

Korea Adaptation Center for Climate Change



Korea Environment Institute Soojeong Myeong



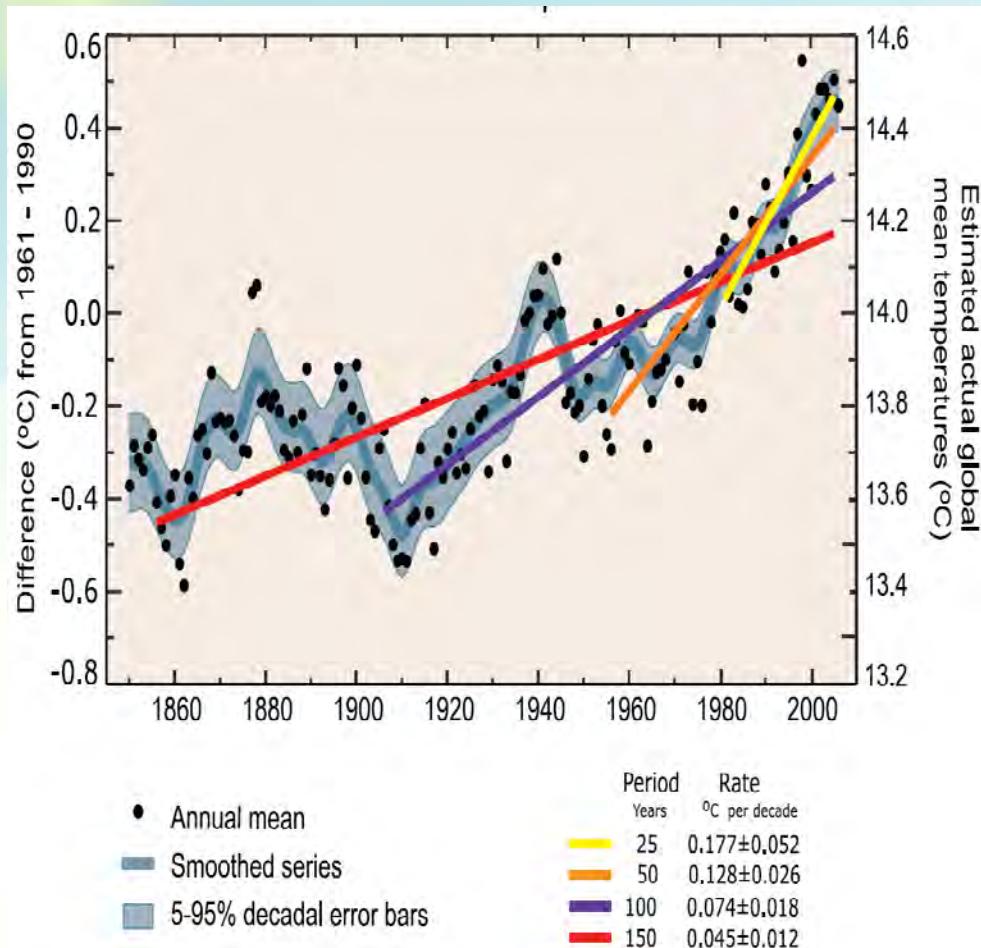
CONTENTS

- ❖ Climate Change Impacts on World and Korea
- ❖ Korea's Actions for Adaptation to Climate Change
- ❖ Introduction of Korea Adaptation Center for Climate Change (KACCC)



1. Climate Change Impacts on Korea

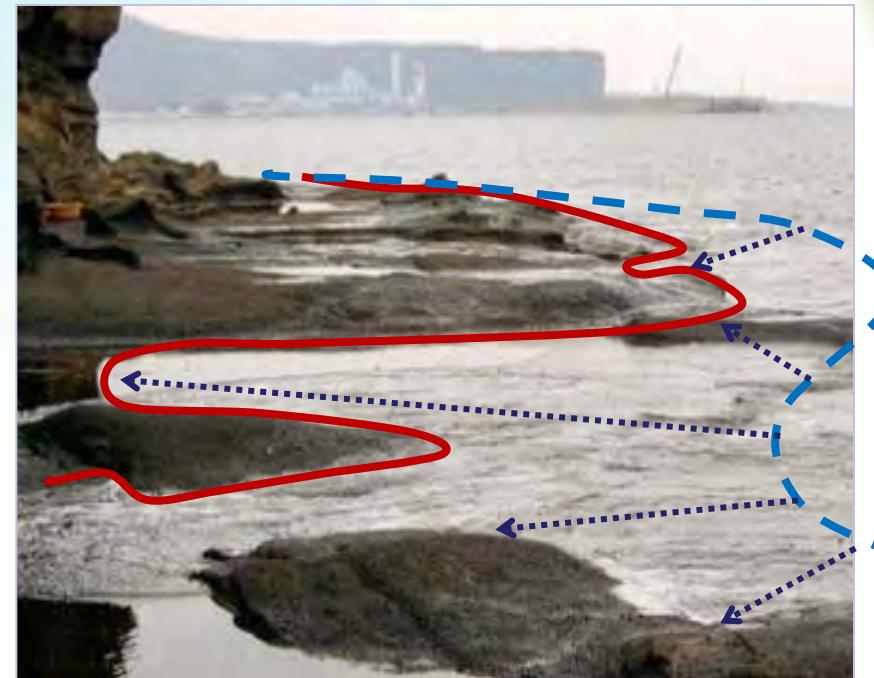
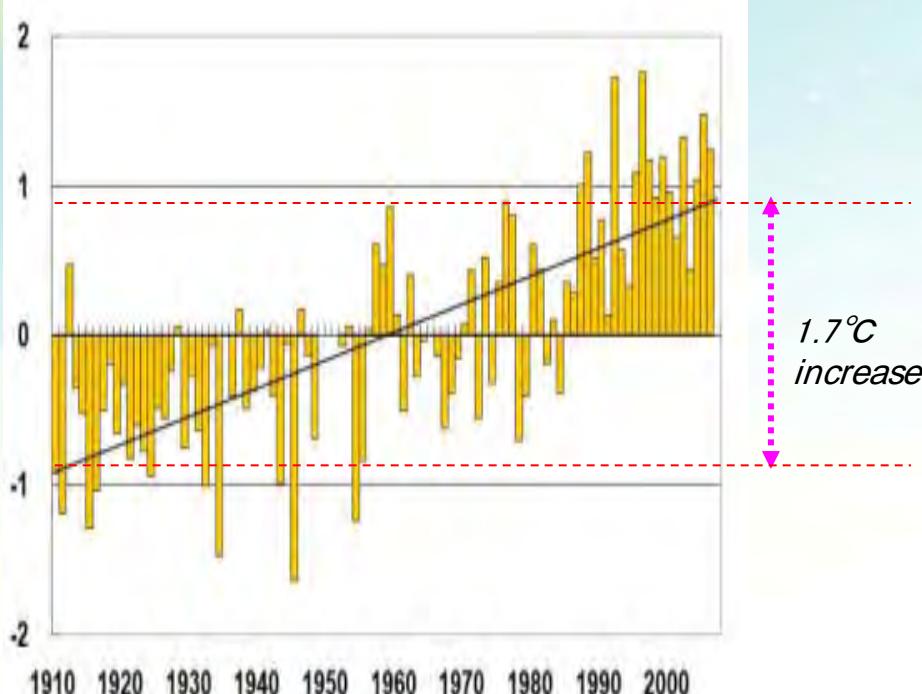
Global Mean Temperature Rise



❖ 0.74°C up in the past 100 years (land: 0.9°C)

1. Climate Change Impacts on Korea

Observed Climate Change on the Korean Peninsula



❖ Temperature Increase of Korean 6 major cities: + 1.7°C/100yr

❖ Sea level rise at Yong-Mu-Ri, Jeju: 22cm in the past 43 years (Global mean=8cm)

1. Climate Change Impacts on Korea: Current and Future

Current and Expected Sectoral Impacts

Ecosystem



Forest



Agriculture



- ❖ More vulnerable over subtropical zone and mountain area

- ❖ Frequent land sliding due to heavy rainfall

- ❖ Cultivation area shifting

1. Climate Change Impacts on Korea: Current and Future

Current and Expected Sectoral Impacts

Health



- ❖ Increase of infectious diseases and heat wave

Physical Infrastructure



- ❖ Highway and bridge damage by heavy rainfall

Disaster



- ❖ Increase of the cost of extreme weather event

2. Korea's Actions for Adaptation to Climate Change



National Strategic Plan & KACCC

National Strategic Plan for Climate Change Adaptation ('11-15)

- ❖ The 1st legal plan by the Basic Act on Low Carbon, Green Growth('10.4)
- ❖ Set up the plan with 13 participating ministries
- ❖ The master plan helping and leading for the local government's action plan



KACCC

- ❖ Based on 'Comprehensive Plan for National Climate Change Adaptation (Dec. 2008)' KACCC founded at the Korea Environment Institute by Ministry of Environment on July 2009.



3. Introduction of Korea Adaptation Center for Climate Change



Vision and Organization

World Leading Organization in Climate Change
Adaptation Research and Policy



Division of Planning and Cooperation
Division of Adaptation Research

3. Introduction of Korea Adaptation Center for Climate Change



Major Tasks of KACCC



Policy makers, Adaptation Relevant Institutes,
and the Public, etc.

Supporters for Adaptation

- ❖ Involving college students in raising public awareness
- ❖ Selected college students developed education program on adaptation and educated elementary school students

<http://cafe.naver.com/kacccsupporters>

If you are concerned about global environment,
you are qualified to be a supporter for the earth.

기후변화적응 서포터즈 제 1기 공식 카페



마지막 친구환경을 려져하는 따뜻한 마음이 있다면
당신은 이미 "구의 소중한 서포터즈입니다"

3. Introduction of Korea Adaptation Center for Climate Change



Publishing Adaptation News Letter



3. Introduction of Korea Adaptation Center for Climate Change



Supporting Governments

- ❖ Supporting policy-setting of local governments
- ❖ Developing guidelines for local governments' adaptation strategies
- ❖ Supporting local governments with adaptation technologies and policies
- ❖ Operating a consulting team for policy-setting of local governments



Major Researches Conducted in KACCC

Each year dozens of adaptation researches are conducted by KACCC. Some examples of our researches as follows:

- ❖ Economics of Climate Change in Korea I, II, III
- ❖ Evaluation of Climate Change Adaptation Policies and Establishment of Climate Change Adaptation Policy Inventory
- ❖ Research to Support Climate Change Adaptation Policy I - A Study on Incorporating Climate Change Adaptation Considerations in Environmental Impact Assessment
- ❖ Research to Support Climate Change Adaptation Policy - A Study on CCA Policy to Improve Legal Framework



연구보고서
Research paper



정책보고서
Prebisch report

3. Introduction of Korea Adaptation Center for Climate Change



Climate Change Adaptation Policy Inventory

Direct Adapt :: Windows Internet Explorer
Edit View Favorites Tools Help
NAVER Favorites Customize Links Internet Explorer cannot... Daum - 생활이 바꾼다.
Direct Adapt ::

DirectAdapt 기후변화 적응정책 인벤토리

시스템 소개 예산계획 조회 법령 및 시행령 적응계획 및 대책 적응산업 지원 적응 위자드

BUDGET

Our Climate Changing

총 예산 130억 원입니다.

년도별: 2011 ● 2012 ● 2013 ● 2014 ● 2015 ● Total

분야별: Select 부처별: Select 검색어: Search Clear Export

예산 단위: 억 원

분야구분	내용	적용내용	2011		
			국고	지방비	민간
건강	특업 및 자 와선 적용	가. 특업 및 자와선 건강영양 평가 및 감시체계 구축	2.10	0.00	0.00
		A. 특업의 건강영양 감시 및 협약 체결체계 구축 B. 고온건강정보시스템에 따른 질병 감시체계 구축	부록내용		
		C. 특업의 예·경보 시스템 구축 및 기후변화 취약성 평가 D. 자와선의 건강 영향평가 실시	0.00	0.00	0.00
		E. 특업 및 자와선 피해 저감대책 마련	부록내용		
		F. 노인 등 취약계층 접종 보조대책 수립 및 추진 G. 특업 취약군 건강관리체계 및 특별대응 애뉴얼 개발 보급 H. 도시계획을 지원하기 위한 기부분석 정보 개발 I. 특업자감총회 위한 도시설비耐久화 기관 등 시설사업 추진 J. 자와선 피해 저감대책 마련	1.00	10.00	0.00
건강	기상재해 적용	가. 기상재해로 인한 건강영양 감시 및 저감대책 마련	150	0.00	0.00
		A. 기상재해로 인한 건강영양 감시체계 구축 B. 상습·점수지역 및 위험인구 실태 기초조사 C. 침수·제습지역 건강영양 예방 및 증과화증거증 프로그램 개발 운영 D. 재해지역 긴급안전리포트프로그램 개발 운영	102.00	0.00	0.00
		E. 자와선 피해 저감대책 마련	810.00	0.00	0.00
		F. 자연생태계 변화에 따른 건강영양 조사·감시시스템 구축	21.00	5.75	0.00
		G. 자연생태계 변화에 따른 건강영양 조사·감시시스템 구축	21.00	0.00	0.00
건강	환경영향적용	가. 자연생태계 변화에 따른 건강영양 조사·감시시스템 구축	6.30	0.00	0.00

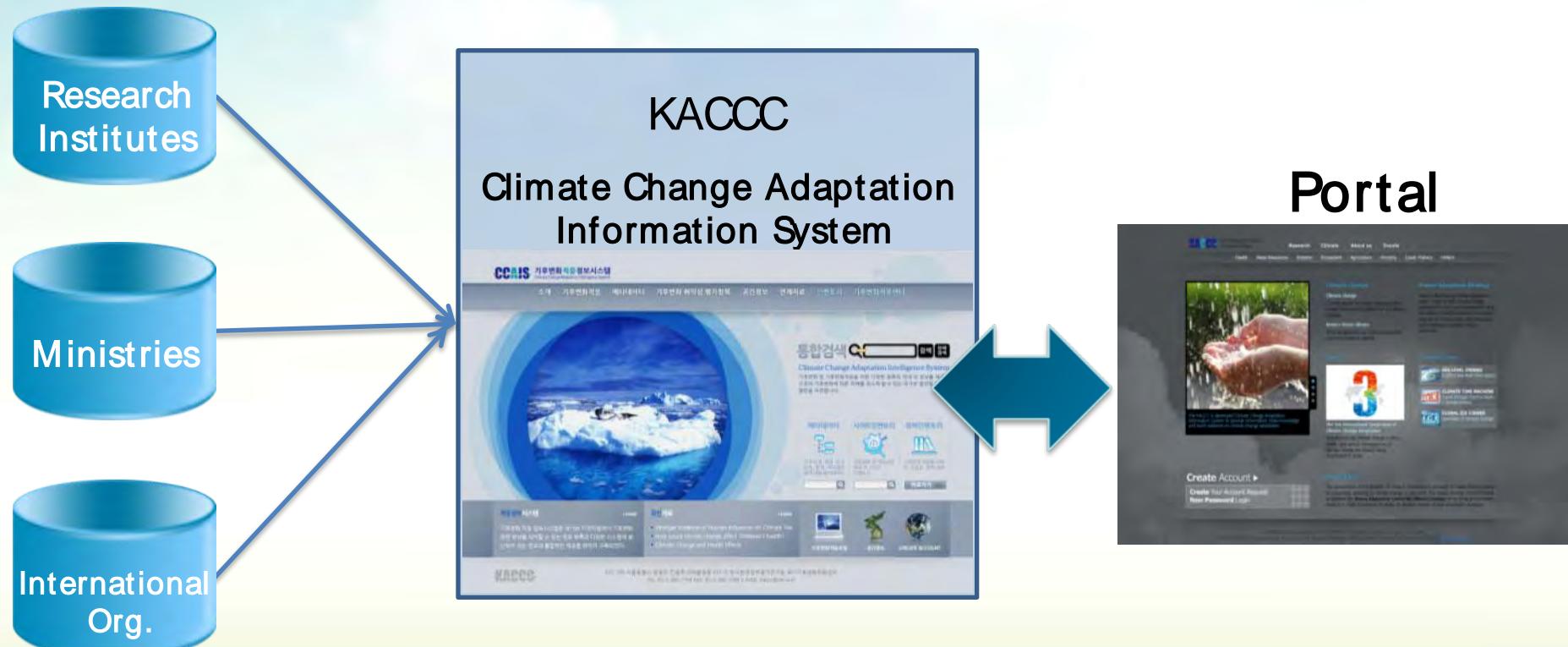
//adapt.kel.re.kr/budget/list.do#

3. Introduction of Korea Adaptation Center for Climate Change



Establishing & Operating Climate Change Adaptation Information System (CC AIS)

- ❖ Providing domestic and international adaptation information through CCAIS in a manner of 'One-Stop-Shop' since March 2010

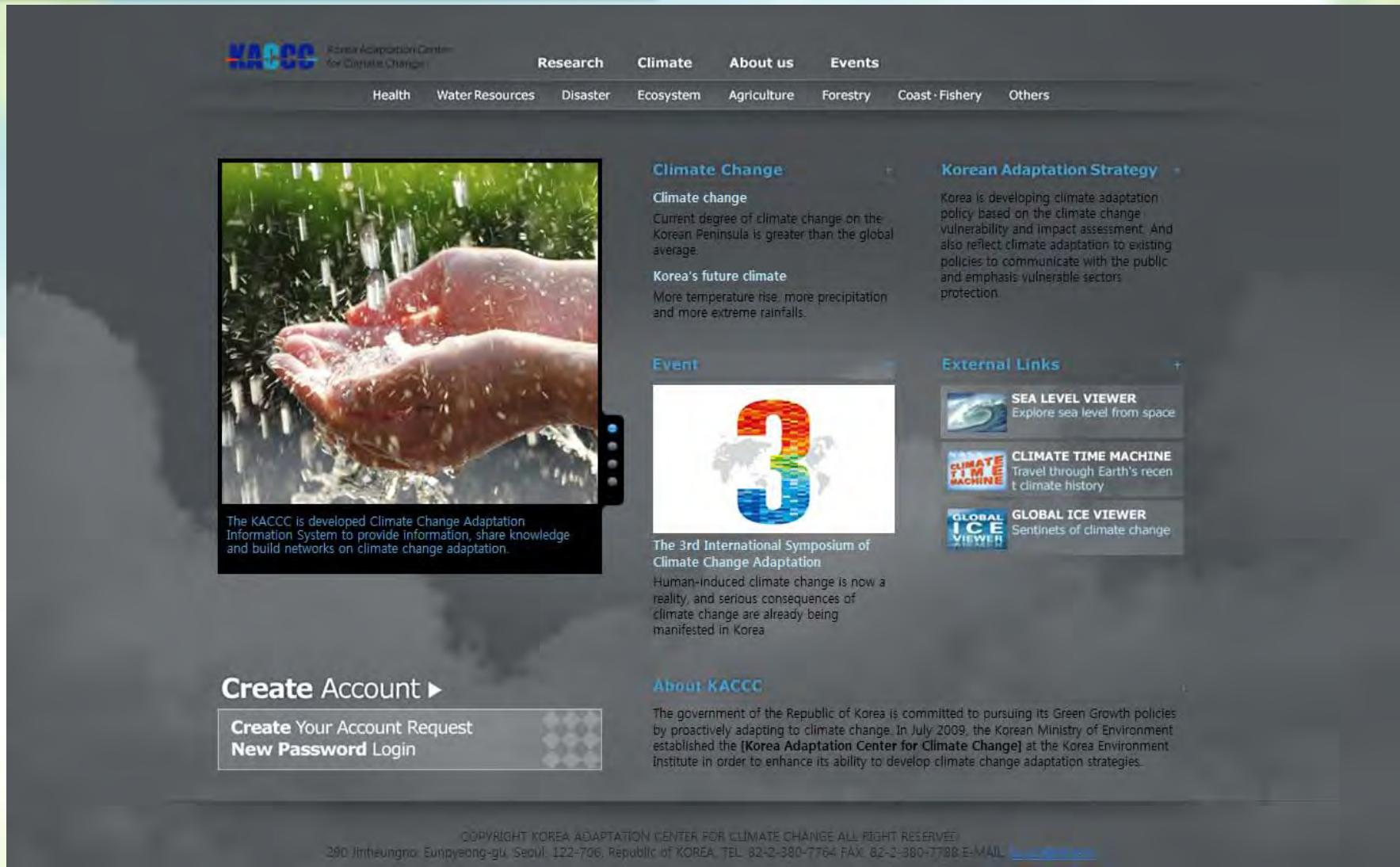


3. Introduction of Korea Adaptation Center for Climate Change



Climate Change Adaptation Web Portal

<http://kaccc.kei.re.kr/eng>



The screenshot shows the homepage of the KACCC website. At the top, there's a navigation bar with the KACCC logo, followed by links for Research, Climate, About us, and Events, along with sub-links for Health, Water Resources, Disaster, Ecosystem, Agriculture, Forestry, Coast·Fishery, and Others. A large banner image on the left shows hands cupping water against a green, leafy background. Below the banner, a text box states: "The KACCC is developed Climate Change Adaptation Information System to provide information, share knowledge and build networks on climate change adaptation." To the right, there are two main columns: "Climate Change" and "Korean Adaptation Strategy". The "Climate Change" section includes a "Climate change" section with a brief description and a "Korea's future climate" section with a description of projected changes. The "Korean Adaptation Strategy" section describes the development of a policy based on climate change vulnerability and impact assessment. Below these are sections for "Event" (showing a large "3" for the 3rd International Symposium) and "External Links" (listing Sea Level Viewer, Climate Time Machine, and Global Ice Viewer). At the bottom, there are "Create Account" and "About KACCC" sections, along with copyright information.

KACCC Korea Adaptation Center for Climate Change

Research **Climate** **About us** **Events**

Health Water Resources Disaster Ecosystem Agriculture Forestry Coast·Fishery Others

Climate Change

Climate change
Current degree of climate change on the Korean Peninsula is greater than the global average.

Korea's future climate
More temperature rise, more precipitation and more extreme rainfalls.

Korean Adaptation Strategy

Korea is developing climate adaptation policy based on the climate change vulnerability and impact assessment. And also reflect climate adaptation to existing policies to communicate with the public and emphasize vulnerable sectors protection.

Event

3

The 3rd International Symposium of Climate Change Adaptation

Human-induced climate change is now a reality, and serious consequences of climate change are already being manifested in Korea

External Links

SEA LEVEL VIEWER
Explore sea level from space

CLIMATE TIME MACHINE
Travel through Earth's recent climate history

GLOBAL ICE VIEWER
Sentinels of climate change

Create Account ▶

Create Your Account Request **New Password Login**

About KACCC

The government of the Republic of Korea is committed to pursuing its Green Growth policies by proactively adapting to climate change. In July 2009, the Korean Ministry of Environment established the [Korea Adaptation Center for Climate Change] at the Korea Environment Institute in order to enhance its ability to develop climate change adaptation strategies.

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3. Introduction of Korea Adaptation Center for Climate Change



National Adaptation Network of KACCC



3. Introduction of Korea Adaptation Center for Climate Change



International Adaptation Network of KACCC

- ❖ International Networks: International Symposiums, Joint Projects, etc.
- ❖ Training Program: ASEAN 6 countries

International Networks



Holding
International
Symposiums
on Climate
Change
Adaptation



Operating Joint
Project
(Signed JP with
UK FCO,
July,2011)

Training Program



Operating a
training program
cooperated with
UNEP



THANK YOU !!!