



**IPA 2012/290-552 Project: *Building Resilience to Disasters in Western Balkans & Turkey***

**Regional workshop on historic hydrometeorological data management**

**22-26 April 2013, Hotel Arka, Skopje**

**TENTATIVE PROGRAMME - Doc.1**

<b>08:30-16:00</b>	<b>DAY One, Monday, 22 April, 2013</b>
08:30	<i>Registration</i>
<b>09:00-10:30</b>	<b>SESSION I: Opening</b>
09:00-09:20	<i>Welcome addresses</i> <b>Vanco Dimitriev</b> , Director of Republic Hydrometeorological Service, FYR of Macedonia <b>Peer Hechler</b> , Scientific Officer, WMO Secretariat
09:20-09:30	<i>Introduction of resource persons and scope of the workshop –</i> <b>Sari Lappi</b> , WMO Project Coordinator in Skopje
09:30-10:15	<i>WMO programmes and activities to assist the beneficiaries –</i> <b>Peer Hechler</b> , Scientific Officer, WMO Secretariat
10:15-10:30	<i>Presentation of the IPA Project ‘Building Resilience to Disasters in Western Balkans and Turkey’</i> <b>Sari Lappi</b> , WMO Project Coordinator in Skopje
<b>10:30-15:30</b>	<b>SESSION II: Introduction and data rescue</b>
10:30-10:50	<i>WMO Guidelines on Data Rescue -</i> <b>Peer Hechler</b> , WMO Secretariat
10:50-11:45	<i>MEDARE - context and current status -</i> <b>Manola Brunet</b> , Director, Centre for Climate Change, University Rovira i Virgili, Spain
11:45-12:00	<i>Discussion</i>
<b>12:00-13:00</b>	<b>Lunch</b>
13:00-14:40	<i>Data rescue activities of the beneficiaries (10 min. presentation per each)</i> <b>Representatives from Albania, Bosnia and Herzegovina, Croatia, Montenegro, Serbia, Kosovo*, the former Yugoslav Republic of Macedonia, Turkey, Jordan and Lebanon</b>
<b>14:40-15:00</b>	<b>Coffee</b>
15:00-15:30	<i>Discussion</i>
15:30-16:00	<i>Wrap up of the Day I and Preparation for the next days’ practical sessions</i>

\*This designation is without prejudice to positions on status, and is in line with UNSCR 1244 and the ICJ Opinion on the Kosovo Declaration of Independence

09:00-16:30	<b>Day Two, Tuesday, 23 April, 2013</b>
09:00-10:15	<b>SESSION III: Calculating high-quality Climate- and Hydrological-oriented Extreme Indices &amp; Quality control of the temperature and precipitation time series</b>
09:00-09:30	<i>Introduction to develop high-quality indices</i> <b>Manola Brunet</b>
09:30-09:45	<i>Rationale for time series Quality Control</i> <b>Manola Brunet</b>
09:45-10:15	<i>Application of the RClimDex and the extra-QC software to QC temperature and precipitation data at the daily scale - <b>Joan Ramon Coll</b>, University Rovira i Virgili</i>
10:15-12:00	<b><i>Practical Hands-on Training Session I</i></b>
	<i>Application of the RClimDex and extra-QC to the time-series, brought by the participants</i>
12:00-13:00	<b>Lunch</b>
13:00-16:00	<b><i>Practical Session I (continuation)</i></b>
13:00-14:30	<i>Application of the RClimDex and extra-QC to the time-series, brought by the participants</i>
14:30-14:45	<b>Coffee</b>
14:45-16:00	<b><i>Practical Session I (continuation)</i></b>
14:45-16:00	<i>Application of the RClimDex and extra-QC to the time-series, brought by the participants</i>
16:00-16:30	<i>Wrap up of the Day Two - Discussions</i>

<b>09:00-16:30</b>	<b>Day Three, Wednesday, 24 April, 2013</b>
09:00-12:00	<b><i>Practical Session I (continuation)</i></b>
09:00-12:00	<i>Application of the RClimDex and extra-QC to the time-series, brought by the participants</i>
<b>12:00-13:00</b>	<b><i>Lunch</i></b>
13:30-15:00	<b>SESSION IV: Climate time-series homogenization</b>
13:30-14:15	<i>The need of time-series homogenization: the rationale and basic concepts for homogeneity testing and homogenization</i> <b>Peter Domonkos</b> , University Rovira i Virgili
14:15-14:35	<i>Homogenizing monthly temperature and precipitation series: peculiarities in the appearance of inhomogeneities and the possible ways for their elimination - <b>Peter Domonkos</b></i>
14:35-15:00	<i>Statistical tools in homogenizing temperature and precipitation series with emphasis on the main properties of ACMANT and Craddock-test - <b>Peter Domonkos</b></i>
<b>15:00-16:00</b>	<b><i>Practical Hands-on Training session II</i></b>
15:00-15:30	<i>Applying ACMANT to homogenize temperature series at the monthly scale</i> <b>Participants with the support of the trainers</b>
15:30-15:45	<i>Coffee</i>
15:45-16:00	<b><i>Practical session II (continuation)</i></b>
15:45-16:00	<i>Applying ACMANT to homogenize temperature series at the monthly scale</i>
16:00-16:30	<i>Wrap up of the Day Three-Discussions</i>

09:00-16:30	<b>Day Four, Thursday, 25 April, 2013</b>
09:00-12:00	<b>Practical session II</b> (continuation)
09:00-12:00	<i>Applying ACMANT to homogenize temperature series at the monthly scale</i>
12:00-13:00	<b>Lunch</b>
13:00-13:45	<b>SESSION IV: Climate time-series homogenization</b> (continuation)
13:00-13:45	<i>Downscaling of monthly adjustments to daily climatic data</i> <b>Peter Domonkos</b>
13:45-15:00	<b>Practical Hands-on Training Session III</b>
13:45-15:00	<i>Guided application of the adjustments at the daily scale</i> <b>Participants with the support of the trainers</b>
15:00-15:15	<i>Coffee</i>
15:15-16:00	<b>Practical session III</b> (continuation)
15:15-16:00	<i>Guided application of the adjustments at the daily scale</i> <b>Participants with the support of the trainers</b>
16:00-16:30	<i>Wrap up of the Day Four - Discussions</i>

<b>09:00-16:30</b>	<b>Day Five, Friday, 26 April, 2013</b>
<b>09:00-12:00</b>	<b>SESSION V: Climate and Hydrological-oriented extreme indices calculation</b>
09:00-09:30	<i>The ETCCDI's Extreme Indices: their meaning and applications</i> <b>Manola Brunet</b>
09:30-10:00	<i>Calculation of the extreme indices by using daily adjusted data and RClimDex</i> <b>Joan Ramon Coll</b>
<b>10:00-12:00</b>	<b>Practical Hands-on Training Session IV</b>
10:00-12:00	<i>Calculating extreme indices with RClimDex</i> <b>By trainees with the support and guidance of the trainers</b>
<b>12:00-13:00</b>	<b>Lunch</b>
<b>13:00-14:00</b>	<b>SESSION V: Climate and Hydrological-oriented extreme indices calculation (continuation)</b>
13:00-13:30	<i>SPI , SPEI and PDSI indices: fundamentals and applications</i> <b>Joan Ramon Coll, University Rovira i Virgili</b>
13:30-14:00	<i>Application of the SPI, SPEI and PDSI software</i> <b>Joan Ramon Coll</b>
<b>14:00-16:00</b>	<b>Practical Hands-on Training Session V</b>
14:00-16:00	<i>PDSI, SPI and SPEI estimation from the adjusted temperature and precipitation data</i> <b>By trainees with the support and guidance of the trainers</b>
<b>16:00-16:30</b>	<b>SESSION VI: Closing Discussions and wrap up of the workshop</b>