



**THE INTERNATIONAL AMATEUR RADIO UNION,
REGION 1
AMATEUR RADIO DIRECTION FINDING
WORKING GROUP**



**To: all members of the IARU Region 1
ARDF Working Group**

**Cc: IARU Region 1 EC
IARU Region 2 ARDF Coordinator
IARU Region 3 ARDF Committee**

**Chairman:
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Date: August 21st, 2015

MINUTES

37th Plenary Meeting of the IARU Region 1 ARDF Working Group

**held at the IARU Region 1 ARDF Championship, Mariánské Lázně, Czech Republic,
August 18-21, 2015**

The agenda:

1. Opening by the Chairman
The meeting was opened on August 18th, 2015 at 15:00.
2. Welcome to the Guests
The Chairman welcomed all guests, especially Mr. Ole Garpestad, LA2RR, Vice President IARU and Mr. Oliver Tabakovski, Z32TO, IARU R1 EC Member.
3. Introduction of the present WG members and their attendants
 - see list of participants (Appendix A)
 - out of total 25 members of the ARDF WG, 21 are present, which constitutes a quorum.
4. Apologies for absence, proxies
 - Following ARDF WG members apologized for absence:
 - Harald Gosch, OE6GC representing OeVSV
 - Patrice Vette, F8AZG representing REF
 - Franci Zankar, S57CT, representing ZRS (will be present at the 2nd part of the meeting)
 - Following proxies were presented and accepted:
 - Arne Jensen, OZ9VA gives proxy to Villy Hansen, OZ6KH (proxy within EDR)
 - Bob Titterington, G3ORY gives proxy to Robert Vickers, G3ORI (proxy within RSGB)
 - Marcel Olah, YO5OVS gives proxy to Pavel Babeu, YO9TW (proxy within FRR)

5. The agenda of the 37th Plenary Meeting of the IARU R1 ARDF WG was approved unanimously.

6. To discuss the applications of new International Class referees

The applications of Krzysztof Jaroszewicz, SQ5ICY, Tomasz Deptulski, SP2RIP (both PZK) and Remigijus Masilionis, LY1RM (LRMD) were approved unanimously.

7. Forthcoming IARU Youth ARDF Championships

1. To receive preliminary information and to appoint the Chairman of the Jury of the 17th Youth ARDF Championship 2016 to be hosted by Norwegian society NRRL

NRRL stated that all information presented one year before (date, venue, fees) would still be valid (the written bulletin is distributed at the 2nd part of the meeting - see Appendix C). The given fees were 100 EUR total entry fee, 250 EUR for accommodation and board, resulting in 350 EUR for the full package. Upon request, the entry fee for each competition (alternative to total entry fee, rule 6.1) was announced to be 35 EUR. These fees were approved unanimously. There was no decision yet concerning an additional fee for late payment (rule 6.6).

NRRL proposed Jiri Marecek, OK2BWN, to be the Chairman of the Jury. This proposal was approved unanimously. There was no proposal yet for a substitute.

2. To discuss the venue and the hosting society of the 18th Youth ARDF Championship 2017
FRR stated its interest to host the 18th Youth ARDF Championship 2017. MRÁSZ stated it was looking into applying as a host, too. WG decided to set the deadline for proper applications to be sent to the WG chairman by September 30, 2015. ARDF WG will then decide by e-mail voting.

3. CRC application for organizing 19th Youth ARDF Championship 2018

CRC presented its application. The entry fee per competition was declared to be 950 CZK max. (app. 33 EUR at the current rate).

WG unanimously approved CRC to be the host of the 19th Youth ARDF Championship 2018.

8. Forthcoming IARU ARDF Championships

1. To receive preliminary information and to appoint the Chairman of the Jury of the 18th ARDF World Championship in 2016 to be hosted by Bulgarian society BFRA

BFRA distributed the printed Bulletin 1 during the WG meeting. The entry fee per competition was declared to be 50 EUR. This entry fee was approved unanimously.

BFRA proposed Ole Garpestad, LA2RR to be the Chairman of the International Jury. This proposal was approved unanimously. There was no proposal yet for a substitute.

2. To receive preliminary information of the 21st IARU R1 ARDF Championship in 2017 to be hosted by Lithuanian society LRMD

LRMD declared that an update to the information presented the year before will be given in October. The written bulletin is distributed at the 2nd part of the meeting - see Appendix D.

3. To receive preliminary information of the 19th ARDF World Championship in 2018 to be hosted by IARU Region 3

[Based on update via E-Mail on August 22:] Region 3 has got two candidates: KARL (Korea) and WIA (Australia). Region 3 will make a decision in September 2015.

4. To discuss the venue and the hosting society of the 22nd IARU R1 ARDF Championship in 2019

There was no application so far.

9. ARDF Rules (Appendix B)

The chairman of the Sub-Group Rules presented a number of changes to the rules:

1. To delete Appendix 5 (start list preparation), including minor resulting changes to 17.3, S2, F17: This change drops the parallel start system, and it allows every competitor to be assigned to the desired starting group. This change was approved unanimously.

2. To clarify the wording of S6.5 (Sprint transmitter setup): This change was approved unanimously.

WG members remarked that increased attention must be given that the antenna and grounding system cannot be accidentally damaged by competitors, because the distance between antenna and registering device is so close now.

3. To add S6.6 (Symmetrical grounding system): This change was approved unanimously. A quick informal poll initiated by DARC indicated that symmetrical grounding systems are preferred and used also in classic 3.5 MHz competitions in most countries. A symmetrical grounding system might become a general rule instead of being only required for Sprint. The WG tasks SGR to discuss the details of the specification of 3.5 MHz antennas in the Rules.
4. To add a recommended frequency allocation for 3.5 MHz competitions: This change was approved unanimously.
HRS asked to add a note about the motivation of this recommendation: During one event, the same set of frequencies shall be used so that competitors are not required to prepare for different frequencies in different competitions.
WG members suggested to reduce the recommended minimum channel spacing between simultaneously working transmitters (T2.6) from 30 kHz to 20 kHz. This change was approved unanimously.
5. To recommend different frequencies for neighboring foxoring transmitters: This change was approved unanimously.
During discussion, DARC raised doubts that the proposed change does actually address the problem which motivated that change.
Again, HRS asked to add a note about the motivation of this recommendation.
6. BFRA proposal about increasing of number of competitors in junior and senior categories: The chairman of SGR gave a summary of the discussion within SGR. SGR recommended to decide against the proposal because disadvantages outweigh the advantages. The WG decided against the proposal.
7. Clarification of 20.7 (Number of transmitters assigned to particular categories): approved unanimously.
8. Editorial correction of 30.4 ("exceeded" rather than "exceed"): approved unanimously.
9. Clarification of F23.3 (removal of the word "all"): approved unanimously.

At 17:10 the ARDF WG meeting was adjourned to August 21, 2015, 16:00.

The ARDF WG meeting was reopened on August 21, 2015, 16:15.

The minutes of the first session were distributed at the beginning of this session.

The WG approved the minutes of the first session.

10. Evaluation of the ARDF events.

A report by the chairman of the jury of EYAC 2015 and a paper with the course data analysis (see Appendix E) from WCH 2014 and EYAC 2015 by the chairman of the ARDF WG were given out at the beginning of the session.

1. 17th ARDF World Championship 2014 hosted by KFRR, Kazakhstan

The WG chairman gave an overview over problems observed during WCH 2015, especially discussing the courses of the second classical competition and the foxoring, and suggested not to use full climb limit (6% of the course length) for the oldest categories (W60, M70).

The Jury Chairman of the WCH 2015 reported that neither he nor the siting referee did receive the maps prior to the championships. The siting referee was unable to visit the competition areas prior to the championships.

2. 16th Youth Championship 2015 hosted by PZK, Poland

According to the report of the Jury Chairman and also information from several team leaders the event was well prepared and run. The only reported problem was the language problems of several referees and team officials. The WG chairman suggested that all information shall be given in written and/or published on the web (generally more understandable) and participating

societies should choose team officials able to speak English. According to the given course data analysis, course lengths and winning times were appropriate. Again it is recommended not to use full climb limit for youngsters categories.

3. Discussion of actions to be taken

DARC pointed out that course data already needs to be calculated and sent to the chairman of the jury one month prior to the championship, but only for the "Classic race courses" (20.9). DARC proposed to remove the word "Classic" so that sprint and foxoring are covered, too. This change was approved unanimously.

DARC suggested that the siting referee should be located reasonably close to the venue, and that this should be considered by the WG when dealing with applications for hosting a championship.

The WG discussed how much care should it be taken when selecting hosting societies. On the one hand unexperienced organizers can hardly fulfill the high demand for quality. On the other hand there is a strong wish to not have only a small number of frequent organizers.

Common opinion is that societies should use an international cup or the EYAC to get used to the organizational capabilities required to run an international championship.

DARC points out that the WG already established the practice of including referees from future hosting societies in the Jury of the current championships. However, language issues diminish the effectiveness of this practice.

11. IARU Region 1 Child protection policy

The discussion showed that there was a clear agreement on the principles. Some national law might require even stronger action.

However, the details of the implementation are unclear or controversial. The impact of non-conformance with this policy (missing or modified declarations) is unknown. The given practices might have an impact on organizing low-cost events with mass accommodation, e.g. youth championships. The required statement on (maybe unrelated) criminal record or criminal proceedings might be regarded as undue.

Some issues might be solved by the parents' written consent, and such a document should already be common on an international level.

The WG chairman recommended to handle the policy guided by common sense.

12. Any other business, courtesies

Some open points from the first meeting were being dealt with again:

1. NRRL proposed P-A Nordwaeger, SM0BGU to be the substitute chairman of the jury of EYAC 2016: approved unanimously.

NRRL declared not to take a late payment fee for EYAC 2016. However, NRRL stressed that fees are to be payed also on no-show. NRRL was reminded to give a deadline for changing/canceling registration in the next bulletin.

NRRL asked for the approval to use Emit as registering system during EYAC 2016. NRRL confirmed that this system was used successfully in the past for ARDF, and the Emit cards would be supplied by the organizer. The WG approved Emit for the EYAC 2016 unanimously.

2. BFRA proposed Dusan Ceha, YU1EA to be the substitute chairman of the jury for WCH2016: approved unanimously.

The WG shortly discussed the issue of non-paying on no-show. There was common agreement that registered participants need to pay the fees on no-show [to the amount required] to cover the costs of the organizer. DARC pointed that the rules do not (yet) contain sanctions for misbehaviour.

WG members proposed that organizers could redirect the participating teams to prearranged hotels for direct contracting. This would relieve the organizer from an organizational burden and financial risk. Participants would benefit from standard hotel bills when applying for refunding at home.

Oliver Tabakovski, Z32TO, joined the session. He reported that the IARU Region 1 president appointed the new international class referees.

For the purpose of scheduling international championships, Z32TO reported that the IARU Region 1 General Conference 2017 will be held on September 16-23, 2017.

Z32TO restated the importance and necessity of the IARU Region 1 Child Protection Policy.

LRMD asked on further action with the paper on Anti-Doping which they submitted to the IARU Region 1 General Conference 2014. The WG chairman gave his impression that at the moment IARU has no interest to deal with this topic on the international level. Instead, it should be dealt with on a national level. In some countries, even national law has strict regulations against doping. LRMD raised the issue that an international WADA contract might be prerequisite to national financial support. Z32TO reported that IARU Region 1 started to get in contact with the IOC about radio sports because of one request referring to such prerequisites.

13. To close the meeting

The WG Chairman passed his thanks to all ARDF WG members for their work and expressed hope for the fruitful cooperation in the future and closed the meeting at 17:45.



Jiří Mareček, OK2BWN

IARU Region 1 ARDF Working Group Chairman

Minute taker: Kai Pastor, DG0YT

APPENDIX A:

List of participants of the 35th IARU R1 ARDF WG Plenary Meeting

name, callsign	society	18 AUG 2015	21 AUG 2015
Jiri Marecek, OK2BWN	Chairman	present	present
Ole Garpestad, LA2RR	IARU	present	
Oliver Tabakovski, Z32TO	IARU R1 EC	present	present
Liudmila Hudeaeva, ER1FRS	ARM	present	
Viktor Tsenkov, LZ3NN	BFRA	present	present
Jiri Pavlu, OK1CHE	CRC	present	present
Kai Pastor, DG0YT	DARC	present	present
Villy Hansen, OZ6KH	EDR	present	present
Pavel Babeu, YO9TW	FRR	present	
Stipe Predanic, 9A5SP	HRS	present	present
Remigijus Masionis, LY1RM	LRMD	present	present
Gábor Páp, HA8MGC	MRASZ	present	present
Jon Sletvold, LA9NGA	NRRL	present	present
Krzysztof Jaroszewicz, SQ5ICY	PZK	present	present
Robert Vickers, G3ORI	RSGB	present	present
Jozef Fekiač, OM3CCE	SARA	present	present
Kimmo Lehtosaari, OH2JKU	SRAL	present	present
Chermen Guliev, UA3BL	SRR	present	present
Dušan Ceha, YU1EA	SRS	present	
Jan Palmquist, SM5FUG	SSA	present	present
Igor Lazarev, US0VA	UARL	present	present
Kurt Smet, ON4CHE	UBA	present	present
Paul Rudolf, HB9AIR	USKA	present	present
Dick Fijlstra, PA0DFN	VERON	present	
Franci Zankar, S57CT	ZRS		present

APPENDIX B:

SUB-GROUP RULES

The meeting of the IARU R1 ARDF WG Sub-Group Rules was held on August 16th, 2015, 1400-1700. Sub-Group Rules discussed proposals suggested during the year and also some other considerations and submits to the ARDF WG meeting following recommendations:

1. To delete the whole Appendix 5 (start list preparation).

Note: Recommendation according to many proposals during last years. The defined algorithm is very complicated and sometimes even illogical. Its usage does not bring any advantage. The (fully functional) drawing procedure is already completely described in paragraph 17.

Consequences:

- the start list drawing will be MUCH simpler and easier
- societies with less than 3 competitors in a category can allocate them to any group (early, middle, late) they want
- no more parallel starts which are always considered in a very negative way

17.6 Competitors from the same society and category may not start ~~at the same time or~~ consecutively. If they are drawn to start consecutively, the next competitor shall be inserted between them.

~~S2.3 : Competitors from the same category may not start at the same time in the sprint competition.~~
(to delete the whole point)

~~F17.6. Competitors from the same category may not start at the same time in the foxoring competition.~~
(to delete the whole point)

Note: After deleting Appendix 5, this situation is not possible any more.

2. Sprint transmitters setup

S6.5 (original) Transmitters are equipped with registering devices without flags. The finish beacon is equipped with at least two registering devices, especially if acting as the spectator control as well. Field transmitters have no flags and their registration devices stands are painted in red and white stripes. The spectator control and the beacon are equipped with flag.

S6.5 (new wording) Field transmitters have no flags and their registration devices stands are painted in red and white stripes. The finish beacon is equipped with at least two registering devices, especially if acting as the spectator control as well. The spectator control and the beacon are equipped with flag. Registering devices shall be placed not more than 1 m away from the antenna.

Note: more logical wording. As the red/white stands are less visible than flags, they should be closer to the antenna.

S6.6 new paragraph: The antenna grounding system shall be symmetrical around the vertical radiator to ensure precise aiming to the antenna.

Note: common 1-radial counterpoise significantly deviates the aiming towards the end of the counterpoise in the vicinity of the transmitter.

Current paragraphs S6.6 and 6.7 shall be renumbered to S6.7 and S6.8

3. Recommended frequency allocation for the 3,5 MHz ARDF competitions

T2.7 Recommended frequency allocation for the 3,5 MHz ARDF competitions

	classic	sprint	foxoring
3510 kHz		TX 1...5	TX 1, 1F, 2, 2F
3540 kHz	TX 1...5	spectator (S)	TX 3, 3F, 4, 4F
3570 kHz		TX 1F...5F	TX 5, 5F
3600 kHz	beacon	beacon	beacon

Note: unified frequencies allow competitors to mark just 4 channels once for all competitions.

Current paragraph T2.7 shall be renumbered to T2.8.

4. Different frequencies for the foxoring transmitters

FT2.9 It is recommended that at least neighbouring field transmitters operate at different frequencies.

Note: this removes the interference between nearby transmitters. In addition, it calls for better technical skill of competitors (foxoring on a single frequency is very easy, easier than orienteering itself).

5. BFRA proposal (to cancel the limitation on the quantity of competitors in senior categories (M40/W35 and above) and to increase the number of competitors in M19/W19 to 5 per country and category):

Sub Group opinion: Actually we see the motivation quite positively, but after a lengthy discussion considering arguments from a broader perspective, we came to the conclusion that the disadvantages outweigh the advantages.

Reasons: 1. M40 and M50 are already the most numbered categories. Further extending would enormously lengthen the starting field. In addition, especially in these categories the biggest increase is expected.

2. According to the usual participation in last years, just some 5-6 countries (20-25%) could benefit from this change, which would further increase the difference between them and other countries.

3. It would be impossible to estimate the number of participants for planning the forthcoming events.

4. It is not good for the ARDF Championships image when most of competitors are seniors (which is already true and this change would further increase the ratio). There are enough big ARDF competitions organized so everyone can find the one suitable for him/her.

6. Misprints and redundant and illogical wording corrections (no meaning change)

20.7 Number of transmitters and course lengths assigned to particular categories:

Category	number of transmitters	effective course length
W19	4...5 + finish beacon	6...8 km
W21	4...5 + finish beacon	7...9 km
W35	4...5 + finish beacon	6...8 km
W50	3...4 + finish beacon	5...7 km
W60	3...4 + finish beacon	4...6 km
M19	4...5 + finish beacon	8...10 km
M21	5 + finish beacon	9...12 km
M40	4...5 + finish beacon	8...10 km
M50	4...5 + finish beacon	6...8 km
M60	3...4 + finish beacon	5...7 km
M70	3...4 + finish beacon	4...6 km

Note: as the courses for particular categories shall be different, the only possibility for M19,W19,M40 and W21 categories are 4 transmitters

30.4 ... Competitors ... who have exceed the time limit,... shall be "who have **exceeded** the limit" (*misprint*)

F23.3... The map start (the point where competitors obtain the maps), nominal positions of **all** transmitters assigned to the particular category, finish beacon and the finish corridor shall be clearly marked on the map.... (*unambiguity*)

SGR: OK2BWN, DG0YT, UA3BL

APPENDIX C:



EYAC 2016

European Youth ARDF Championship

Oslo, Norway - July 2nd-5th

Welcome to Oslo and EYAC 2016

Oslo, capital city of Norway

An unique location with the city and orienteering terrain well suited for radio orienteering in one location.

Event centre is the youth Hostel Haraldsheim located 5 km from downtown of Oslo. Refurbished in 2012 with many new rooms. The youth hostel has both tram and bus service downtown every 15 minutes.

Public transportation from Oslo Int. Airport Gardermoen, 40min by shuttle bus. Ferry connection to Denmark and Germany

Schedule

Saturday July 2nd

Arrival and registration

Sunday July 3rd

Training, Sprint and Opening ceremony

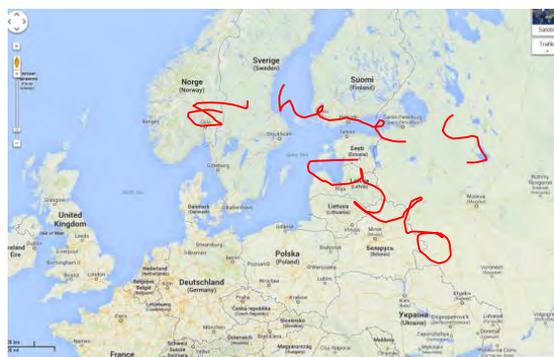
Monday 4th

Competition day 80m/2m

Tuesday 5th

Competition day 80m/2m

Closing ceremony



Follow us

www.eyac2016.org



Organizers

NRRL - Norwegian Radio Relay League, is the responsible organizer for EYAC 2016.

Organizing committee:

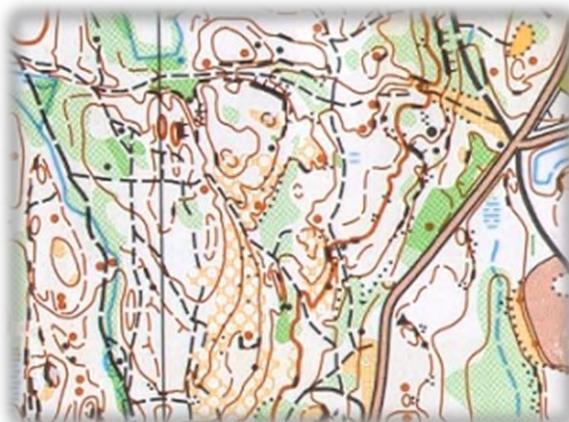
LA1KP	Øivind Solli
LA2RR	Ole Garpestad
LA5OM	Steinar Moen
LA9NGA	Jon Sletvold



Maps and terrain

IOF standard orienteering maps covering all hills around Oslo.

Maps with printed legend in
1 : 10 000 and A4 size for classic
1 : 5 000 sprint map



Weather in July

The middle temperature in Oslo is about 16C in July and seldom above 30C. The running condition is usually very good this time of the year

Price

We are currently working with sponsors to keep the prices as low as possible. The final amount will be published in due time before the event. Preliminary budget prices:

Accommodation	250 €	4 nights full pension
Accommodation three days	190 €	3 nights full pension
Competition	100 €	Sprint, 80m and 2m
Packet all included	350 €	

Web <http://www.eyac2016.org/>



APPENDIX D:

21th IARU Region 1 ARDF Championships

Lithuania 2017

Bulletin No. 0 (21-08-2015)

Lithuanian Amateur Radio Society (LRMD) has honor to invite all participants, officials and visitors to 21th IARU Region 1 ARDF Championships in 2017 in Lithuania. All events will be held in surroundings of Druskininkai in various terrains. We believe that it will be demanding for ARDF athletes to demonstrate their skills to navigate in radio direction finding as excellent orienteer and at the same time to run fast.

We would like to invite all ARDF society to spend a week in excellent resort with good leisure possibilities: Snow Arena (skiing indoors in summertime), Aqua Park, Soviet sculpture exhibition and other museums.

Organizers:

Lithuanian Amateur Radio Society (LRMD)
Executive club SK Radio-O.lt

Contacts:

Remigijus Masilionis
Ph. +370 685 33144
e-mail: r.masilionis@gmail.com

Venue and date of the event:

Druskininkai Spa Resort, south of Lithuania. Dates of championships September 04-10, 2017.
Connection through Vilnius International Airport (125 km from event center) or Kaunas International Airport (135 km from event center).
Event center would be in Grand SPA Lietuva as well as main accommodation facility. There are a lot of other possibilities to get accommodation of any level in Druskininkai, and that will be provided by organizers.

Programme suggested as follows:

Date	Weekday	Sprint	Foxoring	Classics 2m	Classics 80m	Other
04-09-2017	1	Model	Model			Arrival
05-09-2017	2		Competition			Awarding
06-09-2017	3	Competition		Model classics 80+2m		Awarding; Arrival for classics
07-09-2017	4			Competition	Competition	Awarding
08-09-2017	5					Leisure proposals by organizers
09-09-2017	6			Competition	Competition	Awarding; Banquet
10-09-2017	7					Departure

Categories:

According to the Rules: W19, M19, W21, M21, W35, M40, W50, M50, W60, M60, and M70

Expected fees:

Starting fee- 40- 50 EUR per competition. Full package not more than 450 EUR per whole event.

Accommodation & Board possibilities will be offered later after all contracts with service providers will be signed. Hamfest fee for visitors and those staying on their own- 15 EUR.

Training camp:

Druskininkai, September 1-3, 2017. It is supposed to be short distances. Cost is expected to be 35-45 EUR per person & night (including accommodation, board, and starting fee). Schedule and other information will be provided later.

Deadline for Letter of intent:

February 28, 2017

Embargoed areas:

Will be published in Bulletin No.1

APPENDIX E:

THE EVALUATION OF THE COURSE PARAMETERS (WORLD ARDF CHAMPIONSHIP 2014 AND EUROPEAN YOUTH ARDF CHAMPIONSHIP 2015)

event	date	competition	category	searched for controls	limit	length	climb	climb %	effective length	win.time	controls	competitors
WCH2014	8.9.2014	2m	W19	2,3,4,5,M	150	7210	105	1,5	8260	57:47:00	5	22
WCH2014	8.9.2014	2m	W21	1,2,3,5,M	150	7860	130	1,7	9160	53:10:00	5	21
WCH2014	8.9.2014	80m	W35	11,12,13,15,M	150	6260	90	1,4	7160	42:48:00	5	15
WCH2014	8.9.2014	80m	W50	12,13,15,M	150	5930	70	1,2	6630	54:05:00	4	15
WCH2014	8.9.2014	80m	W60	11,12,13,M	150	4240	45	1,1	4690	37:33:00	4	8
WCH2014	8.9.2014	2m	M19	1,2,4,5,M	150	7580	80	1,1	8380	38:12:00	5	20
WCH2014	8.9.2014	2m	M21	1,2,3,4,5,M	150	8100	95	1,2	9050	45:51:00	6	31
WCH2014	8.9.2014	2m	M40	1,2,3,5,M	150	7820	90	1,2	8720	46:18:00	5	41
WCH2014	8.9.2014	80m	M50	12,13,14,15,M	150	6540	90	1,4	7440	41:06:00	5	30
WCH2014	8.9.2014	80m	M60	11,12,14,M	150	4840	60	1,2	5440	32:45:00	4	31
WCH2014	8.9.2014	80m	M70	11,12,13,M	150	4220	45	1,1	4670	33:22:00	4	14
WCH2014	10.9.2014	80m	W19	11,12,13,14,M	150	3180	190	6,0	5080	28:43:00	5	23
WCH2014	10.9.2014	80m	W21	11,12,13,14,15,M	150	3740	215	5,7	5890	28:00:00	6	21
WCH2014	10.9.2014	2m	W35	1,3,4,5,M	150	3480	230	6,6	5780	37:00:00	5	15
WCH2014	10.9.2014	2m	W50	3,4,5,M	150	3370	210	6,2	5470	38:01:00	4	15
WCH2014	10.9.2014	2m	W60	1,2,4,M	150	2610	145	5,6	4060	42:20:00	4	8
WCH2014	10.9.2014	80m	M19	12,13,14,15,M	150	3580	200	5,6	5580	25:19:00	5	20
WCH2014	10.9.2014	80m	M21	11,12,13,14,15,M	150	3740	215	5,7	5890	22:45:00	6	31
WCH2014	10.9.2014	80m	M40	11,12,13,14,M	150	3180	190	6,0	5080	24:12:00	5	41
WCH2014	10.9.2014	2m	M50	1,2,3,4,5,M	150	3850	270	7,0	6550	39:50:00	5	30
WCH2014	10.9.2014	2m	M60	1,3,4,M	150	3120	195	6,3	5070	32:23:00	4	31
WCH2014	10.9.2014	2m	M70	1,2,4,M	150	2610	145	5,6	4060	27:31:00	4	14
WCH2014	11.9.2014	sprint	W19	1,2,3,5,S,12,13,14,15,M	60	2420	65	2,7	3070	16:02:00	10	20
WCH2014	11.9.2014	sprint	W21	1,2,3,4,5,S,12,13,14,15,M	60	3040	75	2,5	3790	17:26:00	11	20
WCH2014	11.9.2014	sprint	W35	1,2,3,5,S,11,12,13,14,15,M	60	2800	70	2,5	3500	19:27:00	11	15
WCH2014	11.9.2014	sprint	W50	1,3,5,S,11,12,14,15,M	60	2570	65	2,5	3220	19:37:00	9	15
WCH2014	11.9.2014	sprint	W60	2,3,5,S,12,13,14,M	60	2220	55	2,5	2770	23:46:00	8	8
WCH2014	11.9.2014	sprint	M19	1,3,4,5,S,11,13,14,15,M	60	3240	70	2,2	3940	17:22:00	10	19
WCH2014	11.9.2014	sprint	M21	1,2,3,4,5,S,11,12,13,14,15,M	60	3420	80	2,3	4220	17:19:00	12	31
WCH2014	11.9.2014	sprint	M40	2,3,4,5,S,11,12,13,14,15, M	60	3250	85	2,6	4100	19:39:00	11	35
WCH2014	11.9.2014	sprint	M50	1,2,3,5,S,11,12,13,14,M	60	2790	70	2,5	3490	17:09:00	10	30
WCH2014	11.9.2014	sprint	M60	1,2,3,4,S,12,13,14,15,M	60	2960	75	2,5	3710	19:34:00	10	30
WCH2014	11.9.2014	sprint	M70	1,3,5,S,12,14,15,M	60	2100	60	2,9	2700	16:32:00	8	13
WCH2014	12.9.2014	foxoring	W19	1,2,4,5,6,7,8,10,M	120	6170	350	5,7	9670	53:59:00	9	22
WCH2014	12.9.2014	foxoring	W21	1,2,3,5,6,7,8,9,M	120	7000	275	3,9	9750	48:19:00	9	21
WCH2014	12.9.2014	foxoring	W35	1,2,4,5,6,7,9,10,M	120	6650	365	5,5	10300	61:30:00	9	15
WCH2014	12.9.2014	foxoring	W50	1,2,5,7,9,10,M	120	5310	275	5,2	8060	60:22:00	7	14
WCH2014	12.9.2014	foxoring	W60	1,2,5,6,9,10,M	120	4810	245	5,1	7260	111:42:00	7	7
WCH2014	12.9.2014	foxoring	M19	1,2,3,4,7,8,9,10,M	120	7250	270	3,7	9950	41:50:00	9	20
WCH2014	12.9.2014	foxoring	M21	1,2,3,4,5,6,7,8,9,10, M	120	7670	385	5,0	11520	45:29:00	11	31
WCH2014	12.9.2014	foxoring	M40	1,3,4,5,6,7,8,9,M	120	6410	295	4,6	9360	47:12:00	9	38
WCH2014	12.9.2014	foxoring	M50	1,2,3,4,6,8,9,10,M	120	6790	305	4,5	9840	49:06:00	9	30
WCH2014	12.9.2014	foxoring	M60	1,2,4,7,9,10,M	120	6290	255	4,1	8840	48:02:00	7	29
WCH2014	12.9.2014	foxoring	M70	1,2,5,6,9,10,M	120	4810	245	5,1	7260	69:59:00	7	13

event	date	competition	category	searched for controls	limit	length	climb	climb %	effective length	win.time	controls	competitors
EYAC2015	5.6.2015	2m	W14	1,3,5,M	150	2720	150	5,5	4220	46:08:00	4	21
EYAC2015	5.6.2015	2m	W16	2,3,4,5,M	150	3440	165	4,8	5090	48:06:00	5	20
EYAC2015	5.6.2015	2m	M14	2,3,5,M	150	3180	130	4,1	4480	38:23:00	4	29
EYAC2015	5.6.2015	2m	M16	1,2,3,4,5,M	150	4170	195	4,7	6120	45:00:00	6	27
EYAC2015	6.6.2015	Sprint	W14	1,2,5,S,R1,R2,R5,M	60	1830	30	1,6	2130	11:27:00	8	21
EYAC2015	6.6.2015	Sprint	W16	1,3,4,5,S,R1,R3,R4,R5,M	60	2090	30	1,4	2390	12:51:00	10	19
EYAC2015	6.6.2015	Sprint	M14	1,2,3,5,S,R1,R2,R3,R5,M	60	1880	50	2,7	2380	11:23:00	10	28
EYAC2015	6.6.2015	Sprint	M16	1,2,3,4,5,S,R1,R2,R3,R4,R5,M	60	2270	45	2,0	2720	12:07:00	12	26
EYAC2015	7.6.2015	80m	W14	2,3,5,M	150	2730	105	3,8	3780	31:47:00	4	21
EYAC2015	7.6.2015	80m	W16	2,3,4,5,M	150	3240	120	3,7	4440	40:34:00	5	19
EYAC2015	7.6.2015	80m	M14	1,2,5,M	150	3400	80	2,4	4200	30:29:00	4	28
EYAC2015	7.6.2015	80m	M16	1,2,3,4,5,M	150	4010	115	2,9	5160	36:02:00	6	26

Some explanations:

Data highlighted in yellow exceed limits given by the Rules. Although the winning time is not defined by the Rules, it is still good criteria for the course evaluation. Normally, winning times for classics and MW19-MW50 should be some 45-70 minutes, maybe a bit longer at 144 MHz, maybe a bit shorter for older categories or in flat terrain. For example, winning time of 22:45 for M21 is way too short. For youth and oldest categories, lower climb (flat terrain) should be chosen.