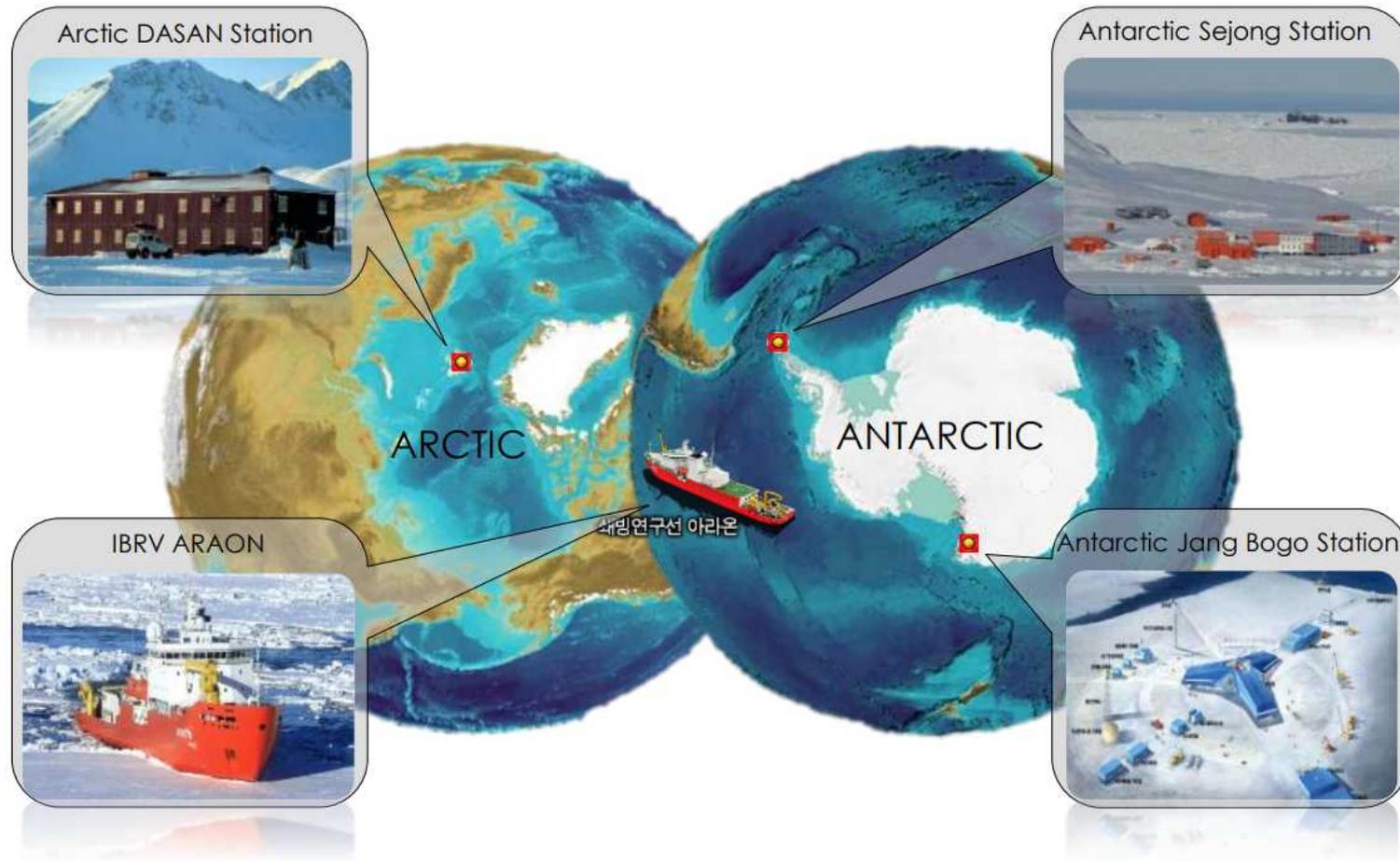


# 극지연구소 리포지터리 재 구축 사례

극지연구소 박 현 이



# 극지연구소와 연구 인프라



- 리포지터리에 대한 고민

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

# 1. 2017년 재 구축 사업

## Community & Collection 분류

- 기관 운영과 극지 연구 활동을 이해하기 쉬운 분류체계 사용

Communities and Collections All Open / Close

- Polar Science Research Program
  - + 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)
  - + Geosciences
  - + Marine Sciences
  - + Biosciences
- + Polar Policy
- + Publications
- + International Symposium on Polar Sciences
- + Arctic, Antarctic Stations and IBRV 'Araon'
- + Public Relations

# 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

- 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 ice shelf changes using marine sediment and terrestrial samples and its relation to paleoclimatic changes; 3) reconstruction of ice shelf changes using paleoclimatic proxies of marine sediment in the ice shelf region and studies on paleo-bottomcurrent direction and intensity changes; and 4) marine biological/geochemical studies on the role of meltwater or oceanic processes that influence ice shelf stability. This principal investigator is Ho Il in 2016.

**KPDC** Link to raw and metadata information

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 sequencing of *Bosea* sp. PAMC26642 revealed several PAMC26642 genome will provide novel insight into the in 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)

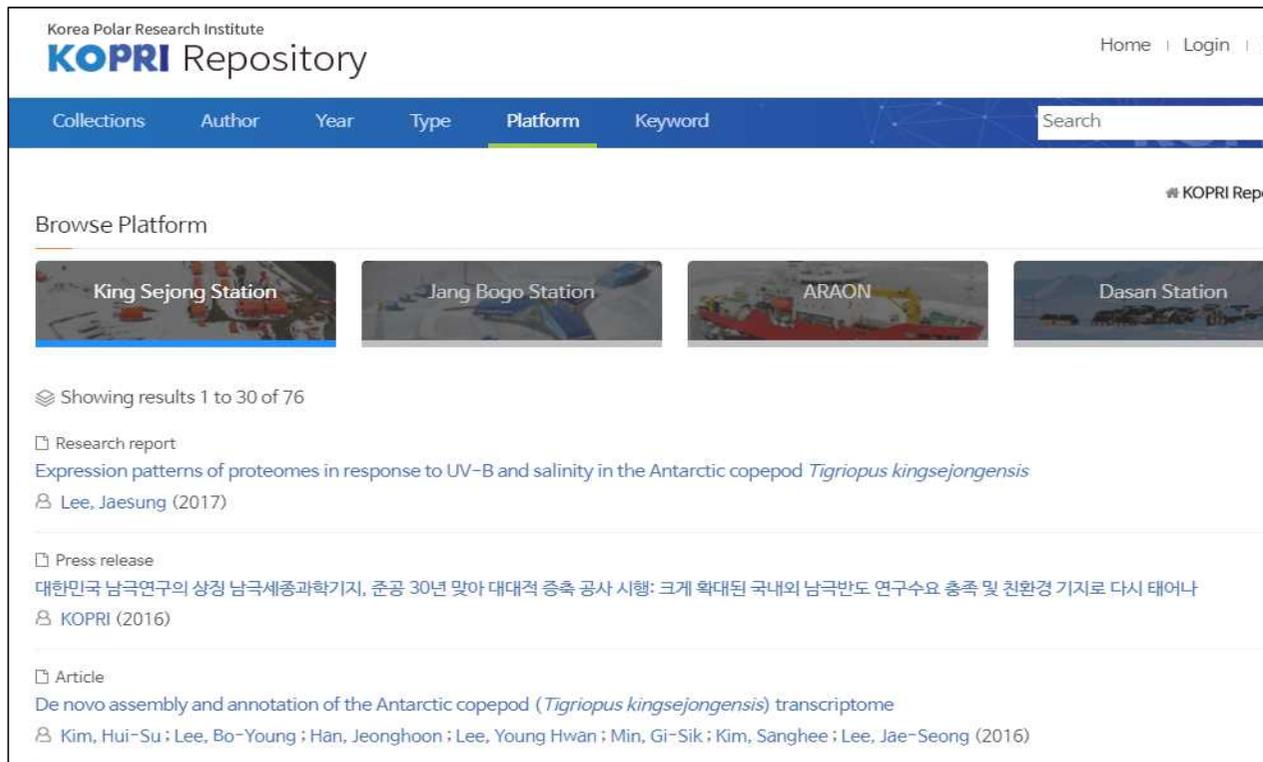
## 2. 2018년 사업 계획

### ○ 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 bi... hydrothermal vent ghost shrimp, *Paraglypturus tonganus*, species has a mitochondrial genome (mitogenome) of 15,92... identical to the typical gene arrangement and transcriptional... 65.3 - 70.1% nucleotide similarity with the known mitc... understanding the phylogenetic relation

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<a href="#">White</a>	Archiving not formally supported



감 사 합 니 다.