



North EurAsia
Climate Centre



Actions of North Eurasia Climate Center
and North Eurasia Climate Outlook Forum in light of some of Decisions and
Recommendations of CCI-17

Практика СЕАКЦ и СЕАКОФ в свете некоторых решений и рекомендаций ККл-17

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Chair of CCI/CBS IPET-RCA WMO

16th session of North Eurasia Climate Outlook Forum

3rd June 2019, Moscow

Resolution 3 (CCI-17)

Enhancing WMO Regional Climate Centre Operations

- Decides to:
 - Finalize and publish technical guidance for the establishment and operation of RCCs and RCC-Networks, as well as next-generation RCOF operational practices, focusing on objective approaches to seasonal prediction;
 - Enhance the role of RCCs and WMO Regional Training Centres in the RCOF-associated training activities to make them more effective in capacity development at the national level;

Резолюция 3 (ККл-17)

Расширение функционирования региональных климатических центров ВМО

Постановляет:

- Завершить и опубликовать техническое руководство по учреждению и функционированию РКЦ и РКЦ-сетей, а также содействовать публикации руководства по оперативным практикам региональных форумов по ориентировочным прогнозам климата (РКОФ) следующего поколения, уделяя внимание объективным подходам к сезонному прогнозированию;
- Укрепить роль РКЦ и региональных учебных центров ВМО в мероприятиях по профессиональной подготовке по линии РКОФ, чтобы повысить их эффективность в области развития потенциала на национальном уровне.

WMO guidance documents in support of operational practices NHMSs and RCCs

1. Guidance on Operational Practices for Seasonal Forecasting will be published soon

2. Guidance on Establishment and Operation of WMO Regional Climate Centres will be published soon

3. Guidance on RCOF function (Draft version in December)

Руководящие документы ВМО в поддержку оперативной деятельности НГМС и РКЦ

1. Руководство по оперативной практике сезонного прогнозирования будет опубликовано в самое ближайшее время

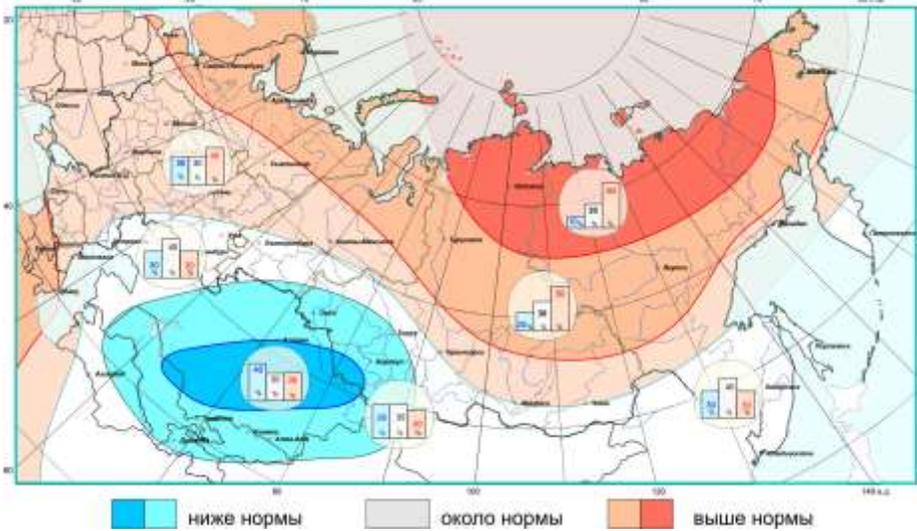
2. Руководство по созданию и функционированию региональных климатических центров ВМО будет опубликовано в самое ближайшее время

3. Руководство по функционированию RCOF (черновой вариант планируется представить к декабрю 2019)

Toward objective consensus outlooks from NEACOF

DJF 2018/2019

Air temperature



Precipitation



**Consensus process
was mostly
subjective
but objective
approach is in
development**

Процесс составления консенсуса был в основном субъективным, объективный подход реализуется

Recommendation 6 (CCI-17)
Good practices in the use and interpretation of climate change projections on regional and national scales

- **Invites** WMO RCCs and RCC-Networks to take up the highly recommended function on regional climate change projections to promote these -good practices and consistent approaches to produce, interpret and use climate change projections on regional and national scales;

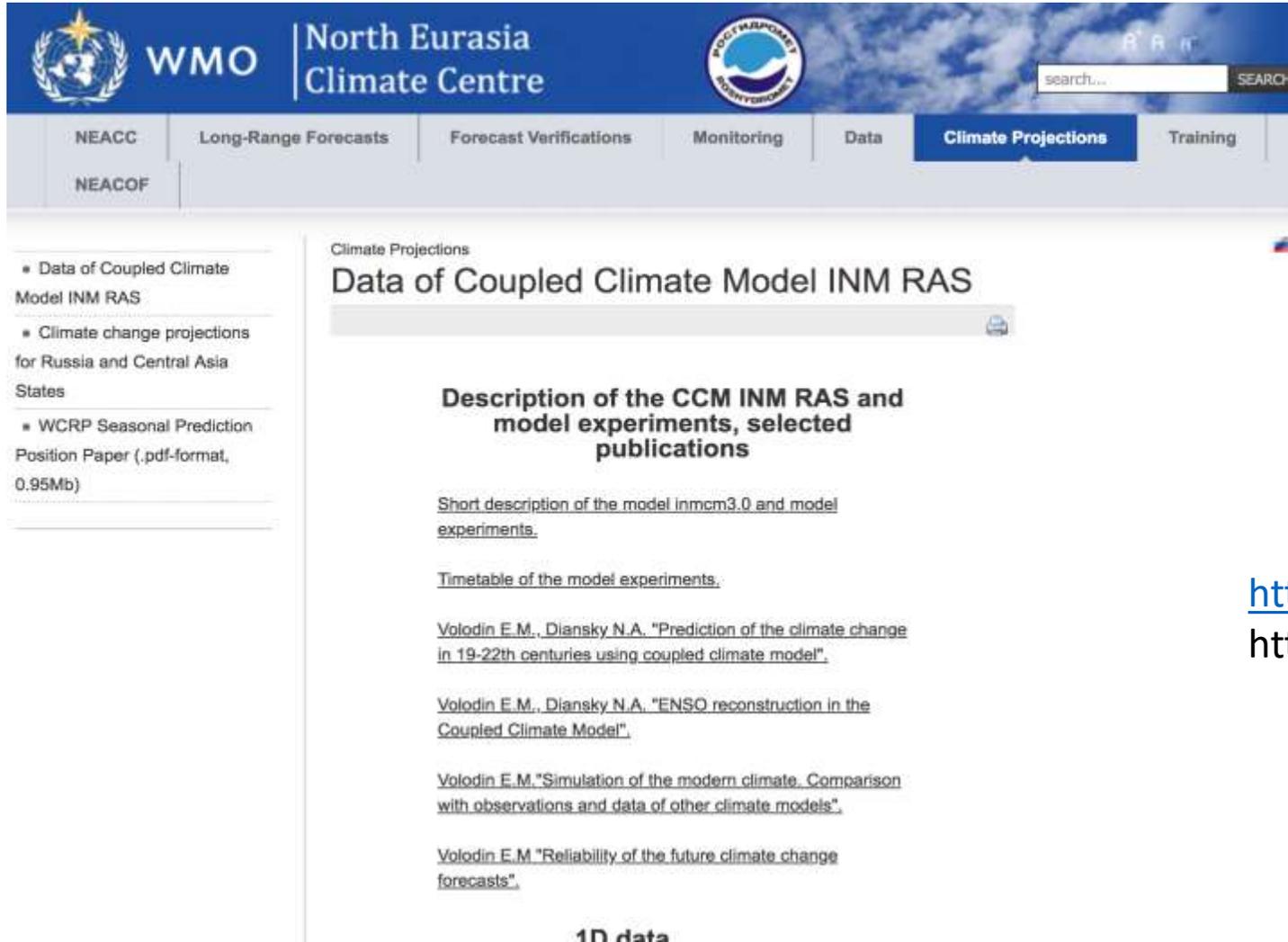
Рекомендация 6 (ККл-17).

Надлежащая практика использования и интерпретации проекций изменения климата в региональном и национальном масштабах.

- Предлагает РКЦ ВМО и сетям РКЦ приступить к выполнению настоятельно рекомендуемой функции в отношении региональных проекций изменения климата с целью популяризации этой передовой практики и последовательных подходов для подготовки, интерпретации и использования проекций изменения климата в региональном и национальном масштабах;

Promoting the use and interpretation of climate change projections in cooperation with INM RAS

Доступ к данным и анализу проекций изменения климата при содействии ИВМ РАН



The screenshot shows the website interface for the WMO North Eurasia Climate Centre. The header includes the WMO logo and the text 'North Eurasia Climate Centre'. A navigation menu contains links for NEACC, Long-Range Forecasts, Forecast Verifications, Monitoring, Data, Climate Projections (highlighted), and Training. A search bar is located in the top right corner. The main content area is titled 'Climate Projections' and 'Data of Coupled Climate Model INM RAS'. A sidebar on the left lists navigation options: 'Data of Coupled Climate Model INM RAS', 'Climate change projections for Russia and Central Asia States', and 'WCRP Seasonal Prediction Position Paper (.pdf-format, 0.95Mb)'. The main text area contains a section titled 'Description of the CCM INM RAS and model experiments, selected publications' with several links to publications and data.

WMO North Eurasia Climate Centre

Climate Projections

Data of Coupled Climate Model INM RAS

Description of the CCM INM RAS and model experiments, selected publications

[Short description of the model inmcm3.0 and model experiments.](#)

[Timetable of the model experiments.](#)

[Volodin E.M., Diansky N.A. "Prediction of the climate change in 19-22th centuries using coupled climate model".](#)

[Volodin E.M., Diansky N.A. "ENSO reconstruction in the Coupled Climate Model".](#)

[Volodin E.M. "Simulation of the modern climate. Comparison with observations and data of other climate models".](#)

[Volodin E.M. "Reliability of the future climate change forecasts".](#)

1D data

<http://seakc.meteoinfo.ru/research>
<http://neacc.meteoinfo.ru/research>

Acknowledgement to E.Volodin



RUS | ENG

Data of Coupled Climate Model INM RAS

1D data (globally-averaged)

Data specifications

First experiment Single experiment

Control run (1871-2000)
 Modeling of climate of the 20th century (1871-2000)
 Scenario A1B (2001-2300)
 Scenario A2 (2001-2300)
 Scenario B1 (2001-2300)
 Scenario B2 (2001-2300)

Time interval

Start date: year 1871 (see experiment)
 End date: year 2000 (see experiment)

Second experiment Compare with experiment

Control run (1871-2000)
 Modeling of climate of the 20th century (1871-2000)
 Scenario A1B (2001-2300)
 Scenario A2 (2001-2300)
 Scenario B1 (2001-2300)
 Scenario B2 (2001-2300)

Time interval

Start date: year 1871 (see experiment)
 End date: year 2000 (see experiment)

Time interval

Start date: year 1871 (see experiment)
 End date: year 2000 (see experiment)

Physical quantity

Temperature, 2m
 Precipitation, mm
 See user's guide to the control run

Output plot settings

Plot background: black white
 Output graphical format: PNG GIF
 Color/Shaded plot
 Output only for control plot
 Reverse color table (only for contour plot)
 Plot contour grid
 Polar stereographic projection
 Reverse color scale
 Plot land mask
 Reverse contour labels

Overlaid default contour interval:
 Contour range from: to:

Scale plot: 75%

[New figure](#) / [Download data](#) / [Default settings](#)

[Back to the previous page](#)



RUS | ENG

Data of Coupled Climate Model INM RAS

2D data (latitude-longitude)

Data specifications

Region specifications

Latitude	Longitude
Southernmost: -90 (From -80 to 90)	Westernmost: -180 (From -180 to 180)
Northernmost: 90 (From -90 to 90)	Eastermost: 180 (From -180 to 180)

First experiment Single experiment

Control run (1871-2000)
 Modeling of climate of the 20th century (1871-2000)
 Scenario A1B (2001-2300)
 Scenario A2 (2001-2300)
 Scenario B1 (2001-2300)
 Scenario B2 (2001-2300)

Time interval

Start date: month 1 (1-12) year 1871 (see experiment)
 End date: month 12 (1-12) year 2000 (see experiment)

Second experiment Compare with experiment

Control run (1871-2000)
 Modeling of climate of the 20th century (1871-2000)
 Scenario A1B (2001-2300)
 Scenario A2 (2001-2300)
 Scenario B1 (2001-2300)
 Scenario B2 (2001-2300)

Time interval

Start date: month 1 (1-12) year 1871 (see experiment)
 End date: month 12 (1-12) year 2000 (see experiment)

Physical quantity

Ground temperature:
 Temperature, 2m
 Specific humidity, kg
 Surface wind, km/h
 Meridional wind, km/h
 Sea level pressure

Output plot settings

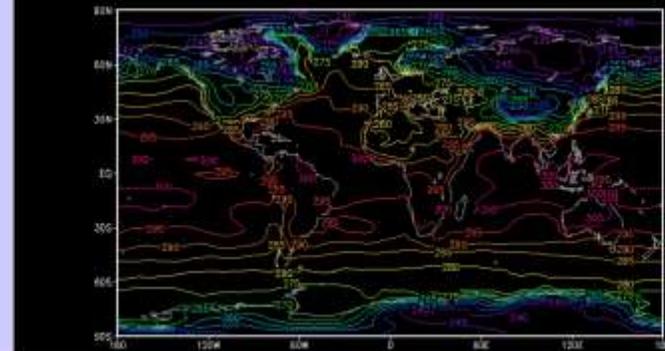
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 Plot contour grid
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 Reverse color scale
 Plot land mask
 Reverse contour labels

Overlaid default contour interval:
 Contour range from: to:

Scale plot: 75%

С помощью программы Climate Explorer, в
 Northernmost: 90
 Southernmost: -90
 Westernmost: -180
 Easternmost: 180
 Control run: (1871-2000): January 1871

Ground temperature, K
 min = 232.575
 max = 305.569



Recommendation 9 (CCI-17) Integrated capacity development process for Climate Services Information System (CSIS)

- **Decides** to initiate and implement an integrated capacity development process to support further the CSIS operationalization, with elements to include:
 - Use of RCCs, RCOFs and NCOFs/NCFs to systematically identify and address capacity development requirements;
 - Hands on implementation assistance via twinning with NMHSs that provide training services, coupled with deployment of the Climate Service Toolkit (CST) and experts;

Рекомендация 9 (ККл-17) Комплексный процесс наращивания потенциала в интересах Информационной системы климатического обслуживания

Постановляет инициировать и осуществить комплексный процесс развития потенциала в целях содействия дальнейшему практическому внедрению Информационной системы климатического обслуживания :

- использование региональных климатических центров, региональных форумов по ориентировочным прогнозам климата и национальных форумов по ориентировочным прогнозам климата/национальных климатических форумов для систематического выявления и удовлетворения потребностей в области развития потенциала;

Young Scientist School and Conference on Computational Information Technologies for Environmental Sciences CITES-2019



27 May - 6 June 2019
Moscow, Russia

Further Information:
http://indico.ictp.org/event/27291
www.ctites19.org

The theme of the school is subsectional to decadal (SD2) weather and climate predictions. The school will cover aspects from modelling and data assimilation to forecast information delivery and relevant practical applications.

Description:

Summarize the necessity of SD2 predictions from significant meteorological variables, potential sources of atmospheric predictability, and its interactions of the atmosphere with the ocean, stratosphere, land surface, and internal atmospheric modes of variability such as the SD2 and SD3. The event comprises a one-month school with lectures given by leading experts from the World Climate Research Programme (WCRP) Working Group on Subseasonal to Intra-seasonal Prediction (WGSP), interacting speakers from some of the world's leading operational centres. The lecture will be complemented by lab exercises using open-source data of reanalysis time-series/historical forecasts.

In the second week, the "Computational Information Technologies for Environmental Sciences" Conference will take place.

More information on the conference, including abstract requirements, is available at:

<http://www.ctites19.org>

Topics:

- Subseasonal predictability;
- Seasonal predictability;
- Intra-seasonal predictability;
- Forecast verification;
- Practical applications of long range forecasts.

The school invites applications from PhD students, early career scientists and national meteorological service specialists. A working knowledge of English language is required and is considered better in English than part of the application process. Participants are requested to bring their own laptop. WGSP data and its visualization.

Organizers:

C. ACOSTA
Institute for Monitoring of Climate and Ecological Systems,
SEI, Umeå, Sweden
S. STAN
Hydroinformatics of Beas, Beas de
S. ESTEBAN
Madrid Institute of Advanced Mathematics, IMA and
Hydroinformatics of Beas

ICTP

Contact/Organizer:

A. TOSCANI
ICTP, Trieste, Italy

Speakers Include:

L. BATTI, Meteo France, France
L. FUSKAS, COMET, US
S. TRENK, BMG, Australia
S. STAN, Hydroinformatics of Beas
G. ZANGRILLI, University of Parma, Italy
S. MONTAUDO, COMET, Canada
S. SIBELI, ONMA, University of Buenos Aires, Argentina
A. TOSCANI, ICTP, Trieste, Italy
N. TOUSSAINT, Météo France, France

How to apply:

Online applications:
<http://indico.ictp.org/event/27291/>

Send us abstracts and materials we encourage to apply.

Grants:

A limited number of grants are available to support the attendance of selected participants, with priority given to participants from developing countries. There is no registration fee.

Deadline:

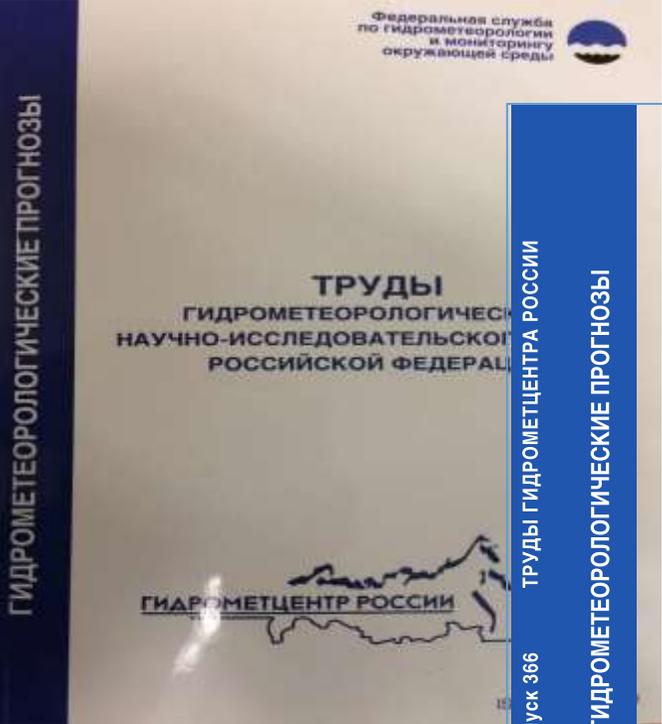
1 February 2019



Integrated approach with collaboration of research community demonstrates high effectiveness of trainings

Комплексный подход в сотрудничестве с научным сообществом демонстрирует высокую эффективность проведения обучающих тренингов

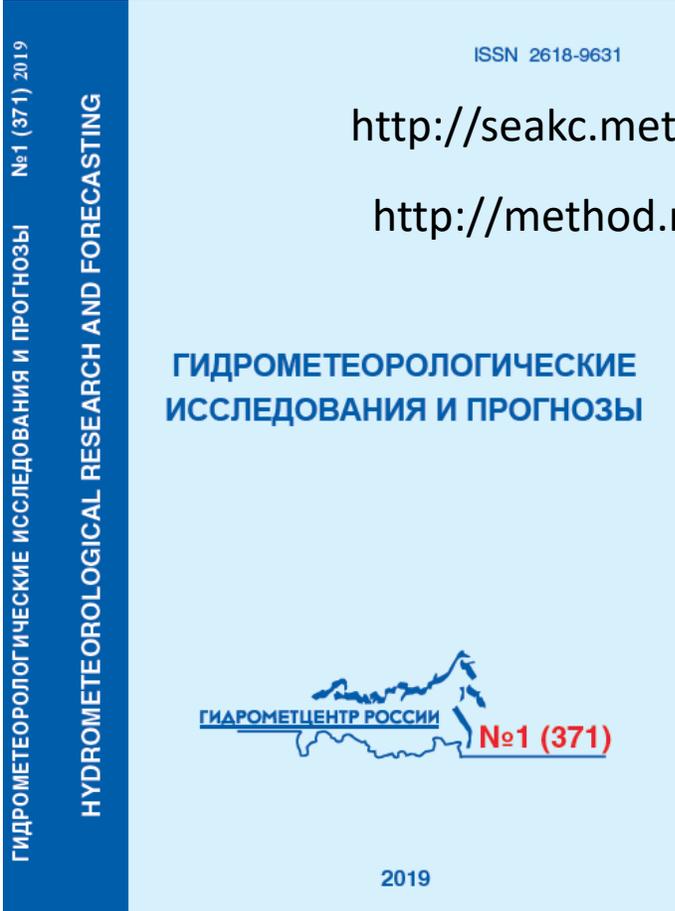
Materials of NEACOF session (research papers and technical notes) have been published in special issues of scientific-technical journal “Hydrometeorological Forecasting and Research ” (former “Trudy Hidrometcentra Rossii”)



2016



2017



2019

<http://seakc.meteoinfo.ru/training/articles>
<http://method.meteorf.ru/publ/tr/tr.html>