

## WRTC 2006 Contest Rules

### 1 Contest Period

The WRTC 2006 will be run within the IARU 2006 HF Championship.

Start: Saturday 08-July-2006 1200 UTC

End: Sunday 09-July-2006 1200 UTC

WRTC2006 Operating Time The contest will last 24 hours.

Each station can operate the full 24 hours, with no breaks.

### 2 Frequencies/Bands

Only the 3.5, 7, 14, 21 and 28 MHz bands will be used during the contest. It is highly recommended to operate within the following ranges:

<b>CW</b>	<b>SSB</b>
3500 - 3600 kHz	3700 - 3800 kHz
7000 - 7050 kHz	7050 - 7300 kHz
14000 - 14095 kHz	14105 - 14350 kHz
21000 - 21145 kHz	21155 - 21450 kHz
28000 - 28195 kHz	28205 - 29700 kHz

### 3 Modes

Both CW and SSB. Cross modes QSOs are not allowed.

### 4 Language

Only English language and common international abbreviations can be used, when operating either SSB or CW.

### 5 Contest Exchange

WRTC stations send signal report plus ITU zone. (Southern Brazil is 15 ITU Zone).

A complete exchange must be logged for each valid QSO.

### 6 Valid QSOs

The same station can be worked once on CW and once on SSB on each band.

It is highly recommended to have All CW QSOs within the CW sub-bands mentioned in the section "Frequencies / Bands" on these rules.

All SSB QSOs must be made within the SSB sub-bands mentioned at item

"Frequencies / Bands" on these rules.



Cross-band QSOs are not allowed.

## **7 Requesting QSOs**

Requesting QSOs, e. g. setting schedules, in any way before the contest period is strictly forbidden. The contest site stations must be QRT for the last 10 minutes prior to the contest start up. This means that no operator may be on the air from the contest site during this 10 minute period, under any callsign whatsoever. The radios need not to be switched off, but the volume must be turned fully down, and no monitoring is allowed.

The operators are not allowed either to identify themselves, or the teams they belong to.

Use of non-amateur radio media (e.g. telephone, Internet, smoke signal or drums) for the purpose of requesting a contact (or contacts) before or during the contest period is strictly forbidden. Use of packet cluster or any other spotting network is not allowed.

## **8 Logging**

Computer logging is required.

Each WRTC2006 team must submit their cabrillo file on a diskette to their referee within fifteen (15) minutes after the contest has ended.

We highly recommend the use of Writelog® for all competitors . The WRTC 2006. will make available in our WEB page a special version to be used only for this specific contest. Nevertheless TR and CT could be used but the Committee does not assume any responsibility on the conversion into cabrillo. We will ask CT and TR to develop a specific version for WRTC 2006 in order to mitigate or eliminate problems on the conversion to cabrillo.

Committee will supply a special software WL, TR, and CT version for the contest period only.

The use of the 'Super Check Partial' tool is not allowed. If the logging software incorporates this kind of feature, it must be disabled. Use of any callsign database during the contest period is not allowed as well.

On the other hand, the computer may display a 'Check Partial' list based solely upon the callsigns already worked during the contest.

## **9 Callsign Allocation:**

**ANATEL**, the Brazilian Entity responsible for the telecommunications in the country, will provide special callsign for each team. The callsign assigned to the competitors will be the special prefix plus one single letter. i.e PT5A, ZW5B. The process to choose the calls will be a lottery at Friday prior the contest.

## **10 QSO Points**

Each correct two-way CW or SSB QSO with stations located in South America counts 1 point. Correct two-way CW or SSB QSOs with stations located outside South America count 2 points.

QSOs with maritime (or aeronautical) mobile stations count 2 points. A duplicate QSO on the same band and mode counts 0 point.



#### **11 Multipliers**

The DXCC countries and IARU member society HQ stations on each band will count as multiplier, once per band regardless of the mode.

Maritime (or aeronautical) mobile stations do not count as multipliers.

Note: A HQ station may be a double multiplier, i.e. the DXCC country plus the IARU member society.)

#### **12 Penalty**

The point value for every incorrectly logged call and/or exchange will be removed. In addition, a QSO point reduction worth 2 more similar QSOs will occur. This means a total point loss of an incorrectly logged call and/or exchange will be equal to 3x the QSO's point value.

#### **13 Score**

The final score will be the total number of multipliers multiplied by the sum of QSO points.

#### **14 Winners**

The WRTC 2006 winner will be the team who achieves the highest score SSB and CW combined.

The WRTC 2006 SSB Winner will be the team who achieves the highest SSB score.

The WRTC 2006 CW Winner will be the team who achieves the highest CW score.

The WRTC 2006 M/S Winner will be the team who achieves the highest score

To be elected as a winner in SSB or CW a minimum of 35% of the total number of QSOs must be made on the other mode.

#### **15 New special category – M/S HP**

In addition to those categories above mentioned, a new special category is being created, inviting foreigners and Brazilians to form M/S teams to operate from selected (10 to 15) Contest Stations placed in Southern Brazil.

The stations will be fully equipped with rigs, linear amplifiers and antennas in order to operate in the new M/S category. The owner of the station will make available all the equipment. To assign the stations, a lottery will be organized, since the stations are not equals as are the WRTC ones. The teams must be formed four months prior to the WRTC 2006 and the lottery will be drawn through the Internet 30 days before the contest. The station can be upgraded with peripherals devices brought by the foreign() operators.

The teams should have no more than five (5) operators composed of at least one foreign() operator and at least two Brazilians operators. This means that a team will have no less than three and no more than five operators.

The rules for this category are going to be the same as the WRTC stations, except there are no limitations on antennas and maximum legal power will be permitted.



## 16 Judging

All decisions of the WRTC2006 Judging Committee are final.

## 17 WRTC 2006 Station Setup

In general, the WRTC2006 organizers provide:

☞☞ A tri-band 4 element beam for 10/15/20M with a PL259 male connector + 2 element 40 meter band;

☞☞ Tower: 12 meters plus a 3 meter mast (~49 feet);

☞☞ A rotator and its control for the tri-band plus the 40 meter band beam;

☞☞ A wire antenna for 40/80M with a PL259 male connector;

☞☞ Special dedicated antenna switch.

Everything else needed is expected to be brought in by each participating WRTC team ()

Each WRTC 2006 station will have two radios (A and B). The radios must be named as radio A and radio B before the contest begins. All QSOs must be made on radio A. The operation allowances for radio B and respective operator are detailed on the item 18. Radio B can be changed to become radio A only in case of malfunction, as determined by the referee.

Maximum output power is 100 watts. The referee will check this power periodically during the contest.

Band-pass filters are allowed for both radio A and radio B.

Two networked PC's are allowed. (PC 1 at radio A, PC 2 at radio B).

The PC's must be named as PC 1 and PC 2 before the contest begins.

Any other related equipment dedicated for automation is allowed. The final station automation and auxiliary configuration shall be presented to the organizer's Technical Committee no later than 06-May-2006 for final review and acceptance.

Teams may reorient the wire antenna at any time, as long as the feedline is not extended and as long as no part of the wire antenna is higher than the beam."

Any necessary agreements, with Brazilian Customs, for temporary radios, PC's and auxiliary equipment importation will be made by the organizer.

## 18 Operating

The chart below define the allowances for RADIO, COMPUTER and OPERATOR A and B.

The WRTC competition is a very peculiar contest, and the present and previous organizers have tried to elaborate the rules to accommodate a 48 hours result announcement contest with the traditional long term announcement procedures.



All the checking log systems developed till now , pre-establishes a insertion of the majority of the logs on a data base for further checking. In WRTC competition the available logs are very limited, and we must mitigate the chances to have an unfair result.

For this particular reason we intend to improve the system providing:

- Digital recorder (24 hours) of all competitors.
- Referees with high level of Contests experience (CW and PHONE) and committed to act during all the 24 hours.
- Several promotions to motivate the world contest community to send logs by e-mail immediately after the contest.
- Full transparence of the competitor logs opening those logs by internet to the contest community.
- The use of last technology generation SW for log checking procedures.
- Constitution of a high experience Judging Committee. This committee will have the following responsibilities:
  - ✓ To train and instruct the Referees.
  - ✓ To clear up any referees doubts.
  - ✓ To collect all files from the foreign contestors and to insert those logs into the data base.
  - ✓ To Collect all the Cabrillo files from the competitors and to insert them into the data base
  - ✓ Log checking procedures.
  - ✓ To calculate final scores and to feed the results chart.
  - ✓ To feed the Scoreboard – (Claimed scores)
  - ✓ To announce the final results.

To elaborate the present rules, The WRTC 2006 organizers are getting total support from the previous WRTCs committees and also from participants from previous competitions.

OPERATIONAL RULES FOR RADIO AND OPERATORS A AND B		
	A	B
RADIO	Allowed to Transmit Full reception Allowed to use band-decoder Allowed to use audio and RF filters Can share audio with Radio B Must share audio with Referee Can be replaced by radio B (in case of failure of Radio A)	Not allowed to transmit Full reception Allowed to use band-decoder Allowed to use audio and RF filters Can share audio with Radio A  Can replace Radio A (in case of failure of Radio A)
COMPUTER	Computer must have minimum spec as specified Fully interconnected with Computer-B Key the Radio A Can exchange messages with Computer-B Must record whole contest on Computer A or B Voice or CW Keyer is allowed only on Radio A Software WL, CT, or TR (Version WRTC2006) are permitted Super Check- Partial not allowed Log must be converted to cabrillo format after the contest	Computer must have minimum spec as specified Fully interconnected with Computer-A Allowed to key Radio A Can exchange messages with Computer-A Must record whole contest on Computer A or B Voice or CW keyer not allowed Software WL, CT, or TR (Version WRTC2006) are permitted Super Check- Partial not allowed
OPERATOR	Operator A is the main operator of the Radio A (eventually the radio A can be keyed by the operator B) Operators can change position (chair) at any time Allowed to populate the band-map Can exchange messages with Operator B Must share audio with referee throughout the contest Can share audio at any time with Operator B Is not allowed to key the Radio B Can operate any of the allowed devices	Not allowed to key Radio B Allowed to key the radio A and to log the QSO Operators can change position (chair) at any time Allowed to populate the band-map Can exchange messages with Operator A Does not share audio with the referee. Can share audio at any time with Operator A Can help Operator A to copy call-signs Can operate any of the allowed devices

**Note:** The competitors are free to use other device than the computer to record the contest. The competitors at the end of the contest must delivery to the referee the cabrillo file and a CD with the recording.  
 The use of packet cluster is definitively not allowed to all competitors, except for the M/S special stations

#### Station Connections

We will provide to all participants a detailed diagram for the setup, at least 5 months before the event.  
 In case of malfunction, the malfunctioning equipment can be replaced with spare equipment.

**19 Family entertaining :** We encourage the participants to bring their family members, i.e. spouses and young children. Florianopolis is a very beautiful city with a fantastic nature with plenty of nice beaches and the WRTC 2006 organization committee, will provide special entertaining for them. For those who want to stay longer in the region we will be pleased to provide help and support for additional programs.