





Navigator Training

South Hams Motor Club

Welcome

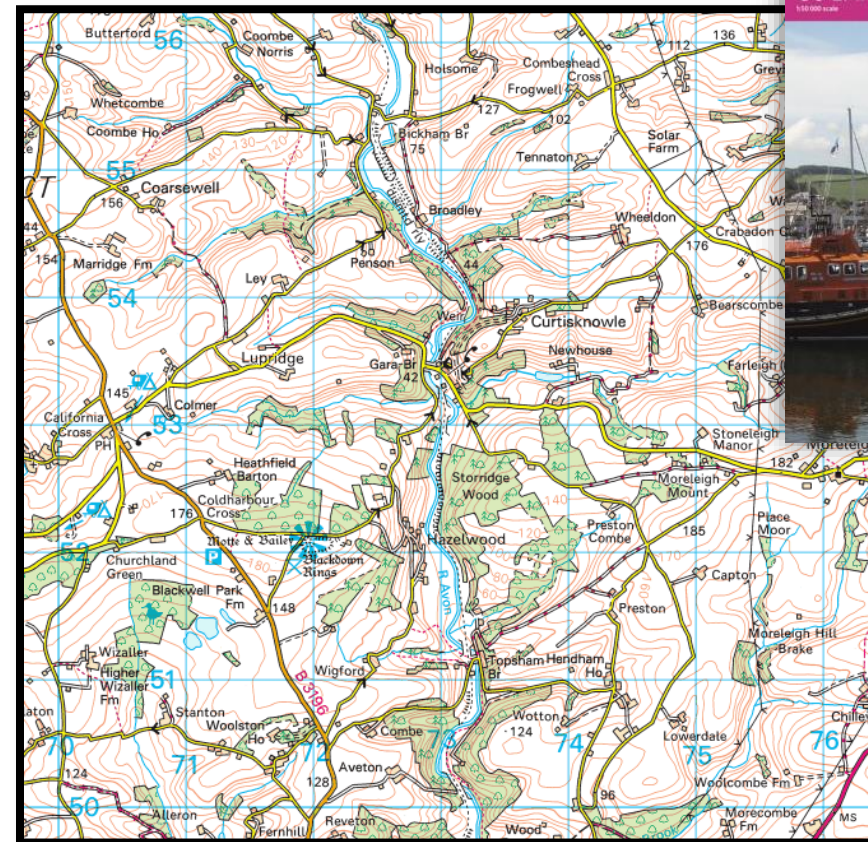
Does everybody have:

- Map 202
- Roamer (1:50 000)
- Pencil (2B-4B)
- Rubber
- Sharpener
- Torch
- A driver/partner to work with



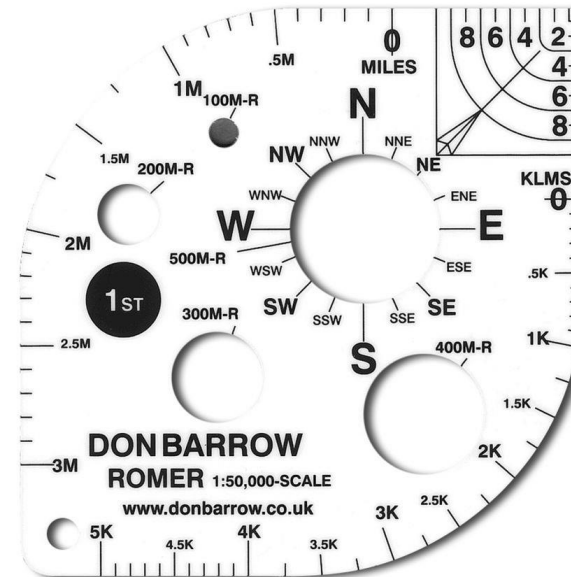
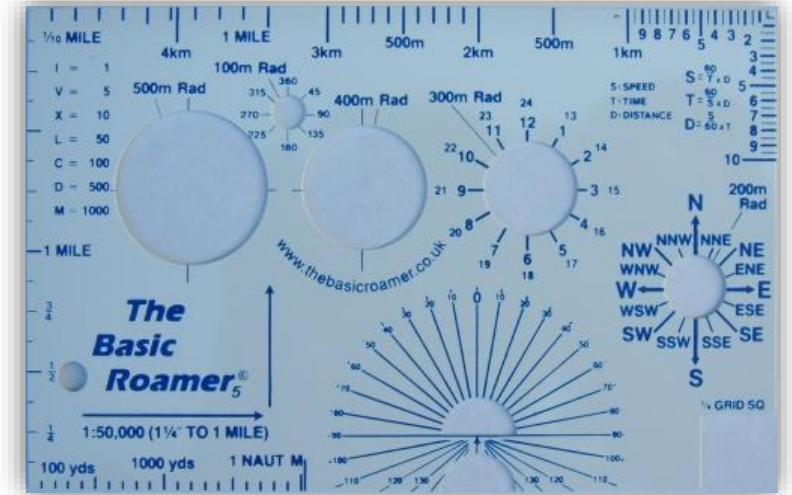
Getting to know an OS Landranger Map

- Scale 1:50 000 – 2cm to 1km – 1¼ inches to 1 mile
- Eastings (vertical) and Northings (horizontal) make 1km grid squares
- Meaning 1cm of road on the map = 500m to travel
- Map is orientated to the North



Getting to know your roamer

- Scale 1:50 000 to match map
- Top right hand corner used to plot grid references
- Circles (of various radius) used to plot areas around a grid reference



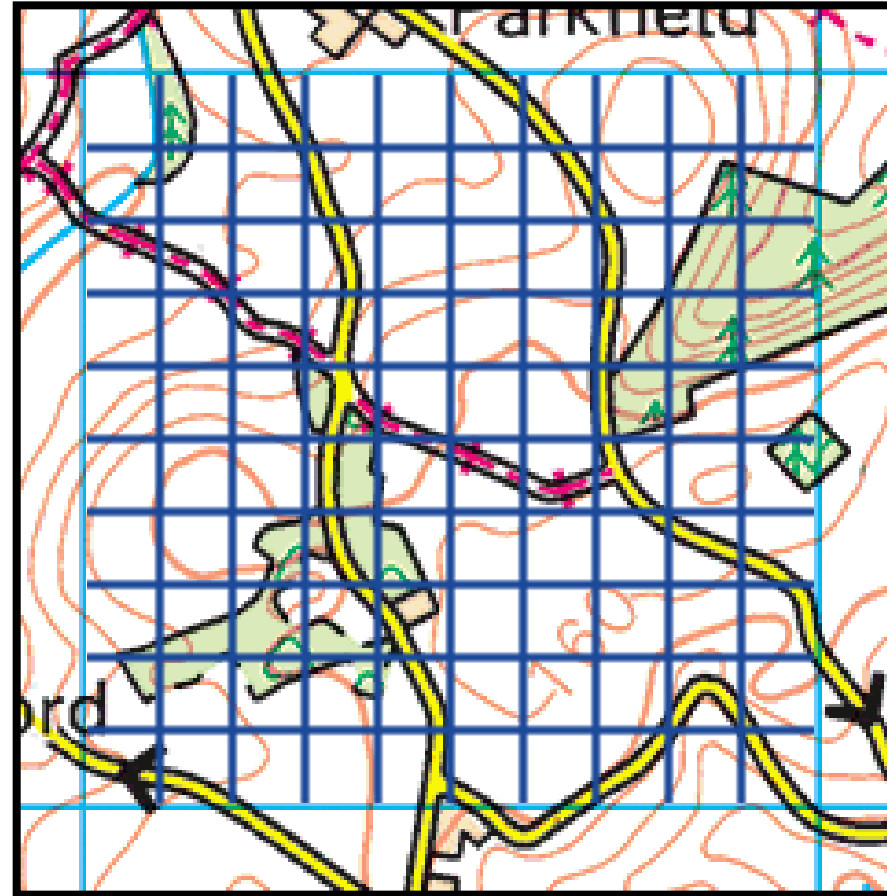
Understanding grid references

- Find grid square **76 67**
(**76** = easting, **67** = northing)
- Imagine this square divided up into a 10x10 grid
- The bottom left corner of the square is **0** across, **0** up

Grid reference = **760 670**

- The middle of the square is **5** across, **5** up

Grid reference = **765 675**



Grid reference practice

- Using your roamer, what is located at the following points?

1. 758 688
2. 774 695
3. 806 694.5
4. 774.5 664

Make a note of the answers

Answers

1. *Mast*
2. *Tor Fm Building*
3. *Electricity pylon*
4. *Place of worship*



Plotting MTC1 – TC2 (CRO)

Route info:

| Control | Grid Ref | App | Dep |
|---------|-------------|-----|-----|
| MTC1 | 765 702.5 | - | ENE |
| GW | 782 706.5 | SW | NNW |
| Via | 795.5 713.5 | WNW | E |
| GW | 802.5 698.5 | ENE | SSW |
| Via | 809.5 685 | NE | WNW |
| GW | 796.5 688 | ESE | W |
| GW | 777 684 | NE | NNW |
| GW | 763 682.5 | NE | NNW |
| Via | 757 689 | ESE | SSE |
| TC2 | 758.5 680 | NNW | SSE |

In this section you will find:

- **CRO** – Coloured Roads Only - this means no white roads should be used
- **MTC** - Main Time Control - usually start and finish
- **TC** – Time Control - points at which your arrival time will be recorded
- **App** – Direction you are approaching the instruction from
- **Dep** – Direction you are departing the instruction in



Plotting MTC1 – TC2 (CRO)

Route info:

| Control | Grid Ref | App | Dep |
|---------|-------------|-----|-----|
| MTC1 | 765 702.5 | - | ENE |
| GW | 782 706.5 | SW | NNW |
| Via | 795.5 713.5 | WNW | E |
| GW | 802.5 698.5 | ENE | SSW |
| Via | 809.5 685 | NE | WNW |
| GW | 796.5 688 | ESE | W |
| GW | 777 684 | NE | NNW |
| GW | 763 682.5 | NE | NNW |
| Via | 757 689 | ESE | SSE |
| TC2 | 758.5 680 | NNW | SSE |

In this section you will find:

- **GW** – Give Way - dictates priority at a junction – On a navigational rally you must stop at all give ways. Be wary - they are not always given in route information



Plotting MTC1 – TC2 (CRO)

Route info:

| Control | Grid Ref | App | Dep |
|---------|-------------|-----|-----|
| MTC1 | 765 702.5 | - | ENE |
| GW | 782 706.5 | SW | NNW |
| Via | 795.5 713.5 | WNW | E |
| GW | 802.5 698.5 | ENE | SSW |
| Via | 809.5 685 | NE | WNW |
| GW | 796.5 688 | ESE | W |
| GW | 777 684 | NE | NNW |
| GW | 763 682.5 | NE | NNW |
| Via | 757 689 | ESE | SSE |
| TC2 | 758.5 680 | NNW | SSE |

Top tips:

- *Make sure your pencil is sharp*
- *Mark the map clearly - do not write over roads*
- *Mark the route on the left hand side of the road (we drive on the left) – this way direction of travel will be clear*
- *You should always use the shortest route (that works) between the route instructions*



Plotting MTC1 – TC2 (CRO)

Route info:

| Control | Grid Ref | App | Dep |
|---------|-------------|-----|-----|
| MTC1 | 765 702.5 | - | ENE |
| GW | 782 706.5 | SW | NNW |
| Via | 795.5 713.5 | WNW | E |
| GW | 802.5 698.5 | ENE | SSW |
| Via | 809.5 685 | NE | WNW |
| GW | 796.5 688 | ESE | W |
| GW | 777 684 | NE | NNW |
| GW | 763 682.5 | NE | NNW |
| Via | 757 689 | ESE | SSE |
| TC2 | 758.5 680 | NNW | SSE |

Top tips:

- *Knowing if a junction is a give way (or not) will help you up your pace – but don't get caught overshooting one – you could be excluded by a DSO (Driving Standards Observer)*

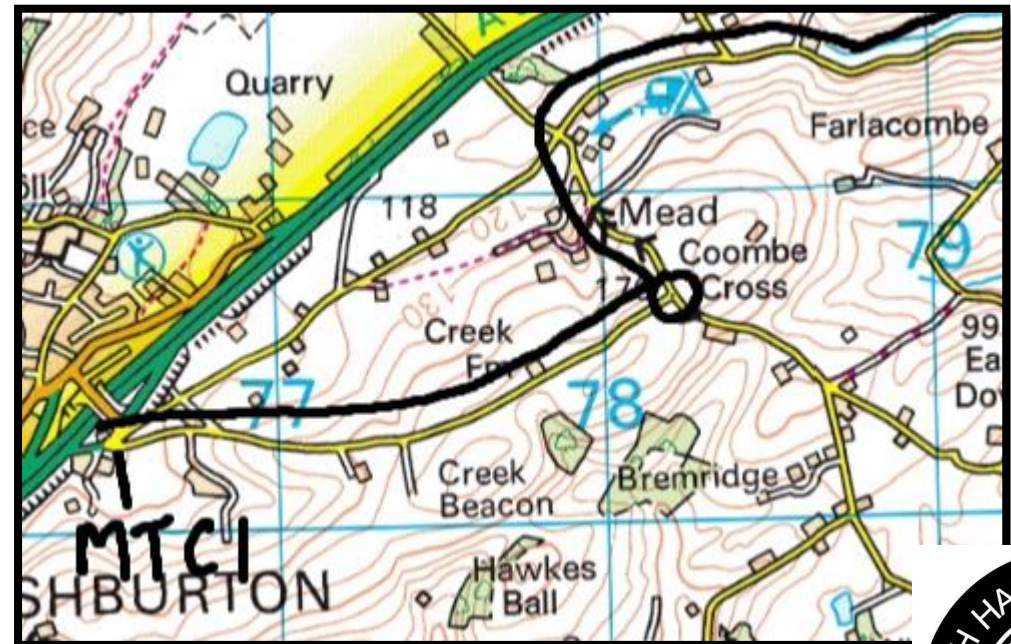


Plotting MTC1 – TC2 (CRO)

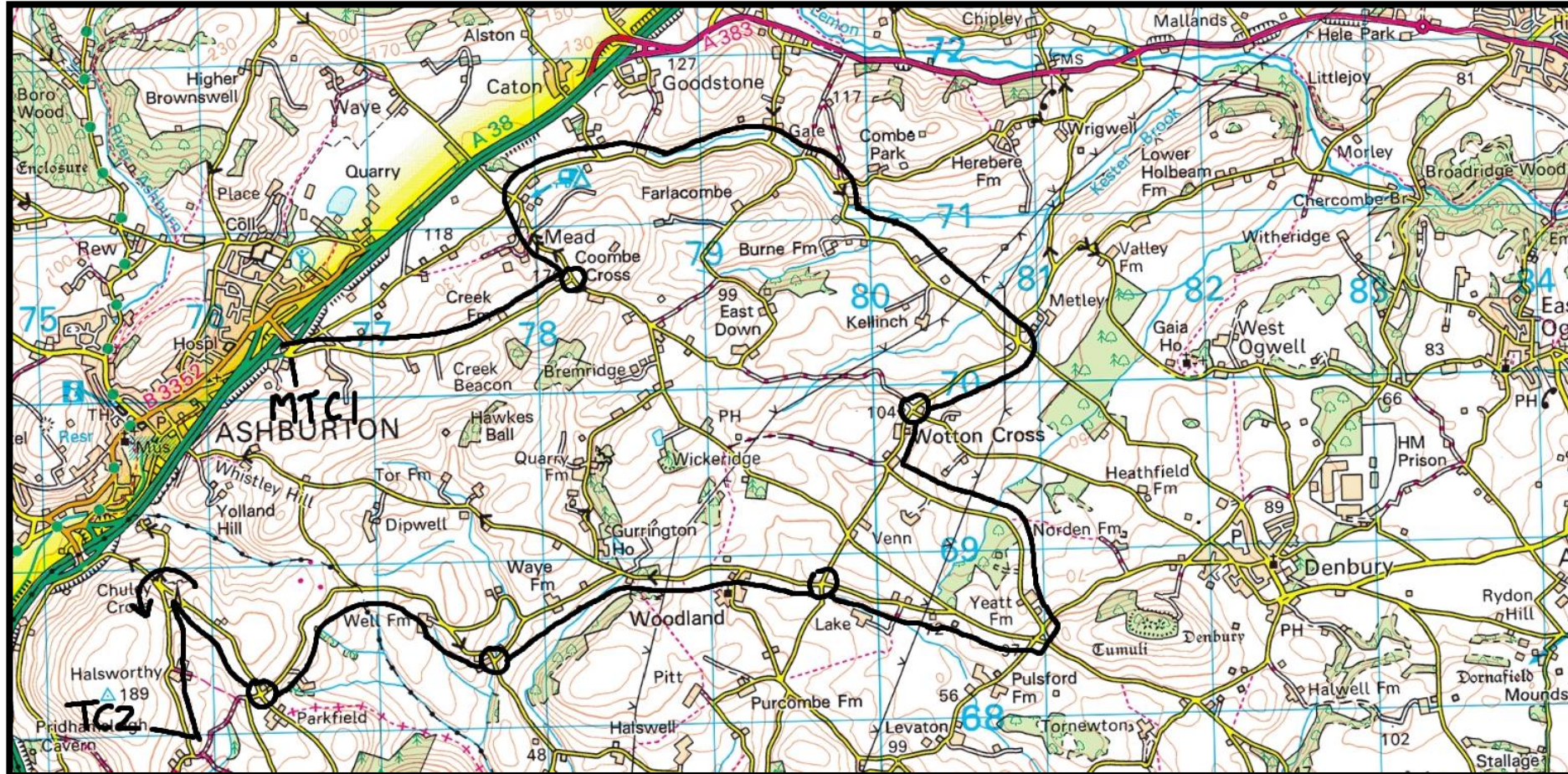
Route info:

| Control | Grid Ref | App | Dep |
|---------|-------------|-----|-----|
| MTC1 | 765 702.5 | - | ENE |
| GW | 782 706.5 | SW | NNW |
| Via | 795.5 713.5 | WNW | E |
| GW | 802.5 698.5 | ENE | SSW |
| Via | 809.5 685 | NE | WNW |
| GW | 796.5 688 | ESE | W |
| GW | 777 684 | NE | NNW |
| GW | 763 682.5 | NE | NNW |
| Via | 757 689 | ESE | SSE |
| TC2 | 758.5 680 | NNW | SSE |

Your first few plots should look like this:



Plotting MTC1 – TC2 (CRO)



Plotting TC2 – TC3 (CRO)

Route info:

| | | | | |
|---|--------|--------|--------|--|
| 1 TC2 758.5 680 App NNW Dep SSE | 2 | 3 | 4 | 5 |
| 6 | 7 | 8 | 9 | 10 |
| 11 | 12 | 13 | 14 | 15 |
| 16 | 17 | 18 | 19 | 20 TC3 778 640 App NNW Dep SSE |

In this section you will also find:

- **Tulips** – Easy! Match the diagram to the road and follow from the ball to the arrow
- **PC** – Passage Control - manned
- **RC** – Route Check - usually a code board or something to record

The purpose of these controls is to check that you follow the correct route. You must visit them in the correct order.



Plotting TC2 – TC3 (CRO)

Route info:

| | | | | |
|---|--------|--------|--------|--|
| 1 TC2 758.5 680 App NNW Dep SSE | 2 | 3 | 4 | 5 |
| 6 | 7 | 8 | 9 | 10 |
| 11 | 12 | 13 | 14 | 15 |
| 16 | 17 | 18 | 19 | 20 TC3 778 640 App NNW Dep SSE |

Top tips:

- Sometimes a tulip may not have a ball and arrow – not to worry – remember to use the shortest route (that works) to connect them up*
- Controls – you should always approach a control from the right direction – if you get caught with a wrong approach the penalties are big!*

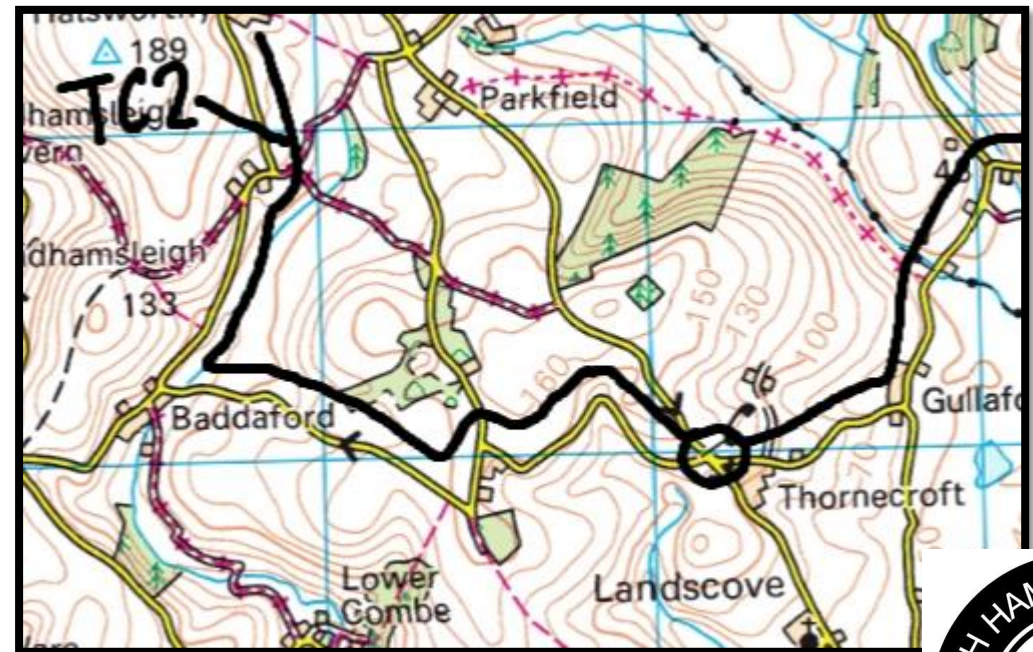


Plotting TC2 – TC3 (CRO)

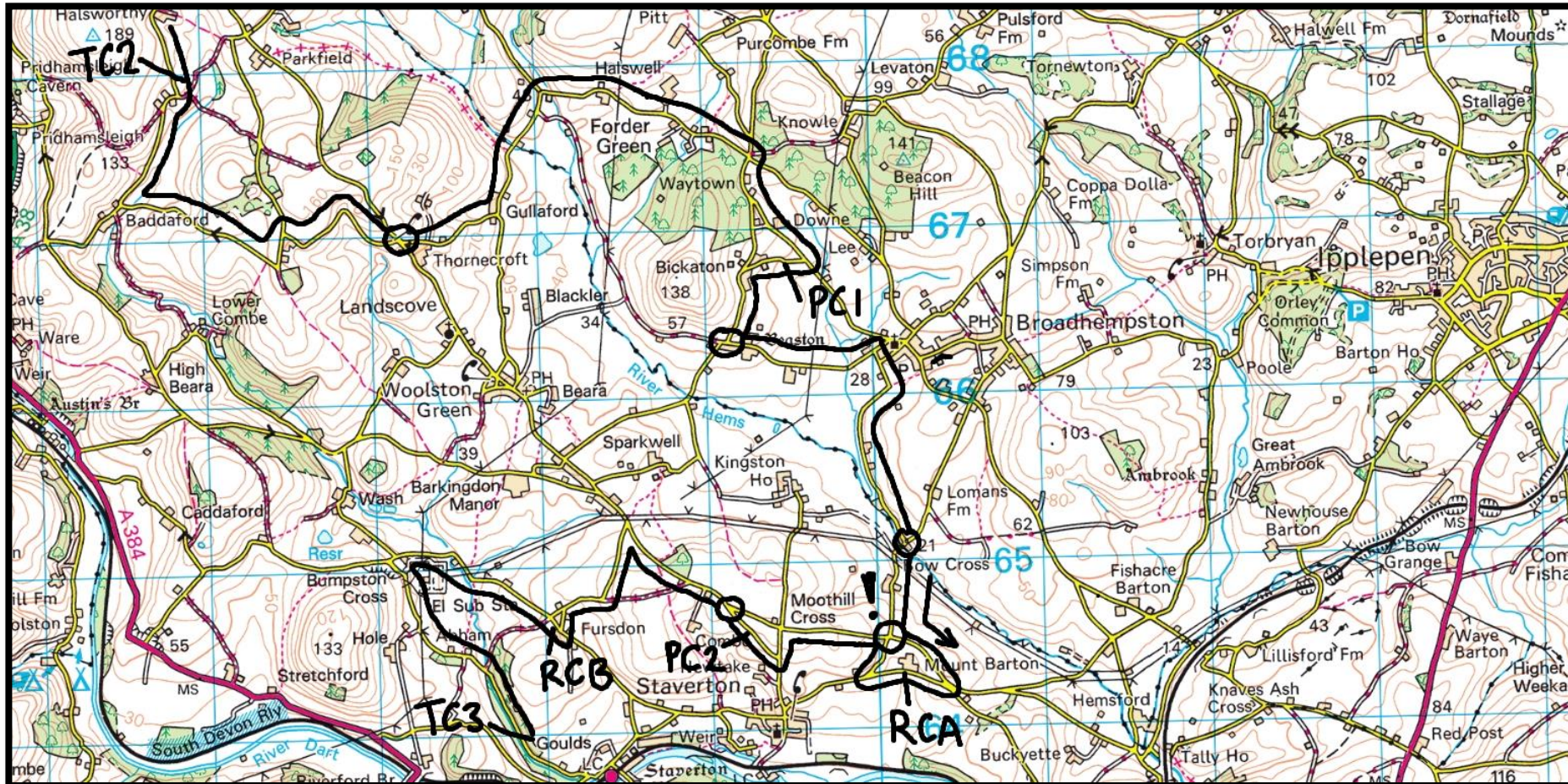
Route info:

| | | | | |
|---|--------|--------|--------|--|
| 1 TC2 758.5 680 App NNW Dep SSE | 2 | 3 | 4 | 5 |
| 6 | 7 | 8 | 9 | 10 |
| 11 | 12 | 13 | 14 | 15 |
| 16 | 17 | 18 | 19 | 20 TC3 778 640 App NNW Dep SSE |

Your first few plots should look like this:



Plotting TC2 – TC3 (CRO)



Plotting TC3 – TC4 (CRO)

Route info:

| | | | | |
|--------------------------------|--|--|--|-----------------------------------|
| 1 TC3 778 640 Dep SSE | 2 78 | 3 GW 782.5 637 App WNW Dep ESE | 4 GW 784 638 App SW Dep SE | 5 GW 781 631.5 Care A384 |
| 6 78 | 7 63 | 8 77 | 9 76 | 10 62 |
| 11 PC3 | 12 61 | 13 GW 758.5 607.5 App NW Dep W | 14 RCC | 15 Quiet 755 602 100mR |
| 16 76 | 17 TC4 & GW 763 600.25 App NW | | | |

In this section you will also find:

- ***Quiets*** – may be given as a radius around a plot (use the circles on your roamer) or as a section of route between two plots
- ***Grid lines*** – used for plotting – take the shorting route to cross the eastings or nothings given



Plotting TC3 – TC4 (CRO)

Route info:

| | | | | |
|--------------------------------|--|--|--|-----------------------------------|
| 1 TC3 778 640 Dep SSE | 2 78 | 3 GW 782.5 637 App WNW Dep ESE | 4 GW 784 638 App SW Dep SE | 5 GW 781 631.5 Care A384 |
| 6 78 | 7 63 | 8 77 | 9 76 | 10 62 |
| 11 PC3 | 12 61 | 13 GW 758.5 607.5 App NW Dep W | 14 RCC | 15 Quiet 755 602 100mR |
| 16 76 | 17 TC4 & GW 763 600.25 App NW | | | |

Top tips:

- *Make sure you tell your driver about quiets – dip lights and high gear or risk being excluded*
- *If a grid line instruction doesn't work, or any instruction for that matter, back track a few plots and see if there is an alternative route that gets you going again*

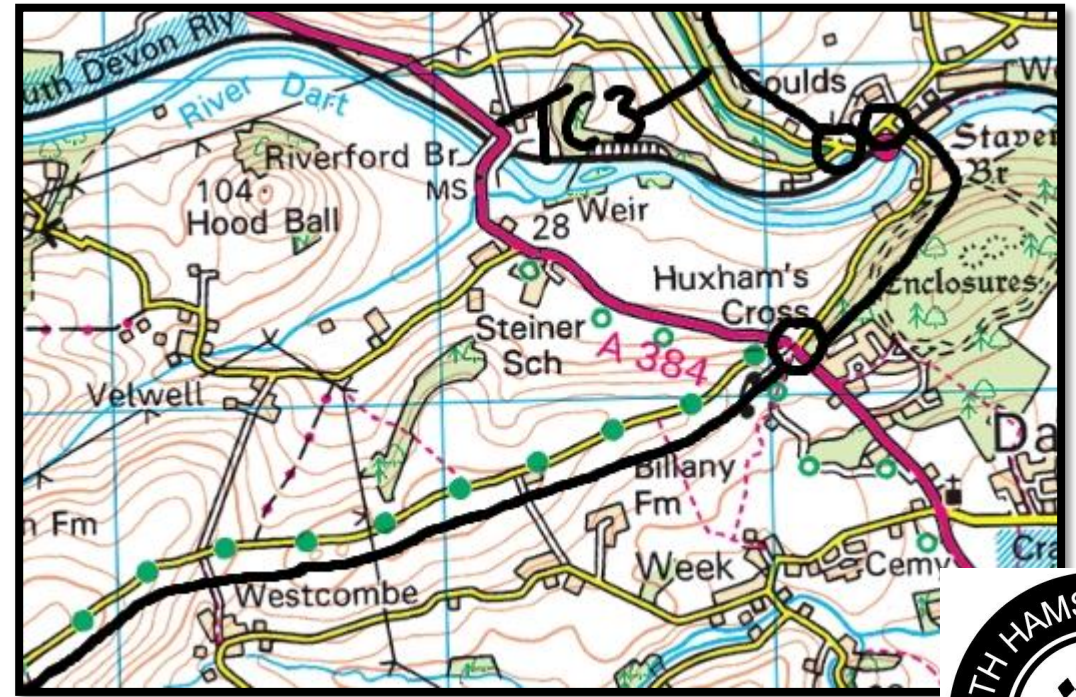


Plotting TC3 – TC4 (CRO)

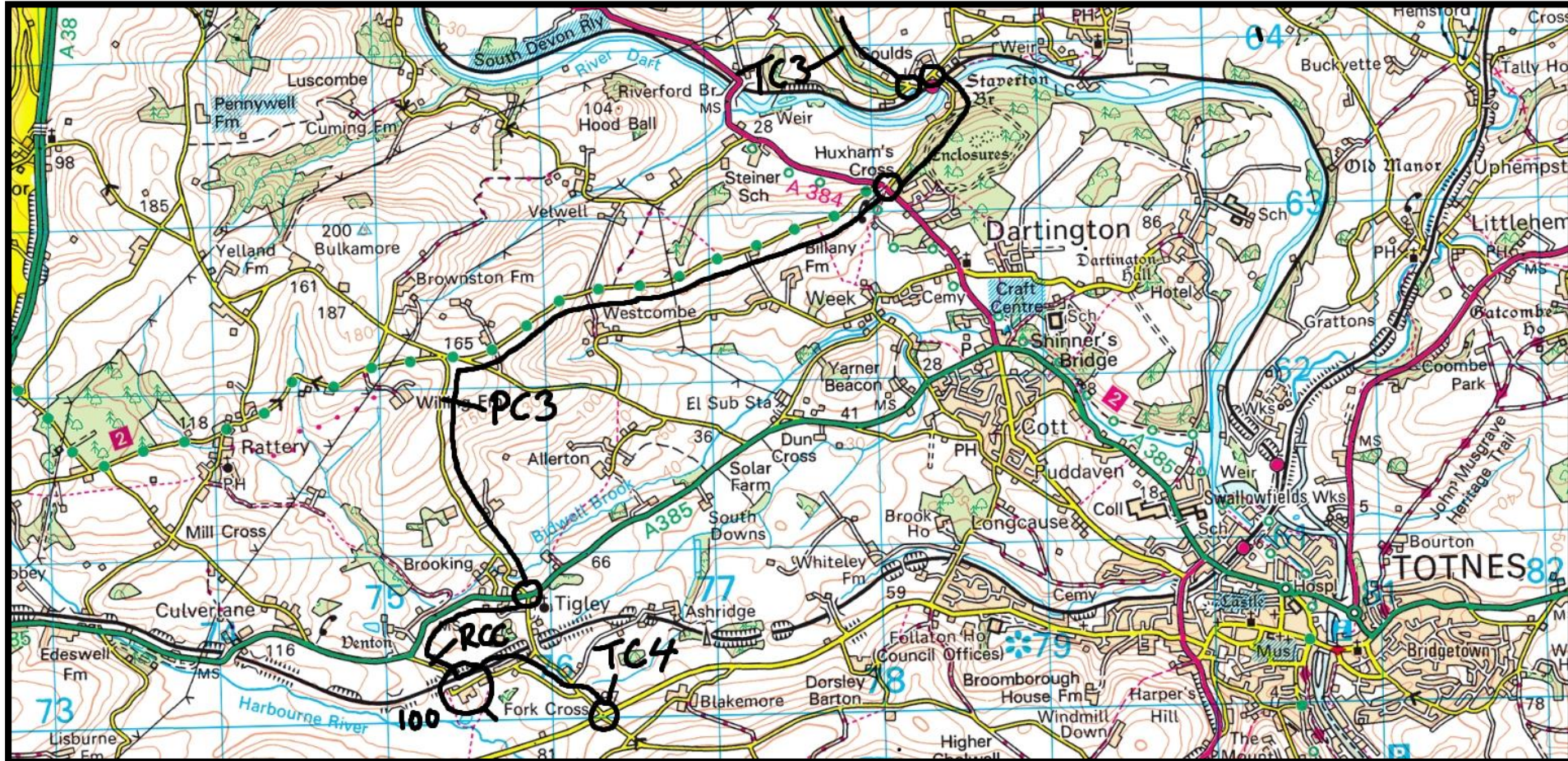
Route info:

| | | | | |
|--------------------------------|--|--|--|-----------------------------------|
| 1 TC3 778 640 Dep SSE | 2 78 | 3 GW 782.5 637 App WNW Dep ESE | 4 GW 784 638 App SW Dep SE | 5 GW 781 631.5 Care A384 |
| 6 78 | 7 63 | 8 77 | 9 76 | 10 62 |
| 11 PC3 | 12 61 | 13 GW 758.5 607.5 App NW Dep W | 14 RCC | 15 Quiet 755 602 100mR |
| 16 76 | 17 TC4 & GW 763 600.25 App NW | | | |

Your first few plots should look like this:



Plotting TC3 – TC4 (CRO)



Plotting TC4 – TC5

Route info:

| | | | | | |
|---------------------------------------|---|-------------------------------------|---|-----------------------------------|------------|
| 1 TC4 763 600.25 Dep SE | 2 < | 3 Use White | 4 RCD 770 595 | 5 GW 767.5 594 | 6 els |
| 7 < | 8 > | 9 < | 10 GW 778 589.5 App WSW Dep ENE | 11 < | 12 Over |
| 13 Use White | 14 RCE 789 593 | 15 GW .133 | 16 Blackspot 789 588 100mR | 17 < | 18 PC4 |
| 19 GW .113 | 20 .MS | 21 GW 782 577 | 22 idg | 23 > | 24 on |
| 25 TC4a & GW 780 585 App SSE | 26 Neutral & Quiet to NTC4b | 27 NTC4b 776.5 584.5 Dep S | 28 Use White | 29 Ha | 30 Be |
| 31 En | 32 GW 772.5 566.5 App NNE Dep SSW | 33 Over | 34 .43 | 35 TC5 767.5 560 App NNE | |

In this section you will also find:

- **Whites** – notice that CRO no longer applies – include white roads to find the shortest route
- **Blackspots** - may be given as a radius around a plot (use the circles on your roamer) or as a section of route between two plots
- **NTC** – Neutral Time Control – Non-competitive section (Transport)
- **Map legends** – used for plotting – these instructions make use of all the different symbols/info on the map

Lets take a look at some of the common legends...



Plotting TC4 – TC5

- **Spot heights** (altitude) – e.g. 56 – see 805.5 681.5
- **Gradient arrows** - > steep / >> very steep – see grid square 81 70
- **Over** – e.g. river, railway, etc. – see 826.5 648
- **Under** – e.g. railway, power line, etc. – see 805 692.5
- **Letters on roads** – e.g. tto – see 805 696.5



Plotting TC4 – TC5

Route info:

| | | | | | |
|---------------------------------------|---|-------------------------------------|---|-----------------------------------|------------|
| 1 TC4 763 600.25 Dep SE | 2 < | 3 Use White | 4 RCD 770 595 | 5 GW 767.5 594 | 6 els |
| 7 < | 8 > | 9 < | 10 GW 778 589.5 App WSW Dep ENE | 11 < | 12 Over |
| 13 Use White | 14 RCE 789 593 | 15 GW .133 | 16 Blackspot 789 588 100mR | 17 < | 18 PC4 |
| 19 GW .113 | 20 .MS | 21 GW 782 577 | 22 idg | 23 > | 24 on |
| 25 TC4a & GW 780 585 App SSE | 26 Neutral & Quiet to NTC4b | 27 NTC4b 776.5 584.5 Dep S | 28 Use White | 29 Ha | 30 Be |
| 31 En | 32 GW 772.5 566.5 App NNE Dep SSW | 33 Over | 34 .43 | 35 TC5 767.5 560 App NNE | |

Top tips:

- *Make sure you tell your driver when you are about to use a white – they can be hard to spot and rough!*
- *Whatever happens do not enter a blackspot – exclusion awaits!*
- *Gradient arrows – if you're travelling with the arrow you're going downhill, travelling against the arrow is uphill*
- *Spot heights can be hard to spot - top navigators will highlight all the ones on roads before the event!*

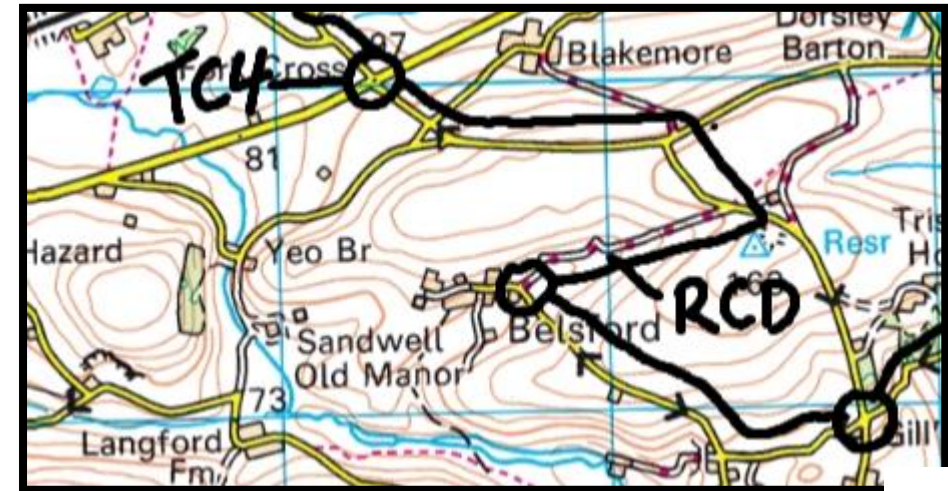


Plotting TC4 – TC5

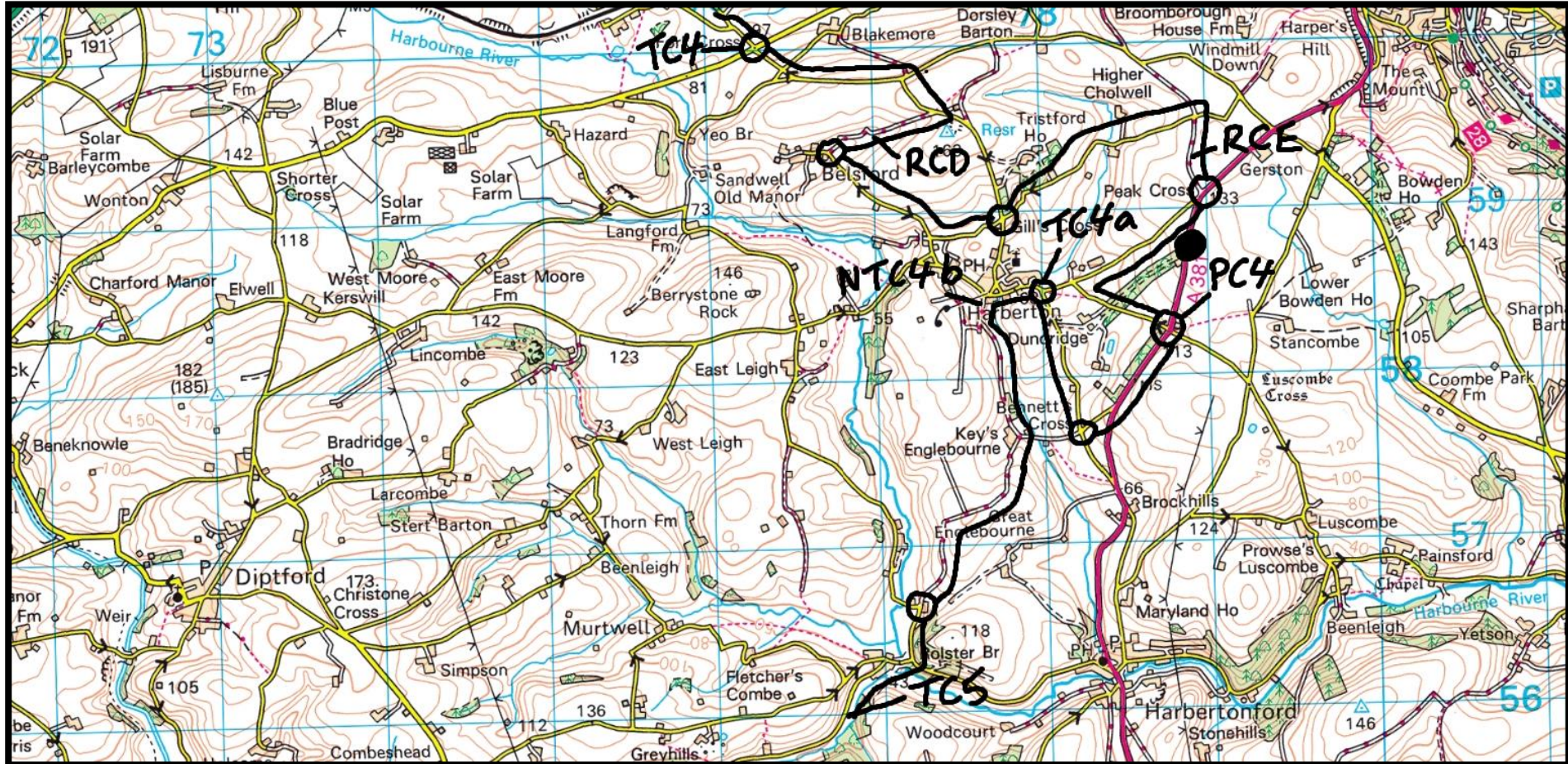
Route info:

| | | | | | |
|---------------------------------------|---|-------------------------------------|---|-----------------------------------|------------|
| 1 TC4 763 600.25 Dep SE | 2 < | 3 Use White | 4 RCD 770 595 | 5 GW 767.5 594 | 6 els |
| 7 < | 8 > | 9 < | 10 GW 778 589.5 App WSW Dep ENE | 11 < | 12 Over |
| 13 Use White | 14 RCE 789 593 | 15 GW .133 | 16 Blackspot 789 588 100mR | 17 < | 18 PC4 |
| 19 GW .113 | 20 .MS | 21 GW 782 577 | 22 idg | 23 > | 24 on |
| 25 TC4a & GW 780 585 App SSE | 26 Neutral & Quiet to NTC4b | 27 NTC4b 776.5 584.5 Dep S | 28 Use White | 29 Ha | 30 Be |
| 31 En | 32 GW 772.5 566.5 App NNE Dep SSW | 33 Over | 34 .43 | 35 TC5 767.5 560 App NNE | |

Your first few plots should look like this:





Plotting TC4 – TC5



Plotting TC5 – MTC6

Route info:

| | | | | | |
|---|----------------------------|--|------------------|-----------------------------------|---|
| 1 TC5 767.5 560 Dep SSW | 2 GW XRTL | 3 FL | 4 Miss L | 5 RCF 768.5 542.5 LWR |  |
| 6 SL | 7 TR | 8 Not SR | 9 RCG THPR | 10 XRHPL | |
| 11 GW XRTR | 12 Not SO | 13 PC5 757 534 Dep Use White | 14 GW TR | 15 GW TR | 16 RCH LWR FL |
|  | 17 FR Use White | 18 GW SO | 19 PC6 | 20 GW Not TR | 21 Miss R |
| | 22 Not TL | 23 Blackspot 713 535 100mR | 24 TR | 25 RCI | 26 Quiet 717.5 540.5 |
| 27 SL | 28 RCJ LWR Not SR | 29 XRTR | 30 GW XRTR | 31 SL Use White | 32 MTC6 695 556 |



In this section you will also find:

- **Descriptive** – abbreviated instructions – TR TL GWSO XRTR HPL SR FL etc.
- **NAM/LWR** – Not As Map/Long Way Round – usually accompanied by diagrams
- **“Not” instructions** – everything you have already learnt but “NOT”! i.e. don’t go this way, take the other option...



Plotting TC5 – MTC6

Route info:

| | | | | | | |
|-------------------------------------|--|-----------------------|----------------------------|-----------------------------------|---|--|
| 1 TC5 767.5 560 Dep SSW | 2 GW XRTL | 3 FL | 4 Miss L | 5 RCF 768.5 542.5 LWR |  | |
| 6 SL | 7 TR | 8 Not SR | 9 RCG THPR | 10 XRHPL | 11 GW XRTR | |
| 12 Not SO | 13 PC5 757 534 Dep Use White | 14 GW TR | 15 GW TR | 16 RCH LWR FL |  | |
| 17 FR Use White | 18 GW SO | 19 PC6 | 20 GW Not TR | 21 Miss R | 22 Not TL | |
| 23 Blackspot 713 535 100mR | 24 TR | 25 RCI | 26 Quiet 717.5 540.5 | 27 SL | 28 RCJ LWR Not SR | |
| 29 XRTR | 30 GW XRTR | 31 SL Use White | 32 MTC6 695 556 | | | |

Top tips:

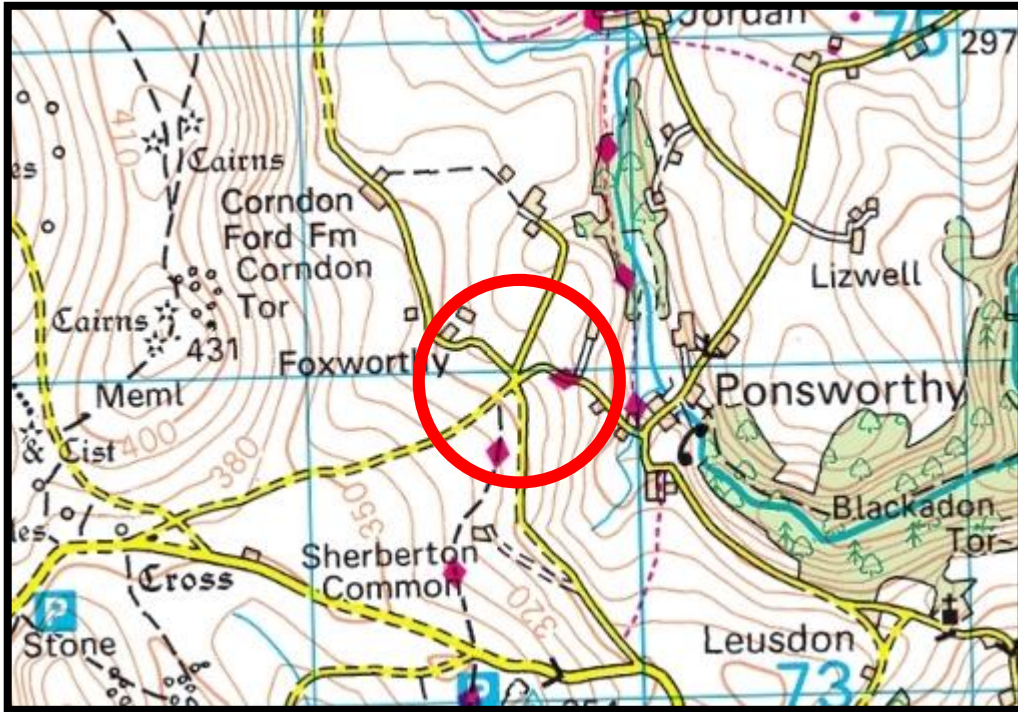
- NAMs or LWRs are used where the map doesn't show enough detail – make sure they are clearly marked on your map and keep the diagrams handy in the car, ready for when you arrive there*

Lets take a look at a good example now...



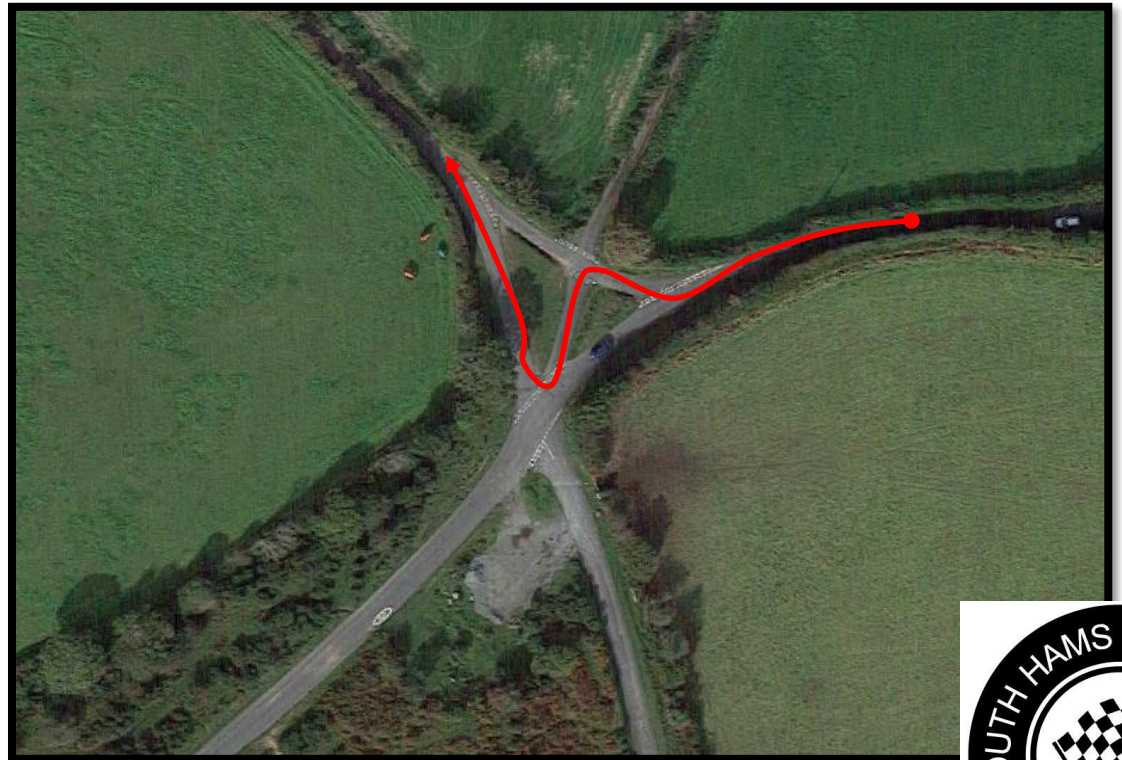
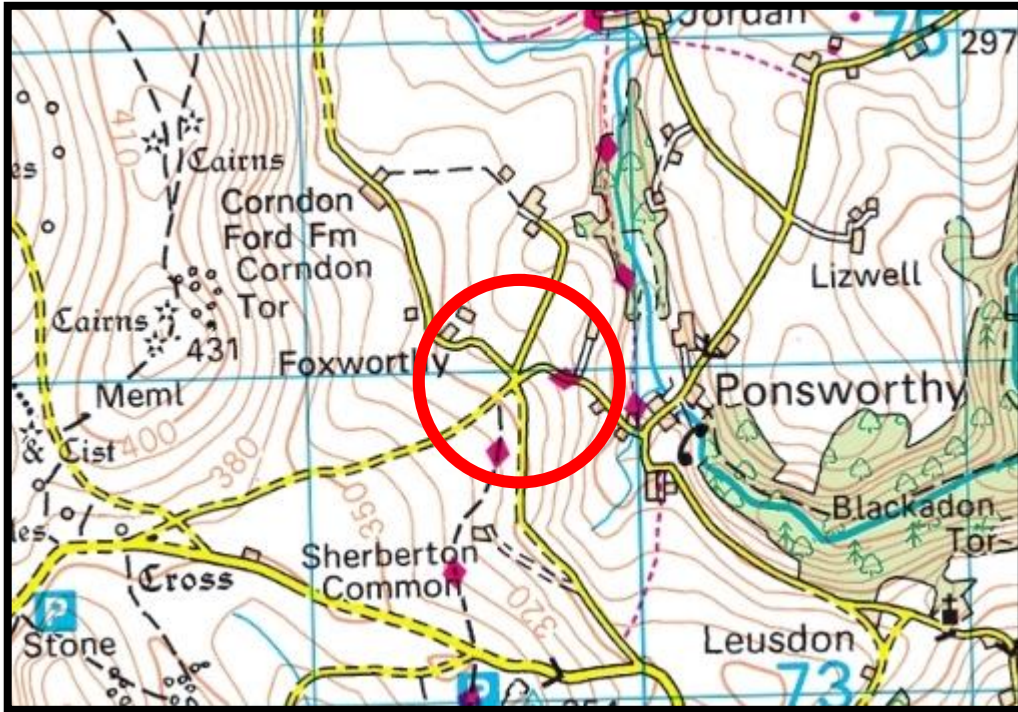
Plotting TC5 – MTC6

Example NAM/LWR:



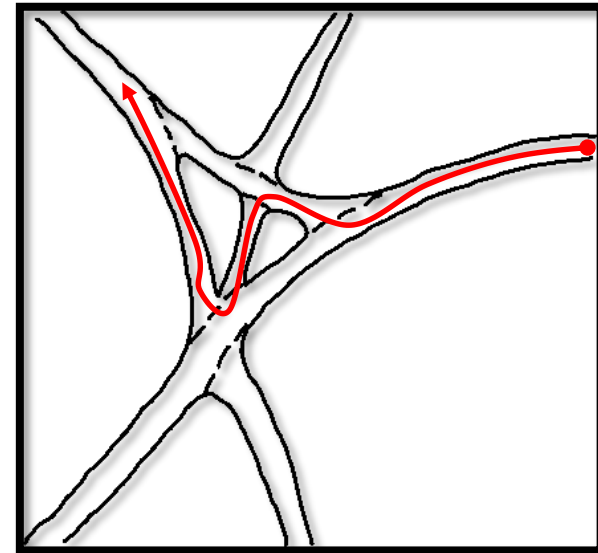
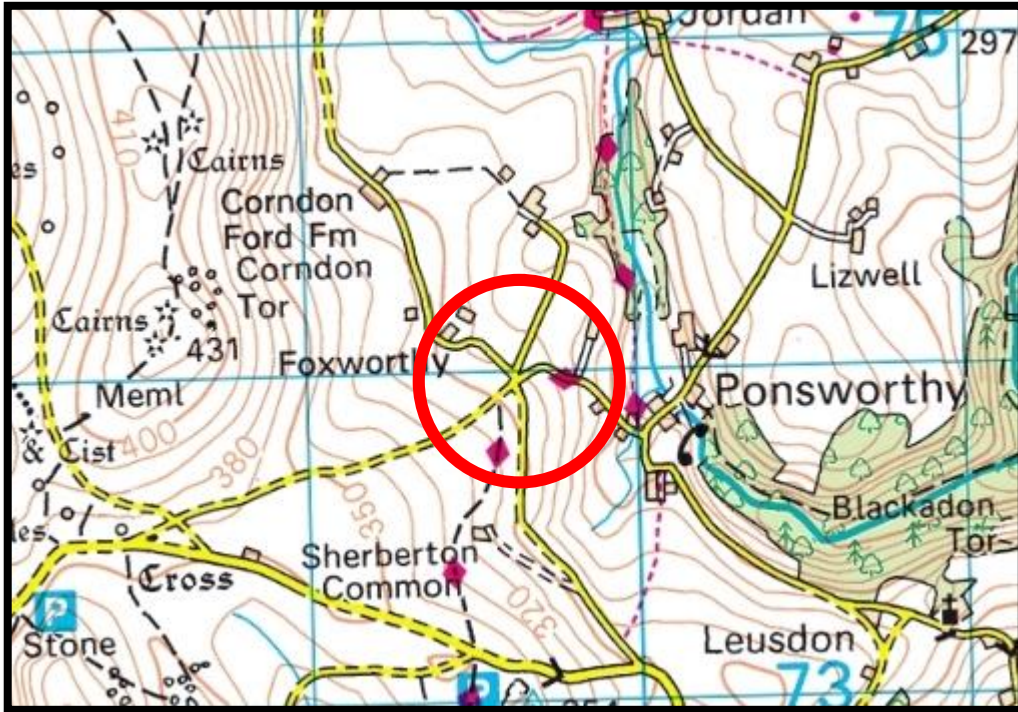
Plotting TC5 – MTC6

Example NAM/LWR:





Plotting TC5 – MTC6

Example NAM/LWR:

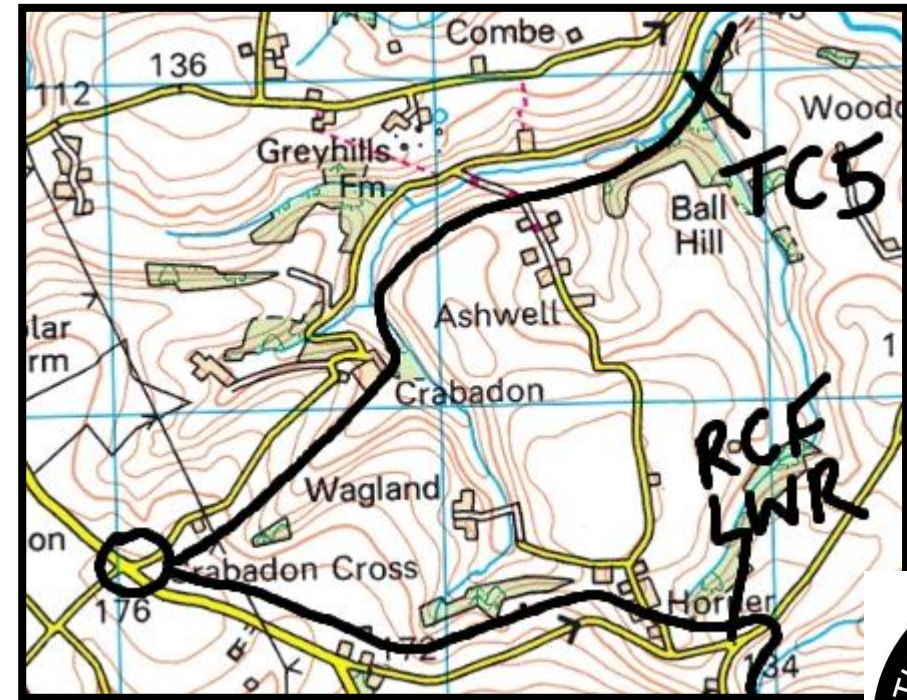


Plotting TC5 – MTC6

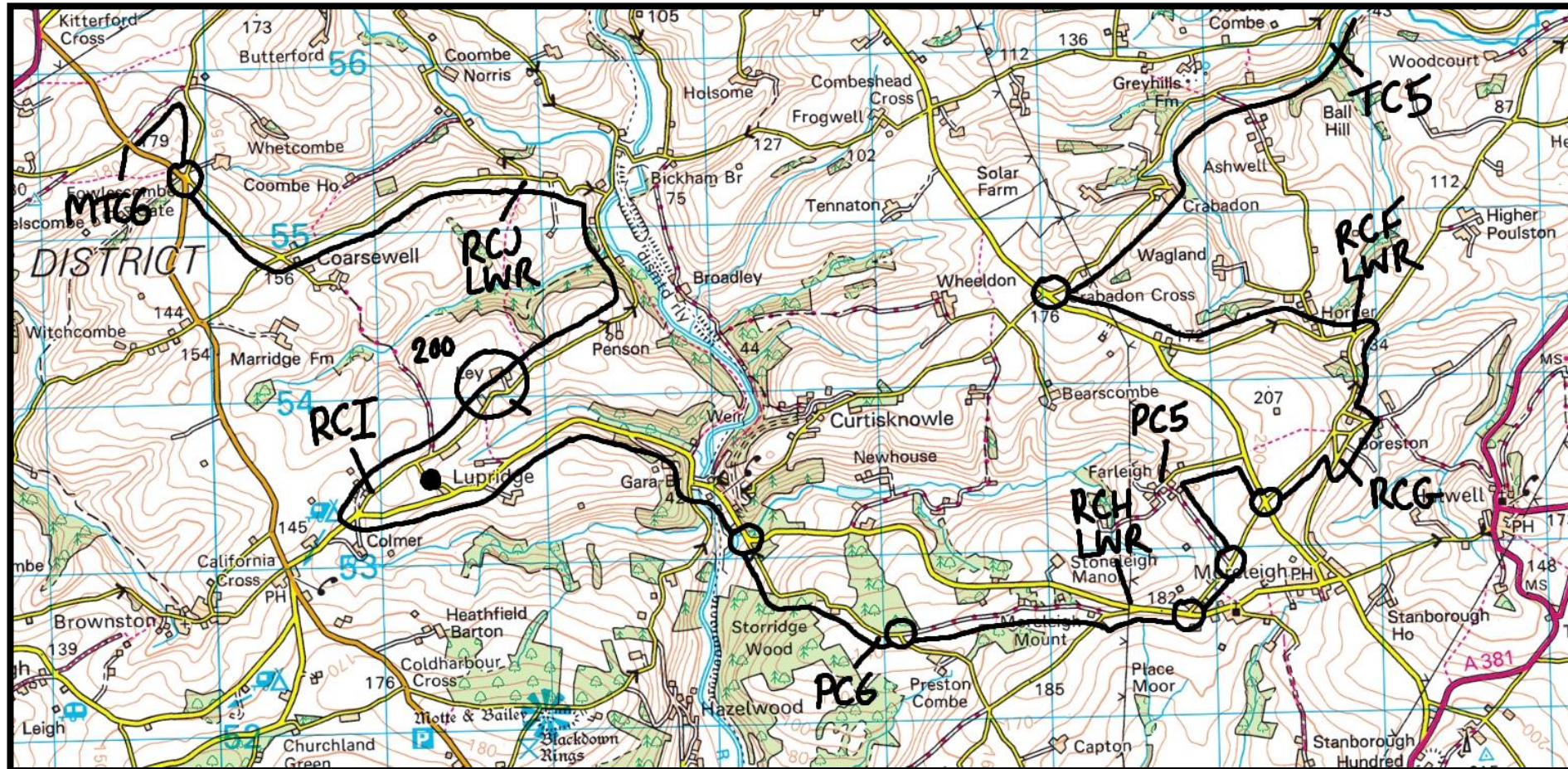
Route info:

| | | | | | |
|-------------------------------------|--|-----------------------|----------------------------|-----------------------------------|---|
| 1 TC5 767.5 560 Dep SSW | 2 GW XRTL | 3 FL | 4 Miss L | 5 RCF 768.5 542.5 LWR |  |
| 6 SL | 7 TR | 8 Not SR | 9 RCG THPR | 10 XRHPL | 11 GW XRTR |
| 12 Not SO | 13 PC5 757 534 Dep Use White | 14 GW TR | 15 GW TR | 16 RCH LWR FL |  |
| 17 FR Use White | 18 GW SO | 19 PC6 | 20 GW Not TR | 21 Miss R | 22 Not TL |
| 23 Blackspot 713 535 100mR | 24 TR | 25 RCI | 26 Quiet 717.5 540.5 | 27 SL | 28 RCJ LWR Not SR |
| 29 XRTR | 30 GW XRTR | 31 SL Use White | 32 MTC6 695 556 | | |

Your first few plots should look like this:



Plotting TC5 – MTC6



Well done!

You have just plotted your first navigational rally route using all of the following information...

- Grid references
- MTC
- TC
- CRO
- App
- Dep
- PC
- RC
- GW
- Tulips
- Whites
- Quiets
- Gridlines
- Black spots
- Map legends
- Descriptive
- NAM/LWR
- “Not”



Timekeeping and your time card

| Comp Use | Control | Miles | Time | Code Board | Time | Signature | Penalty |
|---------------|---------|-------|------|------------|------|-----------|---------|
| | MTC1 | 0 | 0 | | | | |
| | TC2 | 8 | 16 | | | | |
| | PC1 | | | | | | |
| | RCA | | | | | | |
| | PC2 | | | | | | |
| | RCB | | | | | | |
| | TC3 | 9 | 18 | | | | |
| | PC3 | | | | | | |
| | RCC | | | | | | |
| | TC4 | 4 | 8 | | | | |
| | RCD | | | | | | |
| | RCE | | | | | | |
| | PC4 | | | | | | |
| | TC4a | 4 | 8 | | | | |
| | NTC4b | 0.25 | 4 | | | | |
| | TC5 | 2 | 4 | | | | |
| | RCF | | | | | | |
| | RCG | | | | | | |
| | PC5 | | | | | | |
| | RCH | | | | | | |
| | PC6 | | | | | | |
| | RCI | | | | | | |
| | RCJ | | | | | | |
| | MTC6 | 10 | 20 | | | | |
| Total Penalty | | | | | | | |

- Navigational rallies are timed at a maximum average speed of 30mph – that means you are given 2 mins for each mile – e.g. a 10 mile section should take 20mins
- Try to enter Time Controls on time (on your minute) – every minute late is a penalty
- Do not enter a Time Control early – penalties are doubled
- Each section should be done in the time allowed – do not try and make up time unless told to do so



Timekeeping and your time card

- Always check your plotted route against your time card – the number of, and order of, controls should match perfectly
- Always complete your time card clearly, in pen, and in the right place
- If you write down a code board make sure you get it signed for at the next manned Control
- Never be more than 30 mins late, going OTL leads to big penalties

[illegible]

Simulated timekeeping exercise

- You are due to start the rally at 2101 (MTC1)
- Your due time at TC2 is?

| Comp Use | Control | Miles | Time | Code Board | Time | Signature | Penalty |
|---------------|---------|-------|------|------------|------|-----------|---------|
| 2101 | MTC1 | 0 | 0 | | | | |
| | TC2 | 8 | 16 | | | | |
| | PC1 | | | | | | |
| | RCA | | | | | | |
| | PC2 | | | | | | |
| | RCB | | | | | | |
| | TC3 | 9 | 18 | | | | |
| | PC3 | | | | | | |
| | RCC | | | | | | |
| | TC4 | 4 | 8 | | | | |
| | RCD | | | | | | |
| | RCE | | | | | | |
| | PC4 | | | | | | |
| | TC4a | 4 | 8 | | | | |
| | NTC4b | 0.25 | 4 | | | | |
| | TC5 | 2 | 4 | | | | |
| | RCF | | | | | | |
| | RCG | | | | | | |
| | PC5 | | | | | | |
| | RCH | | | | | | |
| | PC6 | | | | | | |
| | RCI | | | | | | |
| | RCJ | | | | | | |
| | MTC6 | 10 | 20 | | | | |
| Total Penalty | | | | | | | |



Simulated timekeeping exercise

- You are due to start the rally at 2101 (MTC1)
- Your due time at TC2 is?
- $2101 + 16 = 2117$

| Comp Use | Control | Miles | Time | Code Board | Time | Signature | Penalty |
|---------------|---------|-------|------|------------|------|-----------|---------|
| 2101 | MTC1 | 0 | 0 | | | | |
| 2117 | TC2 | 8 | 16 | | | | |
| | PC1 | | | | | | |
| | RCA | | | | | | |
| | PC2 | | | | | | |
| | RCB | | | | | | |
| | TC3 | 9 | 18 | | | | |
| | PC3 | | | | | | |
| | RCC | | | | | | |
| | TC4 | 4 | 8 | | | | |
| | RCD | | | | | | |
| | RCE | | | | | | |
| | PC4 | | | | | | |
| | TC4a | 4 | 8 | | | | |
| | NTC4b | 0.25 | 4 | | | | |
| | TC5 | 2 | 4 | | | | |
| | RCF | | | | | | |
| | RCG | | | | | | |
| | PC5 | | | | | | |
| | RCH | | | | | | |
| | PC6 | | | | | | |
| | RCI | | | | | | |
| | RCJ | | | | | | |
| | MTC6 | 10 | 20 | | | | |
| Total Penalty | | | | | | | |



Simulated timekeeping exercise

- You are due to start the rally at 2101 (MTC1)
- Your due time at TC2 is?
- $2101 + 16 = 2117$
- It's also worth working out the rest of your scheduled due times in case you are getting close to OTL

| Comp Use | Control | Miles | Time | Code Board | Time | Signature | Penalty |
|---------------|---------|-------|------|------------|------|-----------|---------|
| 2101 | MTC1 | 0 | 0 | | | | |
| 2117 | TC2 | 8 | 16 | | | | |
| | PC1 | | | | | | |
| | RCA | | | | | | |
| | PC2 | | | | | | |
| | RCB | | | | | | |
| (2135) | TC3 | 9 | 18 | | | | |
| | PC3 | | | | | | |
| | RCC | | | | | | |
| (2143) | TC4 | 4 | 8 | | | | |
| | RCD | | | | | | |
| | RCE | | | | | | |
| | PC4 | | | | | | |
| (2151) | TC4a | 4 | 8 | | | | |
| (2155) | NTC4b | 0.25 | 4 | | | | |
| (2159) | TC5 | 2 | 4 | | | | |
| | RCF | | | | | | |
| | RCG | | | | | | |
| | PC5 | | | | | | |
| | RCH | | | | | | |
| | PC6 | | | | | | |
| | RCI | | | | | | |
| | RCJ | | | | | | |
| (2219) | MTC6 | 10 | 20 | | | | |
| Total Penalty | | | | | | | |



Simulated timekeeping exercise

- You start the rally at 2101. You arrive at TC2 one minute early at 2116. What do you do?

| Comp Use | Control | Miles | Time | Code Board | Time | Signature | Penalty |
|---------------|---------|-------|------|------------|------|-----------|---------|
| 2101 | MTC1 | 0 | 0 | | 2101 | P Watts | |
| 2117 | TC2 | 8 | 16 | | | | |
| | PC1 | | | | | | |
| | RCA | | | | | | |
| | PC2 | | | | | | |
| | RCB | | | | | | |
| (2135) | TC3 | 9 | 18 | | | | |
| | PC3 | | | | | | |
| | RCC | | | | | | |
| (2143) | TC4 | 4 | 8 | | | | |
| | RCD | | | | | | |
| | RCE | | | | | | |
| | PC4 | | | | | | |
| (2151) | TC4a | 4 | 8 | | | | |
| (2155) | NTC4b | 0.25 | 4 | | | | |
| (2159) | TC5 | 2 | 4 | | | | |
| | RCF | | | | | | |
| | RCG | | | | | | |
| | PC5 | | | | | | |
| | RCH | | | | | | |
| | PC6 | | | | | | |
| | RCI | | | | | | |
| | RCJ | | | | | | |
| (2219) | MTC6 | 10 | 20 | | | | |
| Total Penalty | | | | | | | |



Simulated timekeeping exercise

- You start the rally at 2101. You arrive at TC2 one minute early at 2116. What do you do?
- Wait at the control board until your due time and then pull forward to the marshal

| Comp Use | Control | Miles | Time | Code Board | Time | Signature | Penalty |
|---------------|---------|-------|------|------------|------|-----------|---------|
| 2101 | MTC1 | 0 | 0 | | 2101 | P Watts | |
| 2117 | TC2 | 8 | 16 | | 2117 | A Frame | |
| | PC1 | | | | | | |
| | RCA | | | | | | |
| | PC2 | | | | | | |
| | RCB | | | | | | |
| (2135) | TC3 | 9 | 18 | | | | |
| | PC3 | | | | | | |
| | RCC | | | | | | |
| (2143) | TC4 | 4 | 8 | | | | |
| | RCD | | | | | | |
| | RCE | | | | | | |
| | PC4 | | | | | | |
| (2151) | TC4a | 4 | 8 | | | | |
| (2155) | NTC4b | 0.25 | 4 | | | | |
| (2159) | TC5 | 2 | 4 | | | | |
| | RCF | | | | | | |
| | RCG | | | | | | |
| | PC5 | | | | | | |
| | RCH | | | | | | |
| | PC6 | | | | | | |
| | RCI | | | | | | |
| | RCJ | | | | | | |
| (2219) | MTC6 | 10 | 20 | | | | |
| Total Penalty | | | | | | | |



Simulated timekeeping exercise

- You arrive at PC1 to find a control board and a marshal. What do you do?

| Comp Use | Control | Miles | Time | Code Board | Time | Signature | Penalty |
|---------------|---------|-------|------|------------|------|-----------|---------|
| 2101 | MTC1 | 0 | 0 | | 2101 | P Watts | |
| 2117 | TC2 | 8 | 16 | | 2117 | A Frame | |
| | PC1 | | | | | | |
| | RCA | | | | | | |
| | PC2 | | | | | | |
| | RCB | | | | | | |
| (2135) | TC3 | 9 | 18 | | | | |
| | PC3 | | | | | | |
| | RCC | | | | | | |
| (2143) | TC4 | 4 | 8 | | | | |
| | RCD | | | | | | |
| | RCE | | | | | | |
| | PC4 | | | | | | |
| (2151) | TC4a | 4 | 8 | | | | |
| (2155) | NTC4b | 0.25 | 4 | | | | |
| (2159) | TC5 | 2 | 4 | | | | |
| | RCF | | | | | | |
| | RCG | | | | | | |
| | PC5 | | | | | | |
| | RCH | | | | | | |
| | PC6 | | | | | | |
| | RCI | | | | | | |
| | RCJ | | | | | | |
| (2219) | MTC6 | 10 | 20 | | | | |
| Total Penalty | | | | | | | |



Simulated timekeeping exercise

- You arrive at PC1 to find a control board and a marshal. What do you do?
- Stop at the board (for safety reasons) and then immediately proceed to the marshal and ask them to sign PC1

| Comp Use | Control | Miles | Time | Code Board | Time | Signature | Penalty |
|---------------|---------|-------|------|------------|------|-----------|---------|
| 2101 | MTC1 | 0 | 0 | | 2101 | P Watts | |
| 2117 | TC2 | 8 | 16 | | 2117 | A Frame | |
| | PC1 | | | - | | T Marsh | |
| | RCA | | | | | | |
| | PC2 | | | | | | |
| | RCB | | | | | | |
| (2135) | TC3 | 9 | 18 | | | | |
| | PC3 | | | | | | |
| | RCC | | | | | | |
| (2143) | TC4 | 4 | 8 | | | | |
| | RCD | | | | | | |
| | RCE | | | | | | |
| | PC4 | | | | | | |
| (2151) | TC4a | 4 | 8 | | | | |
| (2155) | NTC4b | 0.25 | 4 | | | | |
| (2159) | TC5 | 2 | 4 | | | | |
| | RCF | | | | | | |
| | RCG | | | | | | |
| | PC5 | | | | | | |
| | RCH | | | | | | |
| | PC6 | | | | | | |
| | RCI | | | | | | |
| | RCJ | | | | | | |
| (2219) | MTC6 | 10 | 20 | | | | |
| Total Penalty | | | | | | | |



Simulated timekeeping exercise

- You record the code board at RCA and then find marshals at PC2. What do you do?

| Comp Use | Control | Miles | Time | Code Board | Time | Signature | Penalty |
|---------------|---------|-------|------|------------|------|-----------|---------|
| 2101 | MTC1 | 0 | 0 | | 2101 | P Watts | |
| 2117 | TC2 | 8 | 16 | | 2117 | A Frame | |
| | PC1 | | | - | | T Marsh | |
| | RCA | | | EOR | | | |
| | PC2 | | | | | | |
| | RCB | | | | | | |
| (2135) | TC3 | 9 | 18 | | | | |
| | PC3 | | | | | | |
| | RCC | | | | | | |
| (2143) | TC4 | 4 | 8 | | | | |
| | RCD | | | | | | |
| | RCE | | | | | | |
| | PC4 | | | | | | |
| (2151) | TC4a | 4 | 8 | | | | |
| (2155) | NTC4b | 0.25 | 4 | | | | |
| (2159) | TC5 | 2 | 4 | | | | |
| | RCF | | | | | | |
| | RCG | | | | | | |
| | PC5 | | | | | | |
| | RCH | | | | | | |
| | PC6 | | | | | | |
| | RCI | | | | | | |
| | RCJ | | | | | | |
| (2219) | MTC6 | 10 | 20 | | | | |
| Total Penalty | | | | | | | |



Simulated timekeeping exercise

- You record the code board at RCA and then find marshals at PC2. What do you do?
- Get the RC and PC signed (PC2 is the next manned control)

| Comp Use | Control | Miles | Time | Code Board | Time | Signature | Penalty |
|---------------|---------|-------|------|------------|------|-------------|---------|
| 2101 | MTC1 | 0 | 0 | | 2101 | P Watts | |
| 2117 | TC2 | 8 | 16 | | 2117 | A Frame | |
| | PC1 | | | - | | T Marsh | |
| | RCA | | | EOR | | A Lillicrap | |
| | PC2 | | | - | | A Lillicrap | |
| | RCB | | | | | | |
| (2135) | TC3 | 9 | 18 | | | | |
| | PC3 | | | | | | |
| | RCC | | | | | | |
| (2143) | TC4 | 4 | 8 | | | | |
| | RCD | | | | | | |
| | RCE | | | | | | |
| | PC4 | | | | | | |
| (2151) | TC4a | 4 | 8 | | | | |
| (2155) | NTC4b | 0.25 | 4 | | | | |
| (2159) | TC5 | 2 | 4 | | | | |
| | RCF | | | | | | |
| | RCG | | | | | | |
| | PC5 | | | | | | |
| | RCH | | | | | | |
| | PC6 | | | | | | |
| | RCI | | | | | | |
| | RCJ | | | | | | |
| (2219) | MTC6 | 10 | 20 | | | | |
| Total Penalty | | | | | | | |



Simulated timekeeping exercise

- You collect RCB and are now approaching TC3. Your due time is?

| Comp Use | Control | Miles | Time | Code Board | Time | Signature | Penalty |
|---------------|---------|-------|------|------------|------|-------------|---------|
| 2101 | MTC1 | 0 | 0 | | 2101 | P Watts | |
| 2117 | TC2 | 8 | 16 | | 2117 | A Frame | |
| | PC1 | | | - | | T Marsh | |
| | RCA | | | EOR | | A Lillicrap | |
| | PC2 | | | - | | A Lillicrap | |
| | RCB | | | AMS1 | | | |
| (2135) | TC3 | 9 | 18 | | | | |
| | PC3 | | | | | | |
| | RCC | | | | | | |
| (2143) | TC4 | 4 | 8 | | | | |
| | RCD | | | | | | |
| | RCE | | | | | | |
| | PC4 | | | | | | |
| (2151) | TC4a | 4 | 8 | | | | |
| (2155) | NTC4b | 0.25 | 4 | | | | |
| (2159) | TC5 | 2 | 4 | | | | |
| | RCF | | | | | | |
| | RCG | | | | | | |
| | PC5 | | | | | | |
| | RCH | | | | | | |
| | PC6 | | | | | | |
| | RCI | | | | | | |
| | RCJ | | | | | | |
| (2219) | MTC6 | 10 | 20 | | | | |
| Total Penalty | | | | | | | |



Simulated timekeeping exercise

- You collect RCB and are now approaching TC3. Your due time is?
- 2135

| Comp Use | Control | Miles | Time | Code Board | Time | Signature | Penalty |
|---------------|---------|-------|------|------------|------|-------------|---------|
| 2101 | MTC1 | 0 | 0 | | 2101 | P Watts | |
| 2117 | TC2 | 8 | 16 | | 2117 | A Frame | |
| | PC1 | | | - | | T Marsh | |
| | RCA | | | EOR | | A Lillicrap | |
| | PC2 | | | - | | A Lillicrap | |
| | RCB | | | AMS1 | | | |
| (2135) | TC3 | 9 | 18 | | | | |
| | PC3 | | | | | | |
| | RCC | | | | | | |
| (2143) | TC4 | 4 | 8 | | | | |
| | RCD | | | | | | |
| | RCE | | | | | | |
| | PC4 | | | | | | |
| (2151) | TC4a | 4 | 8 | | | | |
| (2155) | NTC4b | 0.25 | 4 | | | | |
| (2159) | TC5 | 2 | 4 | | | | |
| | RCF | | | | | | |
| | RCG | | | | | | |
| | PC5 | | | | | | |
| | RCH | | | | | | |
| | PC6 | | | | | | |
| | RCI | | | | | | |
| | RCJ | | | | | | |
| (2219) | MTC6 | 10 | 20 | | | | |
| Total Penalty | | | | | | | |



Simulated timekeeping exercise

- You collect RCB and are now approaching TC3. Your due time is?
- 2135
- 2135 has gone by and you arrive at 2137. What do you do?

| Comp Use | Control | Miles | Time | Code Board | Time | Signature | Penalty |
|---------------|---------|-------|------|------------|------|-------------|---------|
| 2101 | MTC1 | 0 | 0 | | 2101 | P Watts | |
| 2117 | TC2 | 8 | 16 | | 2117 | A Frame | |
| | PC1 | | | - | | T Marsh | |
| | RCA | | | EOR | | A Lillicrap | |
| | PC2 | | | - | | A Lillicrap | |
| | RCB | | | AMS1 | | | |
| (2135) | TC3 | 9 | 18 | | | | |
| | PC3 | | | | | | |
| | RCC | | | | | | |
| (2143) | TC4 | 4 | 8 | | | | |
| | RCD | | | | | | |
| | RCE | | | | | | |
| | PC4 | | | | | | |
| (2151) | TC4a | 4 | 8 | | | | |
| (2155) | NTC4b | 0.25 | 4 | | | | |
| (2159) | TC5 | 2 | 4 | | | | |
| | RCF | | | | | | |
| | RCG | | | | | | |
| | PC5 | | | | | | |
| | RCH | | | | | | |
| | PC6 | | | | | | |
| | RCI | | | | | | |
| | RCJ | | | | | | |
| (2219) | MTC6 | 10 | 20 | | | | |
| Total Penalty | | | | | | | |



- You collect RCB and are now approaching TC3. Your due time is?
- 2135
- 2135 has gone by and you arrive at 2137. What do you do?
- Take 2137 (2 mins penalty) and remember to get RCB signed

Total Penalty

Simulated timekeeping exercise

- As you have dropped 2 mins how will this affect your due time at TC4?

| Comp Use | Control | Miles | Time | Code Board | Time | Signature | Penalty |
|---------------|---------|-------|------|------------|------|-------------|---------|
| 2101 | MTC1 | 0 | 0 | | 2101 | P Watts | |
| 2117 | TC2 | 8 | 16 | | 2117 | A Frame | |
| | PC1 | | | - | | T Marsh | |
| | RCA | | | EOR | | A Lillicrap | |
| | PC2 | | | - | | A Lillicrap | |
| | RCB | | | AMS1 | | C Perry | |
| (2135) | TC3 | 9 | 18 | | 2137 | C Perry | 2 |
| | PC3 | | | | | | |
| | RCC | | | | | | |
| (2143) | TC4 | 4 | 8 | | | | |
| | RCD | | | | | | |
| | RCE | | | | | | |
| | PC4 | | | | | | |
| (2151) | TC4a | 4 | 8 | | | | |
| (2155) | NTC4b | 0.25 | 4 | | | | |
| (2159) | TC5 | 2 | 4 | | | | |
| | RCF | | | | | | |
| | RCG | | | | | | |
| | PC5 | | | | | | |
| | RCH | | | | | | |
| | PC6 | | | | | | |
| | RCI | | | | | | |
| | RCJ | | | | | | |
| (2219) | MTC6 | 10 | 20 | | | | |
| Total Penalty | | | | | | | |



Simulated timekeeping exercise

- As you have dropped 2 mins how will this affect your due time at TC4?
- Your due time at TC4 will be 2 minutes later than your scheduled time. You cannot make that time back

| Comp Use | Control | Miles | Time | Code Board | Time | Signature | Penalty |
|---------------|---------|-------|------|------------|------|-------------|---------|
| 2101 | MTC1 | 0 | 0 | | 2101 | P Watts | |
| 2117 | TC2 | 8 | 16 | | 2117 | A Frame | |
| | PC1 | | | - | | T Marsh | |
| | RCA | | | EOR | | A Lillicrap | |
| | PC2 | | | - | | A Lillicrap | |
| | RCB | | | AMS1 | | C Perry | |
| (2135) | TC3 | 9 | 18 | | 2137 | C Perry | 2 |
| | PC3 | | | | | | |
| | RCC | | | | | | |
| (2143)2145 | TC4 | 4 | 8 | | | | |
| | RCD | | | | | | |
| | RCE | | | | | | |
| | PC4 | | | | | | |
| (2151) | TC4a | 4 | 8 | | | | |
| (2155) | NTC4b | 0.25 | 4 | | | | |
| (2159) | TC5 | 2 | 4 | | | | |
| | RCF | | | | | | |
| | RCG | | | | | | |
| | PC5 | | | | | | |
| | RCH | | | | | | |
| | PC6 | | | | | | |
| | RCI | | | | | | |
| | RCJ | | | | | | |
| (2219) | MTC6 | 10 | 20 | | | | |
| Total Penalty | | | | | | | |



Simulated timekeeping exercise

- You arrive at PC3 to discover a code board and no marshals. What has happened?

| Comp Use | Control | Miles | Time | Code Board | Time | Signature | Penalty |
|---------------|---------|-------|------|------------|------|-------------|---------|
| 2101 | MTC1 | 0 | 0 | | 2101 | P Watts | |
| 2117 | TC2 | 8 | 16 | | 2117 | A Frame | |
| | PC1 | | | - | | T Marsh | |
| | RCA | | | EOR | | A Lillicrap | |
| | PC2 | | | - | | A Lillicrap | |
| | RCB | | | AMS1 | | C Perry | |
| (2135) | TC3 | 9 | 18 | | 2137 | C Perry | 2 |
| | PC3 | | | MK51 | | | |
| | RCC | | | | | | |
| (2143)2145 | TC4 | 4 | 8 | | | | |
| | RCD | | | | | | |
| | RCE | | | | | | |
| | PC4 | | | | | | |
| (2151) | TC4a | 4 | 8 | | | | |
| (2155) | NTC4b | 0.25 | 4 | | | | |
| (2159) | TC5 | 2 | 4 | | | | |
| | RCF | | | | | | |
| | RCG | | | | | | |
| | PC5 | | | | | | |
| | RCH | | | | | | |
| | PC6 | | | | | | |
| | RCI | | | | | | |
| | RCJ | | | | | | |
| (2219) | MTC6 | 10 | 20 | | | | |
| Total Penalty | | | | | | | |



Simulated timekeeping exercise

- You arrive at PC3 to discover a code board and no marshals. What has happened?
- The PC has been downgraded to a RC – not unusual!

| Comp Use | Control | Miles | Time | Code Board | Time | Signature | Penalty |
|---------------|---------|-------|------|------------|------|-------------|---------|
| 2101 | MTC1 | 0 | 0 | | 2101 | P Watts | |
| 2117 | TC2 | 8 | 16 | | 2117 | A Frame | |
| | PC1 | | | - | | T Marsh | |
| | RCA | | | EOR | | A Lillicrap | |
| | PC2 | | | - | | A Lillicrap | |
| | RCB | | | AMS1 | | C Perry | |
| (2135) | TC3 | 9 | 18 | | 2137 | C Perry | 2 |
| | PC3 | | | MK51 | | | |
| | RCC | | | | | | |
| (2143)2145 | TC4 | 4 | 8 | | | | |
| | RCD | | | | | | |
| | RCE | | | | | | |
| | PC4 | | | | | | |
| (2151) | TC4a | 4 | 8 | | | | |
| (2155) | NTC4b | 0.25 | 4 | | | | |
| (2159) | TC5 | 2 | 4 | | | | |
| | RCF | | | | | | |
| | RCG | | | | | | |
| | PC5 | | | | | | |
| | RCH | | | | | | |
| | PC6 | | | | | | |
| | RCI | | | | | | |
| | RCJ | | | | | | |
| (2219) | MTC6 | 10 | 20 | | | | |
| Total Penalty | | | | | | | |



- You arrive at PC3 to discover a code board and no marshals. What has happened?
- The PC has been downgraded to a RC – not unusual!
- You complete the section on time, remembering to get the marshal to sign your two code boards

Total Penalty

Simulated timekeeping exercise

- Your due time at TC4a is?

| Comp Use | Control | Miles | Time | Code Board | Time | Signature | Penalty |
|---------------|---------|-------|------|------------|------|-------------|---------|
| 2101 | MTC1 | 0 | 0 | | 2101 | P Watts | |
| 2117 | TC2 | 8 | 16 | | 2117 | A Frame | |
| | PC1 | | | - | | T Marsh | |
| | RCA | | | EOR | | A Lillicrap | |
| | PC2 | | | - | | A Lillicrap | |
| | RCB | | | AMS1 | | C Perry | |
| (2135) | TC3 | 9 | 18 | | 2137 | C Perry | 2 |
| | PC3 | | | MK51 | | T Owen | |
| | RCC | | | AO66 | | T Owen | |
| (2143)2145 | TC4 | 4 | 8 | | 2145 | T Owen | |
| | RCD | | | | | | |
| | RCE | | | | | | |
| | PC4 | | | | | | |
| (2151) | TC4a | 4 | 8 | | | | |
| (2155) | NTC4b | 0.25 | 4 | | | | |
| (2159) | TC5 | 2 | 4 | | | | |
| | RCF | | | | | | |
| | RCG | | | | | | |
| | PC5 | | | | | | |
| | RCH | | | | | | |
| | PC6 | | | | | | |
| | RCI | | | | | | |
| | RCJ | | | | | | |
| (2219) | MTC6 | 10 | 20 | | | | |
| Total Penalty | | | | | | | |



Simulated timekeeping exercise

- Your due time at TC4a is?
- $2145 + 8 = 2153$

| Comp Use | Control | Miles | Time | Code Board | Time | Signature | Penalty |
|---------------|---------|-------|------|------------|------|-------------|---------|
| 2101 | MTC1 | 0 | 0 | | 2101 | P Watts | |
| 2117 | TC2 | 8 | 16 | | 2117 | A Frame | |
| | PC1 | | | - | | T Marsh | |
| | RCA | | | EOR | | A Lillicrap | |
| | PC2 | | | - | | A Lillicrap | |
| | RCB | | | AMS1 | | C Perry | |
| (2135) | TC3 | 9 | 18 | | 2137 | C Perry | 2 |
| | PC3 | | | MK51 | | T Owen | |
| | RCC | | | AO66 | | T Owen | |
| (2143)2145 | TC4 | 4 | 8 | | 2145 | T Owen | |
| | RCD | | | | | | |
| | RCE | | | | | | |
| | PC4 | | | | | | |
| (2151)2153 | TC4a | 4 | 8 | | | | |
| (2155) | NTC4b | 0.25 | 4 | | | | |
| (2159) | TC5 | 2 | 4 | | | | |
| | RCF | | | | | | |
| | RCG | | | | | | |
| | PC5 | | | | | | |
| | RCH | | | | | | |
| | PC6 | | | | | | |
| | RCI | | | | | | |
| | RCJ | | | | | | |
| (2219) | MTC6 | 10 | 20 | | | | |
| Total Penalty | | | | | | | |



Simulated timekeeping exercise

- On your way through this section you miss RCE and get baulked by another car, its too late to go back, you take the penalty and arrive at TC4a one minute late

| Comp Use | Control | Miles | Time | Code Board | Time | Signature | Penalty |
|---------------|---------|-------|------|------------|------|-------------|---------|
| 2101 | MTC1 | 0 | 0 | | 2101 | P Watts | |
| 2117 | TC2 | 8 | 16 | | 2117 | A Frame | |
| | PC1 | | | - | | T Marsh | |
| | RCA | | | EOR | | A Lillicrap | |
| | PC2 | | | - | | A Lillicrap | |
| | RCB | | | AMS1 | | C Perry | |
| (2135) | TC3 | 9 | 18 | | 2137 | C Perry | 2 |
| | PC3 | | | MK51 | | T Owen | |
| | RCC | | | AO66 | | T Owen | |
| (2143)2145 | TC4 | 4 | 8 | | 2145 | T Owen | |
| | RCD | | | SFE | | A Brooks | |
| | RCE | | | X | | A Brooks | 5 |
| | PC4 | | | - | | A Brooks | |
| (2151)2153 | TC4a | 4 | 8 | | 2154 | J Rowe | 1 |
| (2155) | NTC4b | 0.25 | 4 | | | | |
| (2159) | TC5 | 2 | 4 | | | | |
| | RCF | | | | | | |
| | RCG | | | | | | |
| | PC5 | | | | | | |
| | RCH | | | | | | |
| | PC6 | | | | | | |
| | RCI | | | | | | |
| | RCJ | | | | | | |
| (2219) | MTC6 | 10 | 20 | | | | |
| Total Penalty | | | | | | | |



Simulated timekeeping exercise

- On your way through this section you miss RCE and get baulked by another car, its too late to go back, you take the penalty and arrive at TC4a one minute late
- Your due time at NTC4b is?

| Comp Use | Control | Miles | Time | Code Board | Time | Signature | Penalty |
|---------------|---------|-------|------|------------|------|-------------|---------|
| 2101 | MTC1 | 0 | 0 | | 2101 | P Watts | |
| 2117 | TC2 | 8 | 16 | | 2117 | A Frame | |
| | PC1 | | | - | | T Marsh | |
| | RCA | | | EOR | | A Lillicrap | |
| | PC2 | | | - | | A Lillicrap | |
| | RCB | | | AMS1 | | C Perry | |
| (2135) | TC3 | 9 | 18 | | 2137 | C Perry | 2 |
| | PC3 | | | MK51 | | T Owen | |
| | RCC | | | AO66 | | T Owen | |
| (2143)2145 | TC4 | 4 | 8 | | 2145 | T Owen | |
| | RCD | | | SFE | | A Brooks | |
| | RCE | | | X | | A Brooks | 5 |
| | PC4 | | | - | | A Brooks | |
| (2151)2153 | TC4a | 4 | 8 | | 2154 | J Rowe | 1 |
| (2155) | NTC4b | 0.25 | 4 | | | | |
| (2159) | TC5 | 2 | 4 | | | | |
| | RCF | | | | | | |
| | RCG | | | | | | |
| | PC5 | | | | | | |
| | RCH | | | | | | |
| | PC6 | | | | | | |
| | RCI | | | | | | |
| | RCJ | | | | | | |
| (2219) | MTC6 | 10 | 20 | | | | |
| Total Penalty | | | | | | | |



Simulated timekeeping exercise

- This section is Neutral. You cruise through (dipped lights, high gear), calculate your next due time, eat some wine gums, and book in on time. NEVER book in early to an NTC, you face exclusion

| Comp Use | Control | Miles | Time | Code Board | Time | Signature | Penalty |
|---------------|---------|-------|------|------------|------|-------------|---------|
| 2101 | MTC1 | 0 | 0 | | 2101 | P Watts | |
| 2117 | TC2 | 8 | 16 | | 2117 | A Frame | |
| | PC1 | | | - | | T Marsh | |
| | RCA | | | EOR | | A Lillcrap | |
| | PC2 | | | - | | A Lillcrap | |
| | RCB | | | AMS1 | | C Perry | |
| (2135) | TC3 | 9 | 18 | | 2137 | C Perry | 2 |
| | PC3 | | | MK51 | | T Owen | |
| | RCC | | | AO66 | | T Owen | |
| (2143)2145 | TC4 | 4 | 8 | | 2145 | T Owen | |
| | RCD | | | SFE | | A Brooks | |
| | RCE | | | X | | A Brooks | 5 |
| | PC4 | | | - | | A Brooks | |
| (2151)2153 | TC4a | 4 | 8 | | 2154 | J Rowe | 1 |
| (2155)2158 | NTC4b | 0.25 | 4 | | 2158 | M Treleaven | |
| (2159)2202 | TC5 | 2 | 4 | | | | |
| | RCF | | | | | | |
| | RCG | | | | | | |
| | PC5 | | | | | | |
| | RCH | | | | | | |
| | PC6 | | | | | | |
| | RCI | | | | | | |
| | RCJ | | | | | | |
| (2219) | MTC6 | 10 | 20 | | | | |
| Total Penalty | | | | | | | |



Simulated timekeeping exercise

- The next section uses a long white, designed to take time out of you and you arrive at TC5 two minutes late

| Comp Use | Control | Miles | Time | Code Board | Time | Signature | Penalty |
|---------------|---------|-------|------|------------|------|-------------|---------|
| 2101 | MTC1 | 0 | 0 | | 2101 | P Watts | |
| 2117 | TC2 | 8 | 16 | | 2117 | A Frame | |
| | PC1 | | | - | | T Marsh | |
| | RCA | | | EOR | | A Lillicrap | |
| | PC2 | | | - | | A Lillicrap | |
| | RCB | | | AMS1 | | C Perry | |
| (2135) | TC3 | 9 | 18 | | 2137 | C Perry | 2 |
| | PC3 | | | MK51 | | T Owen | |
| | RCC | | | AO66 | | T Owen | |
| (2143)2145 | TC4 | 4 | 8 | | 2145 | T Owen | |
| | RCD | | | SFE | | A Brooks | |
| | RCE | | | X | | A Brooks | 5 |
| | PC4 | | | - | | A Brooks | |
| (2151)2153 | TC4a | 4 | 8 | | 2154 | J Rowe | 1 |
| (2155)2158 | NTC4b | 0.25 | 4 | | 2158 | M Treleaven | |
| (2159)2202 | TC5 | 2 | 4 | | 2204 | J Locke | 2 |
| | RCF | | | | | | |
| | RCG | | | | | | |
| | PC5 | | | | | | |
| | RCH | | | | | | |
| | PC6 | | | | | | |
| | RCI | | | | | | |
| | RCJ | | | | | | |
| (2219) | MTC6 | 10 | 20 | | | | |
| Total Penalty | | | | | | | |



Simulated timekeeping exercise

- The next section uses a long white, designed to take time out of you and you arrive at TC5 two minutes late
- Your due time at MTC6 is?

| Comp Use | Control | Miles | Time | Code Board | Time | Signature | Penalty |
|---------------|---------|-------|------|------------|------|------------|---------|
| 2101 | MTC1 | 0 | 0 | | 2101 | P Watts | |
| 2117 | TC2 | 8 | 16 | | 2117 | A Frame | |
| | PC1 | | | - | | T Marsh | |
| | RCA | | | EOR | | A Lillcrap | |
| | PC2 | | | - | | A Lillcrap | |
| | RCB | | | AMS1 | | C Perry | |
| (2135) | TC3 | 9 | 18 | | 2137 | C Perry | 2 |
| | PC3 | | | MK51 | | T Owen | |
| | RCC | | | AO66 | | T Owen | |
| (2143)2145 | TC4 | 4 | 8 | | 2145 | T Owen | |
| | RCD | | | SFE | | A Brooks | |
| | RCE | | | X | | A Brooks | 5 |
| | PC4 | | | - | | A Brooks | |
| (2151)2153 | TC4a | 4 | 8 | | 2154 | J Rowe | 1 |
| (2155)2158 | NTC4b | 0.25 | 4 | | 2158 | M Treleven | |
| (2159)2202 | TC5 | 2 | 4 | | 2204 | J Locke | 2 |
| | RCF | | | | | | |
| | RCG | | | | | | |
| | PC5 | | | | | | |
| | RCH | | | | | | |
| | PC6 | | | | | | |
| | RCI | | | | | | |
| | RCJ | | | | | | |
| (2219) | MTC6 | 10 | 20 | | | | |
| Total Penalty | | | | | | | |



Simulated timekeeping exercise

- The next section uses a long white, designed to take time out of you and you arrive at TC5 two minutes late
- Your due time at MTC6 is?
- $2204 + 20 = 2224$

| Comp Use | Control | Miles | Time | Code Board | Time | Signature | Penalty |
|---------------|---------|-------|------|------------|------|-------------|---------|
| 2101 | MTC1 | 0 | 0 | | 2101 | P Watts | |
| 2117 | TC2 | 8 | 16 | | 2117 | A Frame | |
| | PC1 | | | - | | T Marsh | |
| | RCA | | | EOR | | A Lillcrap | |
| | PC2 | | | - | | A Lillcrap | |
| | RCB | | | AMS1 | | C Perry | |
| (2135) | TC3 | 9 | 18 | | 2137 | C Perry | 2 |
| | PC3 | | | MK51 | | T Owen | |
| | RCC | | | AO66 | | T Owen | |
| (2143)2145 | TC4 | 4 | 8 | | 2145 | T Owen | |
| | RCD | | | SFE | | A Brooks | |
| | RCE | | | X | | A Brooks | 5 |
| | PC4 | | | - | | A Brooks | |
| (2151)2153 | TC4a | 4 | 8 | | 2154 | J Rowe | 1 |
| (2155)2158 | NTC4b | 0.25 | 4 | | 2158 | M Treleaven | |
| (2159)2202 | TC5 | 2 | 4 | | 2204 | J Locke | 2 |
| | RCF | | | | | | |
| | RCG | | | | | | |
| | PC5 | | | | | | |
| | RCH | | | | | | |
| | PC6 | | | | | | |
| | RCI | | | | | | |
| | RCJ | | | | | | |
| (2219)2224 | MTC6 | 10 | 20 | | | | |
| Total Penalty | | | | | | | |



Simulated timekeeping exercise

- In this section you collect RCF and RCG but forget to ask the next marshal at PC5 to sign your code boards...

| Comp Use | Control | Miles | Time | Code Board | Time | Signature | Penalty |
|---------------|---------|-------|------|------------|------|-------------|---------|
| 2101 | MTC1 | 0 | 0 | | 2101 | P Watts | |
| 2117 | TC2 | 8 | 16 | | 2117 | A Frame | |
| | PC1 | | | - | | T Marsh | |
| | RCA | | | EOR | | A Lillcrap | |
| | PC2 | | | - | | A Lillcrap | |
| | RCB | | | AMS1 | | C Perry | |
| (2135) | TC3 | 9 | 18 | | 2137 | C Perry | 2 |
| | PC3 | | | MK51 | | T Owen | |
| | RCC | | | AO66 | | T Owen | |
| (2143)2145 | TC4 | 4 | 8 | | 2145 | T Owen | |
| | RCD | | | SFE | | A Brooks | |
| | RCE | | | X | | A Brooks | 5 |
| | PC4 | | | - | | A Brooks | |
| (2151)2153 | TC4a | 4 | 8 | | 2154 | J Rowe | 1 |
| (2155)2158 | NTC4b | 0.25 | 4 | | 2158 | M Treleaven | |
| (2159)2202 | TC5 | 2 | 4 | | 2204 | J Locke | 2 |
| | RCF | | | VXR | | | 5 |
| | RCG | | | K155 | | | 5 |
| | PC5 | | | - | | R Brooks | |
| | RCH | | | | | | |
| | PC6 | | | | | | |
| | RCI | | | | | | |
| | RCJ | | | | | | |
| (2219)2224 | MTC6 | 10 | 20 | | | | |
| Total Penalty | | | | | | | |



Simulated timekeeping exercise

- In this section you collect RCF and RCG but forget to ask the next marshal at PC5 to sign your code boards...
- You then approach PC6 from the wrong direction!

| Comp Use | Control | Miles | Time | Code Board | Time | Signature | Penalty |
|---------------|---------|-------|------|------------|------|--------------|---------|
| 2101 | MTC1 | 0 | 0 | | 2101 | P Watts | |
| 2117 | TC2 | 8 | 16 | | 2117 | A Frame | |
| | PC1 | | | - | | T Marsh | |
| | RCA | | | EOR | | A Lillcrap | |
| | PC2 | | | - | | A Lillcrap | |
| | RCB | | | AMS1 | | C Perry | |
| (2135) | TC3 | 9 | 18 | | 2137 | C Perry | 2 |
| | PC3 | | | MK51 | | T Owen | |
| | RCC | | | AO66 | | T Owen | |
| (2143)2145 | TC4 | 4 | 8 | | 2145 | T Owen | |
| | RCD | | | SFE | | A Brooks | |
| | RCE | | | X | | A Brooks | 5 |
| | PC4 | | | - | | A Brooks | |
| (2151)2153 | TC4a | 4 | 8 | | 2154 | J Rowe | 1 |
| (2155)2158 | NTC4b | 0.25 | 4 | | 2158 | M Treleaven | |
| (2159)2202 | TC5 | 2 | 4 | | 2204 | J Locke | 2 |
| | RCF | | | VXR | | | 5 |
| | RCG | | | K155 | | | 5 |
| | PC5 | | | - | | R Brooks | |
| | RCH | | | B3NT | | K Wills | |
| | PC6 | | | - | | K Wills (WA) | 15 |
| | RCI | | | | | | |
| | RCJ | | | | | | |
| (2219)2224 | MTC6 | 10 | 20 | | | | |
| Total Penalty | | | | | | | |



Simulated timekeeping exercise

- Puncture! You fix it but your late.

| Comp Use | Control | Miles | Time | Code Board | Time | Signature | Penalty |
|---------------|---------|-------|------|------------|------|--------------|---------|
| 2101 | MTC1 | 0 | 0 | | 2101 | P Watts | |
| 2117 | TC2 | 8 | 16 | | 2117 | A Frame | |
| | PC1 | | | - | | T Marsh | |
| | RCA | | | EOR | | A Lillcrap | |
| | PC2 | | | - | | A Lillcrap | |
| | RCB | | | AMS1 | | C Perry | |
| (2135) | TC3 | 9 | 18 | | 2137 | C Perry | 2 |
| | PC3 | | | MK51 | | T Owen | |
| | RCC | | | AO66 | | T Owen | |
| (2143)2145 | TC4 | 4 | 8 | | 2145 | T Owen | |
| | RCD | | | SFE | | A Brooks | |
| | RCE | | | X | | A Brooks | 5 |
| | PC4 | | | - | | A Brooks | |
| (2151)2153 | TC4a | 4 | 8 | | 2154 | J Rowe | 1 |
| (2155)2158 | NTC4b | 0.25 | 4 | | 2158 | M Treleaven | |
| (2159)2202 | TC5 | 2 | 4 | | 2204 | J Locke | 2 |
| | RCF | | | VXR | | | 5 |
| | RCG | | | K155 | | | 5 |
| | PC5 | | | - | | R Brooks | |
| | RCH | | | B3NT | | K Wills | |
| | PC6 | | | - | | K Wills (WA) | 15 |
| | RCI | | | | | | |
| | RCJ | | | | | | |
| (2219)2224 | MTC6 | 10 | 20 | | | | |
| Total Penalty | | | | | | | |



Simulated timekeeping exercise

- Puncture! You fix it but your late.
- Your scheduled time at MTC6 is 2219, that means your OTL time is?

| Comp Use | Control | Miles | Time | Code Board | Time | Signature | Penalty |
|---------------|---------|-------|------|------------|------|--------------|---------|
| 2101 | MTC1 | 0 | 0 | | 2101 | P Watts | |
| 2117 | TC2 | 8 | 16 | | 2117 | A Frame | |
| | PC1 | | | - | | T Marsh | |
| | RCA | | | EOR | | A Lillcrap | |
| | PC2 | | | - | | A Lillcrap | |
| | RCB | | | AMS1 | | C Perry | |
| (2135) | TC3 | 9 | 18 | | 2137 | C Perry | 2 |
| | PC3 | | | MK51 | | T Owen | |
| | RCC | | | AO66 | | T Owen | |
| (2143)2145 | TC4 | 4 | 8 | | 2145 | T Owen | |
| | RCD | | | SFE | | A Brooks | |
| | RCE | | | X | | A Brooks | 5 |
| | PC4 | | | - | | A Brooks | |
| (2151)2153 | TC4a | 4 | 8 | | 2154 | J Rowe | 1 |
| (2155)2158 | NTC4b | 0.25 | 4 | | 2158 | M Treleaven | |
| (2159)2202 | TC5 | 2 | 4 | | 2204 | J Locke | 2 |
| | RCF | | | VXR | | | 5 |
| | RCG | | | K155 | | | 5 |
| | PC5 | | | - | | R Brooks | |
| | RCH | | | B3NT | | K Wills | |
| | PC6 | | | - | | K Wills (WA) | 15 |
| | RCI | | | | | | |
| | RCJ | | | | | | |
| (2219)2224 | MTC6 | 10 | 20 | | | | |
| Total Penalty | | | | | | | |



Simulated timekeeping exercise

- Puncture! You fix it but your late.
- Your scheduled time at MTC6 is 2219, that means your OTL time is?
- $2219 + 30 = 2249$

| Comp Use | Control | Miles | Time | Code Board | Time | Signature | Penalty |
|---------------|---------|-------|------|------------|------|--------------|---------|
| 2101 | MTC1 | 0 | 0 | | 2101 | P Watts | |
| 2117 | TC2 | 8 | 16 | | 2117 | A Frame | |
| | PC1 | | | - | | T Marsh | |
| | RCA | | | EOR | | A Lillcrap | |
| | PC2 | | | - | | A Lillcrap | |
| | RCB | | | AMS1 | | C Perry | |
| (2135) | TC3 | 9 | 18 | | 2137 | C Perry | 2 |
| | PC3 | | | MK51 | | T Owen | |
| | RCC | | | AO66 | | T Owen | |
| (2143)2145 | TC4 | 4 | 8 | | 2145 | T Owen | |
| | RCD | | | SFE | | A Brooks | |
| | RCE | | | X | | A Brooks | 5 |
| | PC4 | | | - | | A Brooks | |
| (2151)2153 | TC4a | 4 | 8 | | 2154 | J Rowe | 1 |
| (2155)2158 | NTC4b | 0.25 | 4 | | 2158 | M Treleaven | |
| (2159)2202 | TC5 | 2 | 4 | | 2204 | J Locke | 2 |
| | RCF | | | VXR | | | 5 |
| | RCG | | | K155 | | | 5 |
| | PC5 | | | - | | R Brooks | |
| | RCH | | | B3NT | | K Wills | |
| | PC6 | | | - | | K Wills (WA) | 15 |
| | RCI | | | | | | |
| | RCJ | | | | | | |
| (2219)2224 | MTC6 | 10 | 20 | | | | |
| Total Penalty | | | | | | | |



- Puncture! You fix it but your late.
- Your scheduled time at MTC6 is 2219, that means your OTL time is?
- $2219 + 30 = 2249$
- Its 2244. you can drive two miles to MTC6 or three miles to get RCI and RCJ. What do you do?

Total Penalty

Simulated timekeeping exercise

- Puncture! You fix it but your late.
- Your scheduled time at MTC6 is 2219, that means your OTL time is?
- $2219 + 30 = 2249$
- Its 2244. you can drive two miles to MTC6 or three miles to get RCI and RCJ. What do you do?
- Avoid OTL of course!



| Comp Use | Control | Miles | Time | Code Board | Time | Signature | Penalty |
|---------------|---------|-------|------|------------|------|--------------|---------|
| 2101 | MTC1 | 0 | 0 | | 2101 | P Watts | |
| 2117 | TC2 | 8 | 16 | | 2117 | A Frame | |
| | PC1 | | | - | | T Marsh | |
| | RCA | | | EOR | | A Lillicrap | |
| | PC2 | | | - | | A Lillicrap | |
| | RCB | | | AMS1 | | C Perry | |
| (2135) | TC3 | 9 | 18 | | 2137 | C Perry | 2 |
| | PC3 | | | MK51 | | T Owen | |
| | RCC | | | AO66 | | T Owen | |
| (2143)2145 | TC4 | 4 | 8 | | 2145 | T Owen | |
| | RCD | | | SFE | | A Brooks | |
| | RCE | | | X | | A Brooks | 5 |
| | PC4 | | | - | | A Brooks | |
| (2151)2153 | TC4a | 4 | 8 | | 2154 | J Rowe | 1 |
| (2155)2158 | NTC4b | 0.25 | 4 | | 2158 | M Treleaven | |
| (2159)2202 | TC5 | 2 | 4 | | 2204 | J Locke | 2 |
| | RCF | | | VXR | | | 5 |
| | RCG | | | KI55 | | | 5 |
| | PC5 | | | - | | R Brooks | |
| | RCH | | | B3NT | | K Wills | |
| | PC6 | | | - | | K Wills (WA) | 15 |
| | RCI | | | X | | | |
| | RCJ | | | X | | | |
| (2219)2224 | MTC6 | 10 | 20 | | | | |
| Total Penalty | | | | | | | |

Simulated timekeeping exercise

- You make it to the end with one minute to spare and a total penalty of....?

| Comp Use | Control | Miles | Time | Code Board | Time | Signature | Penalty |
|---------------|---------|-------|------|------------|------|--------------|---------|
| 2101 | MTC1 | 0 | 0 | | 2101 | P Watts | |
| 2117 | TC2 | 8 | 16 | | 2117 | A Frame | |
| | PC1 | | | - | | T Marsh | |
| | RCA | | | EOR | | A Lillcrap | |
| | PC2 | | | - | | A Lillcrap | |
| | RCB | | | AMS1 | | C Perry | |
| (2135) | TC3 | 9 | 18 | | 2137 | C Perry | 2 |
| | PC3 | | | MK51 | | T Owen | |
| | RCC | | | AO66 | | T Owen | |
| (2143)2145 | TC4 | 4 | 8 | | 2145 | T Owen | |
| | RCD | | | SFE | | A Brooks | |
| | RCE | | | X | | A Brooks | 5 |
| | PC4 | | | - | | A Brooks | |
| (2151)2153 | TC4a | 4 | 8 | | 2154 | J Rowe | 1 |
| (2155)2158 | NTC4b | 0.25 | 4 | | 2158 | M Treleaven | |
| (2159)2202 | TC5 | 2 | 4 | | 2204 | J Locke | 2 |
| | RCF | | | VXR | | | 5 |
| | RCG | | | K155 | | | 5 |
| | PC5 | | | - | | R Brooks | |
| | RCH | | | B3NT | | K Wills | |
| | PC6 | | | - | | K Wills (WA) | 15 |
| | RCI | | | X | | S Loeb | 5 |
| | RCJ | | | X | | S Loeb | 5 |
| (2219)2224 | MTC6 | 10 | 20 | | 2248 | S Loeb | 24 |
| Total Penalty | | | | | | | |



Simulated timekeeping exercise

- You make it to the end with one minute to spare and a total penalty of....?
- 69! Well done, people have won events with higher scores! Never give up!

| Comp Use | Control | Miles | Time | Code Board | Time | Signature | Penalty |
|---------------|---------|-------|------|------------|------|--------------|---------|
| 2101 | MTC1 | 0 | 0 | | 2101 | P Watts | |
| 2117 | TC2 | 8 | 16 | | 2117 | A Frame | |
| | PC1 | | | - | | T Marsh | |
| | RCA | | | EOR | | A Lillcrap | |
| | PC2 | | | - | | A Lillcrap | |
| | RCB | | | AMS1 | | C Perry | |
| (2135) | TC3 | 9 | 18 | | 2137 | C Perry | 2 |
| | PC3 | | | MK51 | | T Owen | |
| | RCC | | | AO66 | | T Owen | |
| (2143)2145 | TC4 | 4 | 8 | | 2145 | T Owen | |
| | RCD | | | SFE | | A Brooks | |
| | RCE | | | X | | A Brooks | 5 |
| | PC4 | | | - | | A Brooks | |
| (2151)2153 | TC4a | 4 | 8 | | 2154 | J Rowe | 1 |
| (2155)2158 | NTC4b | 0.25 | 4 | | 2158 | M Treleaven | |
| (2159)2202 | TC5 | 2 | 4 | | 2204 | J Locke | 2 |
| | RCF | | | VXR | | | 5 |
| | RCG | | | K155 | | | 5 |
| | PC5 | | | - | | R Brooks | |
| | RCH | | | B3NT | | K Wills | |
| | PC6 | | | - | | K Wills (WA) | 15 |
| | RCI | | | X | | S Loeb | 5 |
| | RCJ | | | X | | S Loeb | 5 |
| (2219)2224 | MTC6 | 10 | 20 | | 2248 | S Loeb | 24 |
| Total Penalty | | | | | | | 69 |



