



# WCH 11 - F3C

## Vademecum/Reference Guide

Mario Silvagni

**14<sup>th</sup> F3C RADIO CONTROL HELICOPTER  
WORLD CHAMPIONSHIP**

Calcinatello di Calcinato - BRESCIA - ITALY

August 18<sup>th</sup> – 28<sup>th</sup> 2011

**This document it is intended to prepare everyone for the processes and procedures of the WORLD CHAMPIONSHIP, and it is therefore extremely important that everyone reads this document with insight, and more importantly, UNDERSTANDS the document!**

# Who we are...

**Chairman**  
**Adolfo Peracchi**

**Contest Director**  
**Mario Silvagni**

**Secretariat/Desk**  
**Paola Battaini**  
Isabella Cornaggia  
Graziella Ponturo  
Mary Pascarosa

**Processing Measurements**  
**Angelo Silvagni – Field A**  
Andrea Rossoni – *Field A*  
Enrico Lauricella – *Field B*  
Marco Rossoni – *Field B*

**Results Mng.**  
**Oscar Chinello – Field A**  
Nicola Fasolo – *Field A*  
Gloria Chinello – *Field B*  
Mirco Romanato – *Field B*

**Comunication**  
Cesare De Robertis - *Bullettin*  
Andrea Lombardi - *web-master*  
Salvatore Orlando - *interpreter*

**Judges Managment**  
**Graziella Ponturo**

**Logistics**  
**Maurizio Bertini**

**Competitors Support**  
**Enrico Ornaghi**

	Field A		Field B	
F.L. Director	<b>Franco Antognazza</b>		<b>Gianluigi Giannoni</b>	
Timekeeper/ Alternate	Andrea Sbabo		Mario Vincenzo	
Marshall	Valter Sbabo	Andrea Vaccari	Carlo Brieda	Osvaldo Gaburro
S.L. Official	Stefano Pennuto Michele Metz		Messina Francesco Zortea Luca	
Scoring Sheet	Remo Dalprà		Flavio Varaschin	
Maintenance	Franco Chistè, Simone Bertini, Sandro Mazzucchelli, Enrico Ornaghi			

# Safety Notice

In accordance with the F3C Subcommittee and the FAI Jury the Organizer agrees with the following safety notice:

*"For electric powered models, the electric power circuit must not be physically connected, before the model is in the ready box, and must be physically disconnected right after landing (before crossing the safety line)."*

- This text is not part of the Sporting Code so we cannot enforce it, but we **STRONGLY** recommend that all competitors follow the advice.
- We would really appreciate it if **ALL** competitors try to follow the advice as part of a "gentlemen's agreement"

As some helicopters are not yet designed to easily accomplish this task, we would amend the request of disconnecting before the safety line, but instead do that a little behind (few meters), in a safe area, before leaving the field, so pilots can complete the power disconnect without wasting time and delaying the competition

# Competition Schedule

	Thursday 18 Aug	Friday 19 Aug	Saturday 20 Aug	Sunday 21 Aug	Monday 22 Aug	Tuesday 23 Aug	Wednesday 24 Aug	Thursday 25 Aug	Friday 26 Aug	Saturday 27 Aug	Sunday 28 Aug
7:00											
7:30											
8:00				Warm-UP Flights					Warm-UP Flights		
8:30											
9:00	Arrival Registration	Model processing	SLM + Official Practice (Field A/B)	Preliminary Round 1 (Field A/B)	Preliminary Round 2 (Field A/B)	Preliminary Round 3 (Field A/B)	Preliminary Round 4 (Field A/B)	Tours (no flights allowed)	FlyOff Round1 (Field A)	FlyOff Round3 (Field A)	Departure and Flight Show
9:30											
10:00											
10:30											
11:00											
11:30											
12:00											
12:30											
13:00	Lunch in Casa Bianca	Lunch in Casa Bianca	Lunch in Casa Bianca	Lunch in Casa Bianca	Lunch in Casa Bianca	Lunch in Casa Bianca	Lunch in Casa Bianca		Lunch in Casa Bianca	Lunch in Casa Bianca	
13:30											
14:00	Arrival Registration	Model processing	Judge Meeting	Preliminary Round 1 (Field A/B)	Preliminary Round 2 (Field A/B)	Preliminary Round 3 (Field A/B)	Preliminary Round 4 (Field A/B)	FlyOff Round2 (Field A)	Award and Closing Ceremony	Departure and Flight Show	
15:00											
15:30											
16:00											
16:30											
17:00											
17:30											
18:00	Welcome Drink offered by the Mayor		Opening Ceremony								Departure and Flight Show
18:30											
19:00											
19:30			Dinner & Show in Casa Bianca	Dinner in Hotel	Dinner in Hotel	Dinner in Hotel	Dinner in Hotel	Dinner in Hotel	Dinner in Hotel	Banquet with Music and Show in Casa Bianca	
20:00											
20:30											
21:00											
21:30											
22:00											
22:30											
23:00											

Preliminary

# Additional Meeting

Meeting Name	Location	Date	Time	MUST Attend	MAY Attend
Welcome Drink	City Hall	18 <sup>th</sup> Aug	18:00	CD, TMs, FAI Jury, Judges	--
Judges Meeting	Casa Bianca (restaurant)	20 <sup>th</sup> Aug	15:30	Judges	CD, FAI Jury
Preliminary Draw	Casa Bianca (wood house)	t.b.d.	t.b.d.	CD, FAI Jury	--
Opening Ceremony	Casa Bianca (Field A)	20 <sup>th</sup> Aug	17:30	All	--
TMs Meeting	Casa Bianca (restaurant)	20 <sup>th</sup> Aug	21:30	CD, TMs, FAI Jury	Interpreter (one each TM)
Finals Draw	Casa Bianca (wood house)	24 <sup>th</sup> Aug	19:00	CD, FAI Jury	--
Award and Closing Ceremony	Casa Bianca (Field A)	27 <sup>th</sup> Aug	16:30	All	--

Preliminary

Additional meeting can be scheduled, upon request of FAI Jury or CD, according to specific needs.

# PLEASE keep in mind...

We have **71** competitors from **26** nations

We are really proud of this and we will try to give  
You the best Championship we can

**BUT please help us to....**



save ***“time”***...

**None of us should waste time**



have a ***“green”*** competition...

**Power generators are forbidden in Competitors Area (both fields)**  
**The use of cars (with engine running) is strongly discouraged**  
**especially on Field A competitor Parking**



maintain ***“safety”***

**Flying near the competition site is forbidden**  
**Flying outside any training field is not recommended**

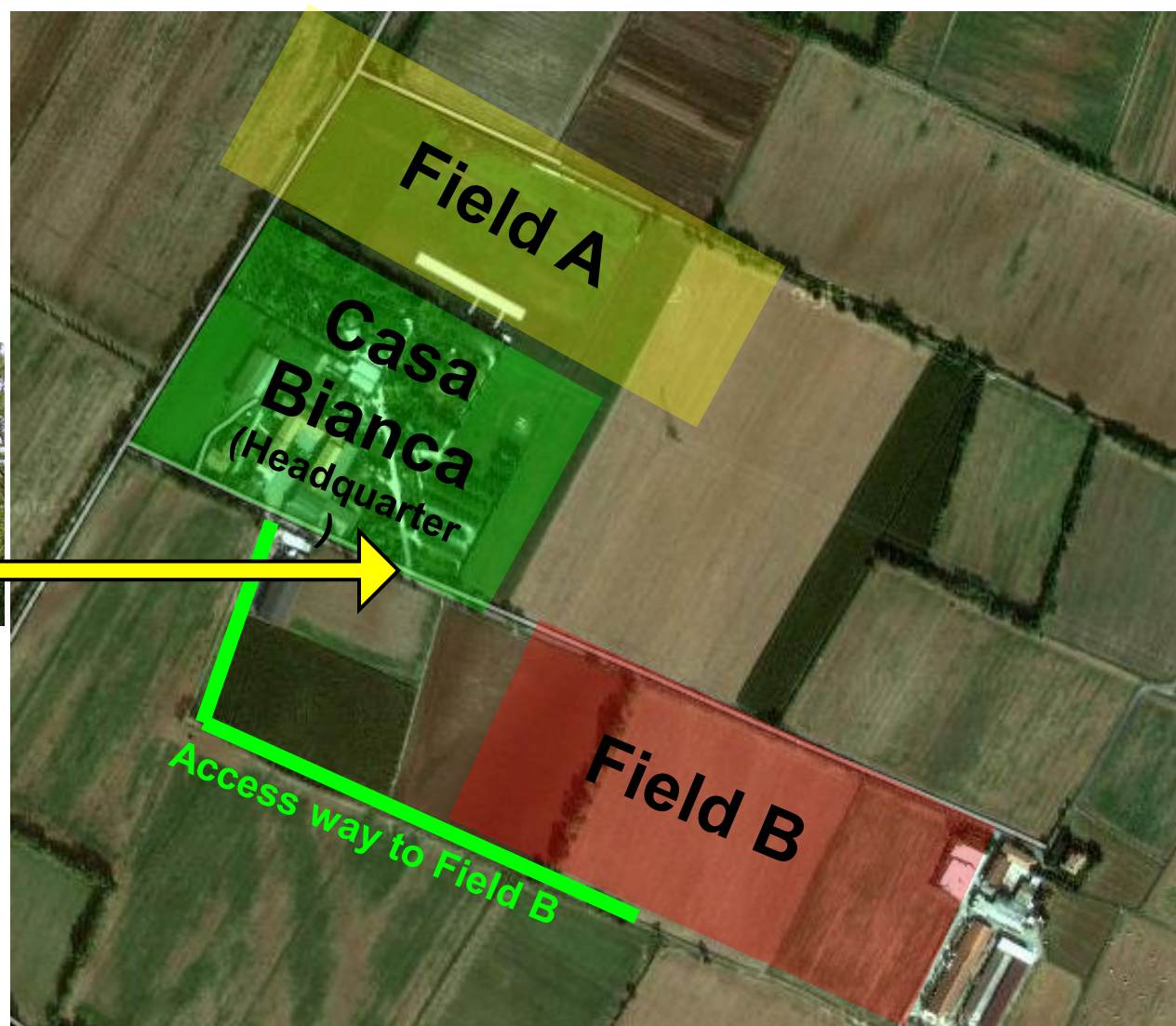


# Contest Area

Casa Bianca  
Main Gate

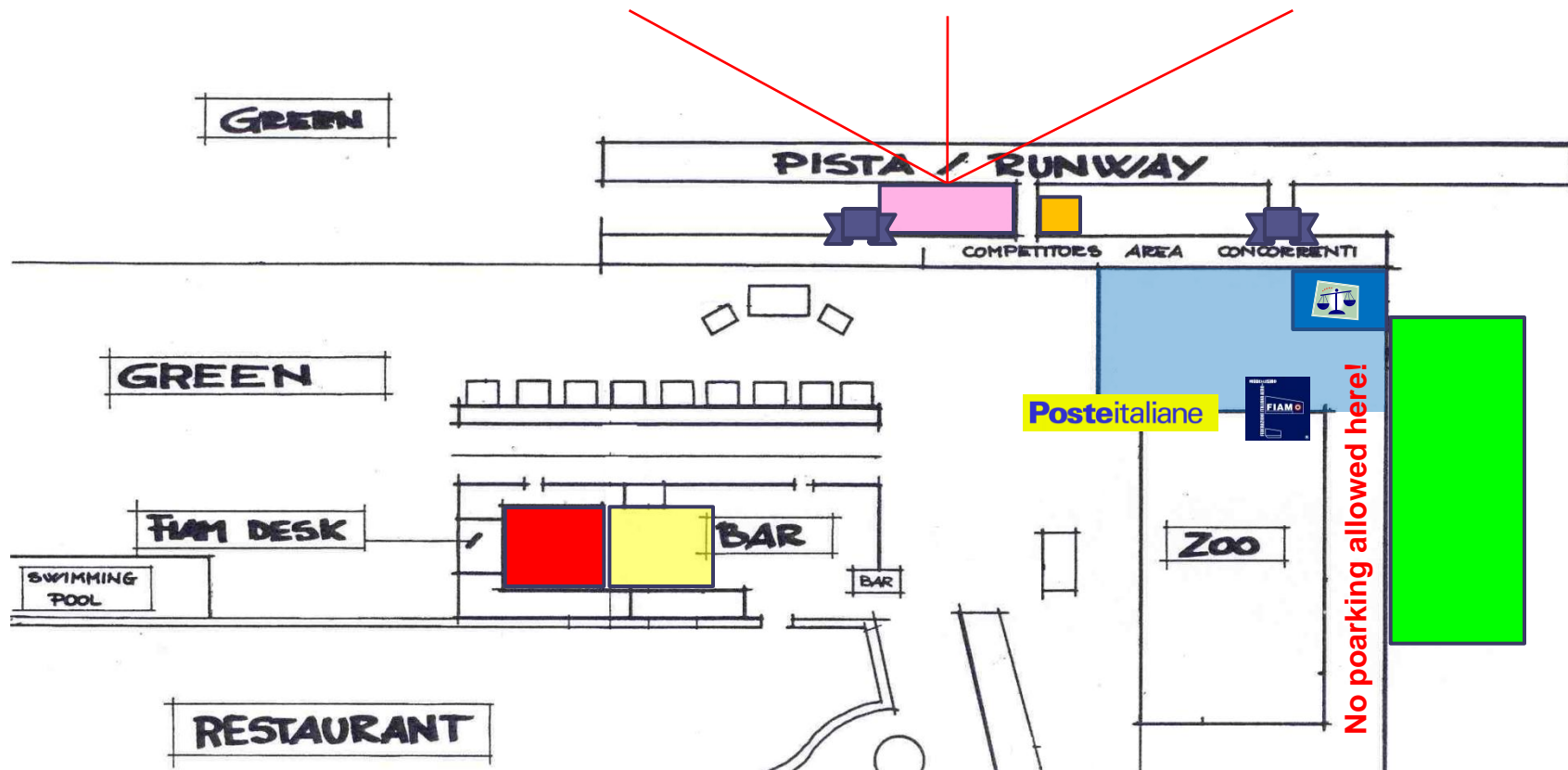


45°27'51.76"N  
10°20'50.86"E
















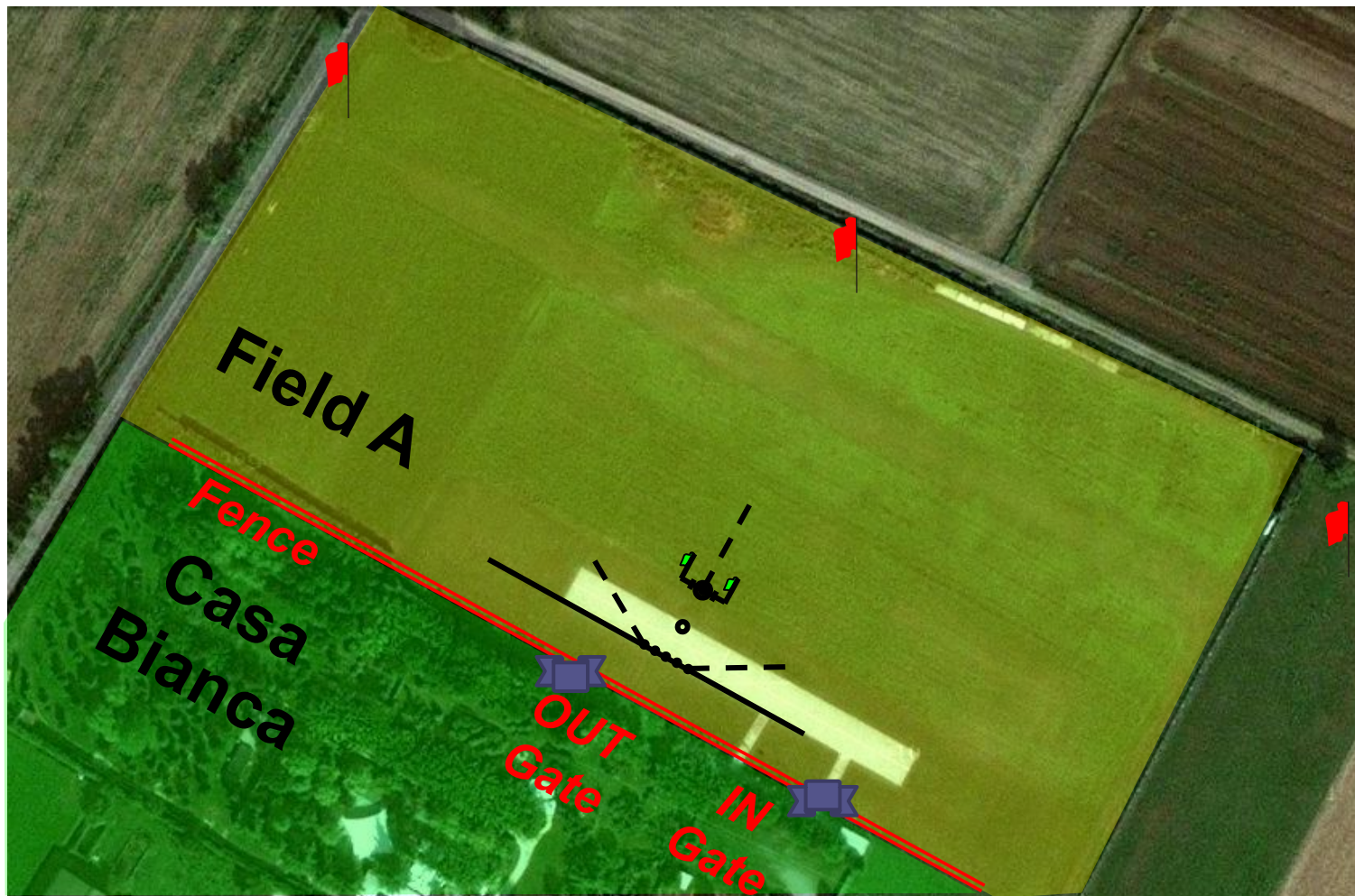
# Casa Bianca and Field A



NOT to scale

-  SLM
-  Pilots & Judges
-  Contest Direction
-  Competitors Parking
-  Main Tent
-  Competitors Tent First Days Processing
-  Competitors Area with Gazebo
-  Area for Registration & Results
-  Gate
-  FIAM Gadget Shop
-  Posteitaliane Special Stamp Issue Mail office

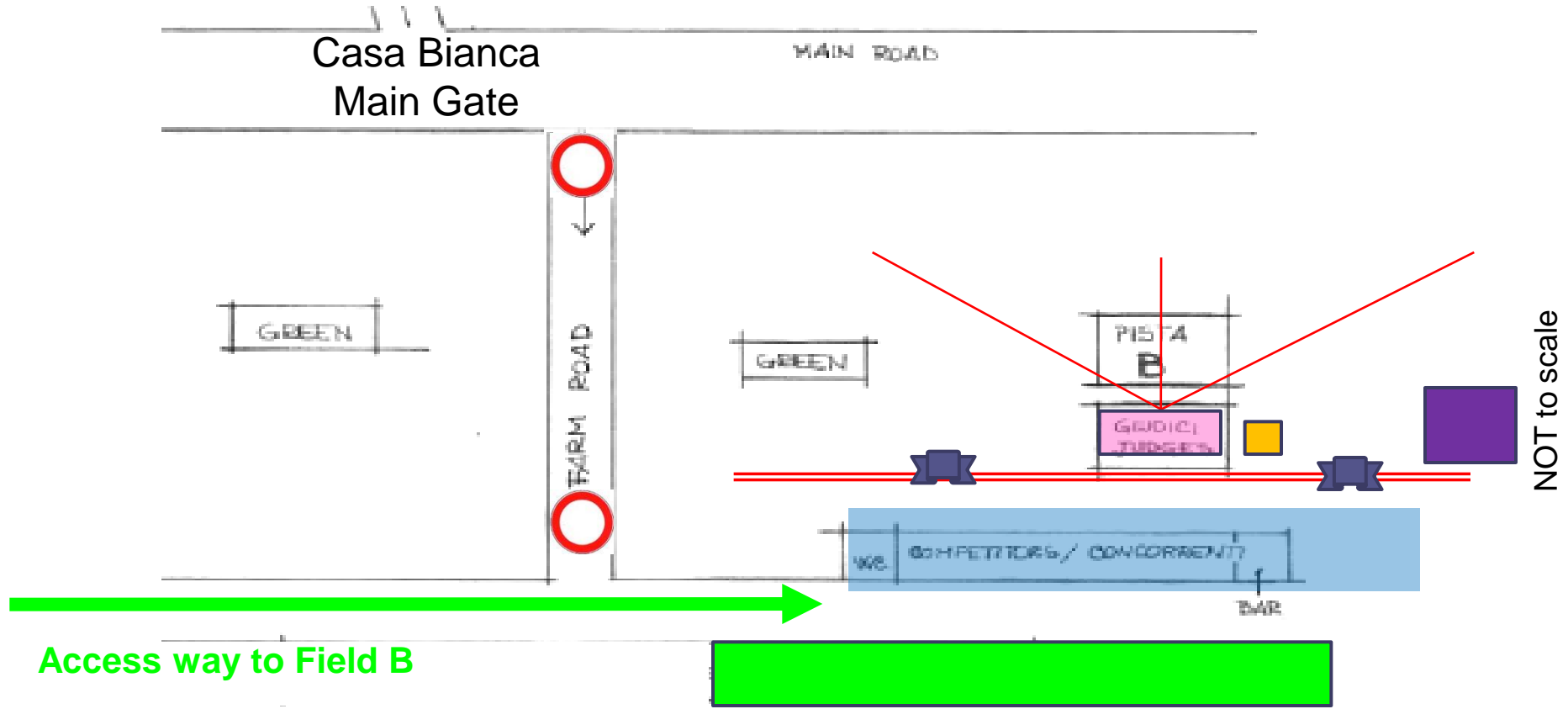
# Field A Layout



NOT to scale

Competitors TMs and Helper please refer to **Enrico Ornaghi** for any needs

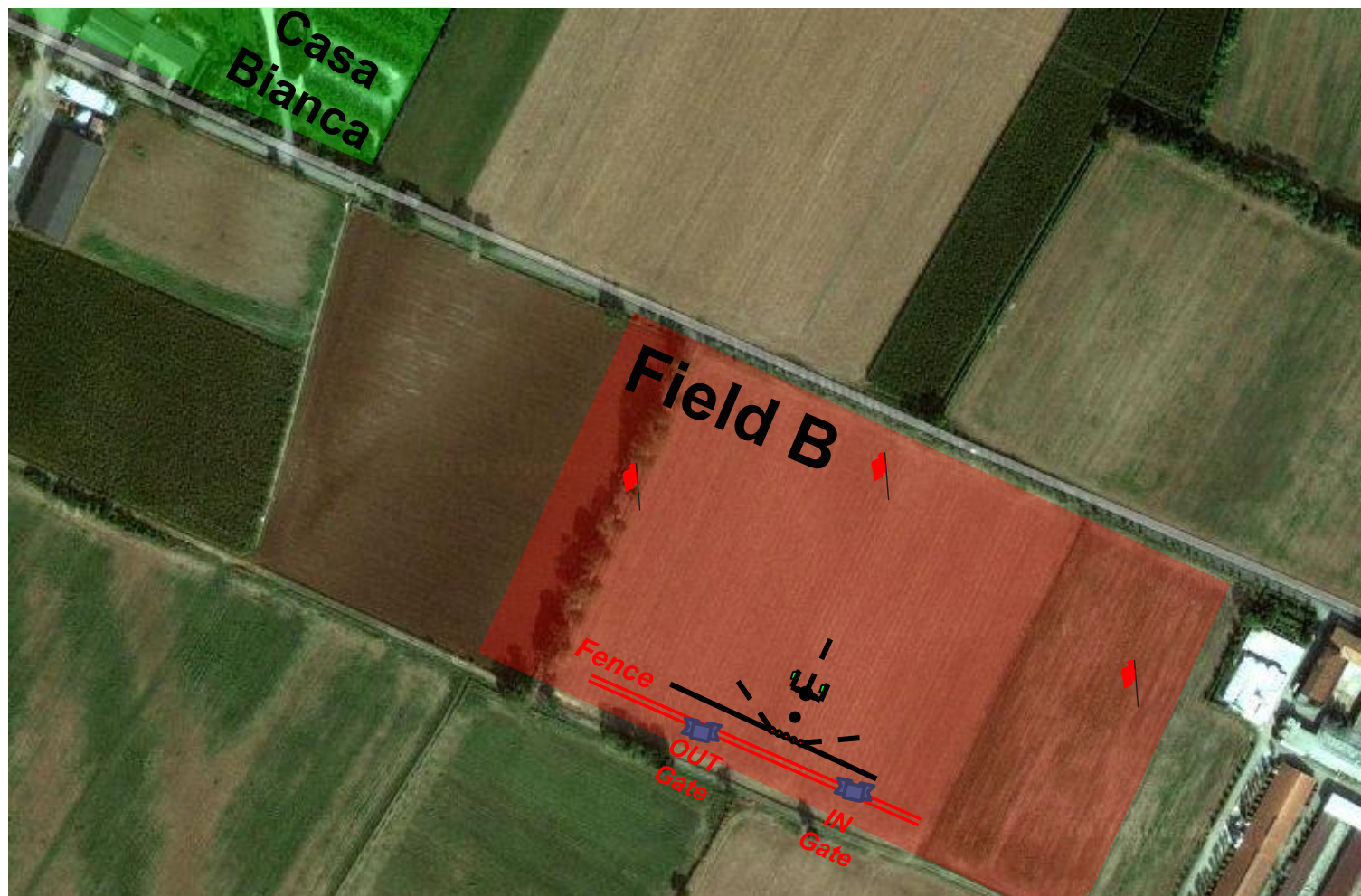
# Field B



- SLM
- Pilots & Judges
- Contest Direction
- Competitors Parking
- Competitors Area with Gazebo
- Gate



# Field B Layout



NOT to scale

Competitors TMs and Helper please refer to **Enrico Ornaghi** for any needs

# Registration

Please proceed to Registration on Thursday 18th August

- Competitors, TMs and assistant TMs must provide their FAI license
- Show the completed FAI SPECIFICATION CERTIFICATE
- Complete any administration issue

In the bag for T. M., Competitors, Helpers and supporters you will receive:

- ID badge for all paid participants, which you must verify with the staff if requested
- Parking passes
- Vest numbers for competitor and vest for TM and Helpers
- T-shirt of the WCH
- Special magazine and brochure of the WCH
- Meal vouchers, if you have paid for it
- Meal voucher for the banquet (see above)
- Several stickers
- Gasoline and Power Generator

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**Please refer to Paola Battaini for any Registration needs**

# FAI Specification Certificate

- Show the FAI Specs Certificate at registration
- File the FAI Specs Certificate at processing

- Fill in all the highlighted (red) fields
- Please leave the highlighted yellow field empty

This will be filled in by the processing team with the WCH11 Vest Number

The organizer will also provide the processing stickers

Notes:

- 1) Specify the full weight (with fuel / with batteries)
- 2) Specify: xx2C for 2-cycle; xx4C for 4-cycle, xxG for gasoline and E for electric (xx is the piston engine displacement)

ANNEX B.1.a  
SAMPLE FAI SPECIFICATION CERTIFICATE

COMPETITOR	MODEL AIRCRAFT	STAMP OF NAC
Family Name: <input type="text"/>	Class: <input type="text"/>	
First Name: <input type="text"/>	Model Identification Code: <input type="text"/>	
FAI Licence Number: <input type="text"/>	National Identification Mark: <input type="text"/>	
I certify that this model aircraft fulfils all requirements as specified in the FAI Sporting Code Section 4 and has been checked in accordance with the characteristics detailed below.		
Signature: <input type="text"/> (Competitor)	Date: <input type="text"/>	
Signature: <input type="text"/> (NAC Official/Team Manager)		
<b>To be completed by the Competitor and checked by the NAC</b>		<b>Principal checks to be completed by the organising NAC</b>
<b>All classes except F1D, F1C, F2B, F3A, F3C, F4B, F4C</b>		
Model Aircraft Wing Area: <input type="text"/> dm <sup>2</sup>	Model Aircraft Weight: <input type="text"/> g	Competitor Number: <input type="text"/>
Model Aircraft Tailplane Area: <input type="text"/> dm <sup>2</sup>	Model Aircraft Identification Code (on main parts) (Except F1D, F4B, F4C): <input type="text"/>	External Identification (✓) <input type="checkbox"/>
Model Aircraft Total Surface Area: <input type="text"/> dm <sup>2</sup>	Model Aircraft Identification Code (on main parts) (Except F1D, F4B, F4C): <input type="text"/>	Olympic Identity Marks (Except F1D, F4B, F4C): <input type="checkbox"/>
Data for this box to be taken from the appropriate volume of the Sporting Code.		
Weight Limits: Minimum: <input type="text"/> g Maximum: <input type="text"/> g	Motors Marked F1C, F1P, F2A, F2C, F2D, F3D: <input type="checkbox"/>	FAI Sticker Affixed (Except F1D, F4B, F4C): <input type="checkbox"/>
(i) Weight limits are defined according to the class of model aircraft, either by the specific minimum/maximum weight or by the minimum/maximum loading of the surface area.		
(ii) Minimum/maximum loading in classes F1C, F1E, F2A, F2D, F3J, F5B, F5D		
<b>Classes F1P, F2A &amp; F3A</b>		Rubber Motors Weighed F1B: <input type="text"/> g
Wingspan: <input type="text"/> mm	Fuselage Length: <input type="text"/> mm	Wing Tip Guide Handle Spacing F2A: <input type="text"/> mm
<b>Class F2A (Speed)</b>		Fuel Capacity F2C: <input type="text"/> cm <sup>3</sup>
Minimum Surface Area for Maximum Swept Volume of Motor: <input type="text"/> dm <sup>2</sup>		Nose Radius F3A, F3B, F3J, F3K: <input type="text"/> mm
<b>Class F2C (Team Race)</b>		Flying Weight Dry: <input type="text"/> g
Fuselage Height: <input type="text"/> mm	Scale Pitot Head: <input type="text"/> mm	Weight of Power Source F5B: <input type="text"/> g
Fuselage Width: <input type="text"/> mm	Height: <input type="text"/> mm	<b>Special Requirements (✓)</b>
Fuselage Cross Section: <input type="text"/> cm <sup>2</sup>	Length: <input type="text"/> mm	Motor Cowling Approved F2C & F3D: <input type="checkbox"/>
Fuel Capacity: <input type="text"/> cm <sup>3</sup>	Width: <input type="text"/> mm	Silencer Fitted F2A, F2B, F2D, F3A, F3D: <input type="checkbox"/>
Weight: <input type="text"/> g	Wheel Diameter: <input type="text"/> mm	Fuel Shut-off Fitted F3A, F3D, F3B: <input type="checkbox"/>
<b>Class F3D (Pylon Racing)</b>		Exhaust Outlet Checked F3A & F3D: <input type="checkbox"/>
Fuselage Height: <input type="text"/> mm	Wingspan: <input type="text"/> mm	Intake Size Checked F2D: <input type="checkbox"/>
Fuselage Width: <input type="text"/> mm	Wing Root Thickness: <input type="text"/> mm	CHECKED BY: <input type="text"/>
Fuselage Cross Section: <input type="text"/> cm <sup>2</sup>		Sign: .....
<b>Classes F3C (Helicopters)</b>		Date: .....
Sweep Area of Rotors: <input type="text"/> dm <sup>2</sup>		STAMP OF ORGANISING NAC
Fixed Ancillary Surface (max 4% of the swept area of rotors): <input type="text"/> dm <sup>2</sup>		
Controllable Ancillary Surface (max 2% of the swept area of rotors): <input type="text"/> dm <sup>2</sup>		
<b>Class F5B (Electric Powered Motor Gliders)</b>		
Weight of Power Source: <input type="text"/> g	Wheel Diameter: <input type="text"/> mm	
<b>Classes F1C, F1P, F2A, F2B, F2C, F2D, F3A, F3C, F3D, F4A, F4B, F4C</b>		
Permitted Maximum Swept Volume of the Piston Motor(s): <input type="text"/> cm <sup>3</sup>		


(2)



# Processing

On Friday 19<sup>th</sup> August all day according to schedule  
(see website)

- Please provide the completed FAI Specification Certificate
- Please allow staff to apply WCH11 processing stickers
- Please help staff with processing

FAI	LICENCE NUMBER:	NNNNN
	NATIONAL IDENTIFICATION MARK & NUMBER	
	NAZ	
	COMPETITOR NAME	
	NAME	
	MODEL AIRCRAFT IDENTIFICATION CODE	BXX

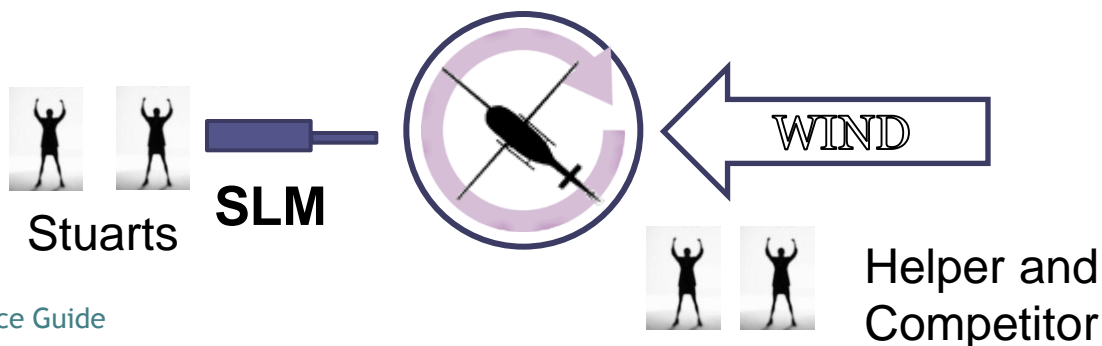


Please refer to **Angelo Silvagni** for any Processing needs

# Sound Measurements (SLM)

On Saturday 20<sup>th</sup> August all day according to schedule on field A or B  
 (about half an hour before Official practice) (see website)

- Enter field through IN Gate, go to full right to the SLM area
- Team, please interact with the available measurement staff to better coordinate the test during your allotted official practice time
- The Stuart will advise the competitor's helper
- Wait near the IN Gate for the completion of the preceding team and proceed to Official Practice



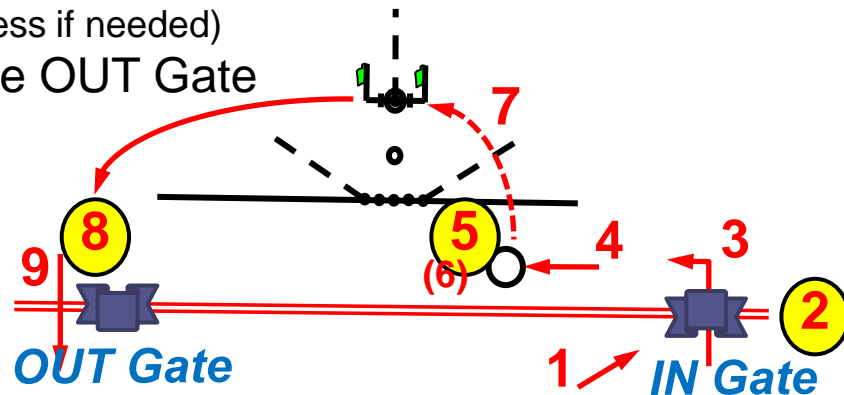
# Official Practice

On Saturday 20<sup>th</sup> August all day according to schedule on field A or B  
(after SLM) (see website)

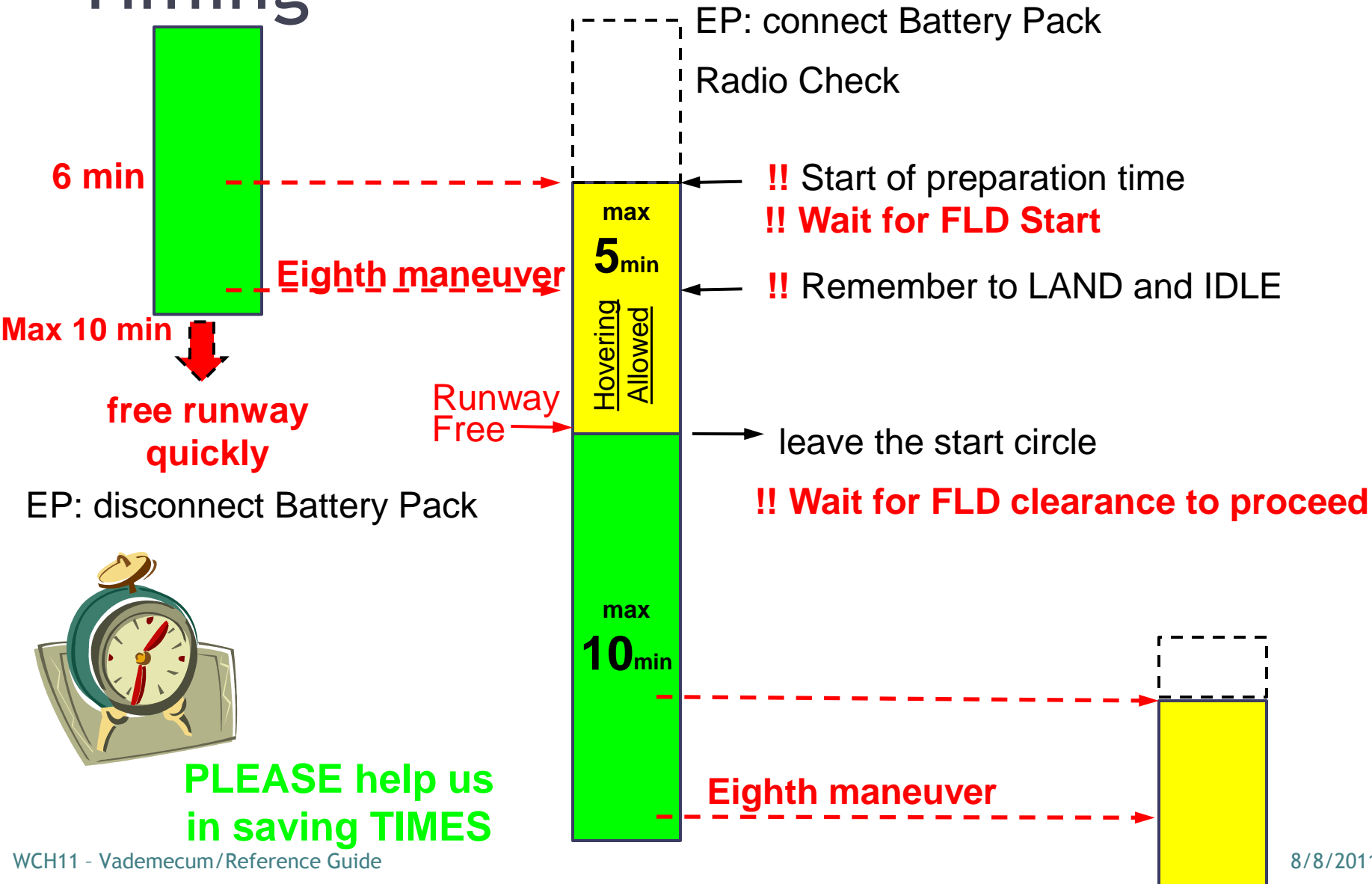
- 10 minutes for each competitor
  - i.e: 30 minutes for full (3 competitors) team
  - 40 minutes for full (3 competitors) team with 1 Junior
- DO NOT exceed allocated time!
- Enter field through IN Gate
- After your flights PLEASE leave the course quickly
- Leave the course through the OUT Gate

# How to get to and leave the flight line

1. From Competitors Area approach the IN GATE
2. At the GATE check with officials :
  - Vests and Numbers (Competitor, Helper, TM)
  - Helicopter Stickers (even on reserve model)
  - for EP: disconnected battery pack (even on reserve model)
  - for EP: the battery pack voltage (even on reserve model) **t.b.c.**
3. Wait for clearance to access to flight area from the Field Marshall
4. Go to the Start circle for EP: connect the battery pack (even on reserve model)
5. Wait the FLD clearance to proceed, he will announce the start time
6. Remember to idle! (helper please look at the flying competitor)
7. Proceed to fly when instructed
8. After the flight go to the «safe area» and
  - helper : collect the reserve model in the start circle area
  - for EP: disconnect battery pack (even on reserve model)
  - check for reprocessing (and reprocess if needed)
9. Leave the Flight Area through the OUT Gate



# Timing



**PLEASE help us  
in saving TIMES**

# Judges

Two panels of 5 Judges (Field A / Field B) for Preliminary Rounds  
One panel of 10 Judges for Final Rounds

- Judges on the Flight Line half an hour before start of competition
- Warm-Up flights for Preliminary Rounds (on both Fields) on Sunday 21<sup>st</sup> August
- Warm-Up flights for Final Rounds (on Field A) on Friday 26<sup>th</sup> August

A shuttle bus (by Aeronatica Militare) will bring Judges to and from Hotel

Judges please refer to **Graziella Ponturo** for logistics and any needs



# Free Training Fields

Site	Name	Distance	Contact	Coordinates
1	City of Gussago (BS) <i>Località "La stacca"</i> - G. A. Franciacorta	26 km	Massimiliano Tedoldi + 39 3472462144	45° 34' 35" N 10° 08' 01" E
2	City of Povegliano (VR) <i>Località Poiano Madonna dell'Uva Secca</i> - G. A. Verona 3A	68 km	Denis Piccoli +39 3487206707	45° 21' 24" N 10° 54' 30" E
3	City of Calvagese (BS) <i>Località Carzago della Riviera</i> - G.A. Villanovese	17 km	Diego Ziliani + 39 3939781861	45° 31' 50" N 10° 27' 15" E
4	City of Caprino Veronese (VR) <i>Località Montesei</i> - G. A. Garda	60 km	Azzali Massimo + 39 3474220240	45° 35' 26" N 10° 45' 24" E



No commercial power is available on training fields

**Thank You,  
Good Luck  
.... and...  
Enjoy Your stay**

**Mario Silvagni**  
Contest Director

P.S: Please DO NOT hesitate to keep in touch with me...