

OCTOBER SKY

OCTOBER 10th - 11th 2009

Twycross 2 Launch Site

A Midland Rocketry Weekend Event
in association with UKRA



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Welcome,

This event is the First Midland Rocketry Club Weekend Event and we would like to welcome you all. We look forward to this being the first of many such events 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

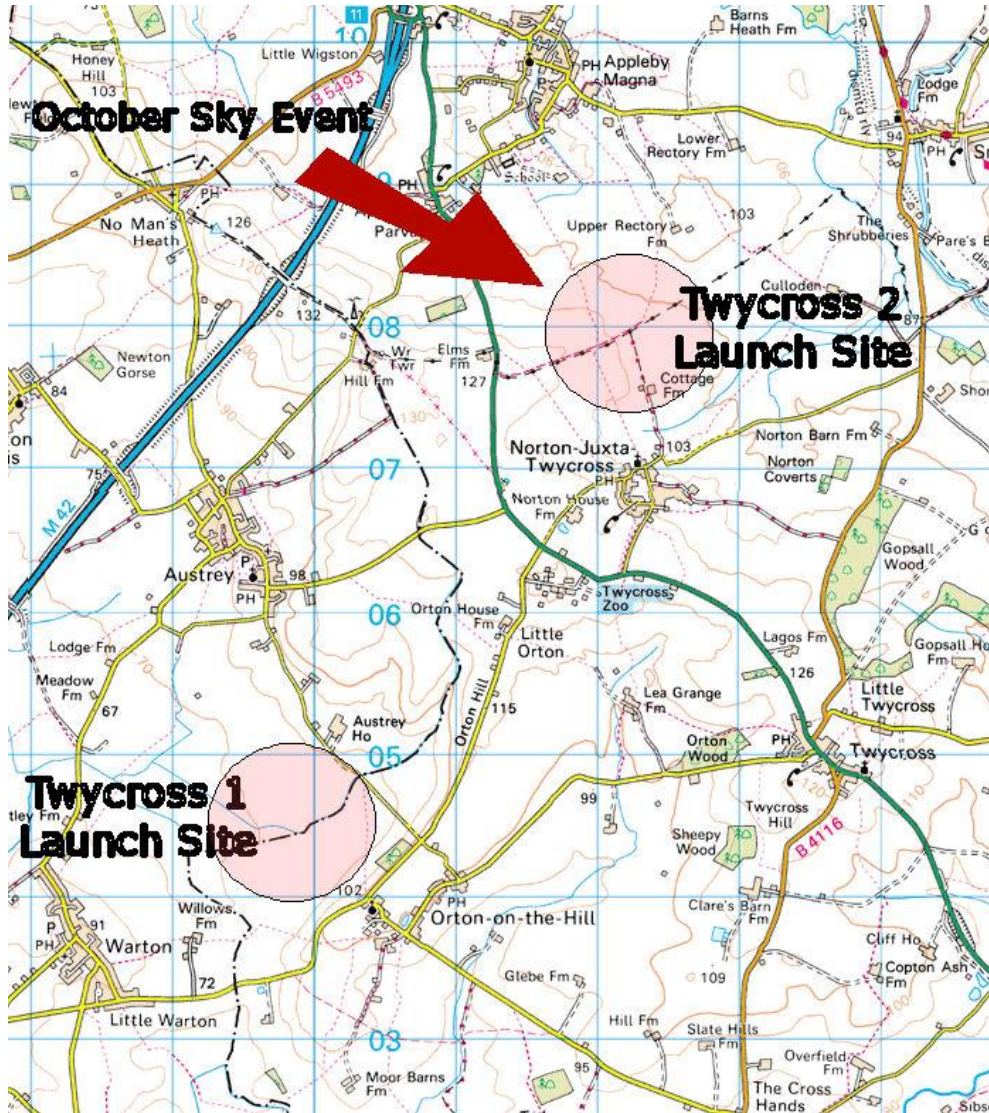
We encourage everyone to join and help the club. Subscription gives you membership access to the club web forums and the subscription fees help us buy equipment for the club etc. Please see the Club Chairman for membership forms.

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.

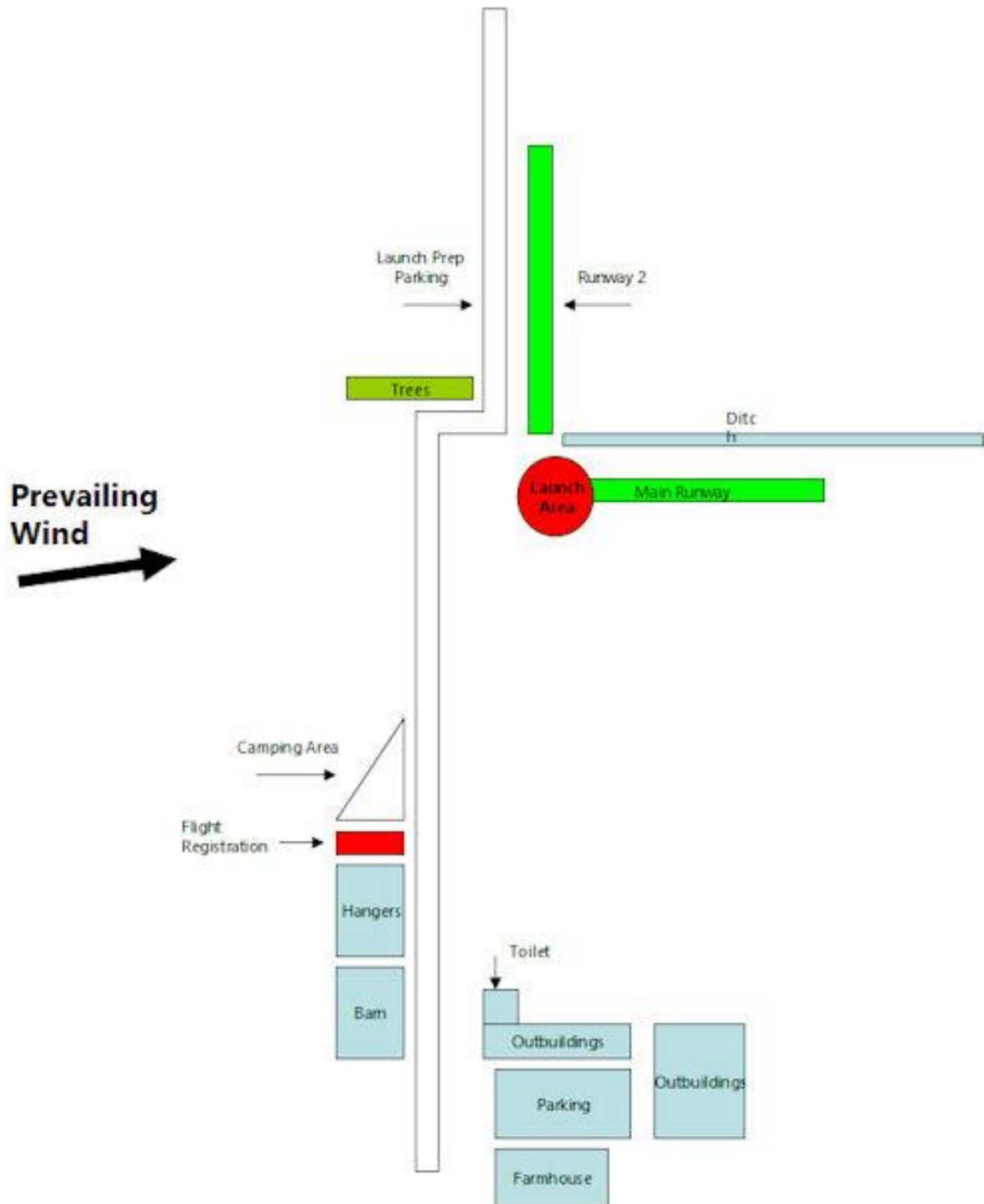
Travelling West

- 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 Twycross Site 2 is CV9 3QH

Site Layout Map



Site Details

Site Altitude is 4500 feet. We recommend that flights over 2000ft use dual-deployment. Single Deployment over 2000ft will be at the RSO discretion depending on the rockets construction, weight and parachute size.

Range Flying Times Sat 10.00 am to 5.30 pm
 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 and parked along "Runway 2" for the purpose of rocket prep, "ALL" car's will be parked in the Farmyard.

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.

Facilities

We will have piped water on site but please bring your own just in case of problems. We will also have a number of Porta-Loos on site but please do not use these for emptying waste containers from caravans etc.

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:

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

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 to reach your rocket. Please walk as far down one of these as possible before cutting into the crops to recover the rocket.
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.

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 in one of the bin bags that are provided.

Car Owners

Drive slowly on the launch site.

Line your car up the same way as the others in a neat and tidy manner.

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 in 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 swamp 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.

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Forthcoming MRC Launches

Sunday 11th November + AGM

Sunday 10th January 2010 *

Sunday 14th February 2010 *

Sunday 14th March 2010

Sunday 11th April 2010

Sunday 9th May 2010

Sunday 13th June 2010

Sunday 11th July 2010 *

Note: *Launches may be cancelled at short notice due to weather or at harvest time.
Please check the website or contact a member of the Committee to confirm dates before setting off.

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:



Rocket Store
co.uk

Rocket Store is a leading UK and European supplier of rocketry related items to the hobby, educational, amateur and professional markets.

We now supply products from most of the worlds rocket manufacturers to our customers from our premises in Canterbury, Kent. We stock and supply products from the following:

- o Aerotech rocket motors
- o Aeropack motor retainers
- o Cesaroni rocket motors
- o Estes model rocket kits
- o Fliskits model rocket kits
- o LOC rocket kits and accessories
- o PML rocket kits and accessories
- o QModeling mid power rocket kits
- o Semroc model and mid power kits and much more ...

Welcome to our world!

web: www.rocketsstore.co.uk
email: shop@rocketsstore.co.uk
tel: 0845 1636345

Rocket Store
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New Dover Road
Canterbury
Kent CT1 3AA