



**BRITISH  
GLIDING  
ASSOCIATION**

**BGA RULES FOR RATED  
COMPETITIONS**

**2021**

**Version 1.2**

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## FOREWORD

**Welcome to V 1.2 of the 2021 Rules for BGA Rated Competitions.** This new edition is due to a change to Rule 3.1 as follows:-

- **Airworthiness (3.1)** Change to bring these rules into line with IGC rules. See also 5.23.4

The following significant changes were made in V1.1 of the 2021 Rules.:-

- **Hors-Concours (2.1.7)** Requirement that HC entries to Nationals must have the prior approval of the Competition Organiser.
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- **Club Class Glider Eligibility (4.3.1)** A previous rule allowing suitable gliders not appearing on the IGC Club Class list to enter the UK Club Class Nationals has been reinstated.
- **Flight-Recorder Time Intervals (5.5.6)** Following technical advice regarding the performance of some common flight recorders, the default time interval of 1 second introduced in 2020 is increased to 2 seconds.
- **Radio Mandatory Zones (RMZs) (5.10.3 & 5.10.6)** RMZs added to excluded airspace unless a block exemption is obtained and briefed.
- **Temporary Danger Areas (TDAs) (5.10.3)** TDAs added to list of airspace types excluded by briefing.
- **Self-Launching Over-height Penalty (5.22.1 and 7.1)** The penalty applicable to over-height launches is now defined.
- **Additional Performance Enhancements (5.23.4)** Provisions regarding the addition of certain boundary-layer control technologies are removed.
- **WGC Team Selection 20m Two-Seat Class (6.2.3.2)** Wording changed to clarify that voting panel places from other classes are taken from the preceding two cycles of competition, not the preceding two years, as originally stated. See also Pre-announcement below.
- **Glider Speed Indices (7.3)** Due to the availability of measured (as opposed to estimated) data concerning the performance for the ASW20 series of gliders, several changes to the handicaps of these types have been made. In addition the Ventus 3 family has been revised to reflect the new S and P type-designations arising from the Sports and Performance fuselage options.

### **Pre-announcement of a rule change:- 20M Two Seat Class Team selection**

**(6.2.3.2) :-** To bring this class into line with the others, from the 2022 Nationals qualifying year onwards, pilots placing in the top 5 of other Nationals classes in that year will no longer additionally be included in the voting panel generated for WGC events in that class after 2022. This means that voting panel selection criteria for the 2022 WGC in this class will remain the same as currently but will change accordingly for WGC events thereafter.

The following changes were made in the 2020 edition. As no rated competitions were held in 2020, pilots are advised to make sure they familiarise themselves with these changes.

- **Airspace Types Excluded (5.10.3)** TMZs added.
- **Self-Sustainers Engine Test (5.22.2)** To improve the validity of this test for all engine types, the test period is increased from 30s to 60s.
- **Radio (5.12.1)** Following the publication of the new Gliding Channels announced in 2019, this section was amended to set out how they are to be used. Some additional amendments have been made to further clarify.
- **International Team Member Qualifications (6.2.2)** FAI requirements were not quoted accurately and clarification that additional BGA requirements may apply has been added.
- **Team Voting Procedure (6.2.8)** Reworded to clarify the procedure.
- **Glider Speed Indices (7.3)** HPH304 FES now included.
- **Women's World Championships 2022 (6.2.7)** With the Women's World Championships being held in the UK in 2022 there is an opportunity to broaden the team selection and have more pilots in the British Team. As a temporary measure for 2022 only, the basis for being considered for the WWGC22 team is similar to that used for the Junior team, with the team to be proposed in conjunction with British Team Coaches and Team Manager for approval by the BGA Competition and Awards sub-committee. This is consistent with the BGA strategy to better reflect the UK's demographics within gliding and to encourage accomplished pilots who might otherwise not be eligible for team selection.
- **Stewards (1.1.3)** Clarification that 3 stewards must be appointed.
- **FAI Competition Licence (2.1.1)** Clarification that HC entries must also hold an FAI Competition Licence.
- **Multi-Seaters (2.1.6)** Clarification that the registered pilot in a multi-seater must be no less proficient than any other occupant, not **more** proficient as in the previous wording.
- **20m Multi-Seat Nationals Entry Requirement (4.2.3)** Permission to allow a more proficient pilot to fly as P2 is removed.
- **FR Time Intervals (5.5.6)** Minimum time interval reduced from 6s to 1s with provision for older FRs to operate at an interval which allows 10 hours of recording provided this is agreed with the director in advance..
- **Finish Ring Minimum Altitude (5.9.3.2)** Following evidence that the penalties for finishing below min altitude at a finish ring were ineffective, the penalty volume is now restricted to 50ft below the stated minimum altitude, with no control (hence loss of speed points) for entering the ring below that. NB the control definition paragraph 5.9.6 has been altered accordingly.
- **ATZs (5.10.4)** Clarification that unauthorised entry to an ATZ attracts a penalty.

- **Protests (5.19)** The protest procedure has been completely rewritten to provide clear guidelines as to the rights and obligations of the parties involved. The new process requires the parties to have engaged in a dialogue before resorting to a formal protest and the protest fee has also been increased from £10, where it has been for many years, to “the cost of an aero-tow” to further discourage frivolous or vexatious protests.
- **Self-Launching (5.22.1)** Exceeding the maximum altitude for engine shut-down by more than 100ft is now penalised. Previously any start thereafter was invalid. This is felt to be a fairer outcome and brings us in line with IGC practice.
- **European Championships (6.2.4)** The IGC did not, as expected, remove the extra place allowed for an existing European Champion in class, so this has been reinstated. In addition, provision has been added to allow the Competitions Committee to award a place to a selected pilot if the foregoing selection process fails to yield a full team.
- **Junior Team Selection (6.2.5.2)** Given the calendar of upcoming events which may reduce opportunities to qualify, It has been decided to relax the minimum requirement for entry of having flown a Nationals, other than the Junior Nationals, to having flown a Nationals or a competition of a suitably similar standard.
- **Womens’ World Championships (6.2.6)** Following a review, it has emerged that the BGA ranking of 650 required for selection is too high. It has been reduced to 550.
- **List of Approved Penalties (7.1)**
  - **Multiple “Minor” Airspace Penetrations:** Clarification that multiple “minor” consecutive penetrations of the same volume of airspace are to be penalised as a single penetration, but that multiple non-consecutive penetrations, or penetrations of a different volume, are not.
  - **Flight below 30ft outside the airfield perimeter:** Clarification that no penalty should be given if this has been due to an emergency straight-in approach or an out-landing.
- **Scoring Parameters and Formulae (7.2)** The term “withdrawn” is now defined.
- **Penalty Table (7.1)** Various changes to penalties arising from the changes outlined above have been implemented.
- **Scoring Parameters and Formulae (7.2)** To address confusion and eliminate variation in scoring practice, the word “withdrawn” as it affects scoring has been defined.
- **Glider Speed Indices (7.3)** Ventus 3 (15m) and JS3 (15m) increased to 104.5 reversing change from last year. AS33(15m),AS33(18m) and Ventus 3M(18m) added to list for the first time. JS1c(21m) increased to 118 reflecting measured data now available. Other older Open Class gliders have small reductions better reflecting the measured data held. FES variants added to the list reflecting aerodynamic disadvantage of 1 proven by recent testing.

The Comps Committee welcomes the input we receive from competition organisers and pilots. Don't hesitate to get in touch if you have a point to make. You can email the committee direct on [compscommittee@gliding.co.uk](mailto:compscommittee@gliding.co.uk).

I would like to offer a personal thank-you to all the committee for their hard work during 2020. I'd also like to welcome a new member, Paul Fritche to the committee and to thank Iain Baker and Matt Page, who have now left the committee, for their invaluable contribution.

Finally, to all those reading this, I wish you fun, safe and successful racing in 2021

Alan Langlands on behalf of the BGA Competition & Awards Committee

**Committee Members - 2021**

Alan Langlands (Chair)	Russell Cheetham	Jim White
Paul Crabb	Brian Spreckley	Graham Garnett
Paul Fritche	Matt Davis	Ben Hughes
Chris Luton	Max Lazenby	

## **INTRODUCTION**

This 7-part document sets out the official BGA rules for rated competitions.

### **Part 1 “Competition Preparation and Publication”**

Rules about planning and publicising a competition.

### **Part 2 “Pilot Entry - General”**

What every prospective competitor must do to enter a competition..

### **Part 4 “Glider Compliance-General”**

Rules regarding the permitted physical properties of competing gliders

### **Part 3 “Competition Types”**

Types and classes of competition and the rules specific to each.

### **Part 5 “Conduct of the Competition”**

Rules applied during the competition itself

### **Part 6 “Rating Lists and Team Selection”**

Pilot rating and team selection procedures.

### **Part 7 “Appendices”**

Complex or detailed information, referred to in the rules.

## DEFINITIONS

### Wording.

Throughout these rules, the words "must", "shall", and "may not" indicate mandatory requirements; "should" indicates a recommendation; "may" indicates what is permitted, and "will" indicates what is going to happen.

### Units.

Speed in kilometres per hour; Wind Speed in knots; Height in feet above the airfield; Altitude in feet above mean sea level; Directions and Radials in degrees true; and Distance in metres and kilometres.

### GPS Datum.

WGS 84.

### Organiser

The individual or group of individuals, who undertake the running of a BGA Rated Gliding Competition. *(This will usually be a sub-committee of a gliding club)*

## Contents

<b>Wording</b> .....	<b>vii</b>
<b>Units</b> .....	<b>vii</b>
<b>GPS Datum</b> .....	<b>vii</b>
<b>Organiser</b> .....	<b>vii</b>
<b>1 COMPETITION PREPARATION &amp; PUBLICATION</b> .....	<b>1</b>
<b>1.1 OFFICIALS</b> .....	<b>1</b>
1.1.1 Director .....	1
1.1.2 Key Officers .....	1
1.1.3 Stewards.....	1
<b>1.2 CANCELLATION</b> .....	<b>1</b>
<b>1.3 LOCAL PROCEDURES</b> .....	<b>1</b>
1.3.1 Approval and Publication. ....	1
1.3.2 Minimum Contents. ....	1
1.3.3 Additional information.....	2
<b>2 PILOT ENTRY- GENERAL</b> .....	<b>3</b>
<b>2.1 PILOT LICENCING &amp; ELIGIBILITY</b> .....	<b>3</b>
2.1.1 FAI Competition Licence .....	3
2.1.2 Nationality.....	3
2.1.3 Team Entry, Same Glider.....	3
2.1.4 Team Entry, Different Gliders .....	3
2.1.5 Team Entry Penalties .....	3
2.1.6 Multi-seaters.....	3
2.1.7 Hors-concours.....	3
<b>2.2 REGISTRATION</b> .....	<b>3</b>
2.2.1 Registration Form.....	3
2.2.2 Registration In-Person .....	4
2.2.3 Supporting Documentation.....	4
<b>3 GLIDER COMPLIANCE - GENERAL</b> .....	<b>5</b>
<b>3.1 AIRWORTHINESS</b> .....	<b>5</b>
<b>3.2 GLIDER IDENTIFICATION</b> .....	<b>5</b>
3.2.1 Display of Tri-Graph or Competition Number .....	5



3.2.2	National Aviation Authority Markings.....	5
<b>3.3</b>	<b>CHANGES.....</b>	<b>5</b>
3.3.1	Change of Task Group or Glider Configuration.....	5
3.3.2	Complete Change of Glider.....	5
<b>3.4</b>	<b>MAXIMUM WEIGHTS .....</b>	<b>5</b>
3.4.1	Take Off Mass .....	5
3.4.2	Weighing.....	5
<b>4</b>	<b>COMPETITION TYPES &amp; TASK GROUPS.....</b>	<b>7</b>
<b>4.1</b>	<b>NATIONAL CHAMPIONSHIPS.....</b>	<b>7</b>
4.1.1	National Championships Classes .....	7
4.1.2	Nationals Championships Venues.....	7
4.1.3	Nationals Pilot Eligibility .....	7
4.1.4	National Championships Entry.....	7
<b>4.2</b>	<b>20m. MULTI-SEAT NATIONAL CHAMPIONSHIPS .....</b>	<b>7</b>
4.2.1	General.....	7
4.2.2	Maximum Take-Off Mass.....	8
4.2.3	20 Metre Multi-seat Entry Requirement.....	8
4.2.4	IGC Handicap Integration with BGA Scoring.....	8
<b>4.3</b>	<b>CLUB CLASS NATIONAL CHAMPIONSHIPS.....</b>	<b>8</b>
4.3.1	General.....	8
4.3.2	Maximum Takeoff Mass (MTOM) .....	8
4.3.3	Water Ballast .....	8
4.3.4	IGC Handicap Integration with BGA Scoring.....	8
<b>4.4</b>	<b>JUNIOR NATIONALS .....</b>	<b>9</b>
4.4.1	Junior Age Limit.....	9
4.4.2	Junior Nationals Entry .....	9
4.4.3	Junior Nationals Maximum Glider Speed Index. ....	9
<b>4.5</b>	<b>REGIONAL CHAMPIONSHIPS .....</b>	<b>9</b>
4.5.1	Regionals Venues and Dates .....	9
4.5.2	Regionals Entry .....	9
<b>4.6</b>	<b>TASK GROUPS .....</b>	<b>9</b>
4.6.1	Task Group Definition .....	9
4.6.2	Size of Task Group.....	9

<b>4.7</b>	<b>ALERNATIVE RULES AND PROCEDURES</b> .....	<b>9</b>
<b>5</b>	<b>CONDUCT OF THE COMPETITION</b> .....	<b>10</b>
<b>5.1</b>	<b>PILOTS SAFETY COMMITTEE (PSC)</b> .....	<b>10</b>
5.1.1	Purpose of the PSC. ....	10
5.1.2	Goal of the PSC. ....	10
5.1.3	Operation of the PSC. ....	10
5.1.4	Election of PSC .....	10
5.1.5	Powers of the PSC.....	10
5.1.6	Resignation from the PSC.....	10
<b>5.2</b>	<b>BRIEFINGS</b> .....	<b>10</b>
5.2.1	Daily Task Briefings.....	10
5.2.2	Airspace Briefing – minimum content .....	11
5.2.3	Task Sheet – minimum content. ....	11
5.2.4	Additional Briefings.....	12
<b>5.3</b>	<b>LAUNCHING</b> .....	<b>12</b>
5.3.1	Launch Method.....	12
5.3.2	Release Zone .....	12
5.3.3	Launching Multiple Task Groups .....	12
5.3.4	Nationals Priority .....	13
5.3.5	Task Group Launch Period .....	13
5.3.6	Launch Order.....	13
5.3.7	Notice of First Launch .....	13
5.3.8	Refusing a Launch .....	13
5.3.9	Launch Grouping.....	13
5.3.10	Motor Gliders.....	13
5.3.11	Director to be Present .....	13
5.3.12	Additional Launches (Relights) .....	13
5.3.13	Relights During Launch of Next Task Group .....	14
5.3.14	Failed Launches .....	14
5.3.15	No Relight after an Outlanding.....	14
5.3.16	Relight Cancels Previous Starts .....	14
5.3.17	Self-Launcher Relights .....	14
<b>5.4</b>	<b>TASK POSTPONEMENT OR CANCELLATION</b> .....	<b>14</b>
5.4.1	Task Cancellation After Launch.....	14
5.4.2	Start Postponement.....	14

5.4.3	Re-tasking After Launch.....	14
5.4.4	Re-Tasking after Mass Land-Back.....	14
5.4.5	No Reversal of Decision.....	14
<b>5.5</b>	<b>FLIGHT VERIFICATION .....</b>	<b>14</b>
5.5.1	Method.....	14
5.5.2	ENL or MOP for Engine-Equipped Gliders .....	15
5.5.3	Control. ....	15
5.5.4	Handing in. ....	15
5.5.5	Evidence to Include all Flying that Day.....	15
5.5.6	Flight-Recorder Time intervals.....	15
5.5.7	Flight-Recorder Calibration. ....	15
5.5.8	Software & Hardware.....	15
5.5.9	Analysis and Scoring Programs.....	15
<b>5.6</b>	<b>STARTING .....</b>	<b>16</b>
5.6.1	Start Zone.....	16
5.6.2	Start Announcement. ....	16
5.6.3	Maximum Start Height.....	16
5.6.4	Start Open Time.....	16
5.6.5	Cloud Flying Before Start.....	16
5.6.6	Safety and Airmanship around Start Zone. ....	17
5.6.7	Control.....	17
5.6.8	Pilot Reporting of Start Time.....	17
<b>5.7</b>	<b>TASKS .....</b>	<b>17</b>
5.7.1	Fixed Course.....	17
5.7.2	Distance Handicapped.....	17
5.7.3	Assigned Area.....	17
<b>5.8</b>	<b>TURNPOINT.....</b>	<b>17</b>
5.8.1	Turnpoint Position .....	17
5.8.2	Fixed Course Turnpoint.....	17
5.8.3	Final Control Point.....	17
5.8.4	Enhanced Option Turnpoint .....	18
5.8.5	Distance Handicapped Turnpoint.....	18
5.8.6	Assigned Area Definition.....	18
<b>5.9</b>	<b>FINISHING .....</b>	<b>18</b>
5.9.1	Publication of Finish Type.....	18

5.9.2	Finish Line .....	19
5.9.3	Finish Ring.....	19
5.9.4	Direct Landing Option .....	19
5.9.5	Safety and airmanship at finish.....	19
5.9.6	Control.....	19
<b>5.10</b>	<b>AIRSPACE .....</b>	<b>20</b>
5.10.1	Pilot's Responsibility for Airspace Avoidance .....	20
5.10.2	Application of Airspace Penalties.....	20
5.10.3	Airspace Types Excluded.....	20
5.10.4	ATZs .....	20
5.10.5	Landing In a Penalty Zone with Permission .....	20
5.10.6	Block Airspace Exemptions.....	21
<b>5.11</b>	<b>ACCIDENTS &amp; DAMAGE .....</b>	<b>21</b>
5.11.1	Accident Reporting.....	21
5.11.2	Repair.....	21
5.11.3	Collision.....	21
<b>5.12</b>	<b>COMMUNICATIONS .....</b>	<b>21</b>
5.12.1	Radio .....	21
5.12.2	Information.....	22
<b>5.13</b>	<b>EXTERNAL AIDS.....</b>	<b>22</b>
5.13.1	Help in Finding Lift.....	22
<b>5.14</b>	<b>DOPING .....</b>	<b>23</b>
<b>5.15</b>	<b>CLOUD FLYING.....</b>	<b>23</b>
5.15.1	Cloud Flying Radio .....	23
5.15.2	Before Entering Cloud.....	23
5.15.3	While in Cloud .....	23
5.15.4	On leaving Cloud.....	23
5.15.5	Right of Way.....	23
5.15.6	Near a Start Zone or Base Airfield.....	24
5.15.7	No Cloud Flying Prior to Start .....	24
<b>5.16</b>	<b>AIRMANSHIP &amp; SAFETY .....</b>	<b>24</b>
5.16.1	Parachutes .....	24
5.16.2	Direction of Thermal Turn .....	24
5.16.3	Illness or Disability.....	24
5.16.4	Jettisoning Water Ballast.....	24

5.16.5	Flarm.....	24
<b>5.17</b>	<b>OUTLANDING.....</b>	<b>24</b>
5.17.1	3 <sup>rd</sup> Party Complaints.....	24
5.17.2	Deemed Position of Outlanding.....	24
5.17.3	Outlanding Reporting.....	24
<b>5.18</b>	<b>SECOND ATTEMPT.....</b>	<b>25</b>
<b>5.19</b>	<b>PROTESTS.....</b>	<b>25</b>
5.19.1	Stage 1 – Contesting a Decision.....	25
5.19.2	Stage 2 – Making a Formal Protest.....	25
<b>5.20</b>	<b>CONTEST MINIMA.....</b>	<b>25</b>
<b>5.21</b>	<b>PENALTIES.....</b>	<b>25</b>
5.21.1	List of Approved Penalties.....	25
5.21.2	Disqualification.....	25
5.21.3	Application of Penalties.....	26
<b>5.22</b>	<b>ENGINE EQUIPPED GLIDERS.....</b>	<b>26</b>
5.22.1	Self-Launching.....	26
5.22.2	Self-Sustainers Engine Test.....	26
5.22.3	Further Engine Operation.....	26
<b>5.23</b>	<b>CALCULATION OF SCORES.....</b>	<b>26</b>
5.23.1	The 1000 Point Scoring Principle.....	26
5.23.2	Scoring Parameters & Formulae.....	26
5.23.3	Glider Speed Index (Handicap).....	26
5.23.4	Additional Performance Enhancements.....	26
5.23.5	Windcapping.....	27
5.23.6	Distances.....	27
5.23.7	Scoring Distance Handicap Tasks.....	28
<b>5.24</b>	<b>PUBLICATION OF SCORES.....</b>	<b>28</b>
<b>5.25</b>	<b>DIRECTORS REPORT.....</b>	<b>28</b>
<b>6</b>	<b>RATING LIST &amp; TEAM SELECTION.....</b>	<b>29</b>
<b>6.1</b>	<b>RATING LIST.....</b>	<b>29</b>
6.1.1	Competition Rating.....	29
6.1.2	Rating Score.....	29
6.1.3	Rating of Team Entries.....	30

6.1.4	Rating Ties.....	30
<b>6.2</b>	<b>INTERNATIONAL TEAM SELECTION.....</b>	<b>30</b>
6.2.1	Timing of International Team Selection.....	30
6.2.2	International Team Member Qualifications.....	30
6.2.3	World Championships (unrestricted) Team Selection.....	30
6.2.4	European Championships.....	31
6.2.5	Junior World Championships.....	32
6.2.6	Women’s World Championships.....	32
6.2.7	Women’s World Championships 2022.....	33
6.2.8	Commitment Fee.....	33
6.2.9	Voting System.....	33
<b>7</b>	<b>APPENDICES.....</b>	<b>35</b>
<b>7.1</b>	<b>LIST OF APPROVED PENALTIES.....</b>	<b>35</b>
<b>7.2</b>	<b>SCORING PARAMETERS &amp; FORMULAE.....</b>	<b>38</b>
7.2.1	Qualifying Distance.....	43
7.2.2	Contest Dependent Variables.....	44
<b>7.3</b>	<b>GLIDER SPEED INDICES.....</b>	<b>45</b>
<b>7.4</b>	<b>HEIGHT VERIFICATION PROCEDURE.....</b>	<b>48</b>

## **1 COMPETITION PREPARATION & PUBLICATION**

### **1.1 OFFICIALS**

#### **1.1.1 Director**

The competition organisation must be headed by a Director who has overall responsibility for ensuring that suitable personnel, equipment and facilities are available for the efficient organisation and running of a BGA rated competition. The Director or appointed Deputy must be available throughout the competition period and at the end ensure results and reports are promptly forwarded to the BGA in the required format. The Director must ensure that the conduct of competition flying with respect to finishing is continually observed in person. If not by the Director, then by other key officers specifically briefed.

#### **1.1.2 Key Officers**

The Director shall appoint the key officers of Task setter, Airspace Officer, Deputy Director and Safety Officer. The Airspace officer and Task setter must not be the same person.

#### **1.1.3 Stewards**

Three suitably experienced current competition pilots shall be appointed as stewards to monitor the conduct of the competition and report any unfairness or infringement of the regulations and investigate protests. Stewards must hold no executive position in the organisation of the competition nor be competitors. They need not be in continuous attendance throughout the competition and a quorum for a meeting is two. Stewards should refer to the BGA Competitions Committee for guidance prior to any decision, especially where there may be ambiguity within the rules or no specific rules covering the case in question. The stewards' decision on any protest is final.

### **1.2 CANCELLATION**

Once entry fees have been paid, a competition must not be cancelled, except for reasons of 'force majeure' and only after consultation with the BGA competitions committee or (if already started) the stewards.

### **1.3 LOCAL PROCEDURES**

#### **1.3.1 Approval and Publication.**

Local Procedures must be approved by the Competition Committee prior to publication. Distribution should ensure competitors receive them at least three weeks before the competition starts.

#### **1.3.2 Minimum Contents.**

As a minimum they must define:

- the boundaries of the airfield.
- times for pilot registration.
- details of any additional radio frequencies to be used,
- a copy of the current BGA registration form.
- specifications of any additional temporary airspace restriction or dispensation known to be in operation during the contest period.
- any rules that are additional to these rules.

- Local Procedures must also contain a reminder to fly within the requirements of the law, namely the UK implementation of SERA (Standardised European Rules of the Air) and its associated UK exceptions regarding low flying and reckless or negligent endangerment of any person or property.

### **1.3.3 Additional information.**

Normally included are:

- the start point co-ordinates and details of finish lines and control points that may be used.
- domestic and site information.
- a list of the anticipated entrants.
- a list of Flight Recorder types and media storage devices that the organisation are already equipped to download.
- a list of required documents to be produced at registration.



## 2 PILOT ENTRY- GENERAL

### 2.1 PILOT LICENCING & ELIGIBILITY

#### 2.1.1 FAI Competition Licence

All pilots, including hors-concours entries, except two-seater P2s, must hold a valid FAI Competition Licence. *Note: these can be obtained through the BGA website at [www.glidering.co.uk](http://www.glidering.co.uk).* Applicants must hold a Silver badge.

#### 2.1.2 Nationality

Only pilots of British nationality, or principally resident within the UK and subject to British income tax, may qualify for the title of National Champion and be awarded BGA trophies. Pilots not meeting the British Nationality or residency requirement may enter any BGA competition but will gain no priority rating and will not affect other competitors' ratings other than by virtue of their daily performance affecting the number of points allocated.

#### 2.1.3 Team Entry, Same Glider.

Two or more pilots may compete as a team entry in the same glider in the Junior Nationals, Overseas Championship and Regionals. Pilots must not compete in more than one glider in the same task group.

#### 2.1.4 Team Entry, Different Gliders

Two or more pilots may compete as a team entry in different gliders in Regionals, provided that the handicaps of the gliders fall within a single task group; that only one glider competes on any one day; that the days on which each glider is to compete shall be agreed with the Director before the start of the competition and that no pilot competes in more than one glider during the competition (subject to [3.2.2](#)).

#### 2.1.5 Team Entry Penalties

When pilots compete as a team entry as permitted in 2.1.3 or 2.1.4 above, any penalty incurred (including warnings for first offences and penalties for second and subsequent offences) shall count against the entire team regardless of which pilot was responsible.

#### 2.1.6 Multi-seaters.

The registered pilot must be generally accepted as no less proficient than any other occupant of the glider. Relative proficiency should be determined by the current rating list. A multi-seat glider may be flown on a team basis in accordance with 2.1.3.

#### 2.1.7 Hors-concours.

The Competition Committee must approve all National Championship hors-concours entries, each of which must have the prior approval of the competition organiser. The normal entry fee is payable in all cases.

### 2.2 REGISTRATION

#### 2.2.1 Registration Form.

The form shall be completed and delivered to the organising club as directed. If any of the details submitted change, a fresh form must be completed. The contents of the registration

form must, as a minimum, mirror the requirements of the BGA sample form downloadable from the BGA website including all pilot declarations.

### **2.2.2 Registration In-Person**

Prior to flying, competitors must attend registration and show evidence of FAI competition licence. The organisation may require sight of other supporting documents at registration – these will be listed in Local Procedures.

### **2.2.3 Supporting Documentation**

Subsequently during the competition, pilots may be required to produce supporting documentation for any of the information declared on the registration form. Scrutineering of the glider to be used and any equipment on board may also be undertaken by the organisation before launching on the first day and on any subsequent day to ensure compliance with the rules.

## **3 GLIDER COMPLIANCE - GENERAL**

### **3.1 AIRWORTHINESS**

The airworthiness of competing sailplanes and any associated equipment shall be the responsibility of the competitors at all times.

Each competing sailplane must have a valid Certificate of Airworthiness or Permit to Fly or be in compliance with applicable national airworthiness regulations.

### **3.2 GLIDER IDENTIFICATION**

#### **3.2.1 Display of Tri-Graph or Competition Number**

Gliders must display their BGA tri-graph or Competition number as large as practicable in a contrasting colour on both sides of the fin/fin & rudder.

#### **3.2.2 National Aviation Authority Markings.**

Appropriate National Aviation Authority issued registration markings must additionally be displayed as required.

### **3.3 CHANGES**

#### **3.3.1 Change of Task Group or Glider Configuration.**

A glider shall not, during a contest, change task groups or vary its configuration from that declared at registration other than as allowed in 5.11.2.

#### **3.3.2 Complete Change of Glider**

One complete change of glider may be declared at registration to be actioned on a specific day and to run for a defined number of calendar days, provided that the handicap of the replacement is within the limit of the task group or the same as the glider replaced. The change, or any details of the change, may not be cancelled unless the Director is satisfied that the replacement glider has been damaged beforehand or in transit and the pilot is not seeking a tactical advantage. Changing the configuration of the same glider is not regarded as a glider replacement and is therefore not permitted within the context of this section.

### **3.4 MAXIMUM WEIGHTS**

#### **3.4.1 Take Off Mass**

The take-off mass of a glider shall be the lower of: –

- Manufacturers certificated limit
- Standard and 15 metre classes – 525 kg.
- 18 metre class – 600 kg.
- Open Class – 850 kg.
- 20 metre Multi-Seat – 800kg

#### **3.4.2 Weighing.**

Organisers are encouraged to check weigh gliders if they suspect that limits are being overlooked and to check handicap declarations in Club Class. To be effective, this may require some restrictions in the local procedures on the loading and dumping of ballast or

engine fuel prior to launch and when equipment may be added . Gliders should be weighed with wings balanced and with all equipment required for flight. If weighing takes place on the way to the grid it must be ensured that the glider has a small into wind component. The mass of the pilot is also measured at this time. The intended take off mass is the combined mass of glider, all equipment, pilot and any calibration error that is registered for the weighing scales in use. A tolerance of +/- 1% is additionally allowed before overweight or out of handicap penalties are considered.

## 4 COMPETITION TYPES & TASK GROUPS

### 4.1 NATIONAL CHAMPIONSHIPS

#### 4.1.1 National Championships Classes

The national championships shall be sub-divided into the classes of :

FAI Classes:

- Open
- 18 metre
- 15 metre,
- Standard
- Club Class
- 20 metre Multi-Seat

Non-FAI Class:-

- Junior

each producing a National champion.

#### 4.1.2 Nationals Championships Venues.

Suitable clubs will be invited by the Competitions Committee to bid.

#### 4.1.3 Nationals Pilot Eligibility

All pilots must have previously competed as P1 in a BGA rated competition or if a foreign pilot, in an equivalent event abroad. In exceptional circumstances substantial non-rated competition experience will be considered acceptable if recommended by the director and agreed by the Competitions Committee.

#### 4.1.4 National Championships Entry

Applications to enter a National Championships (except Junior Nationals, see 4.4.2) must be received by the BGA office by January 31st to avoid placement on the late entry list. If oversubscribed, entry is prioritised by the rating list followed by late entries in order of application. In any case, an application, even if a late entry, must be received by the BGA to allow the pilot to enter the competition. Deposits will not be accepted by the organising club until this step is completed.

## 4.2 20m. MULTI-SEAT NATIONAL CHAMPIONSHIPS

### 4.2.1 General

The event will be run in accordance with these rules except in the case of glider eligibility, and handicapping, which will instead be in accordance with sections 2.2. 2.6 and Appendix 2 of the latest "IGC Procedures for Handicapped Classes" Part 2.

The latest version of this document can be found at [www.fai.org](http://www.fai.org). The link at the time of publication of this BGA Rulebook was [https://www.fai.org/sites/default/files/sc3ah\\_2019a.pdf](https://www.fai.org/sites/default/files/sc3ah_2019a.pdf)

#### 4.2.2 Maximum Take-Off Mass

The take-off mass must be less than or equal to the lesser of:-

- The maximum certificated take-off mass according to the type certification data sheet or the BGA approved limit.
- 800kg.

#### 4.2.3 20 Metre Multi-seat Entry Requirement

Only one pilot entry is required for the lead pilot, who must fly on every day of the competition, but 2 occupants must fly on board, the second of which may alternate subject to being registered daily with the competition organisation.

#### 4.2.4 IGC Handicap Integration with BGA Scoring

It should be noted that IGC handicaps will require a multiplier of 100 prior to integration with BGA scoring formulae.

### 4.3 CLUB CLASS NATIONAL CHAMPIONSHIPS

#### 4.3.1 General

The event will be run in accordance with these rules except in the case of glider eligibility and handicapping which will instead be in accordance with sections 1.2, 1.6 and Appendix 1 of the latest version of "IGC Procedures for Handicapped Classes" Part 1. The latest version of this document can be found at [www.fai.org](http://www.fai.org). The link at the time of publication of this BGA Rulebook was [https://www.fai.org/sites/default/files/sc3ah\\_2018.pdf](https://www.fai.org/sites/default/files/sc3ah_2018.pdf)

Additionally, a glider not eligible according to the above document, may receive approval and be allocated an appropriate IGC compliant handicap and reference weight by the BGA Competitions Committee provided the glider is a single seater fitting the performance range and ethos of IGC Club Class.

#### 4.3.2 Maximum Takeoff Mass (MTOM)

The take-off mass must be less than or equal to the lesser of:

- Maximum certificated take-off mass, according to type certificate data sheet or BGA approved limit
- Maximum certificated take-off mass without water-ballast, according to type certificate data sheet or BGA approved limit

#### 4.3.3 Water Ballast

With exception of fin ballast, as set out below, water ballast must not be carried in Club Class. Any fixed ballast must be securely installed and must meet airworthiness requirements. Water ballast may be carried in the fin tank, if fitted, for the sole purpose of adjustment of the position of the centre of gravity. If carried, it must be included in the take-off mass. The configuration and weight of the glider, including any fin water ballast, must remain the same throughout the competition.

#### 4.3.4 IGC Handicap Integration with BGA Scoring

It should be noted that IGC handicaps will require a multiplier of 100 prior to integration with BGA scoring formulae.

## 4.4 JUNIOR NATIONALS

### 4.4.1 Junior Age Limit

Only pilots whose 26<sup>th</sup> birthday falls after the year of competition are eligible to enter the Junior Nationals.

### 4.4.2 Junior Nationals Entry

Applications to enter the Junior Nationals are made on the Junior Gliding website:-

<http://nationals.juniorgliding.co.uk>

### 4.4.3 Junior Nationals Maximum Glider Speed Index.

Gliders with a speed index not exceeding 106 are eligible to enter.

## 4.5 REGIONAL CHAMPIONSHIPS

### 4.5.1 Regionals Venues and Dates

Any club may apply to the Competitions Committee to run a BGA rated Regional Competition. Those without a proven competition track record will be required to satisfy the Competitions Committee that they have the expertise. It may be necessary to apply control over dates to reduce competition conflicts.

### 4.5.2 Regionals Entry

Application to enter a Regionals must be made directly to the organising club. If oversubscribed, entry is decided by the order the entries are received or by a ballot of all applicants. Pilots from outside the organising club must have the same opportunity of entry including notification of entry procedure.

## 4.6 TASK GROUPS

### 4.6.1 Task Group Definition

A competition may consist of one or more task groups determined either by FAI class, or glider speed. Where two similar classes – e.g. 15m and Standard - are combined into a single task group which is set the same task and scored together, they together constitute a single task group.

### 4.6.2 Size of Task Group.

A task group shall not be larger than can normally be launched in less than one hour and in any case must not exceed 50.

## 4.7 ALTERNATIVE RULES AND PROCEDURES

All events will be run in accordance with these rules except that specific alternative rules and/or procedures may be trialled with the express prior approval of the BGA Competitions and Awards Committee. If this is the case, the intention must be published as soon as possible and highlighted in the Local Procedures.

## **5 CONDUCT OF THE COMPETITION**

### **5.1 PILOTS SAFETY COMMITTEE (PSC)**

#### **5.1.1 Purpose of the PSC.**

To ensure, by use of 'peer pressure', that safe flying and airmanship standards are followed by all (including tug pilots) with regard to the high concentration of gliders that a contest creates.

#### **5.1.2 Goal of the PSC.**

To ensure all are aware of their responsibility for the safety of fellow pilots and other people and property on and off the airfield, thus eradicating aggressive and/or marginal flying in the bid for extra performance.

#### **5.1.3 Operation of the PSC.**

All competitors must make themselves available for the post unless they have already served on a PSC this year.

#### **5.1.4 Election of PSC**

Prior to the commencement of the competition the Director will, with the agreement of the pilots concerned, nominate three pilots and a reserve and invite further nominations from the other competitors. Pilots will elect three pilots and a reserve. The election may be carried out in advance of the initial briefing at the Director's discretion, provided all pilots have the opportunity to participate.

#### **5.1.5 Powers of the PSC**

The PSC will investigate complaints from competitors related only to safety and flying standards during the competition. If considered necessary a verbal or written warning should be issued, with serious cases referred to the Competition Director if a penalty is recommended.

It is intended that considerable discretion should remain with the PSC to deal with complaints without involving the Organisation. However, as it acts purely in an advisory capacity and is not empowered to impose penalties, behaviour considered to warrant further action must be reported to the Competition Director.

#### **5.1.6 Resignation from the PSC**

A member of the PSC may resign if he feels it is affecting his own competition result, with the next placed candidate filling the position.

### **5.2 BRIEFINGS**

#### **5.2.1 Daily Task Briefings**

The organisers must hold a task briefing every day of the contest at 09.30 hours (or other published time) that includes the following: -

- Previous day's results (if applicable).
- Meteorological forecast.



- Details of the day's tasks (any number of options) for each task group – this shall include verbal briefing and task sheets with detail in accordance with 5.2.2.
- Airspace restrictions, exemptions and hazards that might affect competitors. see “Airspace Briefing – minimum content” below.
- Time on grid and earliest time of first launch (if not on the task sheet).
- Time of last launch (not earlier than 1800 hours).
- Tug and glider relight landing areas.
- Finishing procedures.
- Administrative notices.
- Date and time of next briefing.

Flight and safety requirements given at briefing carry the status of Local Regulations.

Pilots unable to attend briefing must ensure they are in possession of all relevant briefed information prior to launching.

### **5.2.2 Airspace Briefing – minimum content**

Each morning briefing must include a section on Airspace, delivered either by the Director or the Airspace Officer. The minimum content of the Airspace Briefing is as follows:

- Local hazards, including reminders of known issues arising from the configuration or proximity of local airspace, even if it is marked on the current air chart.
- Details of LOAs & Dispensations (e.g. Daventry Box et al) including procedures for their use.
- Deemed active parachute zones to be treated as prohibited airspace.
- Temporary Controlled, Restricted or Prohibited airspace.
- Advisory navigation warnings issued by NOTAM.
- Any other areas designated as Additional Penalty areas.
- This information to be provided in graphical format, displayed on screen during the briefing or by the issue of printed maps to allow easy identification on pilots' air charts.

### **5.2.3 Task Sheet – minimum content.**

A task sheet must be supplied to pilots for each task briefed with minimum content to include the following:-

- Task date and priority designation
- Written task description to include tri-graph, description and co-ordinates of start, finish, and turnpoints in degrees and decimal minutes, task length, leg lengths, leg headings (degrees true),
- For Distance Handicapped Tasks, a supplementary sheet must be supplied indicating the radius of barrel in km to one decimal place to be employed for that task for each handicap of glider in the task group. The task sheet must also clearly indicate that the task is a Distance Handicapped Task and show a defined example barrel size of 5km, or the maximum barrel size required if it is less than 5km.
- Written observation zone description where task is an AAT
- Graphic interpretation of task area (minimum size A5) showing all observation zones, track lines, all relevant permanent airspace boundaries and any temporary

restricted/prohibited airspace including prohibited parachute zones identified as shaded areas.

- List of relevant temporary restricted/prohibited airspace and prohibited parachute drop zones to be titled as **ADDITIONAL PENALTY** – to include time, location and height descriptor as appropriate. In the event of any discrepancy between graphical and text descriptions of such airspace/parachute zones, the text version will always be authoritative.
- Written list of relevant navigation warnings with descriptors as appropriate to be titled as **ADVISORY**
- Written list of relevant airspace exemptions in operation to be titled **EXEMPTIONS**.
- Radio frequencies of any ATZ within 5km of track lines, start volume or TP Observation Zones for Speed and Distance Handicapped Tasks - discretionary for Assigned Area Tasks.

#### 5.2.4 Additional Briefings

The Director may hold additional briefings for any reason provided reasonable steps are taken to notify all pilots of the time and place (which may be at the launch point).

##### 5.2.4.1 Task Not Previously Briefed

An additional briefing must be held if a task not previously briefed is to be flown, with at least 30 minutes from its completion to the start of launching.

##### 5.2.4.2 Pilot Notification

The Director must ensure all pilots are aware of any resulting changes.

##### 5.2.4.3 Previously-Briefed Task

An additional briefing is not required if a previously-briefed alternative task is to be flown. However, the Director must ensure every pilot is aware of the change at least 15 minutes before launching commences. This ruling also applies to a change of minimum task time for an Assigned Area Task.

### 5.3 LAUNCHING

#### 5.3.1 Launch Method

Launches must be by aero tow or self-launch, unless stated otherwise before entry fees are paid.

#### 5.3.2 Release Zone

Gliders should be towed or self-launch to the release zone specified for each task group and be 'waved-off' by the tug, or shut down their engines, at the specified release altitude. Pilots may release or shut-down earlier at their discretion. The Director may change the release zone at any time if it is considered to be necessary for sporting reasons.

#### 5.3.3 Launching Multiple Task Groups

Each task group must be launched separately, except as specified for relights, the first launch of each task group being at the Director's discretion.

#### **5.3.4 Nationals Priority**

If competitions include a National Championship and Regional Task Group, the Nationals must always be launched first. In this case, Organisers must ensure all Regional's pilots are aware of this prior to entering.

#### **5.3.5 Task Group Launch Period**

All gliders of a task group should have the opportunity of a competition launch within one hour. This can normally be achieved by having not more than six gliders per tug.

#### **5.3.6 Launch Order**

Within each task group the order of launch shall be in order of registration letters or competition numbers with the first to take-off on the first flying day being selected by lot. Thereafter the order shall advance after each contest day by 2/7ths of the number of competitors in the group.

#### **5.3.7 Notice of First Launch**

Announcement of the earliest first launch time should be given, ideally at briefing, and updated regularly if slippage occurs. The first launch shall be no earlier than 30 minutes after the completion of all business at the morning briefing session. A previously announced earliest launch time must not be brought forward and, in addition, a 10 minute warning of the time of the actual first launch must also be given even if it coincides with the previous estimated time. These announcements may be made using standard competition messaging systems as well as on the competition frequency. It should not be necessary to call pilots together for this. If stream launching a second task group immediately after the first, the 10 minute notice rule will apply only to the first launch of the first group provided that the intention to stream-launch has been previously briefed.

#### **5.3.8 Refusing a Launch**

Pilots who refuse a launch shall follow the relight procedure. A pilot who is unready for his grid order launch shall be deemed to have refused a launch.

#### **5.3.9 Launch Grouping**

Organisers may group gliders and launch them in their group provided that for each glider its launch position is within five places of its official place.

#### **5.3.10 Motor Gliders**

Motor-gliders may be grouped together in list order to assist launch point organisation, or be positioned so that their slipstream does not hazard other aircraft.

#### **5.3.11 Director to be Present**

The Director or his deputy should be present at the launch point during the main periods of glider launching and must suspend launching if it appears dangerous to continue.

#### **5.3.12 Additional Launches (Relights)**

If a pilot wishes to be launched either after refusing the offer of a launch or after landing back at the airfield he must, when fully ready to launch, notify the Launch Marshal and position his glider as instructed.

### **5.3.13 Relights During Launch of Next Task Group**

If the launching of another Task Group is in progress, every fifth launch must be available for 'relights' of any previous Group.

### **5.3.14 Failed Launches**

If a pilot fails to be launched satisfactorily through no fault of him or his crew, he must be offered an additional launch without delay.

### **5.3.15 No Relight after an Outlanding**

A glider that lands outside the official boundary of the airfield (except as above) shall not be permitted any further contest launches on that day. Where doubt exists on a pilot's entitlement to a relight, he should be launched, and the dispute resolved later.

### **5.3.16 Relight Cancels Previous Starts**

Each relight automatically cancels all previous starts unless the task has been completed.

### **5.3.17 Self-Launcher Relights**

Self-Launching Gliders must land within the boundary of the airfield, and launch in sequence as directed by the Launch Marshal.

## **5.4 TASK POSTPONEMENT OR CANCELLATION**

### **5.4.1 Task Cancellation After Launch**

Once launching has commenced, the task may be cancelled for safety or sporting reasons only.

### **5.4.2 Start Postponement**

The Director may delay the opening of the start for either of the above reasons.

### **5.4.3 Re-tasking After Launch**

Prior to the start line opening the Director may cancel the task and at his discretion require pilots to land back for a further briefing. This rule would only be invoked if the weather was unsuitable and it may be possible to task in a different direction. There must be a minimum time of one hour between the recall and first launch on any subsequent task.

### **5.4.4 Re-Tasking after Mass Land-Back**

If after the start line has opened all gliders land back, the Director may set an alternative task.

### **5.4.5 No Reversal of Decision**

Once a launch postponement or task cancellation has been made, the decision must not be reversed.

## **5.5 FLIGHT VERIFICATION**

### **5.5.1 Method.**

Flight Verification, both primary and secondary, must be derived from an IGC approved GPS Flight Recorder (FR) or one that has previously held IGC approval as a Flight Recorder even if now withdrawn.

### **5.5.2 ENL or MOP for Engine-Equipped Gliders**

For engine equipped gliders competing without the engine disabled, any FR used for verification must be fitted with an approved engine noise level (ENL) and/or means of propulsion (MOP) detector that clearly indicates engine use. The IGC list of approved Flight Recorders may be viewed at [www.fai.org/page/igc-approved-flight-recorders](http://www.fai.org/page/igc-approved-flight-recorders)

### **5.5.3 Control.**

Valid control within a Start or Turnpoint zone is achieved by having a logged point, or any part of the line joining 2 consecutive logged points, within the zone. Start and Finish times are calculated by interpolation. Height verification for the purposes of screening flight logs for any airspace infringements or to confirm control at the start will use the procedure in Appendix 2.

### **5.5.4 Handing in.**

On completion of a task, all evidence must be booked in within 60 minutes. If on a logger or removable memory device, it will remain under the responsibility of the Organisation until released back to the competitor. If permitted in the local rules, pilots may also submit secure IGC files by email, or by uploading to a nominated website.

### **5.5.5 Evidence to Include all Flying that Day.**

The flight record must include all flying conducted on the day prior to reaching the landing point even if the day subsequently becomes non scoring.

### **5.5.6 Flight-Recorder Time intervals.**

The time interval between FR fixes should be set at 2 seconds provided the FR is capable of recording 10 hours or more at this setting. In the case of older FRs which may not meet this requirement an alternate setting that just enables 10 hours of recording must be agreed with the Director prior to first launch to avoid penalty.

### **5.5.7 Flight-Recorder Calibration.**

A calibration chart from a test carried out within the preceding 5 years must be available to the Organisation. In the event that a valid calibration chart cannot be produced within the protest period should a flight log provisionally indicate an airspace infringement, it will be assumed that the calibration height puts any logged points 100 feet vertically further into the airspace than indicated and any penalties will be amended accordingly.

### **5.5.8 Software & Hardware.**

It is the responsibility of the competitor to ensure the Organisation is in possession of the required software, connecting cable and/or storage media reading device for their FR or IGC file.

### **5.5.9 Analysis and Scoring Programs**

Analysis and scoring programs employed by competition organisations should be approved by the BGA Competitions Committee prior to use. Only SeeYou scoring script versions published on the BGA website are approved.

## 5.6 STARTING

### 5.6.1 Start Zone.

This is formed by a 5km radius semi-circle centred on the Start Point orientated opposite to the direction of the first turning point and is shown, surrounded by a further 500m horizontal and 250 feet vertical penalty start volume, figure 1. Starts outside these volumes are uncontrolled.

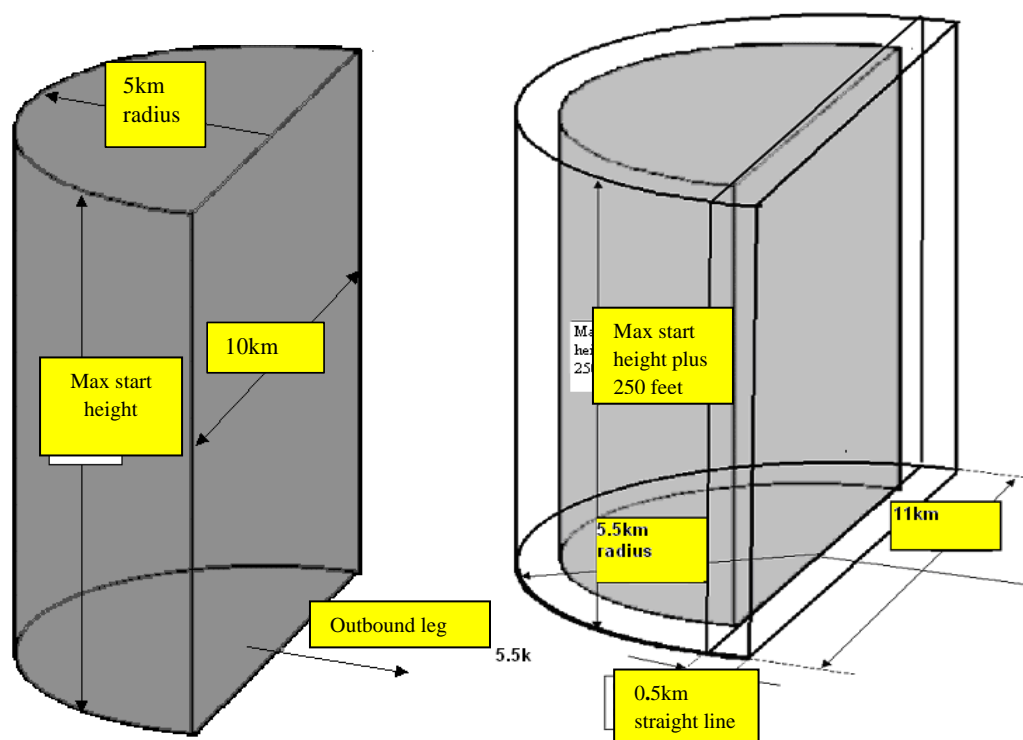


Figure 1

### 5.6.2 Start Announcement.

There will be start time announcements, together with maximum start height, made on the competition frequency 10, 5, and 1 minute prior to and on opening.

### 5.6.3 Maximum Start Height.

The maximum start height should be set approximately 1000 feet above the expected cloud base level (or the expected maximum height of convection if blue) in the start area when the start gate opens but should also take into account airspace limitations. To best achieve this, the final decision should be made just prior to the first start line open announcement.

### 5.6.4 Start Open Time.

The start for each task group will open not less than 15 minutes, plus 1 minute for each 200 feet or part thereof by which the cloud base, or maximum height of convection if blue, exceeds 3000 feet, after the last competitor in that task group has had the option to launch. Directors are reminded that this is a minimum time. More time may be allowed if necessary, for instance if the start zone is remote.

### 5.6.5 Cloud Flying Before Start.

Cloud flying is prohibited prior to starting.

### **5.6.6 Safety and Airmanship around Start Zone.**

Pilots must remain clear of cloud and in full visibility of all gliders in the same thermal when within 10km of any start zone and base airfield reference point.

### **5.6.7 Control.**

The latest time after completion of the launch phase, and with the start open, that a Start Zone was exited in any direction horizontally or vertically. The declared Maximum Start Height must not be exceeded in the 2 minutes prior to Starting. If a start incurs a penalty and an earlier valid start gives a better score, the earlier start time will apply.

### **5.6.8 Pilot Reporting of Start Time**

Within 30 minutes of starting, the Organisation must be advised of the glider's start time by radio or crew. Errors in reported start time of more than 2 minutes will be penalised.

## **5.7 TASKS**

There are three types of task:

### **5.7.1 Fixed Course.**

This is a race either round a closed circuit course, or to a remote goal, with one or more turnpoints. Entry into turning point sectors must be achieved in the order set. Two laps of a closed circuit course may be set provided that it is not an out and return and each lap is at least 100 km.

### **5.7.2 Distance Handicapped.**

This is like a fixed-course task except that the radius of the turnpoint barrel centred at the nominated TP is dependent upon the handicap of each glider in such a way that all finishers will have flown the same handicapped distance on completion.

### **5.7.3 Assigned Area.**

This is a race round pilot selected points within prescribed areas in task order. A Minimum Time is set which will penalise competitors racing for a shorter period. This type of task is intended to be set only when soaring conditions are likely to be uniform over the task area. All selected points must be assigned areas including any small area set for use as a control point.

## **5.8 TURNPOINT**

### **5.8.1 Turnpoint Position**

The Latitude and Longitude co-ordinates published by the Competition Organiser.

### **5.8.2 Fixed Course Turnpoint**

A circle of 500m radius plus a 90 degree sector of radius 20 kilometres opposite the bisector of the inbound and outbound direct tracks. There are Penalty areas of a further 500m surrounding the circle and 90 degree sector. This is shown by figure 2.

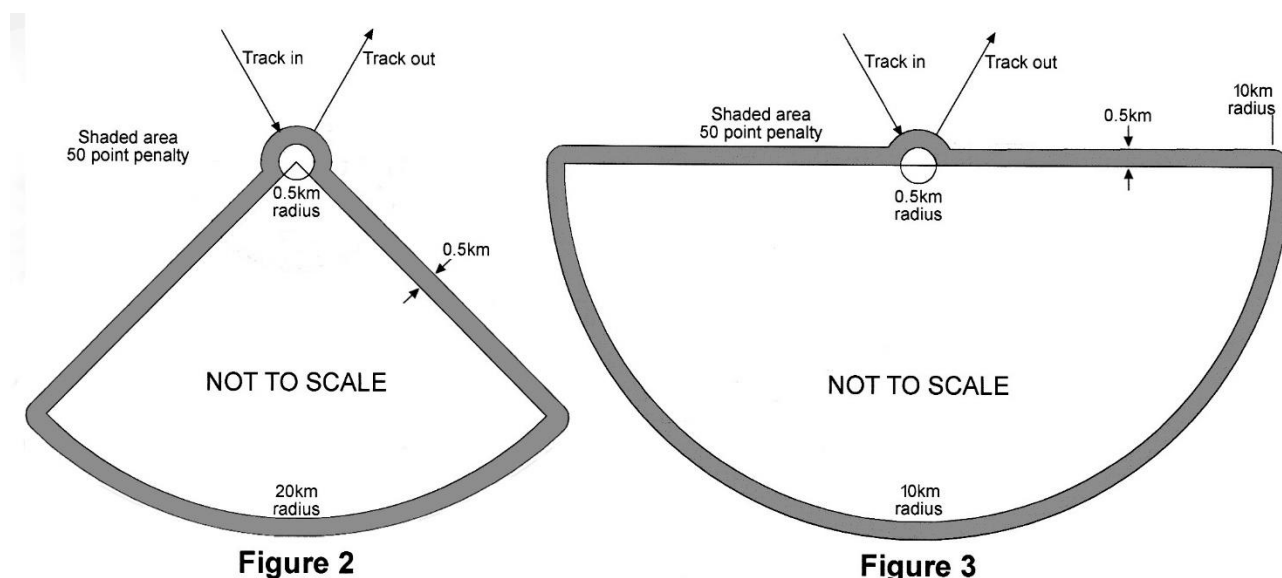
### **5.8.3 Final Control Point**

When a fixed course turnpoint is used as a final control point to ensure returning gliders have an acceptable straight-ahead landing option and when there is more than one class whose last task legs approach the same control point from opposite sides, a circle of up to 1km radius may be used instead of the standard 500m circle.

### 5.8.4 Enhanced Option Turnpoint

A circle of 500m radius plus a 180 degree sector of radius 10 kilometres opposite the bisector of the inbound and outbound direct tracks. There are Penalty areas of a further 500m surrounding the circle and 180 degree sector. This is shown by figure 3. This turnpoint type may be used either exclusively or mixed with normal Fixed Course Turnpoints. It should only be used when the angle made between the inbound and outbound legs is less than 90 degrees.

*The purpose of this type of Turnpoint is for it to be used on showery days where there is some doubt as to whether it will be possible to fly safely into the 0.5 km radius of the TP as is usual for Fixed Course Turnpoints.*



### 5.8.5 Distance Handicapped Turnpoint.

A circle whose radius depends on the speed index of the glider and is determined using software written for the purpose and approved for use in rated competitions by the BGA, plus either a 90 degree sector of radius 20 kilometres or a 180 degree sector of radius 10km opposite the bisector of the inbound and outbound direct tracks. There are Penalty areas of a further 500m surrounding the circle and the 90 or 180 degree sectors. This is shown by Figures 2 and 3 with variable radius set at 0.5km.

### 5.8.6 Assigned Area Definition.

A circle of set radius from a defined point or, a sector between specified radials from a defined point with a maximum and optional minimum distance. A 500m. Penalty Zone surrounds the Area. As this may not be recognised by the scoring programs, pilots believing they have rounded and given 'No Control' should apply to the Scorer for a manual assessment.

## 5.9 FINISHING

### 5.9.1 Publication of Finish Type.

The Organisation shall specify in the Local Rules the type of finish being used together with the flight patterns to be followed after crossing the line.



## **5.9.2 Finish Line**

### **5.9.2.1 Finish Line Definition**

A line of defined length and direction, orientated from between 0-30 degrees to the perpendicular of the inbound track line and situated such that gliders can safely land directly beyond it without turning.

### **5.9.2.2 Position of the Finish Line**

Positioning of the finish line and inbound track to it should take into account any potential conflict with any person, vehicle or structure on the approach to and around the finish line and should normally be placed near the runway threshold to maximise the safe landing area beyond.

## **5.9.3 Finish Ring**

### **5.9.3.1 Finish Ring Definition.**

A ring of specified radius (normally, but not exceeding, 3km) around the finish point encompassing the contest site and the landing circuits. The final leg distance is measured from the previous turnpoint to the edge of the finish ring.

### **5.9.3.2 Finish Ring Minimum Altitude**

When a Finish Ring is specified, a minimum altitude related to the performance of the lowest performance glider in task group, terrain, required circuit pattern, obstructions and expected prevailing wind should be set. Competitors crossing the finish ring below the minimum specified altitude shall be penalised. Note that, for verification purposes, take-off pressure level will be used as the datum.

## **5.9.4 Direct Landing Option**

For both the finish Line and Finish Ring, a viable direct landing option must be available to allow finishers to land ahead without turning after crossing the line or ring. A Control point should be utilised as necessary to ensure compliance.

## **5.9.5 Safety and airmanship at finish.**

Competitors shall be reminded in the local rules that all pilots must be aware of and fly within the requirements the law, namely the UK implementation of SERA (Standardised European Rules of the Air) and its associated UK exceptions regarding low-flying and reckless or negligent endangerment of any person or property. To meet this requirement, regardless of the position of the finish, all approaches towards the airfield should prescribe a descending profile (other than to go-around where necessary), the landing area should be in the pilot's sight, and the airfield boundary must be crossed at a height which cannot endanger persons (seen or unseen), vessels or property.

## **5.9.6 Control.**

### **5.9.6.1 Control at a Finish Line**

Given by the glider crossing the line under its own momentum, in the correct direction; .  
Gliders landing within the declared boundary of the airfield having failed to correctly finish will be deemed to have finished 5 minutes after they come to rest.

### 5.9.6.2 *Control at a Finish Ring*

Given by the glider entering the finish ring at or above the lower limit of the minimum altitude penalty volume.

## 5.10 AIRSPACE

### 5.10.1 Pilot's Responsibility for Airspace Avoidance

It is the pilot's responsibility to ensure that Airspace is not infringed at any time.

### 5.10.2 Application of Airspace Penalties

If the flight recorder evidence shows a logged point within prohibited airspace prior to engine start or actual out-landing the specified penalties will be applied, irrespective of whether the flight performance gains a score or not. This is assessed using the procedure in Appendix 2.

### 5.10.3 Airspace Types Excluded

Gliders are excluded from the following Airspace during competition: –

Class A – Airways, except where they pass through a TMA or CTR of a lower status.

Class C

Class D – Mostly CTRs (Control Zones) and CTAs (Control Areas)

RMZs, TMZs and all airspace above FL100 unless exempted by provision of "Glider sector" that may be utilised without the need for a transponder or clearance from appropriate ATC.

Prohibited Areas.

Restricted Areas, except Note 2 and 2a areas that only apply to helicopters.

Danger Areas prefixed with an 'N' (subject to local bylaws) on the ICAO 1/2 million chart.

Any other specific areas, i.e. deemed active parachute sites, Temporary Restricted or Prohibited Areas and Temporary Danger Areas specified by the Organisation in text on the daily task sheets.

### 5.10.4 ATZs

ATZs are not designated as excluded airspace. However, entry into an ATZ without first obtaining permission, or information which enables the flight to be conducted safely, as prescribed by the Rules of the Air, is unlawful and must be avoided. Unauthorised penetration of an ATZ may be dealt with by the application of an airspace penalty.

Directors may designate selected ATZs in the task area as additional penalty zones if they judge it appropriate and brief pilots accordingly.

### 5.10.5 Landing In a Penalty Zone with Permission

Penetration of a designated Penalty Zone may be made without incurring a penalty provided:-

- The penetration was made in order to land and that a landing was made promptly once inside the zone.

- The Director is satisfied that the penetration was made with the permission of the local controlling authority and was obtained at the time by radio before the penetration took place.

#### **5.10.6 Block Airspace Exemptions**

Flights within certain Class D, RMZ and TMZ airspace may be permitted by a briefed block exemption obtained from the controlling authority by the contest organisation.

### **5.11 ACCIDENTS & DAMAGE**

#### **5.11.1 Accident Reporting.**

Any accident or damage affecting the Airworthiness of a glider must be reported to the Director who is responsible for ensuring that the BGA reporting procedure is followed. All competing gliders must be available for inspection at the Director's request.

#### **5.11.2 Repair.**

A damaged glider may be repaired. The following items may be repaired by replacement: control surfaces, tailplane, airbrakes, flaps, canopy, undercarriage gear and doors, propeller, non-structural fairings, wing tips and winglets. Where damage occurs to wing outer panels, wing extensions or winglets, these may be substituted with stubs or lower span extension parts provided that at all times the glider is flown within its C of A and at the original handicap.

If the damage was no fault of the pilot, the whole glider or any part of it may be replaced with the consent of the Director. Landing damage is normally assumed to be the fault of the pilot.

#### **5.11.3 Collision.**

Glider involved in an airborne collision, however minor, will for scoring purposes be deemed to have out-landed at the point of the collision.

### **5.12 COMMUNICATIONS**

#### **5.12.1 Radio**

##### **5.12.1.1 Permitted use of Radio**

The use of radio in competitions is principally for the communication of safety messages and official competition information. The following conditions apply to the use of radio:

- Pilots may use radio to exchange essential safety information with their crews.
- Pilots may use radio to communicate with other pilots taking part in the same competition.
- Pilots may use radio to exchange competition and safety information with the organisers.
- Pilots may use radio to communicate with air traffic services as prescribed in 5.12.1.3.
- Communications between a pilot (or P2) and any ground station or non-competing aircraft (as defined in 5.13.1) that could result in competitive advantage to the pilot, including but not limited to any reporting on the position, altitude, climb-rate etc. of other gliders, is prohibited.

### ***5.12.1.2 Permitted Channels***

Except as permitted by section 5.12.1.3, voice transmissions must only be made on the radio channels specified in this section and as set out in the Local Procedures.

Pilots may use the standard cross-country situational awareness channels (130.105 and 130.130) for on-task situational awareness, pilot chat and team-flying conversations; pilot chat and team-flying conversation is only permitted on these channels and is excluded from all other channels.

Pilots may additionally use the cloud flying channel (130.535) for situational awareness whilst cloud flying; this channel must not be used for any purpose other than cloud flying safety communications.

The competition organisers shall specify channels for the following purposes in the Local Procedures:

- Competition Control (start/finish control, competition announcements, start area safety) on 129.890 or 130.405.
- Airfield Operations (launching and relight coordination – may also be used for finish control) 129.980, 118.685 or the airfield's own frequency, if it has one.

### ***5.12.1.3 Use of Other Channels***

Voice transmissions may be made on other channels to contact air traffic services or airfield operators for reasons of safety and to aid situational awareness only. Valid communications with these ground stations include obtaining permission to enter an ATZ, to land at an airfield, to make courtesy position calls when near to sensitive airspace boundaries, or in the event of an emergency.

### ***5.12.1.4 Listening Watch***

To improve safety, competitors should maintain a listening watch on the specified Competition Control channel, especially during the launch, prior to starting, whilst finishing and landing.

## **5.12.2 Information**

### ***5.12.2.1 Passing Information***

The wilful reception of information by pilots (including P2 in multi-seaters) while airborne, from the ground or from non-competing pilots, by radio or any other means, with the intention of gaining competitive advantage, is not permitted.

### ***5.12.2.2 Data Transmission and Reception***

Data transmission or reception initiated or made use of by the pilot (or P2 in multi-seaters) by any means is not permitted. This does not apply to automatic communication by anti-collision warning systems (e.g. Flarm, ADSB), one way safety locators (e.g. SPOT), or mobile devices that are switched on but not in use.

## **5.13 EXTERNAL AIDS**

### ***5.13.1 Help in Finding Lift***

Help in finding lift by any non-competing aircraft, including competitors not in the act of carrying out the task of their own class, is prohibited.

## 5.14 DOPING

The British Gliding Association recognises and adopts the UK Anti-Doping Rules published by UK Anti-Doping (or its successor), as amended from time to time. Such rules take effect and will be construed as rules of the British Gliding Association. The British Gliding Association also recognises and adopts the Fédération Aéronautique Internationale (FAI) Anti-Doping Rules and Procedures version 2.1 (or any subsequent amendments). If there is a conflict between the rules of the FAI and the UK Anti-Doping Rules the rules of the FAI will prevail.

### Additional guidance notes for competitors

- Any substance likely to enhance performance or create an unfair advantage, whether taken intentionally or unintentionally, is forbidden in all gliding competitions. Many prescribed or over-the-counter drugs may also be prohibited.
- Some drugs prescribed for a medical condition, and whose use is necessary for safety reasons, may be permitted. It is the sole responsibility of the pilot to ensure that any drugs prescribed to him/her or purchased by him/her are permitted or that a TUE (therapeutic use exemption) is obtained to cover their use.
- A very small number of top international competitors may be required to take part in Out-of-Competition Testing. They will be informed and advised about this separately.

All relevant information on FAI Anti-Doping Procedures including Applications for TUE and List of Prohibited Substances may be found by using the following web link – <https://www.fai.org/anti-doping>

## 5.15 CLOUD FLYING

### 5.15.1 Cloud Flying Radio

Gliders must not enter cloud unless equipped with a serviceable radio operating on the glider cloud flying frequency of 130.535 Mhz .

### 5.15.2 Before Entering Cloud

Shortly before entering, the pilot must announce their intention on this frequency, and give the following:

- Call sign.
- Altitude above sea level and position with approximate bearing and distance from a feature on the 1:500,000 map. In addition the pilot should give the exact bearing and distance to their next task Turnpoint in degrees true and kilometres.
- Where gliders are approaching or have recently rounded a Turnpoint, the call should be relative to the nearest task Turnpoint.

### 5.15.3 While in Cloud

If other gliders are present in the same cloud, height information must be exchanged at regular intervals and a minimum vertical separation of at least 500 feet must be maintained, the higher glider having priority.

### 5.15.4 On leaving Cloud

The pilot must call immediately 'clear of cloud'.

### 5.15.5 Right of Way

Transiting gliders must give way to circling gliders.

### **5.15.6 Near a Start Zone or Base Airfield**

Pilots must remain clear of cloud and in full visibility of all gliders in the same thermal when within 10km of any start zone and base airfield reference point.

### **5.15.7 No Cloud Flying Prior to Start**

Additionally, pilots must not enter cloud prior to starting even if more than 10km from the start zone reference point of the task group – see start rule 5.6.5.

Failure to comply with the above will be considered dangerous or hazardous flying.

## **5.16 AIRMANSHIP & SAFETY**

### **5.16.1 Parachutes**

On every competition flight each glider occupant must wear a parachute unless the glider is equipped with an approved airframe recovery parachute system.

### **5.16.2 Direction of Thermal Turn**

A glider joining another in a thermal must circle in the same direction.

### **5.16.3 Illness or Disability**

Pilots must not fly if ill or suffering from any disability that might endanger the safety of themselves or others.

### **5.16.4 Jettisoning Water Ballast**

Water ballast must not be jettisoned in a manner likely to be detrimental to other competitors.

### **5.16.5 Flarm**

The use of Flarm (or compatible proximity warning device) is highly recommended.

## **5.17 OUTLANDING**

### **5.17.1 3<sup>rd</sup> Party Complaints.**

These must all be promptly reported to the Director.

### **5.17.2 Deemed Position of Outlanding.**

For calculation of scoring distance, the glider will be deemed to have landed at the most favourable of the following: –

- The place the glider comes to rest under its own momentum, except that if the landing is on an airfield then the published reference point will apply, or
- The most advantageous Flight Recorder logged point prior to landing or operation of engine, or
- The next Turnpoint, if it is contained within the boundary of the airfield of landing.

### **5.17.3 Outlanding Reporting**

Pilots having landed out must contact Contest Control within 1 hour from landing advising Turning points claimed and landing position. Further prompt communication is required advising when crew and pilot have met up.

## **5.18 SECOND ATTEMPT**

If after any flight from which a score can be claimed the pilot wishes to make a further attempt, a valid start must be made. This invalidates any previous attempts that day.

## **5.19 PROTESTS**

The following procedure will be used to make, consider, and decide protests. At any point in the procedure the organisation may consult the Competitions Committee for advice on interpretation of the rules.

### **5.19.1 Stage 1 – Contesting a Decision**

A registered competitor wishing to contest a decision must, in the first instance, do so to the Director either verbally, or in writing, stating clearly why they think that a decision or penalty is incorrect and what different result, if any, they consider would be more appropriate. The Director will give consideration to the pilot's argument and explain fully the reasons for upholding, changing, or rescinding the original decision or penalty. Contesting a decision concerning scores must be made within 24 hours of the publication of unofficial results for the relevant day, except that if full day and overall results cannot be published by midnight on the last day of the competition, the contest period shall be five days from the publication of unofficial results.

### **5.19.2 Stage 2 – Making a Formal Protest**

If not satisfied at stage 1, the registered competitor may, within a further 24 hours, make a formal protest in writing to the Director for consideration by the Stewards together with payment of a protest fee equal to the charge for an aero-tow at that competition. The written protest must state clearly the grounds for appeal and present all the evidence that the pilot wishes to be considered. It is not required by these rules that the pilot be given an opportunity to present their evidence to the stewards in person (although the parties may agree to this) so the protest, and evidence presented, must be complete and sufficient to allow proper deliberation and a decision to be made.

The Stewards will decide upon a majority vote to either overturn or confirm the Director's decision at stage 1. A written explanation of the decision will be provided by the Stewards and made available to the pilot. If the protest is upheld the protest fee will be returned; otherwise it will be paid to the charity of the pilot's choice. There is no further appeal beyond stage 2.

## **5.20 CONTEST MINIMA**

Any day on which at least one glider scores is a contest day, and any competition with at least one contest day is a valid contest.

## **5.21 PENALTIES**

### **5.21.1 List of Approved Penalties**

See 7.1 for a comprehensive list of approved penalties.

### **5.21.2 Disqualification**

For scoring purposes disqualified competitors will be deemed not to have flown on the day(s).

### 5.21.3 Application of Penalties

All other penalties are applied after scores have been calculated and, except for Dangerous/Hazardous flying infringements and cheating and falsifying documents penalties, will not result in a negative score.

## 5.22 ENGINE EQUIPPED GLIDERS

Engine equipped gliders must comply with the following procedures:-

### 5.22.1 Self-Launching.

Self-launching gliders must follow the same general climb out pattern as aero towed gliders and shut down their engine in the designated release area at or below the designated release height. If the designated release height at point of shutdown is exceeded by more than 100 feet then any subsequent flight performance will be subject to penalties unless the pilot lands and re-launches correctly.

### 5.22.2 Self-Sustainers Engine Test

The engine will be run after launching and prior to starting for a single period of not more than 60 seconds when directed by the Competition Organisation to test engine noise monitoring, and/or as required by the pilot to establish engine serviceability. The engine test must be completed by no more than 15 minutes after the start line opening time or 15 minutes after the time of release from tow, whichever is the later.

### 5.22.3 Further Engine Operation.

Any other engine operation prior to landing ends competition flying for that day. Self-retrieving gliders must return directly to the competition site without delay to minimize the effect on pilots still competing.

## 5.23 CALCULATION OF SCORES

### 5.23.1 The 1000 Point Scoring Principle

Scores are calculated each day by awarding the best performer 1,000 points, subject to any devaluation factor, and calculating other competitors' points by comparing their performance to that of the Day Winner. The overall scores are the sum of all of the day scores.

### 5.23.2 Scoring Parameters & Formulae

See 7.2 for full details of the scoring calculation system.

### 5.23.3 Glider Speed Index (Handicap).

A competitor's performance is adjusted during the scoring process by the gliders Speed Index. Most gliders and their speed indices are included in the list at Appendix 1. In Open, 18M, 15M and Standard Class Nationals, a Speed Index of 100 is used for all gliders.

### 5.23.4 Additional Performance Enhancements

Additional performance enhancements to the standard glider will attract the following increments to the speed index: –

Span	1 per ½ metre or part thereof
------	-------------------------------



Winglets	0.5, unless part of the original design or marked with a (w) on the list, the only exception to this being gliders with a span of 21 metres or more prior to modification.
Wing Root Fairings	0.5, unless the modification is manufacturer specified on a later derivative of the same glider design enjoying the same handicap.
Any other performance-enhancing modifications, apart from turbulator tape; vortex generators; taping; sealing and masking of gaps; end plates to ailerons and flaps; bug-wipers.	A speed index adjustment may be applied if deemed necessary by the BGA Competitions Committee. Such adjustment to come into force at the next publication of the BGA handicap list.

#### 5.23.5 Windcapping.

With the exception of Distance Handicapped tasks, an adjustment is made to the distance of each task leg flown, depending on the wind strength (in knots) and direction. For Preliminary scores they may be estimated, but for Unofficial and Final scores they must be deduced by assessing the thermal drift from a representative cross section of competitors' Flight Recorder traces.

In Distance Handicapped Tasks, windcapping is applied using a forecast of the competition wind and is applied before the task is flown by influencing the barrel-sizes applied to the various speed indices.

The wind strength is adjusted by dividing it by a contest dependent wind division factor (see 7.2.2), but shall not exceed a value of 30.

#### 5.23.6 Distances.

In all calculations, the Start Point, Finish Point, and Fixed Course Turnpoints are the published Latitude and Longitude coordinates. For Assigned Area Tasks, the Turn-points are the logged point in each Assigned Area that results in the greatest overall distance.

For Fixed Course tasks, the achieved distance of an uncompleted leg is the length of that leg less the distance between the Out-landing Point and the next Turnpoint, or Goal.

For Assigned Area tasks, the achieved distance of an uncompleted leg is computed as follows: -

Mark the nearest point on the boundary of the next area from the Out-landing point or the point at which the task time expires

- Use this point to find the scoring point in the previous area that will maximize task distance and record the distance between them.

- This distance, minus the distance between the Out-landing point and the next Area, is the length of the uncompleted leg.

If an uncompleted last leg is less than zero its effect is ignored.

#### **5.23.7 Scoring Distance Handicap Tasks.**

These task types are not yet fully supported by the SeeYou scoring software, but will be scored as for Fixed Course tasks. The tasks are designed to give all finishers the same windcapped distance. However, using the Fixed Course rules for measuring distances for scoring outlandings, and for assessing whether or not a glider has exceeded the qualifying distance, can potentially lead to some inconsistencies. For all gliders, the distance awarded for any completed leg will be the declared task leg distance (unhandicapped and not wind adjusted) between the turnpoint coordinates. Distances for uncompleted legs will be calculated as for Fixed Course Tasks, regardless of the turnpoint size being used by any glider. This will mean that any two gliders landing at the same point will be given the same distance for that leg, regardless of handicap and regardless of how much distance advantage may, or may not have been gained before landing.

#### **5.24 PUBLICATION OF SCORES.**

Preliminary day scores should be published as soon as possible. Day score sheets must contain each competitor's position, day points, name, glider type, glider identity, start time, finish/elapsed time, speed/distance flown and, for handicapped competitions, glider handicap. Unofficial day scores, including description of any penalties or warnings, should be available at the first task briefing on the following day. If there are no protests or requirements for additional evidence these scores become final 24 hours after publication. Otherwise scores become final 24 hours after the determination of any protest or alteration in the light of additional evidence, and publication of amended scores. Final day scores should be published as soon as practicable and, if not published on a web site, duplicated so that each pilot can retain a copy. Score sheets should be annotated as either Preliminary, Unofficial or Final with Unofficial score sheets carrying the time and date of publication so that protest period may be referenced.

Copies of the last day scores must be available within 5 working days (Organisers should consider using the BGA's or their own Web site) and the final competition scores must be distributed to competitors within 10 days from the end of the competition. If these are subject to protests and amendments, the final results or amendments thereto, must likewise be distributed to competitors within a further 12 days, i.e. within 22 days from the end of the competition.

All hors-concours pilots and any pilots who are not of British nationality, nor principally resident in the UK and subject to the payment of British taxes, must be annotated on entry and result sheet.

#### **5.25 DIRECTORS REPORT**

Within 4 weeks of the end of the competition, the Director shall submit a written report to the Chair of the BGA Competitions and Awards Committee. The report should follow the format set out in section 4.8 of the BGA Competition Organisers' Guide.

## 6 RATING LIST & TEAM SELECTION

### 6.1 RATING LIST.

The **Rating List** ranks pilots for entry into oversubscribed National competitions. It is calculated from performances in BGA rated competitions and International Championships held during the previous twelve month period ending September 30<sup>th</sup> together with devalued ratings from the previous year's list. Performances in foreign competitions will be considered provided pilots apply to the BGA with a list of results prior to September 30<sup>th</sup>.

#### 6.1.1 Competition Rating.

This is derived by adjusting the **Base Rating** for the type of competition, from the following table, by the number and perceived quality of entrants. The **Base Rating** and **Standard Entry** for foreign competitions will be determined individually by the Competitions Committee based on their perceived individual merit.

**Comp Rating** = **Base Rating** + (No. of Competitors – **Std Entry**) x ½ + **Pundits** x 10,  
where **Pundits** = No. of competitors with current **Rating Score** greater than the **Comp Base Rating**. For non-UK competitions **Pundits** = zero.

Type of Competition	Base Rating	Std Entry
UK National Championships, except the Junior Nationals	1000	45
UK Regionals and Junior Nationals	750	15
World Championships except the Women's and Junior	1400	25
European Championships - except the Women's and Junior	1300	25
Other International Championships	1000	25

#### 6.1.2 Rating Score.

A competition winner receives a **Rating Score** equal to the **Competition Rating**. Other participants' **Rating Score** is calculated using the **Competition Rating**, their final position and their points score relative to the winner. All pilots receive a **Rating Score** for every competition entered during the twelve month period plus one calculated by deducting 250 from the previous year's highest **Rating Score**. Pilots' positions on the **Rating List** depend on their highest **Rating Scores**.

$$\text{Rating Score} = \text{Comp Rating} - 475 \times (\text{Pilot Position} - 1) \div (\text{No. of Competitors} - 1) \\ - 475 \times \text{MIN}((\text{Winner's Points} - \text{Pilot's Points}) \div (0.6 \times \text{Winner's Points}), 1)$$

If **Rating Score** < minus 200 then **Rating Score** = minus 200

### 6.1.3 Rating of Team Entries.

When more than one pilot during a competition acts as pilot in a single seat aircraft or in the case of a two-seater when more than one pilot qualifies as registered pilot, only the pilot who earns the greatest proportion of the winner's points on the days flown receives a **Rating Score** calculated from glider's final competition position and the total points score.

### 6.1.4 Rating Ties.

These are resolved in favour of the pilot with the highest percentage of the winner's points in their **Rating Score** competition.

## 6.2 INTERNATIONAL TEAM SELECTION

### 6.2.1 Timing of International Team Selection.

Selection procedures are carried out at the end of the UK competition season prior to any International Championship and Pre-Worlds for all Northern Hemisphere competitions. For competitions in the Southern Hemisphere, the World Championship team selection is carried out prior to the Pre-World competition.

### 6.2.2 International Team Member Qualifications.

The Sporting Code requires that competitors in International Championships meet all the following criteria: –

- Satisfy the FAI Sporting Code Annex A Section 3.2 regarding citizenship and representation.
- 250 total hours pilot in command, of which at least 100 hours is in sailplanes.
- Hold a current FAI Sporting Licence.
- Have competed in two National Championships unless a Gold badge is held – not applicable for Junior Nationals.
- Junior competitors must not have a 25th birthday prior to the 1st January in the year that the Championship commences.

In addition the BGA may apply additional requirements, depending on the competition concerned. See the individual competition paragraphs below for details.

### 6.2.3 World Championships (unrestricted) Team Selection

#### 6.2.3.1 *Open, 18 metre, 15 metre, Standard and Club Class.*

Any World Champion from the previous event in class is selected automatically. Up to two further competitors are selected by vote for each class from a voting panel, all being eligible for selection. The voting panels consist of all pilots who have achieved a placing in the top 50% rounded to the nearest place, of the appropriate preceding two UK National Championships in class plus any other pilots in the class team squad. Where this procedure produces a voting pool of eligible pilots of less than 20 then further pilots of lower placings from both years are added in percentage placing order to enlarge the voting pool to 20 where possible.

#### 6.2.3.2 *20m. Two Seat Class.*

Any World Champion from the previous event in class is selected automatically. If there is no current World Champion in class, one lead pilot is selected by vote from a voting panel, all being eligible for selection. The voting panel is to consist of all pilots who have achieved a placing in the top 50% rounded to the nearest place, of the preceding two UK National

Championships in class plus any other pilots in the class team squad and also all pilots who have achieved a top 5 placing in all other UK National Championship classes in the two preceding cycles of competitions. (see also note on page ii) The selected lead pilot may choose his co-pilot and must confirm availability of a competitive 20m. flapped glider prior to a team place being granted as this is a mandatory requirement.

#### **6.2.3.3 13.5m. Class**

This class is not currently supported.

#### **6.2.3.4 Sole Basis of Team Selection**

Without exception, team selection for any class and entry authorisation will be based solely upon perceived ranked pilot ability as defined using the procedures in 6.2.3 irrespective of opportunity that may be provided by wild card rules of IGC.

#### **6.2.3.5 Class Team Squad.**

After the World Championship is completed, a new class team squad is formed consisting of the selected participants in class of the just completed unrestricted World Championship plus those selected participants from the previous unrestricted World Championship in class. The squad is then subsequently enlarged to include the top three placed pilots in the two Nationals in class held prior to the team vote as well as participants in class that achieve a top 40% position rounded to the nearest place in the European Championship prior to the team vote. Pilots are deleted from the squad prior to voting if they have not achieved a top 50% placing rounded to the nearest place in at least one of the last three Nationals in class preceding the vote. The identification of class squad members is intended to aid BGA marketing projects and to help target pre-event training opportunities.

#### **6.2.3.6 Pilot Options**

All pilots eligible for entry in more than one class may choose which class they wish to compete in.

Priority for choice of class is determined by vote order. In all cases where there is an option, pilots must make their preferences known within two weeks of notification of the vote result.

### **6.2.4 European Championships**

#### **6.2.4.1 Open, 18 metre, 15 metre, Standard, Club Class and 20metre Multi-Seat Class**

Competitors may only compete in the class from which they qualify, with priority for the team of up to two per class (or three if there is a current European Champion in class) determined by the criteria below in order:-

- Current European Champion in class
- Current National Champion (applicable only if National Championship has two or more competition days)
- Current European gold, silver and bronze medal holders
- Current World Championship gold, silver and bronze medal holders
- Current National second and third place holders (applicable only if National Championship has two or more competition days)
- Next most recent National first, second and third place finishers (applicable only if National Championship has two or more competition days)
- Top 6 priority order in most recent World team vote

- Additional pilot(s) by the invitation of the Competitions Committee if the above criteria do not result in a full team

#### **6.2.4.2 13.5m Class**

This class is not currently supported.

#### **6.2.4.3 Pilot Options**

All other pilots eligible for entry in more than one class may choose which class they wish to compete in.

In all cases where there is an option, pilots must make their preferences known within two weeks of notification of “eligibility for entry”.

### **6.2.5 Junior World Championships.**

#### **6.2.5.1 Junior Team Squad.**

A squad of nominally 8 pilots will be chosen before the 1<sup>st</sup> March following the previous JWGC by current British Team Coaches with reference to BGA Competition and Awards sub-committee and Team Manager. Pilots may exceptionally be added or removed as found necessary at the discretion of the coaching team.

#### **6.2.5.2 Junior Team selection.**

A team of 4 pilots will be chosen by current British Team Coaches with reference to BGA Competition and Awards sub-committee and Team manager no less than 6 months before the event and normally at the end of season prior to event.

Final selection will be based upon:-

- Performance in all competitions including Regional, National and International Championships (minimum requirement is to have flown at least one National Championship or suitably similar standard of competition other than the Junior Nationals).
- Commitment to team training and development initiatives.
- Commitment to promoting the Junior team within the wider gliding community.
- Commitment to the search for individual or preferably team sponsors.
- Access to a competitive glider that can be shipped to competition site in due time – its instrumentation and condition will additionally be taken into consideration.

### **6.2.6 Women’s World Championships.**

Normally up to 4 competitors are selected by the following criteria in order but subject to having fully participated in a UK Nationals within the last two years:-

- Medal winners from the preceding Women’s World Championships. (may only be selected for class that medal was achieved)
- Pilots with BGA ranking of 550 or higher in either the current or the previous year.
- 4<sup>th</sup> or 5<sup>th</sup> place in the preceding Women’s World Championship. (may only be selected for class that medal was achieved)
- Top 60% (rounded to the nearest place) in an unrestricted European or World Championship in the preceding two years. (may only be selected for class that the place was achieved)

Class position is determined by the priority order with the highest placed medal winner having first choice, then by highest BGA ranking derived from Nationals in class, then by highest BGA ranking derived from Nationals out of class or Regionals through to the pilot with the lowest position in the last Women's Worlds in class.

### 6.2.7 Women's World Championships 2022

For the particular case of the Women's World Championships 2022 being held in the UK up to 9 competitors will be proposed by current British Team Coaches and Team Manager for approval by the BGA Competition and Awards sub-committee and Team Manager no later than end 2021.

Final selection will be based upon:

- Performance in all competitions including Regional, National and International Championships using performance requirements of 6.2.6 as a guide only (minimum requirement is to have fully participated in at least one National Championship or suitably similar standard of competition other than the Junior Nationals in the last two years in addition to the FAI Sporting Code requirements detailed in 6.2.2).
- Commitment to team training and development initiatives in 2021/2022 and longer term.
- Commitment to promoting the team within the wider gliding community.
- Commitment to the search for individual or preferably team sponsors.
- Access to a competitive glider.

### 6.2.8 Commitment Fee

All pilots selected, may, at the discretion of the team manager, be required to pay the BGA a sum equalling the competition entry fee or £1,000 whichever is the least. This fee to be reimbursed to pilots prior to the event starting. Any pilot subsequently withdrawing without a satisfactory replacement being found or allowed to compete will forfeit their Commitment Fee.

### 6.2.9 Voting System.

This appears convoluted but minimises the effect of tactical voting. For the result to be accepted, at least 50% of the voting panel must return a valid vote.

#### 6.2.9.1 Valid vote

A Valid Vote is one where all available places on the ballot paper have been completed with different eligible pilot names which do not include that of the voter.

#### 6.2.9.2 Procedure.

**Step 1.** Delete from all ballot papers the name of anyone who has not submitted a valid vote and count the total number of valid ballot papers.

**Step 2.** Delete any pilot already selected from all ballot papers. Make separate piles of ballot papers, one for each pilot who now heads the list on any of them. Count the papers in each pile and calculate that pile's percentage of the total.

**Step 3.** Action the following options as applicable until the required list of pilots is achieved.

**Option 1.** Any pilot heading the list on more than 50% of ballot papers is selected. Go back to **Step 2**.

**Option 2.** If no pilot heads more than 50% of ballot papers but there are two clear leaders, the one placed above the other on the majority of ballot papers is selected. Go back to **Step 2**.

*Detailed procedure: Identify the two pilots with the largest piles from Step 2. Count the number of times each of these two pilots appears above the other on all of the ballot papers. The pilot who is higher placed than the other more often is selected.*

If this process results in a tie, go to **Tie-Breaking**

**Option 3.** If ties result in more than two clear leaders, all ballot papers are re-allocated between the tied pilots in favour of the highest placed on each list. The pilot with the fewest votes is eliminated. This process is repeated until only one of the previously tied pilots remains. If this results in just a single pilot remaining, he/she is selected. If, as most likely there are two pilots remaining because there was one untied pilot at the outset, repeat the process to select one. Go to **Step 2**. If this process results in a tie still remaining, go to **Tie-Breaking**.

**Tie-Breaking.** If **Option 2** produces a tie or **Option 3** fails to resolve one, then the pilot placed higher on the current BGA Rating List predominates.



## 7 APPENDICES

### 7.1 LIST OF APPROVED PENALTIES

Type of offence	First offence	Repeat Offence on subsequent day	Repeat offence on further subsequent day
<b>Wrong, late or missing information</b>			
Notification of start time > 30 minutes after start	Warning	10 points	25 points
Declared start time differs from real time >2 minutes	Warning	10 points	25 points
Changing FR without advising the Organisers	10 points	20 points	25 points
FR fix interval set greater than required	Warning	10 points	25 points
Late delivery of FR or other documents > 60 minutes	Warning	10 points	25 points
Late delivery of back-up FR or documents >60 minutes from receipt of request	Warning	10 points	25 points
Missing FR evidence – exceeding 60 seconds, where it cannot be reasonably established that airspace was not infringed or engine not operated	Out-landed at that point	Out-landed at that point	Out-landed at that point
<b>Incorrect start and rounding of TP areas</b>			
Cloud flying prior to start	100 points	Day Disqualification – minimum 500 pts.*	Disqualification*
Starting from within Horizontal Penalty Area	50 points	50 points	50 points
Starting from within Vertical Penalty Volume	4 points/10ft or part	4points/10ft or part	4 points/10ft or part
Exceeding maximum start height in the 2 minutes prior to Starting	1 point /10ft. or part, above start height	1 point /10ft. or part, above start height	1 point /10ft. or part, above start height
Controlled only within a Turnpoint Penalty Area	50 points	50 points	50 points
<b>Dangerous or hazardous flying</b>			
Cloud flying – incorrect radio protocol	Warning	100 points	Day Disqualification - minimum 500 pts.*
Cloud flying – within 10km. of any start zone or base airfield reference point.	100 points	Day Disqualification – minimum 500 pts.*	Disqualification*
Flying outside glider's C of A limits.	100 points	Day Disqualification – minimum 500 pts.*	Disqualification*

Type of offence	First offence	Repeat Offence on subsequent day	Repeat offence on further subsequent day
Single or multiple penetrations of prohibited airspace simultaneously greater than 200m.horizontally and 100' vertically.	500 points	Day Disqualification – minimum 500 pts.*	Disqualification*
Single or multiple consecutive penetrations of an individual volume of prohibited airspace NOT simultaneously greater than 200m.horizontally and 100' vertically.	50 points multiplied by the number of days on which this penalty has been applied. IE 50 on day 1, 100 on day 2, 150 on day 3, and so on.		
Finish and subsequent flying– incorrect landing pattern.	Warning	100 points	Day Disqualification – minimum 500 pts.
<p>Finish and approach to finish – hazardous or prohibited manoeuvre including :-</p> <p>1) flight below 30' AGL outside the declared airfield perimeter. FR evidence from 500' above airfield elevation will be used to verify any deliberate planning of energy management that leads to flight below the minimum limit. Such proven cases will not be exempt from penalty.</p> <p><b>NB</b> Penalty shall not be applied if flight below 30ft outside the airfield perimeter has been due to an emergency straight-in approach where it is not possible to maintain safe airspeed to maintain the minimum ground clearance or in the event of an out-landing.</p> <p>2) any approach that does not describe a descending flight path other than to convert from a straight in approach to a go around or for reasons of flight safety.</p> <p>3) Flight below 30' inside the airfield perimeter except when on landing approach</p>	100 points	Day Disqualification – minimum 500 pts.*	Disqualification*
Hazardous/dangerous flying recommended by PSC for penalty, if not covered by other penalty	100 points	Day Disqualification- Minimum 500 points*	Disqualification*

Type of offence	First offence	Repeat Offence on subsequent day	Repeat offence on further subsequent day
<b>Cheating or falsifying documents</b>			
Falsifying electronic files or paper documents	Disqualification		
Attempt to obtain help for finding lift from non-competing glider or aircraft	Day Disqualification – minimum 500 pts.	Disqualification*	
Use of any non-approved radio frequency for communication of any sort whilst airborne except those expressly permitted in these Rules, or in emergency	250 points	Day Disqualification – Minimum 500points*	Disqualification*
Prohibited content voice or data transmission or wilful reception	250 points	Day Disqualification – Minimum 500points*	Disqualification*
<b>Other violations</b>			
Glider all up weight in excess of class and/or C of A limit	Weight over limit in Kg x 2 points	Weight over limit in Kg. x 2 points x no. of occurrences	Weight over limit in Kg. x 2 points x no. of occurrences
Positive doping control	see FAI policy	see FAI policy	see FAI policy
Excess wing span when measured with wings supported to match unloaded shape with 0.3cm. allowance. The excess is rounded to the nearest cm.	1 point per cm.	1 point per cm.	1 point per cm.
Self-sustainer engine test >60 seconds clean running.	1point per second	1 point per second	1 point per second
Late completion of engine test. >15 min after release or start line opening whichever is later.	Warning	25 points	Day Disqualification
Exceeding the designated release height at point of engine shut-down by more than 100ft (see para 5.22.1)	1 point per two feet, or part thereof, in excess of the designated release height.		
Exceeding Declaration Weight in Club Class	2 points per 2kg or part thereof times the number of days flown including the one to be flown that day		
Failure to comply with specific single procedure not covered elsewhere.	25 points	100 points	Day Disqualification – minimum 500 pts.*
Crossing Finish Ring up to 50ft below specified minimum altitude	1 point /1ft subject to limit of pilot's speed points	1 point / 1ft subject to limit of pilot's speed points	1 point / 1ft subject to limit of pilot's speed points
Crossing Finish Ring in excess of 50ft below specified minimum altitude	No Control	No Control	No Control

\* **"Day Disqualification"** means the loss of all day points, with a minimum penalty of 500 points. If the competitor has scored fewer than 500 points, an additional penalty equal to the difference shall be applied.

\* "**Disqualification**" means the loss of all points awarded to date in the contest by the application of an equivalent penalty on the day, followed by compulsory withdrawal with effect from the following day.

## 7.2 SCORING PARAMETERS & FORMULAE.

The following table lists and explains the key parameters and formulae used in calculating the scores; Table 7.2.1 explains the calculation of the Qualifying Distance and 7.2.2 lists the contest dependant variables used in scoring. The following table not only defines each variable used in scoring, but also follows the scoring process flow.

Distance Handicapped Tasks will use the same rules and formulae as Fixed Course Tasks, but the effects of all speed indices and wind adjustment will be ignored. This is done by the UK scoring script using the appropriate option.

Parameter		Description
<b>W</b>	Contest Wind	<b>W</b> = Wind strength in knots divided by contest wind division factor from table 7.2.2  If result exceeds 30 then <b>W = 30</b> . See Rule 5.23.5
<b>H</b>	Glider Speed Index (Handicap)	See Rule 5.23.3
<b>Hi</b>	Leg Handicap Increment	For each leg:- <b>Hi = 100 * (√ (1 - (W ÷ 46)<sup>2</sup> sin<sup>2</sup>θ) - (1 + (W ÷ 46) cosθ))</b>  Where 'θ' is the non-reflex relative angle between the track and the direction the wind is coming from.
<b>HI</b>	Leg Wind Adjusted Speed Index	For each leg:- <b>HI = H + Hi</b> If result < 25, then <b>HI = 25</b>  For each the leg, the actual distance is adjusted by multiplying by 100 and dividing by <b>HI</b>
<b>Dm</b>	Marking Distance	The total handicapped distance flown by a glider. The sum of ((Actual distance flown along each leg * <b>100</b> ) ÷ <b>HI</b> ).
<b>Dmax</b>	Greatest Marking Distance	Greatest marking distance flown by any glider

Parameter	Description
<b>Dw</b> Winner's Marking Distance	For Fixed Course Tasks only. The fastest finisher's marking distance or, if no finishers, the greatest marking distance flown by any glider.
<b>Tg</b> Time taken to complete course	Glider's Finish time minus Start time in hours
<b>Tm</b> AAT Minimum Task Time	In hours
<b>Y</b> Qualifying Distance	<p>For Fixed Course <b>Y</b> is an appropriate percentage of either the un-handicapped task length or windicapped task length depending on contest type, as shown in table 7.2.1</p> <p>For AATs, <b>Y</b> is calculated by multiplying the Minimum Task Time in hours by a contest dependent factor as shown in table 7.2.1</p> <p>Minimum and maximum values for <b>Y</b> are also listed in table 7.2.1</p>
<b>Sh</b> Finisher's speed	<p>For Fixed Course tasks, a finisher's speed is produced by dividing the Marking Distance, <b>Dm</b>, by the time taken to complete the course <b>Tg</b>.</p> <p>For AATs a finisher's speed is produced by dividing the Marking Distance, <b>Dm</b>, by the greater of</p> <p style="text-align: center;">(a) the time taken to complete the course <b>Tg</b> (b) the Minimum Task Time <b>Tm</b>.</p>
<b>Vh</b> Fastest Finisher's speed	<p>The greatest speed of all finishers.</p> <p>N.B. In AATs the fastest finisher is not necessarily the winner.</p>
<b>N</b> Number of Participating Gliders	<p>The number of gliders not withdrawn from the contest at the start of launching.</p> <p><b>NB</b> "withdrawn" means having given formal notice to the director of the intention to take no further part in the competition or, in the absence of such notice, having been deemed by the director to have withdrawn following reasonable steps being taken to contact the competitor.</p>

Parameter		Description
<b>Ni</b>	Number of Gliders launched	The number of participating gliders accepting at least one launch.
<b>Ny</b>	Number Past Y	The number of participating gliders for which <b>Dm</b> is greater than or equal to <b>Y</b>
<b>Nv</b>	Number exceeding $2/3^{\text{rds}}$ Vh	The number of participating gliders that finish with a speed exceeding $2/3^{\text{rds}}$ fastest finisher's speed. i.e. for which <b>Sh</b> $> 0.6667 * Vh$
<b>Ff</b>	Day Factor	The Day Factor <b>Ff</b> is calculated by dividing the number of gliders exceeding <b>Y</b> by the number of participating gliders and multiplying by 1.25, thus if 80% or more of the gliders pass Y, Ff will be 1.  <b>Ff = 1.25 * (Ny ÷ N)</b> If result greater than 1, then <b>Ff = 1</b>
<b>D</b>	Devaluation Distance	For Fixed course, <b>D = Dw</b> For AATs, <b>D = Dmax</b>
<b>Da</b>	Devaluation Distance Adjustment	<b>Da = 250</b> for Nationals, <b>0</b> for Regionals and Junior Nationals (see table 7.2.2)
<b>T</b>	Devaluation Time (for tasks with a finisher)	For Fixed course, <b>T = winner's Tg</b> For AATs, <b>T = Tm</b>
<b>Ta</b>	Devaluation Time Adjustment	<b>Ta = 200</b> for Nationals, <b>0</b> for Regionals and Junior Nationals(see table 7.2.2 )
<b>F</b>	Day Points	<b>F</b> is the minimum value from  a) $Ff * 1000$ b) $Ff * ((5 * D) - Da)$ c) $Ff * ((400 * T) - Ta)$ (for tasks with a finisher) <b>d) 0</b> if task distance is less than contest minimum task length (see table 7.2.2 )

Parameter		Description
<b>Fv</b>	Day Speed Points	<p>The proportion of Day Points awarded for speed depends on the proportion of gliders that complete the course in excess of 2/3<sup>rd</sup>s of the fastest finisher's speed, to the number of gliders launched.</p> <p>It falls linearly from 66.67%, when all gliders complete at sufficient speed, to zero with no finishers.</p> $\mathbf{Fv = 0.6667 * F * (Nv \div NI)}$
<b>Fd</b>	Day Distance Points	$\mathbf{Fd = F - Fv}$
<b>Ps</b>	Glider Speed Points	<p>The speed points gained are proportional to the amount by which a finisher's speed exceeds 2/3<sup>rd</sup>s of the fastest speed.</p> $\mathbf{Ps = 3 * Fv * ((Sh \div Vh) - 0.6667)}$ <p>If the result is less than zero then <math>\mathbf{Ps = 0}</math></p>

Parameter	Description
<p><b>Pd</b>      Glider Distance Points</p>	<p>For Fixed Course and Distance Handicapped Tasks:</p> <p>All finishers receive the same distance points as the winner so in this case:</p> <p style="text-align: center;"><b><math>Pd = Fd</math></b></p> <p>Non-finishers receive the Day Distance Points multiplied by the ratio of their marking distance to the greatest marking distance:</p> <p style="text-align: center;"><b><math>Pd = Fd * (Dm \div Dmax)</math></b></p> <p>For AATs</p> <p>Finishers exceeding 2/3<sup>rds</sup> of the greatest marking distance receive the same distance points as the winner so in this case:</p> <p style="text-align: center;"><b><math>Pd = Fd</math></b></p> <p>The remainder receive the Day Distance Points multiplied by the ratio of their marking distance to 2/3<sup>rds</sup> of the greatest marking distance:</p> <p style="text-align: center;"><b><math>Pd = Fd * Dm \div (Dmax * 0.6667)</math></b></p> <p>For non-finishers</p> <p style="text-align: center;"><b><math>Pd = Fd * (Dm \div Dmax)</math></b></p>
<p><b>P</b>      Glider Points</p>	<p><b><math>P = Ps + Pd</math></b> (sum is rounded to nearest integer, 0.5 rounded up)</p>



## 7.2.1 Qualifying Distance

	<b>Fixed Course and Distance Handicapped</b>  Y = %age of task length	<b>AAT</b>  Y =Time in hrs multiplied by	<b>Minimum Y</b>  (km)	<b>Maximum Y</b>  (km)
<b>Open Nationals</b>	50% Wind adjusted	40	100	200
<b>18m and 15m and 20m Multi-Seat Nationals</b>	50% Wind adjusted	36	90	180
<b>Standard and Club Nationals</b>	50% Wind adjusted	32	80	160
<b>Junior Nationals and Regionals</b>	40% Un- handicapped	30	60	120

## 7.2.2 Contest Dependent Variables

	Task Minima		Contest Wind Division Factor	Devaluation Adjustment	
	Fixed Course Task Length (km)	AAT Designated Task Time (hrs)		Distance Da =	Time Ta =
<b>Open Nationals</b>	150	2.0	1.18	250	200
<b>18m Nationals</b>	150	2.0	1.10	250	200
<b>15m and 20m Multi- Seat Nationals</b>	150	2.0	1.04	250	200
<b>Standard Nationals</b>	150	2.0	1.00	250	200
<b>Club Nationals</b>	120	2.0	1.00	250	200
<b>Junior Nationals and Regionals</b>	80  NB For DHTs, this applies to the Handicapped Task Distance IE the distance a glider of Handicap 100 would fly to complete the task	2.0	1.00	0	0

### 7.3 GLIDER SPEED INDICES

AC-4A	83	DG300 (w)	96.5
AC-4B	83	DG303	97
AC-4C	85	DG400 (15m)	97
Acro Twin 2	85	DG400 (17m)	101
Acro Twin 3	89	DG500/505 trainer (fixed gear)	90
Antares (18m)	111	DG500/505 trainer (retractable)	92
Antares (20m)	114	DG500/505 Orion (20m)	98
Arcus	107	DG500/505 (20m) flapped	100
AS33 (15m)	104.5	DG500/505 (22m)	104
AS33 (18m)	111.5	DG600 (17m)	105
ASG29 (15m)	104	DG600 (15m)	99
ASG29 (18m)	111	DG600 (15m-w)	99.5
ASH30	117.5	DG600 (18m)	107
ASG32	107	DG800 (18m)	110
ASH25	113	DG800 (15m)	103
ASH25 (25.6m)	114	DG800 (15m-w)	103.5
ASH25 (26m)	115	DG1000 (20m)	102
ASH25 (27m)	115	DG1000 (18)	96
ASH25EB28	116	DG1000 (18) (fixed gear)	94
ASH26	110	Diamant 18	100
ASH31 (18m)	111	Diamant (16.5m)	89
ASH31 (21m)	115	Discus	98
ASK13	67	Discus (w)	98.5
ASK14	72	Discus 2	100
ASK16	60	Discus 2 (w) & 2c (15m)	100.5
ASK18	81	Discus 2c (18m)	106
ASK21	85	Discus 2c FES (15m)	99.5
ASK23	85	Discus 2c FES (18m)	105
Astir CS	89	Duo Discus	101
Astir Jeans	86	Duo Discus (w)	101.5
ASW12	105	Duo Discus X (700kg)	101.5
ASW15	89	Duo DiscusX (750kg)	102
ASW17	106	Duo Discus XL	102
ASW19a,b	93	Eagle	68
ASW19club	90	Fauvette	74
ASW20	98	FK3	89
ASW20b,c	98	Foka 4	81
ASW20bi	102	Foka 5	83
ASW20 cl	101	Glasflugel 304	99
ASW20f	98	Glasflugel 604	107
ASW20FL	101	Grob 102	85
ASW20L	101	Grob 109b	70
ASW22 (24m)	114	Grunau Baby	55
ASW22b	116	Hornet	90
ASW22bi	117.5	HpH304SFES	109
ASW24	97	HpH304S	110
ASW24 (w)	97.5	HpH304TS	107
ASW27a,b	104	Iris	80
ASW28	100	IS28b	80
ASW28-18 (15m)	100	IS29d	83
ASW28-18 (18m)	106	IS32	101
Bergfalke 4	69	Jantar 1	105
Bergfalke	65	Jantar 2	106
BG135	74	Janus a,b	96
Blanik	65	Janus c (fixed gear)	98
Bocian	65	Janus c (retractable)	100
Calif A21	100	Jaskolka	69
Capstan	62	JS1a,b	111
Cirrus (17.7m)	94	JS1c (18m)	111
Cirrus (18.8m)	96	JS1c (21m)	118
Club Libelle	86	JP15-36a	87
Cobra 15	85	JS3 (15m)	104.5
Dart 15	76	JS3 (18m)	111.5
Dart 17r	83	K-2	64
DG300 club (fixed)	93	K-6cr	76
DG100/101	90	K-6e	81
DG100/101 (fixed)	88	K-7	64
DG200	97	K-8	69
DG202 (15m)	97	Kestrel 19	102
DG202 (17m)	101	Kestrel 20	104
DG300 club (retractable)	95	Kestrel 22	107
DG300	96	Kite 2a	60
		Kranich	58
		Lak12	105
		Lak17a (15m)	103
		Lak17a (15m-w)	103.5

Lak17a (18m)	109	Std. Cirrus	90
Lak17b (15m)	104	Std. Cirrus (16m)	92
Lak17b (18m)	110	Std. Libelle	89
Lak17b FES (15m)	103	Stemme S10	104
Lak17b FES (18m)	109	Super Blanik	72
Lak 19 (15m)	99.5	Superfalke	64
Lak 19 (15m-w)	100	Swallow	62
Lak 19 (18m)	106	SZD 59	92
Libelle 301	96	SZD 30 Pirat	78
LS1 (0,c,d)	88	SZD 50 Puchacz	80
LS1-0 (fixed)	85	SZD 51 Junior	83
LS1f	91	SZD 55	98
LS3 (15m)	98	SZD 56	103
LS3 (17m)	102	SZD-54-2 Perkoz (20m)	93
LS4	96	SZD-54-2 Perkoz (17.5m)	87
LS6 (15m)	101	T21	50
LS6 (15m-w)	101.5	T53	69
LS6c (17.5m)	106	Tandem Falke	60
LS6c (18m)	107	Torva	83
LS7	97	Twin Astir	87
LS7 (w)	97.5	Vega (17m)	101
LS8 (15m)	100	Vega (15m)	97
LS8-18 (18m)	106	Ventus a,b (16.6m)	104
LS-10	110	Ventus a,b,c (15m)	101
L-Spatz	72	Ventus c (17.6m)	106
ME7	83	Ventus 2a,b,ax	104
M 100S	72	Ventus 2c,cx,cxa (15m)	104
M 200	74	Ventus 2cxa FES (15m)	103
Marianne	91	Ventus 2c,cx (18m)	110
Meise	62	Ventus 2cxa (18m)	111
Minimoa	70	Ventus 2cxa FES (18m)	110
Mini Nimbus	98	Ventus 3S (15m)	104.5
Mistral c (fixed)	88	Ventus 3S (18m)	111.5
Mosquito a,b	98	Ventus 3S T (15m)	104.5
Moswey 3	69	Ventus 3S T (18m)	111.5
Moswey 4	72	Ventus 3S FES (15m)	103.5
Nimbus 3 (25.5m)	115	Ventus 3S FES (18m)	110.5
Nimbus 2,b,c	106	Ventus 3P T (18m)	111
Nimbus 2cs (23.5m)	111	Ventus 3P M (18m)	111
Nimbus 3 (24.5m)	114	Viking	85
Nimbus 3 (25.5m)	115	Weihe	67
Nimbus 3d (24.6m)	113	WA22	72
Nimbus 3d (25.6m)	114	WA28	86
Nimbus 4	117.5	Zugvogel 3b	83
Nimbus 4d	115		
Oly 403	76		
Oly 463	76		
Olympia 2	62		
Olympia 419	78		
Pegasus Club (fixed gear)	92		
Pegasus	95		
Phoebus 17	93		
Pik20	96		
Pilatus B4 (fixed gear)	80		
Pilatus B4 (retractable)	82		
Prefect	56		
PW 5	81		
Rhoensperber	57		
Salto (15.5m-w)	87		
SB 5e (16.5m)	83		
SD 3/15	81		
SF 26	76		
SF 27a	82		
SF 27b	83		
SFH 34	85		
SHK-1	89		
Sie3	81		
Silene	88		
Silent 2 Electro	94		
Sky	72		
Skylark 2	67		
Skylark 3	77		
Skylark 4	78		
Speed Astir	96		
Sport Vega	89		
Std Jantar	92		

118	JS1c (21m),	92	Std Jantar, Pegasus Club (fixed), SZD 59, Std. Cirrus (16m), DG 500/505 trainer (retractable)
117.5	ASW22bl, Nimbus 4, ASH30	91	LS1f, Marianne
116	ASW 22b, ASH25EB28	90	DG 100/101, Std. Cirrus, Hornet, ASW19 club, DG 500/505 trainer (fixed)
115	ASH25 (26m),ASH 25 (27m), ASH31 (21m), Nimbus 3 (25.5m), Nimbus 4d	89	ASW15, Std. Libelle, SHK-1, Astir CS, Acro Twin 3, Diamant (16.5m), FK3, Sport Vega,
114	ASH25 (25.6m),Antares(20m), ASW22, Nimbus 3 (24.5m), Nimbus 3d (25.6m)	88	LS1 (0,c,d), Silene, Mistral c(fixed), DG100/101 (fixed)
113	ASH25, Nimbus 3d (24.6m)	87	JP15-36a, Twin Astir, Salto (15.5m-w), SZD-54-2 Perkoz (17.5m)
111.5	JS3 (18m), Ventus 3S & ST (18m) ,AS33 (18m)	86	Astir Jeans, Club Libelle, WA28
111	Nimbus2cs (23.5m) , ASG29 (18m), JS1a,b,c(18m), Antares (18m), Ventus2cxa(18m), ASH31(18m) , Ventus 3P T & M (18m)	85	Acro Twin 2, ASK 21, ASK 23, Cobra 15, SFH 34, Viking, AC-4C, Grob 102, LS 1-0(fixed)
110.5	Ventus 3S FES (18m)	83	Dart 17r, Foka 5, IS29d, SB 5e(16.5m), Torva, Zugvogel 3b, SZD 51 Junior, SF 27b, AC-4A,AC-4B, ME7
110	ASH26 Ventus2c, cx (18m), Lak 17b (18m), DG 800 (18m), HPH304S, LS-10,Ventus2cxa FES (18m)	82	SF 27a, Pilatus B4 (retractable)
109	Lak 17a (18m) , Lak 17b FES (18m), HPH304SFES	81	Foka 4, K-6e, SD3/15, Sie3, PW5, ASK18
107	LS 6c (18m), DG 600 (18m), Glasflugel 604, Kestrel 22, Arcus, ASG32,HPH304TS	80	Pilatus B4 (fixed), Iris, IS28b, SZD50 Puchacz
106	Nimbus 2, b, c, ASW17, LS8-18 (18m), LS 6c (17.5m), Ventus c (17.6m), Jantar 2, Lak 19 (18m), ASW28-18 (18m), Discus 2c (18m)	78	SZD 30 Pirat, Skylark 4, Olympia 419
105	DG 600 (17m), Jantar 1, Kestrel 20, ASW12, Lak 12, Discus 2c FES (18m)	77	Skylark 3
104.5	JS3 (15m), Ventus 3S & ST (15m), AS33 (15m)	76	K-6cr, Dart 15, Oly 403, Oly 463, SF26
104	ASW27a,b, ASG29 (15m), Ventus2 a,b,ax, Ventus2c,cx,cxa (15m), Lak 17b (15m), Ventus a, b (16.6m), Kestrel 20, DG 500/505 (22m), Stemme S10	74	BG135, Fauvette, M200
103.5	DG 800(15m-w), Lak 17a(15m-w), Ventus 3S FES (15m)	72	ASK14, L-Spatz, M100S, Moswey 4, Super Blanik, WA22, Sky
103	SZD 56, DG 800 (15m), Lak 17a (15m), Ventus2cxa FES (15m), Lak 17b FES (15m)	70	Grob 109b, Minimoa
102	Duo Discus X (750kg),, Duo Discus XL, LS 3 (17m), Kestrel 19, DG1000 (20m),ASWbl	69	Bergfalke 4, Jaskolka, Ka8, Moswey 3, T53
101.5	Duo Discus (w), Duo Discus X (700kg), LS 6(15m-w)	68	Eagle
101	Duo Discus ,LS 6 (15m), Ventus a,b,c (15m), IS 32, ASWcl, ASW20L, ASW20FL, Vega L (17m), DG 400 (17m), DG 202 (17m),	67	ASK13, Skylark, 2, Weihe
100.5	Discus 2(w) & 2c (15m)	65	Bergfalke, Blanik, Bocian, Mucha Std.
100	Discus 2, LS 8 (15m), ASW28, ASW28-18 (15m), , Lak 19 (15m-w), DG 500/505 (20m) (flapped), Calif A21, Diamant 18, Janus, c (retractable)	64	Superfalke, K-2, K-7
99.5	DG 600 (15m-w),Lak 19 (15m), Discus 2c FES (15m)	62	Capstan, Meise, Olympia 2, Swallow
99	Glasflugel 304, DG 600 (15m)	60	ASK16, Kite 2a, RF-5b, Tandem Falke
98.5	Discus (w)	58	Kranich, Mu13
98	Discus, , SZD 55, Mosquito a,b, ASW20, ASWb,ASWc, ASW20f, Mini Nimbus, LS 3 (15m), Kestrel (17m), Janus c, (fixed), DG 500/505, Orion (20m)	57	Rhoensperber
97.5	ASW24 (w), LS7 (w)	56	Prefect
97	DG 200, DG 202 (15m), Vega (15m), DG 400 (15m), ASW24, LS 7, DG303	55	Grunau Baby
96.5	DG300(w)	50	T21
96	LS 4, DG 300, Libelle 301, Pik 20, Speed Astir, Cirrus (18.8m), Janus a,b, DG 1000 (18m),	46	Falke
95	Pegasus, DG 300 Club (retractable)		
94	Cirrus (17.7m), DG 1000 (18m, fixed), Silent 2 Electro		
93	ASW19 a,b, DG 300 Club (fixed), Phoebus 17, SZD-54-2 Perkoz (20m)		

## 7.4 HEIGHT VERIFICATION PROCEDURE

**For checking for vertical infringement in airspace designated by flight level (eg. FL45),** all logged heights will be referenced in any case to FL0. If an airspace infringement is indicated then the pilot must submit a valid calibration chart within the protest period to avoid an additional penalty in accordance with 5.5.7 as failure to provide a calibration chart will result in the assumption that the calibrated height puts any logged points 100 feet vertically further into the airspace than indicated with any airspace penalties varied accordingly. Any adjustment required by reference to the calibration chart is deduced by identifying the difference in error between calibrated chart reading at the 1013.25 hPa pressure altitude or that at the ambient test pressure altitude with that closest to height of infringement. In any case, the calibration will be used to reduce, eliminate or increase the airspace penalty as appropriate. Where a chart shows a calibration at a particular test altitude more than once, the most advantageous calibration favouring the pilot should be used in all cases.

**For checking for vertical infringement in airspace designated by flight altitude above sea level (eg. 3500ALT),** any verification software will correct all logged readings by the offset of documented airfield altitude from logged take-off height. If an airspace infringement is indicated then the pilot must submit a valid calibration chart within the protest period to avoid an additional penalty in accordance with 5.5.7 as failure to provide a calibration chart will result in the assumption that the calibrated height puts any logged points 100 feet vertically further into the airspace than indicated with any airspace penalties varied accordingly. Any adjustment required by reference to the calibration chart is deduced by identifying the difference in error between calibrated chart reading closest to airfield height compared to that closest to height of infringement. In any case, the calibration will be used to reduce, eliminate or increase the airspace penalty as appropriate. Where a chart shows a calibration at a particular test altitude more than once, the most advantageous calibration favouring the pilot should be used in all cases.

**For checking for vertical infringement of start height above airfield elevation (eg. 4000ft QFE) or during the pre-start interval, or infringement of minimum finish height,** any verification software will correct all logged readings by the offset of documented airfield altitude from logged take-off height. If an infringement is indicated then the pilot may submit a valid calibration chart within the protest period. Any adjustment required by reference to the calibration chart is deduced by identifying the difference in error between calibrated chart reading closest to airfield height compared to that closest to height of infringement. In any case, the calibration will be used to reduce, eliminate or increase the airspace penalty as appropriate. Where a chart shows a calibration at a particular test altitude more than once, the most advantageous calibration favouring the pilot should be used in all cases.