

영향 예보로의 전환을 통한 기상재해 리스크 경감

보도자료 Press Release



배포일시	2016. 12. 2.(금) 10:00 (총 7매)	보도시점	즉 시
담당부서	국립기상과학원 응용기상연구과	담당자	과장 김백조 연구관 김규량
		전화번호	064-780-6752 064-780-6753

농업기상정보 개선, 지리정보체계 핵심기술에서 찾는다!

- 기상청, '세계기상기구 농업기상 및 지리정보체계(GIS) 국제연수회' 개최

- 기상청(청장 고윤화)은 12월 5일(월)부터 9일(금)까지 제주도에서 최신 농업 기상기술의 활용과 확산을 위하여 '세계기상기구(WMO) 농업기상 및 지리정보체계(GIS) 국제연수회'를 개최한다.
 - 이번 국제연수회는 세계기상기구(WMO)와 공동으로 개최하여 지리정보체계(GIS)의 활용기술을 통해 세계 농업기상정보시스템의 개선방안을 논의하기 위해 마련되었다.
 - 이번 국제연수회에서는 학·관·연 전문가 100여 명이 참석하여 △초청강연 △주제발표 △세계기상기구(WMO) 특별전담팀 회의, 젊은 과학자들의 교육을 위한 △특강 시간으로 진행된다.
 - 초청강연과 주제발표에서는 농업기상정보와 핵심 기술인 지리정보 처리를 통해 활용 효과에 대해 논의할 예정이며,
 - 이어지는 세계기상기구(WMO) 특별전담팀 회의에서는 주제발표에서 도출된 기술 현황과 전망을 기반으로 '세계 농업기상정보시스템(WAMIS)'의 개선 방안을 찾는다.

- 이번 국제연수회의 내용 및 토론 결과는 세계기상기구 누리집 (www.wmo.int) 통해 게시될 예정이다.
- 고윤화 기상청장은 "이번 국제연수회를 통해 세계기상기구와의 국제 공조에서 선도적 역할을 수행하고, 농업의사결정 지원정보의 생산과 이를 통해 효과적인 기후변화 적응기술 대응책 마련의 계기가 되기를 기대합니다."라고 밝혔다.
- 붙임
 1. 세계기상기구(WMO) 농업기상·지리정보체계(GIS) 국제연수회 상세일정
 2. 세계기상기구(WMO) 농업기상·지리정보체계(GIS) 국제연수회 초청장

붙임 1

WMO농업기상-GIS 국제연수회 상세일정

: 농업정책 의사결정을 위한 농업기상 및 지리정보 활용을 위한 국제연수회

- 일시/장소: 2016.12.5.(월)~12.9.(금)/서귀포시 MSTAY 호텔
- 참석대상: 학·관·연·언·론 등 농업기상관련 전문가 100여 명

□ 세부일정

		내용
12.4. ()	15:00~17:00	사전등록 및 오리엔테이션
	17:00~18:00	의제 점검 및 해외전문가 협력 회의
	18:00~20:00	소통만찬
12.5. (월)	8:30~9:00	등록
	9:00~9:20	[개회식] 사회: 김규량 연구관(국립기상과학원) *개회사: 남재철 기상청차장 *환영사: 이병렬 WMO 의장 *축사: STEFANSKI, Robert(WMO 사무국)
	9:20~9:30	기념촬영
	9:30~10:20	[초청강연] 좌장: 김백조 과장(국립기상과학원) *Climate service innovation for global agenda under climate changes from WMO CAgM perspectives /이병렬 의장(WMO CAgM) *From data to geo-referenced data, improvements in agricultural meteorological projects in Africa /CAMACHO, Jose(WMO 사무국)
	10:20~10:40	휴식
	10:40~12:00	[세션 1: GIS Technology(I) on Agromet and GIS Applications for Agricultural Decision Making] 좌장: 김규량 연구관(국립기상과학원) *Agromet and GIS applications for agricultural decision making in our future /김규량 연구관(국립기상과학원) *The use of GIS to better understand crop response to climate change and variability /Dr. BRUNINI, Orivaldo(IAC 농업연구원) *Prospect and challenges of Agromet and GIS application in agricultural decision making in Nigeria /Prof. OLUWASEMIRE, Kolapo O.(이버턴대학) *Web-based information system for plant disease forecast based on weather data at high spatial resolution /박은우 센터장(국가농림기상센터) *Random Forests for global and regional crop yield predictions: Performance evaluation and application for climate impact studies /Prof. KIM Soo Hyung(와싱턴대학)
	12:00~14:00	점심
	14:00~15:40	[세션 2: GIS Applications on AgroMet(II)] 좌장: Dr. CHUNG, Uran(APCC)

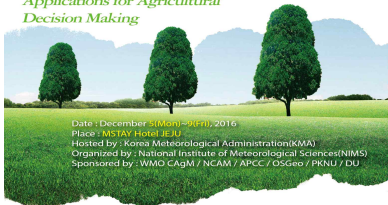
		<ul style="list-style-type: none"> *GIS tools, data, and methods used in the weekly US Drought Monitor /LUEBEHUSEN, Eric(미국농무부 경제수석실) *Development of agricultural decision support tool using Gridded meteorological data embedded with weather forecast /Dr. OHNO, Hiroyuki(일본 농업환경과학원) *Geospatial data for modeling impacts of climate-smart agriculture adoption at global-scale /Dr. KWON Ho Young(IFPRI(미국)) *A field-specific agrometeorological early warning service for weather risk management in Korea /심교문 팀장(농촌진흥청) *Understanding on utilization of weather and climate data with GIS tool in agriculture /Dr. CHUNG, Uran(APCC)
	15:40~16:00	휴식
	16:00~18:00	[세션 3: GIS Applications on Downscaling Methods(III)] 좌장: 오재호 교수(부경대학교) *Ultra-high resolution time traveling argo-meteorological information from seeding to harvesting for prospect estimation of crop yields /오재호 교수(부경대학교) *Statistical downscaling for extreme value /박정수 교수(전남대학교) *Recent trend in temperature and precipitation extremes over India /Prof. SINGH, G.P.(바나라스대학(인도)) *KREONET openScienceCloud service for agrometeorology /문정훈 선임연구원(KISTI) *New role for weather-based models in commercial agricultural decision making /Dr. Joe Russo(ZedX(미국))
18:00~20:00	환영 만찬	
12.6. (화)	9:00~10:00	[세션 4: GIS Technology(IV) on Agromet and GIS Applications for Agricultural Decision Making] 좌장: Prof. BRUNINI, Orivaldo(IAC 농업연구원(브라질)) *GIS technology for making decision in agrometeorology: Early Warning Systems in Andean Region and its impacts in the agriculture development /ESPINOZA, Diana(CIIFEN(에콰도르)) *USDA's operational GIS and related processes for International Weather and Crop Assessments /LUEBEHUSEN, Eric(미국농무부 경제수석실) *GIS applications of Agro Meteorology for Malaysia /ABDULLAH, Nor Adawiah(기상청(말레이시아)) *Agro-meteorological services of Myanmar /CHAW, May Khin(기상청(미얀마))
	10:20~10:40	휴식
	10:40~12:00	[세션 5: GIS Applications on AgroMet(V) : Meteorological Technology for User-Customized Agricultural Management] 좌장: 류영렬 교수(서울대학교)/양일규 본부장(국가농림기상센터) *Web-based warning forecast system for disease management of rice

		using numerical weather forecast data generated by the Unified Model / 센터장(국가농림기상센터) •Development of an on-demand microclimate information service for Ginseng /이규중 박사(국가농림기상센터) •Towards quantifying system resilience for climate-smart forestry /김 준 교수(서울대학교) •Estimation of forest water use with land surface model over Gwangneung watershed /박주한 연구원(서울대학교)
	12:00~14:00	점심
	14:00~16:00	[6: GIS Applications on AgroMet(III) : Meteorological Technology for User-Customized Agricultural Management] 좌장: 류영렬 교수(서울대학교)/양일규 본부장(국가농림기상센터) •Development of a micro-scale CFD model to predict wind environment on complex terrain /이인복 교수(서울대학교) •Estimation of water requirements in paddy and upland using the NCAM-LAMP meteorological data /최진용 교수(서울대학교) •A Land-Atmosphere Modeling Package (LAMP) for supporting agricultural and forest management at the National Center for AgroMeteorology (NCAM) Dr. LEE, Seung-Jae, NCAM /이승재 책임연구원(국가농림기상센터) •The operation of Agricultural and Forest Meteorological Observing Systems by KoFlux in the National Center for AgroMeteorology (NCAM) /강민석 선임연구원(국가농림기상센터) •Developing and evaluating a satellite derived rice growth and yield estimation model, BESS-Rice /후양 안 박사(서울대학교) •Integration of satellite data into land surface models /CALVET, Jean-Christophe(Meteo-France)
	16:00-16:20	휴식
	16:20-17:40	[세션 7: GIS Applications on Downscaling Methods(II)] 좌장: 문경환 연구관(온난화대응연구소) •Monsoon variability over South and East Asia: statistical downscaling from CMIP5 models /Dr. PRABHU, Amita(인도델타기상연구소(인도)) •Statistical downscaling for daily precipitation in Korea using combined PRISM, and quantile mapping : Part I, Methodology and evaluation in historical simulation /김선애 연구원(공주대학교) •Open Discussion : Issues on downscaling methods and their promising directions in the future on the purpose of agrometeorology /양성대 연구원(국립기상과학원)
12.7. (수)		[세션 8: GIS Working Group(I)] 좌장: 이병렬 의장(WMO CAgM) [Tutorial 1: Statistical Downscaling] 윤상후 교수(대구대학교)
	9:00~10:20	WMO CAgM Perspectives Statistical Downscaling(I)

	10:20~10:40	휴식
	10:40~12:00	WMO CAgM Perspectives Statistical Downscaling(II) (Until 1 PM)
	12:00~14:00	점심
		[세션 9: GIS Working Group(II)] [Tutorial 2: Open GIS Training course] 좌장: Prof. BRUNINI, Orivaldo 백두진 팀장(서울주택도시공사)
	14:00~15:40	Task Team 2.1 Meeting QGIS for Agromet(I)
	15:40~16:00	휴식
	16:00~17:40	Task Team 2.1 Meeting QGIS for Agromet(I)
12.8. (목)		[세션10: GIS Working Group(III)] [Tutorial 3: Open GIS Training course] 좌장:김규량연구관(국립기상과학원) 이성규 선임연구원(APEC기후센터)
	9:00~10:20	Task Team 2.1 Report QGIS for Agromet(II)
	10:20~10:40	휴식
	10:40~12:00	Task Team 2.1 Report QGIS for Agromet(II)
	12:00~14:00	점심
		[세션14: GIS Working Group(IV)] [Tutorial 4: Dynamical Downscaling] 좌장:김규량연구관(국립기상과학원) 양신일 연구원(부경대학교)
	14:00~15:40	Wrap-up Dynamical Downscaling(I)
	15:40~16:00	휴식
	16:00~17:40	Wrap-up Dynamical Downscaling(I)
12.9. (금)		Tutorial 5 : Dynamical Downscaling 양신일 연구원(부경대학교)
	9:00~10:20	Dynamical Downscaling(III)
	10:20~10:40	휴식
	10:40~12:00	Dynamical Downscaling(III)
	12:00~13:00	점심
	13:00~17:30	Field Trip to National Institute of Meteorological Sciences and Jeju Agricultural Research Center
	18:00-20:00	환송만찬

붙임 2 WMO농업기상·GIS 국제연수회 초대장

The International Workshop on Agromet and GIS Applications for Agricultural Decision Making



Date : December 6(Mon)-9(Fri), 2016
 Place : HAYRY Hotel JEJU
 Hosted by : Korea Meteorological Administration(KMA)
 Organized by : National Institute of Meteorological Sciences(NIMS)
 Sponsored by : WMO CAGM / NCAM / APCC / OSGeo / PKNL / DU

It is my great pleasure and honor to announce that KMA hosts the "International Workshop on Agromet and GIS Applications for Agricultural Decision Making" sponsored by World Meteorological Organization(WMO). As KMA already made great partnership with WMO by supporting WAMIS, GIAM, and S2S implementation.

We would like to use this opportunity to cordially invite you to attend the workshop, and it is expected that agricultural decision making would be step forward and its related technology comes into wide use.

I wish to extend my deepest thanks to all the participants from WMO and its task team members for making it possible to hold such important occasions as well as to the sponsors such as WMO CAGM, NCAM, APCC, OSGeo, PKNL, and DU.

We hope to see you at Jeju, designated as UNESCO World Heritage.

Yumina Ko
 Administrator

Korea Meteorological Administration(KMA)

행사일정

- 12 5**
Monday
 - Opening Address by Dr. Anm. Jee-Chul (Vice Administrator, KMA)
 - Welcome Remarks by Dr. Lee. Seung-Cheol (President of CAGM, APCC)
 - GIS Applications for Agromet
 - Dynamical Downscaling Methods for Agromet
 - Welcome Reception
- 12 6**
Tuesday
 - Agromet and GIS Applications for Agricultural Decision Making by Item of CAGM, WMO
 - Agromet and GIS Applications for Agricultural Decision Making by Item of CAGM, WMO
 - Statistical Downscaling Methods for Agromet
 - Welcome Reception
- 12 7**
Wednesday
 - Issues on Current Status and Future on Agromet and GIS Applications for Agricultural Decision Making by GIS Working Group
 - Tutorial for Statistical Downscaling
 - Tutorial for QGIS I
- 12 8**
Thursday
 - GIS Working Group Meeting
 - Tutorial for Dynamical Downscaling I
 - Tutorial for QGIS II
- 12 9**
Friday
 - Tutorial for Dynamical Downscaling II
 - Field Trip

오시는 길



Hayryong-ro 353beon-gil, Seogwipo-si, Jeju-do, Korea

Lineairoute	Jeju International Airport, Gate 5
	→ New Transportation Terminal (New Bus Stage)
Taxi	Jeju International Airport, Taxi Stop
	→ 55374-4000

Reference TEL : +82-64-893-8000
 FAX : +82-64-893-8100
 Reservation TEL : +82-2-2138-8768-8765
<http://www.kma.go.kr>

- We welcome anyone who is interested in, but RSVP is required in the tutorial sections.
 - Email to sungdoe79@korea.kr for reserving the seat including the name and affiliation.
 - The pre-registration for the tutorials is closed by November 19th, 2016.
 - The remained seats serve first-come and first-served base.

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