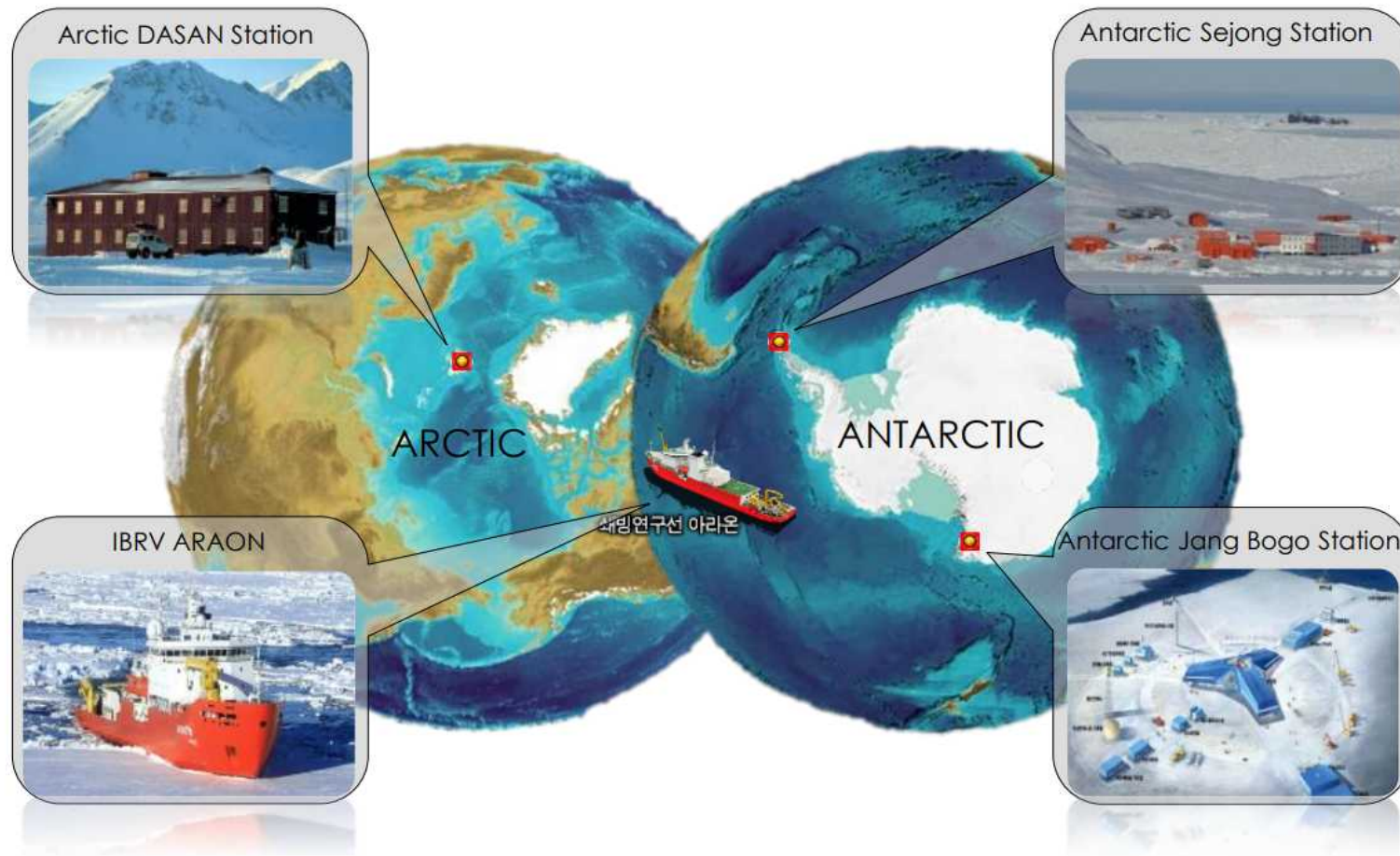


극지연구소 리포지터리 재 구축 사례

극지연구소 박 현 이



극지연구소와 연구 인프라



- 리포지터리에 대한 고민

1. 연구자와 행정지원부서, 모두를 유인할 수 있는 서비스
2. 극지연구소만의 독자적인 콘텐츠

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+ Public Relations

– Climate Change Sciences

+ Monitoring of Abrupt Environmental Change in The Ice Shelf System and Reconstruction of Quaternary Deglaciation History in West Antarctica (2014–2016)

+ Reconstruction of Late Quaternary Glacial History and Paleoceanographic Changes in The Western Arctic (2014–2016)

+ SaTellite Remote Sensing on West Antarctic Ocean Research (STAR) (2014–2016)

+ Investigation of Climate Change Mechanism by Observation and Simulation of Polar Climate for The Past and Present (2014–2016)

+ Study of the Upper and Lower Atmosphere Coupling Through 4-Dimensional Observations for The Northern Polar Atmosphere: Polar Upper Atmospheric and Space Environmental Changes (2015–2016)

1. 2017년 재 구축 사업


○ 관련 데이터센터와 링크 제공

- 각 연구과제에서 산출된 KPDC 데이터 검색
- '연구과제 번호'를 식별자로 활용

Monitoring of Abrupt Environmental Change in The Ice Shelf System and Reconstruction of Quaternary Deglaciation History in West Antarctica (2014-2016) / Yoon; Ho Il

browse Year Author Title Type

- Principal Investigator Yoon; Ho Il
- Project Period 2014-2016
- Summary The rapid collapse of ice shelf in West Antarctica due to recent global warming is contributing to the global sea-level rise. This project's objectives are to establish a monitoring system for ice shelf movement and to reconstruct past environmental changes in response to climate changes in ice shelf areas. The main research objectives are: 1) establishment of a long-term monitoring system (AMIGOS, GPS, sediment trap, etc) to monitor changes of the ice shelf system in the Antarctic Peninsula; 2) reconstruction of late Quaternary deglaciation history using marine sediment and terrestrial samples and its relation to paleoclimatic changes; 3) reconstruction of paleo-bottomcurrent direction and intensity changes; and 4) marine biological/geochemical changes using paleoclimatic proxies of marine sediment in the ice shelf region and studies on the role of meltwater or oceanic processes that influence ice shelf stability. This principal investigator, Ho Il Yoon, was involved in the project from 2014 to 2016.

○ KPDC Link to raw and metadata information KPDC 

Results (9)		
No	Information	Reg. Date
1	[KPDC_GRAVITY_CORES_RS15-GC101_ROSS_2015] Gravity cores from Antarctic Ross Sea(RS15-GC101).	Oct 24, 2016
2	[KPDC_GRAVITY_CORES_RS15-GC102_ROSS_2015] Gravity cores from Antarctic Ross Sea(RS15-GC102).	Oct 24, 2016
3	[KPDC_GRAVITY_CORES_RS15-GC107_ROSS_2015] Gravity cores from Antarctic Ross Sea(RS15-GC107).	Oct 24, 2016
4	[KPDC_LONG_CORES_RS15-LC100_ROSS_2015] Long cores from Antarctic Ross Sea(RS15-LC100).	Oct 24, 2016

1. 2017년 재 구축 사업

○ 관련 데이터센터와 링크 제공

- 논문에서 연구된 시료 데이터(PAMC)와 링크
- 운석 데이터, 유전체데이터 등과 링크 연결 확대

○ Abstract

Thiosulfate-oxidizing *Bosea* sp. strain PAMC26642 was sequenced. Sequencing of *Bosea* sp. PAMC26642 revealed several novel genes. The PAMC26642 genome will provide novel insight into the thiosulfate oxidation pathway.

○ URI

<http://pamc.kopri.re.kr/strain/PAMC%2026642>



Strain: PAMC 26642

Scientific name	<i>Bosea</i> sp.	Catalog
Taxonomy		
Kingdom		Order
Phylum	Proteobacteria	Family
Class	Alphaproteobacteria	Genus
Geography		
Locality	Ny-Ålesund/Svalbard/Norway/Europe	

2. 2018년 사업 계획

○ 위치기반 검색서비스 제공

- 위치정보 기반 메타데이터 구조 추가, 지리정보 검색할 수 있는 기능 탑재
- 검색하고자 하는 지역을 지도상에서 선택하면 해당 지역정보를 기반으로 한 검색결과 제공



Latest archived data

- Radiogenic lead composition of sediment core PS72/340-5 from the Mendeleev Ridge (2017)
- Radiogenic neodymium composition of sediment core PS72/340-5 from the Mendeleev Ridge (2017)
- Chlorophyll a in sea ice during POLARSTERN cruise ANT-XXIX/7 (2017)

Latest publications

- Geometry of ice-stream retreat in the easternmost Amundsen Sea Embayment, West Antarctica (2017)
- Variations in Ice Sheet Dynamics along the Amundsen Sea and Bellingshausen Sea West Antarctic Ice Sheet margin (2017)
- Community structure of macrobenthos in the deep Fram Strait, Arctic Ocean (2017)

Latest reports

- Weekly reports for R.V. Polarstern expedition PS106.2 (2017-06-23 - 2017-07-20, Longyearbyen - Tromsø), German and English version (2017)
- Weekly reports for R.V. Polarstern expedition PS106.1 (2017-05-24 - 2017-06-21, Bremerhaven - Longyearbyen), German and English version (2017)

2. 2018년 사업 계획

○ 인프라 성과를 통한 정책 기초자료 제공

- 남극 세종, 장보고 기지, 북극 기지, 아라온 호, 인프라 기반으로 연구한 자료 색인
- 제목, 초록, 키워드에 인프라 정보를 기반으로 분류

<정책 기초자료>

- 각 인프라 별 연도별 논문 현황,
- 연도별 주요 키워드, 주요 연구분야, 저자
- 다른 인프라를 활용한 현황
- 국제공동연구 수준 등

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☐ Research report
Expression patterns of proteomes in response to UV-B and salinity in the Antarctic copepod *Tigriopus kingsejongensis*
Lee, Jaesung (2017)

☐ Press release
대한민국 남극연구의 상징 남극세종과학기지, 준공 30년 맞아 대대적 증축 공사 시행: 크게 확대된 국내의 남극반도 연구수요 충족 및 친환경 기지로 다시 태어나
KOPRI (2016)

☐ Article
De novo assembly and annotation of the Antarctic copepod (*Tigriopus kingsejongensis*) transcriptome
Kim, Hui-Su ; Lee, Bo-Young ; Han, Jeonghoon ; Lee, Young Hwan ; Min, Gi-Sik ; Kim, Sanghee ; Lee, Jae-Seong (2016)

2. 2018년 사업 계획

○ Sherpa & Romeo 논문 공개 정책 반영

- 현재 논문 자료는 모두 내부 공개
- Sherpa & Romeo 저널 컬러에 따라 자동 공개/비공개 설정

○ Abstract

Ghost shrimps are burrowing decapods that serve as bioluminescent hydrothermal vent ghost shrimp, *Paraglypturus tonganus*, species has a mitochondrial genome (mitogenome) of 15,920 bp, identical to the typical gene arrangement and transcriptional organization. 65.3 - 70.1% nucleotide similarity with the known mitochondria understanding the phylogenetic relation.

○ Files in This Item

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