

World Meteorological Organization Organisation météorologique mondiale

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Weather . Climate . Water Temps • Climat • Eau

Notre réf.: ETR/CRS-615

GENÈVE, le 9 juin 2015

Annexes: 2 (disponibles en anglais seulement)

Objet:

Cours international de formation sur le thème «Prévisions saisonnières et gestion de l'eau dans le contexte du bassin méditerranéen: approches intégrées», Institut de biométéorologie du Conseil national de recherche (CNR-IBIMET), Florence (Italie), 5-9 octobre 2015 (formation à distance) et 19-23 octobre 2015

(formation en présentiel)

Suite à donner: Pour information et mesures à prendre

Madame, Monsieur,

J'ai le plaisir de vous informer que le Centre régional de formation professionnelle (CRFP) de Florence (Italie) va organiser un cours international de formation sur le thème: «Prévisions saisonnières et gestion de l'eau dans le contexte du bassin méditerranéen: approches intégrées» dans les locaux de l'Institut de biométéorologie du Conseil national de recherche (CNR-IBIMET), à Florence, du 5 au 9 octobre 2015 (formation à distance) et du 19 au 23 octobre (formation en présentiel).

Ce cours, d'une durée d'une semaine, s'adresse aux techniciens des services agrométéorologiques, aux climatologues, aux agrométéorologues et aux chercheurs spécialisés dans l'agriculture et le climat, qui pourront ainsi harmoniser leurs points de vue et se mettre d'accord sur un langage commun.

Les participants apprendront à mettre à profit les prévisions climatiques saisonnières pour la gestion de l'eau et des cultures, plus particulièrement dans le contexte de l'agriculture méditerranéenne. Vous trouverez dans l'annexe I de plus amples informations sur ce cours, qui se déroulera en anglais, et notamment sur les conditions de participation.

Les personnes intéressées sont invitées à remplir le formulaire d'inscription ci-joint (annexe II) et à le renvoyer directement au CNR-IBIMET (v.tarchiani@ibimet.cnr.it), au plus tard le 10 juillet 2015.

Veuillez agréer, Madame, Monsieur, l'expression de ma considération distinguée.

(E. Manaenkova) pour le Secrétaire général

Aux: Représentants permanents (ou directeurs des Services météorologiques ou hydrométéorologiques) des Membres de l'OMM (PR-6851)

CC: Conseillers en hydrologie auprès des représentants permanents

WORLD METEOROLOGICAL ORGANIZATION

ETR/CRS-615, ANNEX I

COURSE INFORMATION FORM

WMO - CNR-IBIMET

Seasonal forecasts and water management in the Mediterranean Basin: integrated approaches

5-9 October 2015 (Distance Learning)

19-23 October 2015 (Classroom Learning)
Area di Ricerca CNR
via Madonna del Piano, 10- 50019 - Sesto Fiorentino (Florence) - ITALY

Course Description

The purpose of this week-long course is to build capacities for the application of climate seasonal forecasts for water management in the Mediterranean countries.

Climatic variability and related risks are affecting water availability for multipurpose uses, while the water demand is dramatically rising. Agriculture is just one of the many sectors demanding an improvement in water management, being in competition with other economic activities where water uses ensure greater economic value such as energy, tourism, industry.

Since the late 90's seasonal forecasts experienced a growing role, despite the large uncertainties still present. Recent advances in seasonal to interannual hydro-climatic predictions provide an opportunity for developing a proactive approach towards water management. Precipitation and temperature anomalies knowledge, available a few months early, could be useful for technical services and organizations on managing water resources.

At the same time, methods and scientific results are still underexploited and not easily accessible and comprehensible for potential users.

According with the Global Framework for Climate Services, the course addresses the need to develop mechanisms for delivery of climate services for water managers and users and for enabling risk mitigation strategies at various levels and identifying research and transfer demand by end-users. This training course will contribute to the strengthening of existing regional networks for the application of seasonal forecast (MedCOF, PRESANORD, SEECOF).

Expected Learning Outcomes

Through the course, participants will acquire theoretical and practical knowledge on current approaches to use, create and apply seasonal forecast products in the Mediterranean Region, with particular emphasis on:

- General aspects of seasonal forecasts related to the production and use of seasonal forecasts:
- Fundamentals of seasonal forecasts with emphasis on sources of predictability and the diagnosis of the requirements for water management applications of seasonal forecasts;
- Operational application of seasonal forecasts to water management in different sectors.

Target Audience

The course is addressed to hydrometeorological services technicians, climatologists, agrometeorologists and hydrologists and climate researchers, by creating an environment where climate, hydrology and agriculture actors could share a common view and develop a common language. Target countries are all the countries of the Mediterranean Basin.

Course Content

The 2015 course will be organized in three modules:

- 1. General aspects of seasonal forecasts: this module aims to ensure that all the participants have the same basic knowledge and comprehension of seasonal forecasts. This module will last 1 week and will be realized online through the Moodle distance learning platform from 5-9 October. General aspects covered by this module will be:
- Data analysis and manipulation with open source R tool;
- IRI/LDEO Climate data Library Tutorial;
- Introduction to available multi-model database of seasonal forecasts (WMO-LRF.MME, NMME, EUROSIP);
- Global modeling for seasonal forecasting;
- Sources and mechanisms of long-term predictability;
- Downscaling of seasonal forecasts;
- Statistical seasonal forecasts.
- 2. Fundamentals of seasonal forecasts: This module will last 2 days of classroom front learning in Florence from 19 to 20 of October.

This module will address the following aspects:

- Summarizing the distance learning module;
- Sources of long-term predictability in the Mediterranean;
- Seasonal forecasts as operational climate services for drought and water management;
- Diagnosis of the requirements for water management applications of seasonal forecasts;
- Practical training sessions.
- 3. Operational application of seasonal forecasts for water management: this module will address practical needs and solutions for applying seasonal forecast to water management. This module will last 3 days of front classroom learning in Florence from 21 to 23 October. Aspects covered by this module will be:
- Users' requirements for seasonal forecast application in water management;
- Applications of seasonal forecasts on water management for agriculture;
- Applications of seasonal forecasts for water and drought management ad river basin level;
- Practical training sessions.

Course Format

1 week of distance learning through the Moodle platform (5 to 9 October)

1 week of front learning (19 to 23 October) in Florence (Italy), lectures, group discussions, case studies, practical training sessions.

Evaluation

Training evaluation will be performed at two levels: reaction and learning using e-evaluation tools. At the first level participants' and trainers' thoughts and feelings about the learning experience are assessed in order to evaluate the training team and organization.

At the second level, increase in participants' knowledge, skills, and associated behaviours are assessed in order to evaluate the training outcomes and the efficiency of the learning approach. Single interviews with trainers and trainees will be also collected for documenting the training activities.

Instructors' institution, tentative names and topic

IBIMET-CNR (Italy), Massimiliano Pasqui, Numerical modeling and downscaling techniques

IBIMET-CNR (Italy), Ramona Magno, applications of SF for drought management

IBIMET-CNR (Italy), Maurizio Bacci, applications of SF on agriculture

WMO, Long-range forecasts at WMO

UK-METOFFICE (UK), Carlo Buontempo, Climate Services overview in the European Context CMCC (Italy), Silvio Gualdi, Global modeling for seasonal forecasting

IC3 (Cataluña), Paco Doblas-Reyes, Seasonal Climate prediction for improvement of Climate Services

AEMET, Ernesto Rodriquez Camino, Users' requirements for SF application in water management NRC (Italy), Pier Paolo Roggero, Climate information for water management

Arpa Emilia Romagna (Italy), Valentina Pavan, Applications of SF for water management for agriculture

Florence University (Italy), Roberto Ferrise, Applications of SF on water management for agriculture

Florence University (Italy), Fabio Castelli, Hydraulic Engineering, Application of hydrological SF for water and drought management at river basin level

Ibn Khaldoun University (Algeria), Lazreg Benaichata, Application of SF for decision-making in Water Management

Language

English

Participant Qualifications for Admission

- Education Level: to be specialized in meteorology, climatology, hydrology, agricultural sciences, or water management;
- Position/Task: from National Hydrometeorological Services, National Agricultural Services, or Research Institutions from Mediterranean Countries;
- Experience: At least 3 years of relevant working experiences;
- Language: To be proficient in English.

Application and Selection Process

Candidates are requested to submit the Application Form to IBIMET-CNR. Applications will be evaluated in collaboration with WMO and the course partners. Admission Notices will be issued to the accepted participants by e-mail by IBIMET-CNR. With the Admission Notices, the participants are requested to go through all the necessary formalities, including visa application if required, for entering in Italy.

Admitted participants are requested to prepare a report/presentation on their (or their service's) experience on the themes of the course for the purpose of exchanges.

Costs

Tuition is free for all the accepted participants that receive the endorsed Admission Notices by IBIMET-CNR.

IBIMET-CNR will provide support for booking accommodation in Florence and will provide local transportation.

Deadline for Application

10 July 2015





ETR/CRS-615, ANNEX II

NOMINATION FORM

International Training Course Seasonal forecasts for agriculture in the Mediterranean Florence, Italy

5-9 October 2015 (Distance Learning) 19-23 October 2015 (Classroom Learning)

Section A: Personal Details				
1. 2. 3. 4. 5. 6.	Country Title: Mr/Ms/Miss/Dr/Prof/ First Name (Given) Family Name (surname) E-mail Telephone No. Fax No.	: : :		
8.	Official Address	:		
9.	Date of Birth	:		
10.	Nationality	:		
11.	Gender		☐ Female	☐ Male
12.	Passport Number	:		
13.	Do you need an entry visa for	Italy?	□ No	☐ Yes
Se	ction B: Qualification			
14.	Qualification (Certificates, dip	lomas, deç	grees, etc.):	

15. Please indicate your English language skills:

	Excellent	Good	Fair	Poor	Nil
Speaking					
Reading					
Writing					

Section C: Work Experience
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17. Present work: National Meteorological and/or Hydrological Service (NMHS) WMO Regional Training Center (RTC) Other National Technical Service: University/Research Institution: Other (Please specify):
18. What is your job title? :
19. How long have you been in this position? :
20. Your qualification: Meteorologist Agronomist Other (Please specify)
21. Do you have experience on?
Climate analysis/modelling
□ YES □ NO
 Production of Seasonal forecasts
■ □ YES □ NO
 Use of Seasonal forecasts
■ □ YES □ NO
 Sensitivity of crops to climate variability and extremes
■ □ YES □ NO
Section D: Rationale for Applying
22. How are you involved in Climate/Meteorological applications for agriculture in your position?

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23. Why do you want to attend this	s course? Be specific about how it will help you in your work.
24. Statement by candidate on he course in the work after the co	ow she/he anticipates using the knowledge and skills from this
Section E: Travel and local co	osts and Insurance
25. How your travel and local costs	s will be covered?
☐ Your Administration:	
☐ WMO	
☐ Other:	
26. Insurance	
I fully understand that the couloss of life, accidents, illness,	urse organizer does not take any responsibility for risks such as loss of property etc.
Personal statement	
responsibility for the above information	tion given above is true, correct and complete. I shall bear the nation. I pledge to observe all the Italian laws and will respect the nar regulations during my stay in Italy for the training seminar.
Place:	Date:
Signature of the Candidate:	

Endorsement of the Nominator

1.	Name of Orga	nization		
2.	Name and Signature of the Permanent Representative with WMO:			
	Name			
	Signature			
3.	Official Seal			
4.	Date			

To be completed and returned as soon as possible <u>by e-mail</u> to IBIMET-CNT **not later than 10 July 2015** to:

Vieri Tarchiani

E-Mail: v.tarchiani@ibimet.cnr.it

Include a short CV (last 5 years) with the present form

Contact:

Vieri Tarchiani IBIMET-CNR Via G.Caproni 8 – 50145 Florence, ITALY Tel. +390553033711

E-Mail: v.tarchiani@ibimet.cnr.it