

# <Scopus AI>

## ▶ Scopus AI란?

- Scopus에 색인된 우수한 동료심사 논문을 활용하여 익숙하지 않은 학술 콘텐츠를 이해하고 탐색할 수 있도록 돕는 Ai 기반 학술 검색 툴
- 새로운 용어, 개념 및 분야에 대한 집중적이고 이해하기 쉬운 통찰력 제공

## ▶ 어떻게 이용할까?

1) PNU Scholar(<https://lib.pusan.ac.kr/scholar/>) 홈페이지 하단 ↓ “Scopus” 접속

 PNU Scholar

통합검색

검색어를 입력해 주세요.

Q

### 저널 정보

저널리스트 등재 변동 상황(최근 1년)

■ 추가

■ 탈락



Database	추가 (Add)	탈락 (Remove)
SCIE	40	10
SSCI	30	20
AHCI	10	5
KCI	25	5

### 관련 사이트

#### SCI급

- Web of Science(WoS) SCIE, SSCI, AHCI 등재 논문을 검색합니다.
- Journal Citation Reports(JCR) SCI급 저널의 ImpactFactor 등 인용지수를 검색합니다.
- Master Journal List SCI급 등재 저널의 현재 리스트를 받아볼 수 있습니다. 매월 변동됩니다.

#### Scopus

Scopus AI, Q1 등재 논문 검색합니다.

- Scopus AI: Scopus 등재 논문 기관, 저자 단위로 인용도 및 FWCI 등을 분석할 수 있습니다.


#### KCI

- 한국학술지인용색인(KCI) 한국연구재단 등재/후보지 논문을 검색합니다.

#### 관련정보기관

- 부산대학교 도서관 학술논문(e-Article) 검색을 통해 다운로드 가능한 원문(full-text)을 검색합니다.

2) “Scopus AI” 클릭! 그리고 질문을 입력!

 Scopus

Search

### Start exploring

Documents Authors Researcher Discovery Organizations **Scopus AI New**

Explore topics and discover relevant references since 2013 [How it works](#)

What are the effects of climate change on birds?

**② 원하는 질문을 입력!**

Q

#### Search examples

- ↳ What role does multisensory integration play in the formation of emotional memories?
- ↳ How do urban green spaces contribute to mental well-being?
- ↳ How can game theory be applied to corporate compliance programs?

### 3) 요약된 답변 확인 & 답변의 근거 보기

What are the effects of climate change on birds?

나의 질문

Summary

답변 요약

The effects of climate change on birds are multifaceted and include various impacts on their behavior, physiology, and population dynamics, as evidenced by several studies:

- **Changes in migration:** Climate change has caused advanced spring migration routes for birds [1](#) [2](#) [3](#).
- **Reproduction:** Birds have shown earlier egg-laying times due to climate change, leading to mismatches with food availability [1](#) [4](#) [5](#) [6](#) [7](#).
- **Habitat and food availability:** Climate change has led to changes in birds' habitats, increased competition in winter habitats, impacting reproduction and survival.
- **Disease transmission:** There is a higher possibility of disease transmission among birds [1](#) [2](#).
- **Population decline:** Climate change has been associated with a decline in bird populations [1](#) [2](#) [3](#).
- **Mitigation:** Various organizations and governments are implementing policies, partnerships, and programs to mitigate climate change's influence on birds [1](#) [2](#) [3](#) [4](#) [5](#) [6](#) [7](#) [8](#) [9](#) [10](#).

While some studies suggest that climate change may have positive effects on birds [4](#), the overall consensus is that climate change poses significant challenges for birds, necessitating further research and conservation efforts.

If you need further information, please let me know.

Summary reference

Reference 1 • 5 citations

The Effects of Climate Change on Birds and Approaches to Response

Li, X. ㄱ, Liu, Y. ㄱ, Zhu, Y. ㄱ

IOP Conference Series: Earth and Environmental Science ㄱ  
2021

[Open document details ㄱ](#)

Abstract

Complex changes in climate change have caused numerous changes, such as rising temperature and

**클릭!하면  
해당 근거의 논문 정보 확인**

proper approaches toward addressing its effects. The study shows that climate change has caused advanced spring migration, changes in birds' habitat, higher possibility of disease transmission, earlier egg-laying time, less food availability, and a decline in the bird population. The study also lists possible measures to mitigate climate change's influence, including environmental policies, partnership with non-government organizations, and decreasing

[Export reference ㄴ](#)

### 4) 확장된 요약 답변 확인

Expanded summary

나의 질문에 대한 확장된 요약

Based on the user's query, I will address the effects of climate change on birds, specifically focusing on the migratory patterns, physiological impacts, distribution, and behavioral adaptations of bird populations.

#### Effects of Climate Change on Migratory Patterns:

- Climate change has caused advanced spring migration and changes in migration routes for birds [1](#) [2](#) [3](#).
- Warmer springtime temperatures have led to birds arriving earlier at northerly latitudes in North America [2](#).
- The study of 84 bird species in Worcester County, MA, found that migratory bird species have shifted their arrival an average of 0.11 days per year earlier, with short-distance migrants having stronger shifts than long-distance migrants [3](#).

#### Physiological Impacts of Climate Change on Bird Populations:

- Climate change affects the timing of reproduction in many bird species, with an overall decline in average offspring production in recent decades [4](#).
- Larger-bodied and migratory species experienced reduced egg production during the chick-rearing period, while smaller-bodied, sedentary species showed no significant changes [4](#).

#### Influence of Climate Change on the Distribution of Bird Species:

- Climate change has led to changes in the spatial distribution of birds, with evidence of a northward expansion of areas of highest species richness towards the center of the province in Quebec, Canada [5](#).
- The Community Temperature Index (CTI) of the winter bird community in Finland has increased significantly over the past four decades, but not as fast as the average winter temperature, indicating that bird communities are tracking increasing temperatures to a certain level [6](#).

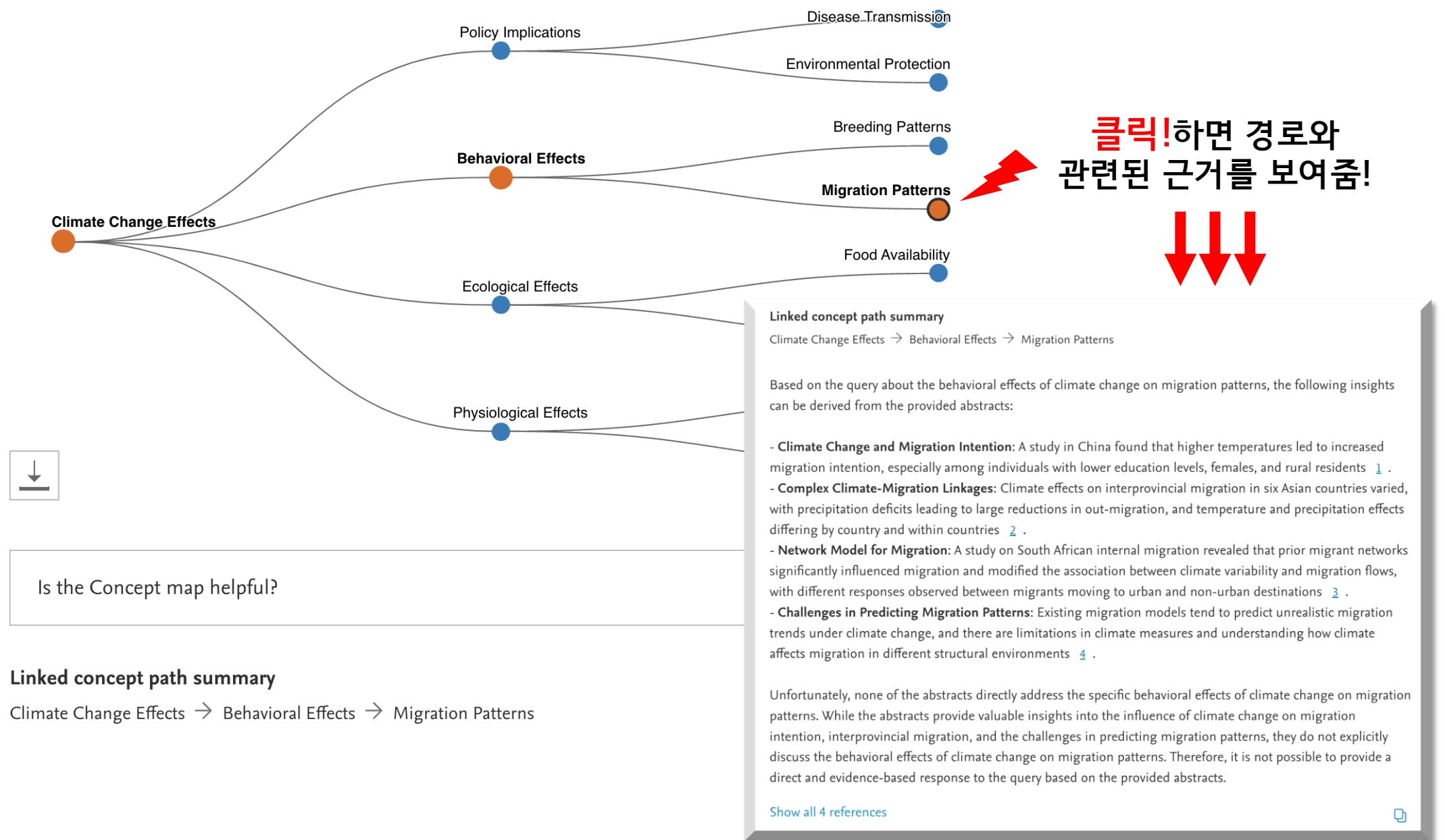
#### Behavioral Adaptations of Birds in Response to Climate Change:

- Birds have demonstrated regional and seasonal variation in thermal sensitivity, with some species showing constant thermal peaks or ranges across their geographical distributions, while others varied according to local and current environmental conditions [7](#).
- Climate change has evoked several changes in birds, including changes in avian phenology, poleward shifts in avian distributions, modification of migratory distances, direction and activity, and alterations to movement patterns and destinations [8](#).

## 5) 답변에 대한 **Concept map** 확인



각 컨셉 경로는 **클릭**이 가능!



## 6) 해당 분야 전문가의 **프로필** 확인



**Lehikoinen, Aleksi S. A.S.**

3,738 citations   18 matching documents   39 h-index

Alexi S. Lehikoinen is an expert on the effects of climate change on birds due to their research on the population trends and ecological traits of urban birds in Europe, as well as the impact of increasing winter temperatures on bird populations in Northern Europe. Their work also focuses on the changes in temperature niche composition under climate warming, providing valuable insights into the responses of bird populations to environmental shifts.

[Preview profile](#)

**Fort, Jérôme J.**

1,665 citations   13 matching documents   31 h-index

Jérôme Fort is an expert on the effects of climate change on birds, particularly in the Arctic region. Their research delves into the impact of climate change on Arctic seabirds, including their winter feeding and migration strategies, as well as the challenges faced by keystone seabird species in a warming Arctic. Additionally, their work addresses the impact of mercury contamination on the behavioral response of key species to Arctic climate change.

[Preview profile](#)

7) 내가 한 질문을 바탕으로 Scopus AI가 만들어 준 추천질문

Is this information about experts useful?

Yes

No



- How does climate change affect the migration patterns of birds? **클릭!**
- What are the physiological impacts of climate change on bird populations?
- How do changes in temperature and precipitation influence the breeding behaviors of birds?

**How does climate change affect the migration patterns of birds?**

Summary

Based on the abstracts provided, climate change has been shown to significantly affect the migration patterns of birds in various ways:

- **Phenological Shifts:** Warmer springtime temperatures have led to birds arriving earlier at northerly latitudes in North America, with short-distance migrants showing stronger shifts than long-distance migrants [1](#) [2](#) .

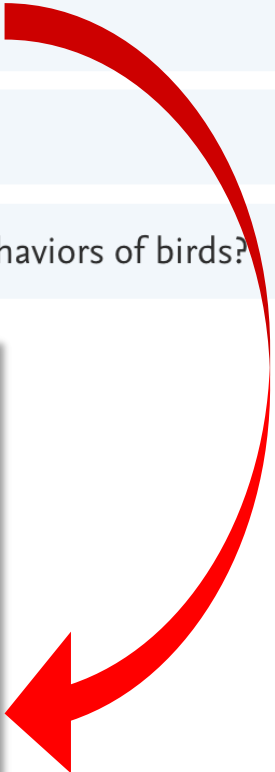
- **Behavioral Adaptations:** Older, more experienced birds play a critical role in innovating new migration behaviors, leading to rapid population-level shifts in migration patterns in response to climate change [3](#) .

- **Impacts on Fitness and Selection:** Changes in migration patterns may result in arrival at nesting sites at selectively disadvantageous points in the seasonal development of the nesting ecosystem, potentially influencing the nature of future bird communities [2](#) .

- **Changes in Migration Routes:** Climate change has caused changes in migration routes due to dynamic environmental changes, such as rising temperatures and increasing precipitation frequency, leading to alterations in migration behavior and habitat changes for birds [4](#) [5](#) .

- **Influence of Temperature and Food Availability:** The timing of migration in frugivorous birds depends on the availability of food, with crop size affecting both autumn and spring migration dates, while autumn temperature showed a weak connection [6](#) .

However, it is important to note that while there is evidence of climate change affecting bird migration patterns, the specific impacts on bird populations and communities, as well as the long-term consequences, require further investigation [1](#) [2](#) [4](#) [6](#) .



추천해준 질문에 대한 답변

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