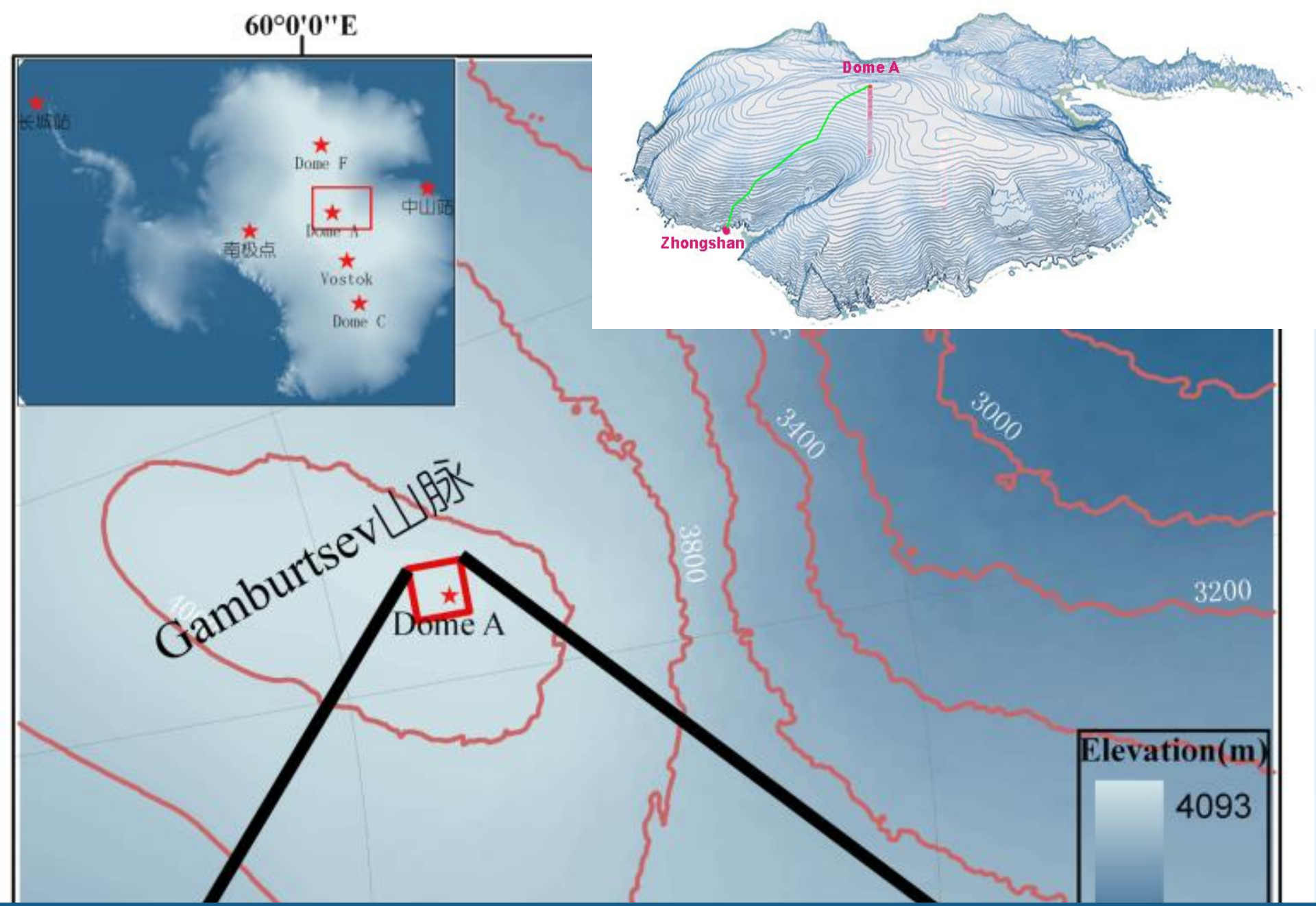
西南极南极半岛矿化富集区示意图



对南极矿产资源潜力进行综合评价


Ice 2,000 m thick
(1.2 miles)
Ice covering
Antarctica
Continent with
subglacial lakes, rivers
Lake
Vostok
Lakes
Rivers
Below sea level

冰下地质研究


60°0'0"E
长城站
Dome F
中山站
Dome A
南极点
Vostok
Dome C
Dome A
Zhongshan
3400
3000
3800
3200
Gamburtsev山脉
Dome A
Elevation(m)
4093

谋划冰下山脉地质钻

筹划进入南查尔斯王子山

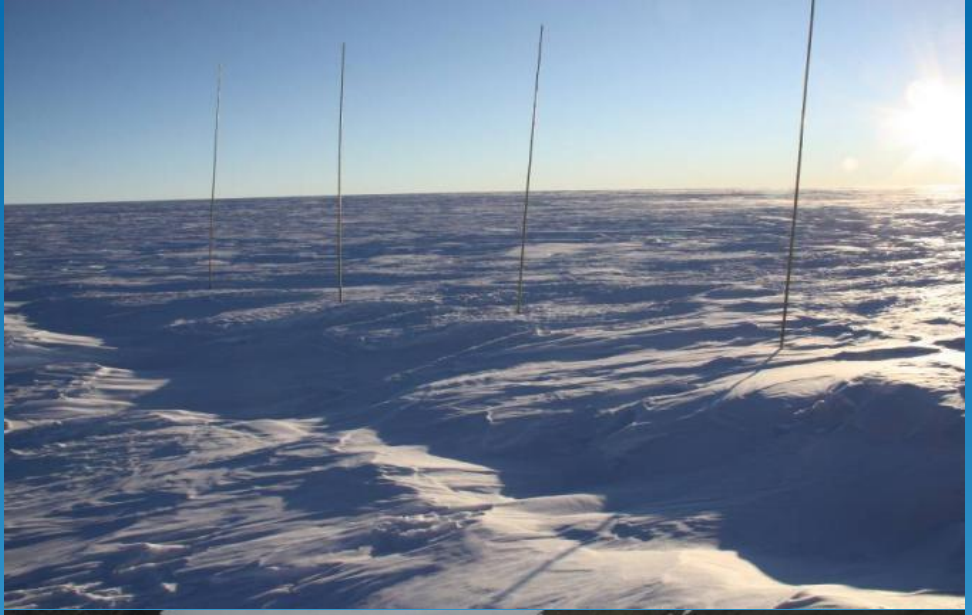
罗斯海地区新站

期待乘坐“海洋六号”去南极


中国首次南极洲考察
长城
中国南极考察队
CHINARE
国地质调查局

冰缝，最危险的敌人

南极内陆雪地车队



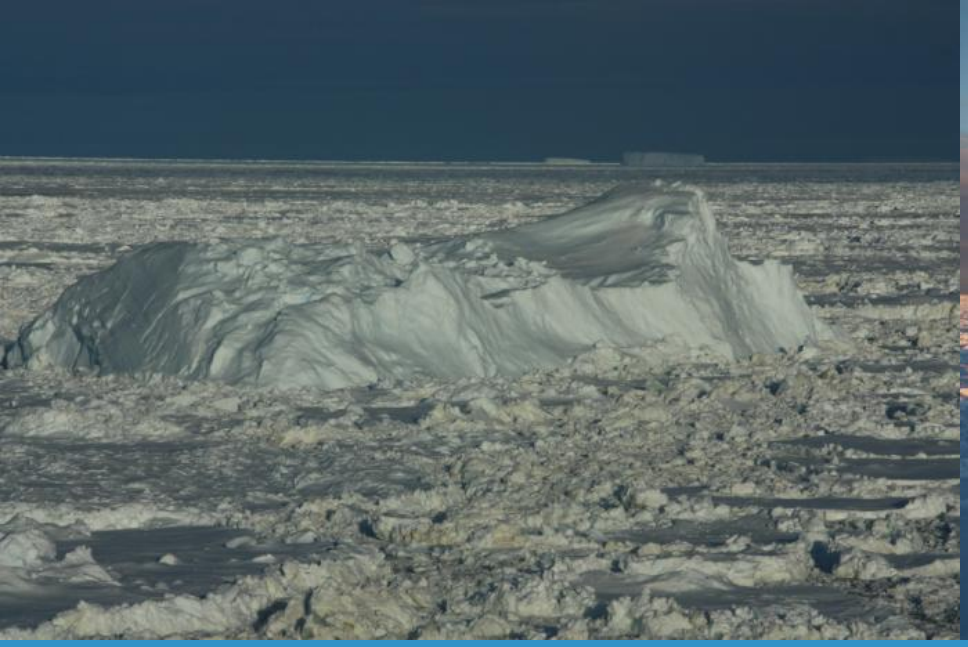
“你在格罗夫山的每一步，是你人生的第一步，也可能是最后一步。”

茫 茫 雪 地

露头零散，路途遥远！

营救俄罗斯船只

雪龙船被困



冰 山 环 绕

连续7个通宵监测

脱困瞬间的“闪电”

罗斯海新站选址

艰 难 行 走

特写：难言岛上的86小时“科考传奇”

2014年01月18日 18:40:47 来源： 新华网 分享到： 0

新华网“雪龙”号1月18日电（记者张建松）“雪龙”号因为援救俄罗斯被困船只及自身被困耽误了宝贵的科考时间，在我国新的南极科考站建站选址准备工作中，科考队员们不得不与时间赛跑，维多利亚地难言岛上原定8天的任务，仅用了86个小时就圆满完成。他们风餐露宿、昼夜拼搏，书写了一段“科考传奇”。


中国地质调查局
中国第30次南极科学考察队


中国地质调查局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中 国
1998 – 200