



# Midland Sky



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17th & 18th September 2011

A Midland Rocketry Weekend Event in Association with UKRA

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## **Welcome,**

This event is the 3<sup>rd</sup> Midland Rocketry Club Weekend Event and we would like to welcome you all. We look forward to this event growing as time goes by and we hope you have a great time with us.

To enable the event to run smoothly and to maximise your enjoyment, there are a few things we must ask you to do. These are listed on the following pages and your cooperation is appreciated.

Since MRC is a UKRA affiliated club, all flying will take place under the UKRA safety code. A short form of this code will be displayed at a number of points around the launch site as well as in this handout. A full version of the current UKRA Safety Code is available at the registration tent, so if in doubt please ask.

All flyers must have the relevant insurance cover for the flights they make. Up to and including G power, you need to be a BMFA member. For H and above, you need to be a full UKRA member. UKRA membership application forms are available from the UKRA Duty Manager.

## **Joint Event**

This is a joint event with our landowner and his Micro-light Club. Throughout both days there will be times when aircraft will either arrive or depart.

## **Arriving and Departing Aircraft**

When aircraft are either arriving or departing the Range Safety Officer will temporarily close the Range until the aircraft have cleared the Launch site.

## **Help and Support**

If you are willing to offer your assistance at any time throughout the MRC / UKRA event please let any of the committee know what you would be willing to do and when you would be available, without additional assistance the committee members will be extremely busy and the event may not run as smoothly as planned.

## **Joining Midland Rocketry**

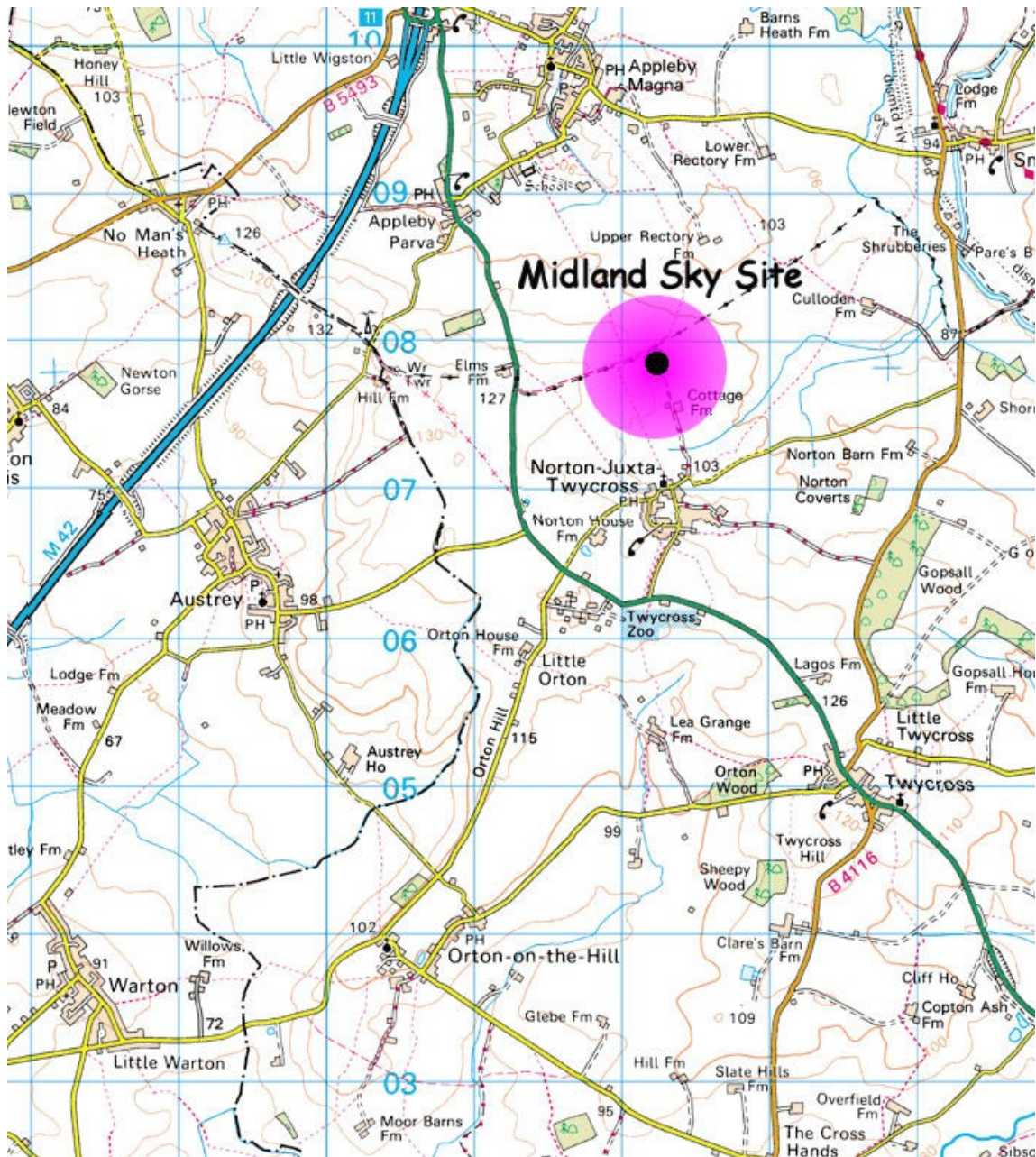
We encourage everyone to join and help the club. Subscription gives you membership access to the club web forums and the subscription fees help us buy equipment for the club etc. Please see the Club Chairman for membership forms.

## **Midland Rocketry Liability**

Midland Rocketry, its executive officers, club members accept no liability for any loss of personal items or damage to personal property. Please note that this hobby is about putting rockets into the air, and as the saying goes 'What goes up must come down' so please be aware that on some occasions parachutes may fail to open and the rockets will hit the ground at some speed. That is why it is important for flyers to have insurance and spectators are aware of every flight.

**\*\* By Flying or Attending the MRC/UKRA event it means that you agree to these Terms and conditions and abide by either MRC or UKRA ruling \*\***

# Site Location Map



## Directions to the Event

### **Travelling East (From M42)**

- Turn off the M42 at Junction 11.
- Take the A444 towards Twycross Zoo for about 2 miles.
- Turn left onto Orton Lane and go through village.

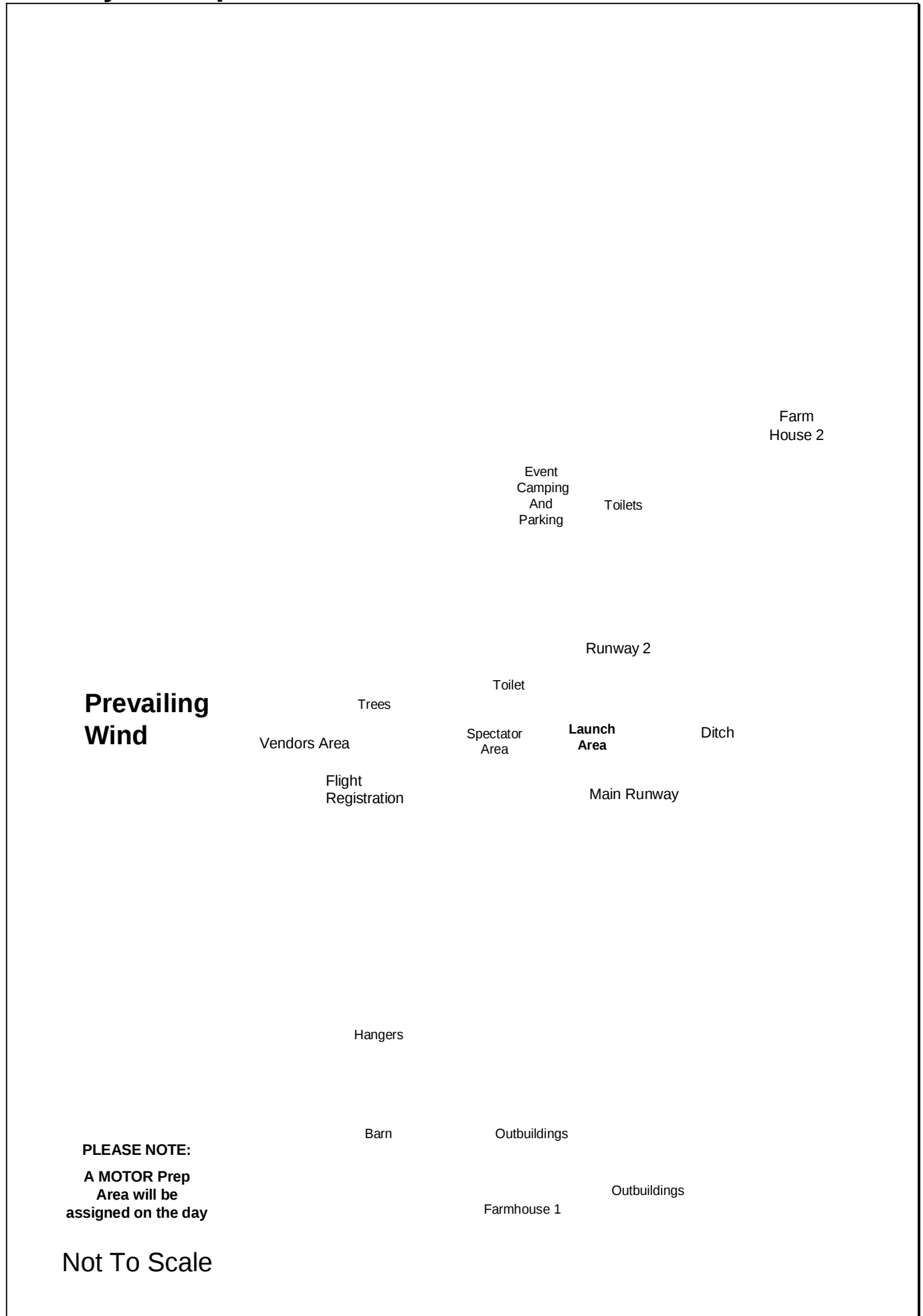
### **Travelling West**

- Take the A444 towards Twycross Zoo
- Go past Twycross Zoo
- Turn right onto Orton Lane and go through village.

As you leave Norton-Juxta-Twycross turn left onto Cottage Lane and travel down the lane. Take care as it is narrow. At the moment you will park up into the car park at the farm in an orderly fashion and proceed to Flyer Registration

Sat Nav = Post Code of Site is CV9 3QH

# Site Layout Map



## Site Details

Site Altitude 4500 feet

Range Flying Times Sat 10.00 am to 6.00 pm (possible extension)

Sun 10.00 am to 4.00 pm

## **Parking**

There will be committee members on duty throughout the weekend giving directions as to where to park. Please follow all instructions that you are given, even if this leaves you parked at a distance from the launch area.

If you do not intend to stay more than one day then we ask if you would park in the Day Parking designated area.

Apart from gear drop off's or vehicles being driven down the track "ALL" car's will be parked along "Runway 2" Parking can be limited at any launch site so please "do not" park or drive on the grass or crops.

Please ensure that you only park in the approved area as this is a fully Working Farm.

## **First Aid**

The club has a designated First Aider. Anyone requiring first aid should seek assistance as soon as possible from the first Aider by reporting to Flyer Registration.

The First Aid kit is held at Flyer Registration.

Please make sure the accident book is filled in.

## **Emergency Procedures**

In the unlikely event of an emergency please contact a MRC official (the ones in yellow safety vests) they have contact details and directions to the local emergency services, hospital and doctor. If you are unable to contact an official immediately contact details are as follows:

<b>Hospital</b>	-	<b>02476 351351 (Nuneaton)</b>
<b>Doctors</b>	-	<b>01530 270316 (Appleby Magna)</b>
<b>Fire Service</b>	-	<b>01827 893256 (Polesworth)</b>
<b>Police</b>	-	<b>01827 718092 (Atherstone)</b>
<b>Electricity</b>	-	<b>0800 404090 (24hr)</b>

## **Children**

MRC welcomes parents who bring their children along with them to our launches. Children are the future of the hobby. However, the launch site is on a working arable farm and rocketry is an inherently dangerous activity.

### ***We have to ask that***

- You keep your children under control at all times.
- Children should take care in rocket preparation areas. Tools left lying around may be sharp and they could hurt themselves.
- Children must stay out of the farmer's fields.
- Children should refrain from playing in the camping area.

Any child that is found to be causing damage or disturbing the launch will be asked to behave or leave the site with their parent or guardian. Safety while having fun is our prime concern.

## **Pets**

We at MRC don't have any objections to you bringing your pet dogs, cats, parrots or any other form of animal with you. All we ask is that you consider the animal's wellbeing and safety while attending the event. All pets should be under control at all times so that they don't pose a safety hazard to people, themselves or the range head. Please Keep Dogs on a lead at the event.

Since we are obliged to keep the launch site clean and tidy when we leave, we would ask all pet owners to clean up after their pets. Please pickup and put any mess they make in the rubbish bags provided.

## **Flyer Briefing**

### **Launch Controller Cables**

Please lay-out your own GSE as directed by the RSO. When laying out launch controller cables, can you please keep all cables to one side of the track. This is to stop the wires getting tangled up, but also to stop them all getting trodden on by flyers as they take their rockets out to the pads.

The committee have provided a number of loan GSE equipment for your usage. Please ensure you are familiar with its operation and treat the equipment with respect.

If you are willing to let other flyers use your controller and pad please let the RSO know and leave any arming key with him.

## **Recovering Rockets**

Once you've flown your rocket and the RSO has given you permission to recover it, there are some rules that we would like you to follow. The farmer has specified to us that he wants the minimum number of people walking over his fields. So unless you are recovering a rocket, please stay out of the fields/crops.

1. There should be no more than two people sent to recover a rocket, unless the weight of the rocket means more people are needed to carry bits of it.
2. Always walk down the tractor wheel paths. Please walk as far down one of these as possible before cutting into the crops when recovering.
3. If you can't find your rocket, please don't wander aimlessly around the farmer's field. The chances are someone back at the launch site got a good line of sight to where it landed, so please come back and talk to the RSO about where your rocket came down.

## **Igniter Installation**

All igniters to be installed into the rocket whilst on the pad and after RSO inspection. If you igniter needs to be installed during motor assembly then please use the designated safety area.

## **Clearing Up**

Once your rocket has flown, or when you are dismantling your pad at the end of the day, can you please pick up any used igniters, motor end caps, masking tape or other rubbish that is in the vicinity of your pad and place them in the pad bin provided. All flyers at MRC events have a responsibility to clear up after themselves, not only on the range, but also around their cars and preparation areas. If you see any litter lying around on the site, could you please pick it up and put it one of the bin bags that are provided.

## **Car Owners**

Drive slowly on the launch site and park where instructed.

## **Use of Electronics**

### **Frequency Usage - PMR**

PMR446 radios are in wide spread usage. Midland Rocketry will use certain channels during the event. The Channels we will use are 4 (Sub channel 12) and 5 (Sub channel 12). Therefore we would ask for your cooperation and not to use either of these channels for the period of the event. If in doubt, please check with the RSO.

### **Frequency Usage - Trackers**

Trackers are becoming wide spread it their usage but because they use the licence exempt 433MHz band there may be more than 1 user wanting to use the frequency at any one time. To avoid conflicts check the frequency first with a scanner to make sure no one is transmitting and then confirm with the RSO as a final check before turning your tracker on. This will also help you as there is no point turning your tracker on with another tracker in operation as all you will do is swamp the signal and no one will be able to track any of their rockets.

### **Frequency Usage - Wireless Video**

Wireless Video is becoming to be used at our club a bit now but because they use the licence exempt 2.4GHz band there may be more than 1 user wanting to use the frequency at any one time. To avoid conflicts check the frequencies first with your receiving equipment to make sure no one is transmitting and then seek the RSO as a final check before turning your video transmitter on. This will also help you as there is no point turning your video gear on with another video transmitter in operation as all you will do is swap the signal and no one will be able to wireless video.

To avoid conflict with electrical items at MRC we would ask you to follow these simple guidelines to make sure that you don't interfere with the running of the launch, or the recovery of other flyers rockets.

## **Local Area**

### **Total Petrol Station**

Appleby Magna Service Area  
Burton Rd,  
Acresford,  
Swadlincote,  
DE12 8AP

Tel: 01530 271660

### **McDonalds**

M42 J11  
Atherstone Rd  
Appleby Magnor  
Swadlincote  
DE12 7AP

Tel: 01530 273197

### **Atherstone Police Station**

Sheepy Rd  
Atherstone  
Warwickshire  
CV9 1HF

Tel: 01827 718092

### **George Eliot Hospital**

College St  
Nuneaton  
Warwickshire  
CV10 7DJ

Tel: 024 7635 1351

### **Doctors Surgery**

Appleby Surgery  
Top St  
Appleby Magna  
Swadlincote  
DE12 7AH

Tel: 01530 270316

### **Ramada Hotel**

Appleby Magna  
Swadlincote  
DE12 7BQ

Tel: 0845 080 5104

### **Appleby Inn Hotel**

11 Atherstone Rd  
Appleby Parva  
Swadlincote  
DE12 7AP

Tel 01530 270463

## **Short UKRA Safety Code**

If there are any differences between this document and the full version of the UKRA Safety Code, then the full version of the UKRA Safety Code should be followed. The full version of the Safety Code is available from UKRA.

## **1 General Rules**

### **1.1 Safety**

Safety is the concern of all members. Members causing serious damage / injury to third parties, livestock, vehicles or property whilst involved in Rocketry of any kind must report the incident in full to the Safety Committee, even if the UKRA codes of practice were not in force at the time of the incident.

#### **1.2 Payloads**

No UKRA member's rocket will ever carry live animals or any payload that is intended to be flammable, explosive, or harmful.

## **2 Equipment**

### **2.1 The Rocket**

All rockets flown under this safety code shall be made of lightweight materials such as paper, wood, rubber or plastic. The range safety officer must be satisfied that the rocket is flight worthy and sufficiently robust to survive launch, aerodynamic, and recovery system loads. All rockets must use a recovery system that will return it safely to the ground so it may be flown again.

### **2.2 Motors**

The motor must only be used in the manner recommended by the manufacturer. It is not permissible to alter the rocket motor, its parts or its ingredients in any.

### **2.3 Igniters**

The Safety Officer must be satisfied with the igniter system that is connected to the rocket motor. Wherever practical igniters should not be installed in a motor until at the launch pad.

### **2.4 Weight & Power**

Any rocket must not have a mass greater than the manufacturer's recommended maximum lift-off mass for the motors used.

### **2.5 Launch Controller**

The launch controller must include a safety key to immobilise the system when removed. This key should only be in place at the time of the launch and is to be removed immediately after an ignition attempt, especially in the event of a misfire.

## **3 The Launch Site**

### **3.1 Safety Officer**

The Safety Officer has authority over and above all other persons present at the Launch Site and has the power to delay or cancel any launch until satisfied that it can proceed safely.

### **3.2 Personnel**

Only UKRA members may approach nearer the rocket than the minimum Safe Distance during or after an igniter is being / has been installed into the Rocket Motor(s). Members may only approach nearer than the Safe Distance with the approval of the Safety Officer.

#### **3.2.1 Spectators**

All spectators / onlookers / press at a UKRA launch must be kept at least the minimum Safe Distance away from the launch area as determined by the total impulse of the Rocket Motor(s) according to the Safe Distance Table.

#### **3.2.2 Minders**

Any persons at the launch site who cannot watch the rocket, e.g. due to their monitoring of equipment must be protected; either by a physical safety barrier or by persons beside them who can watch the rocket and issue a warning or take protective action.

### **3.2.3 Visual Rule**

All persons at the launch site should be aware that for their own safety they must keep their eyes on the rocket from at least two seconds before launch until either the rocket lands or until visual contact is lost.

### **3.2.4 Safe Distance Table**

All persons, except those required for the launch of a rocket should kept at least the given minimum distance from the Rocket Motor during / after igniter installation.

## **4 Flying**

### **4.1 Launch Permission**

Before launching, a UKRA member must obtain the permission to launch from the range Safety Officer.

### **4.2 Launching**

A clearly audible countdown of at least five seconds must be given, either by the launch person, the Safety Officer or any person recognised by all present as responsible for the countdown and authorised by the Safety Officer.

### **4.3 Misfires**

If a Rocket suffers a misfire, no one may approach the Launch Pad until waiting for, one minute after this time the Safety Officer should give permission for one person to approach the Rocket.

**\*\* By Flying or Attending the MRC/UKRA event it means that you agree to these Terms and conditions and abide by either MRC or UKRA ruling.**

## **Forthcoming MRC Launches**

Sunday 9th October 2011  
Sunday 13th November 2011

## **MRC 2012 Launches**

We launch every 2<sup>nd</sup> Sunday of the month with the exception of January and December, you are most welcome to join us!!!!

Note: Please check the website or contact a member of the Committee to confirm dates before setting off.

**\*\*Launches may be cancelled at short notice due to weather or at harvest time\*\***

## Event Sponsors

MRC would like to thank the following companies who have supported the club in various ways enabling MRC to raise funds and bring you a first class event:

