



Federation Aeronautique Internationale  
International Gliding Commission

Oslo, January 31<sup>st</sup> 2002

## **Revised Bid for the 3<sup>rd</sup> Club Class World Championship 2004**

This bid replaces the bid submitted December 31<sup>st</sup> 2001.

**Norwegian Airports Federation, Gliding Section**, respectfully submits this bid for the 3<sup>rd</sup> Club Class World Championship in 2004.

On this page is a brief summary of the bid; the following pages contain the bid in detail.

### **1 Summary**

The Norwegian Airports Federation asks that **ELVERUM/STARMOEN AIRFIELD (ENHN)**, situated 150 km north of the Norwegian capital Oslo, to be selected as the site for the 3<sup>rd</sup> Club Class World Championship in 2004.

Dates	Training period Opening ceremony Competition flying Prize giving and closing ceremony	June 5 – June 11 2004 June 12 2004 June 13 – June 26 2004 June 27 2004
Contest organization	A sufficient contest organization will be set up. Contest Director has already been appointed.	
Travel	Elverum/Starmoen is located 150 km from the capital Oslo. There are several ferry lines between Norway and Denmark/Germany. Elverum/Starmoen is 100 km from Oslo/Gardermoen airport. Elverum/Starmoen is 270 km from Sandefjord airport, which has connections with low fares airlines to the continent. Bus and train connections to/from Oslo.	
Airfield	Elverum/Starmoen (ENHN) N60.13 E010.19, elevation 200m, is the national gliding centre. Dimensions of the airfield are 1200x200 m.	
Tasks	Tasks will be according to Sporting Code Annex A. Task Area will be the same as used for the national championship. Turn points will be from the national list of over 200 turn points. Soaring conditions normally goes up till 2800m.	
Tow planes	Enough tow planes to launch the fleet in one hour will be provided. The goal is to launch the pilots in one hour or less.	
Communications	Cellular phone coverage is excellent in Norway. Public phones will be available.	
Fees	Entry fee EUR 725. Towing fee EUR 36 to 600 meters. Camping on site EUR 200 per tent or caravan.	
Camping/overnight facilities	Camping facilities available on site and in Elverum (10km). There are a variety of overnight facilities and restaurants in Elverum (10km).	



## Index

1	Summary.....	1
2	Competition goals.....	3
3	Contest Organization .....	3
4	Championship dates .....	3
5	Fees .....	3
5.1	Entry fee.....	3
5.2	Towing .....	3
5.3	Camping.....	3
6	Travel.....	4
7	Airfield .....	5
7.1	General .....	5
7.2	Dimensions .....	5
7.3	Conflicting traffic .....	5
7.4	Glider tiedown and trailer parking .....	6
7.5	Glider transport on airfield.....	6
7.6	Operating Considerations.....	6
8	Task Area.....	7
8.1	General .....	7
8.2	Tasks, turnpoints and maps.....	7
9	Towplanes .....	8
10	Communications .....	8
11	Catering .....	8
12	Camping / sleeping facilities .....	8
13	Familiarisation competition.....	9



## 2 Competition goals

We hope that the competition will:

- Go down in history as the best club class world championship ever.
- Give the international soaring community a suitable site and a successful arrangement in order to develop the club class further.
- Be a boost for Norwegian competition and cross-country soaring.
- Give Norway valuable experience to enable us to organise World/European championships in the future.

The 2004 world championship will be the largest competition we have ever had in Norway. The project recognizes this, and will put every effort into making the championship "the best games ever".

## 3 Contest Organization

A sufficient contest organization will be set up. Contest Director has already been appointed. Contest Director will be Mr Hans Petter Fure (age 60, glider pilot and tow pilot). Mr Fure has been contest director for the national championships for the last 10 years. A sufficient organisation will be set up for the event.

## 4 Championship dates

Training period	June 5 – June 11 2004
Opening ceremony	Jun 12 2004
Competition flying	June 13 – June 26 2004
Prize giving and closing ceremony	June 27 2004

## 5 Fees

### 5.1 Entry fee

The entry fee based on today's prices will be EUR 725.

### 5.2 Towing

Towing fee for 600 meters is estimated to be EUR 36.

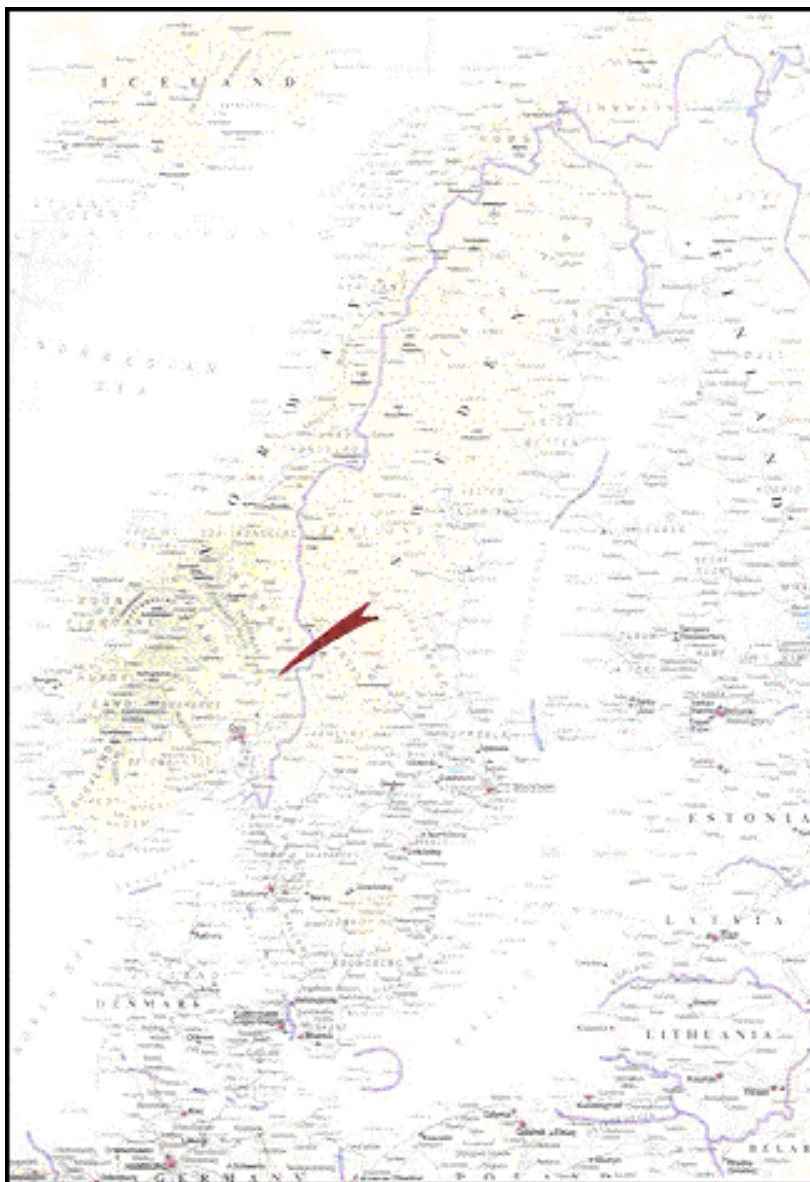
### 5.3 Camping

Camping on site in forest area is EUR 200 per tent or caravan for the duration of the competition.

## 6 Travel

Elverum/Starmoen is located in the south-eastern part of Norway, 150 km from the capital, Oslo, where ferry lines from the Continent arrives, and 100 km from Oslo/Gardermoen airport.

Bus and train connections to/from Oslo.



## 7 Airfield

### 7.1 General

Elverum/Starmoen (ENHN) has coordinates N60.13 E010.19, and elevation 210m.

Starmoen Airfield is the Norwegian national gliding centre, owned by the Norwegian Airports Federation. Elverum is the nearest town (10km).

The airfield has been developed during the last 20 years. Starmoen attracts a growing number of both national and international pilots.

Starmoen is an excellent gliding site, with a variety of terrain options, ranging from agricultural areas to the south, hills and mountains to the north, and wild mountainous terrain to the northwest. Out landings is almost always performed in the valleys.

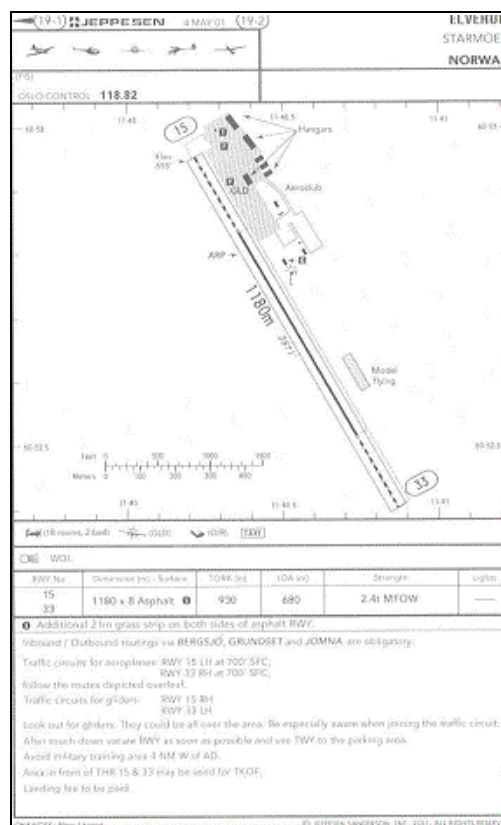
### 7.2 Dimensions

Dimension of the airfield is 1200x200 meter or 3600x600 feet. The surface is grass with one asphalt strip 1180x8 meter.

The whole area (grass included) may be used for takeoff and landings. In national contests the field is launched from the grass area. Tow plane/glider is normally airborne within 50% of the available takeoff distance.

There is no runway lights or other obstructions.

Rope break options taking off against north is good, against south limited, however gliders should have reach sufficient altitude to return to the field, when leaving field boundary.



### 7.3 Conflicting traffic

Starmoen has no commercial traffic. The local flying clubs are cooperative to this event and there will be no conflicting traffic.



## ***7.4 Glider tiedown and trailer parking***

Sufficient tiedown area will be provided in the northwest and/or northeast part of the airfield.

Each team must bring their own tie down equipment.

## ***7.5 Glider transport on airfield***

Auto towing to the grid is normally used. Vehicles can be parked near the grid.

## ***7.6 Operating Considerations***

Water Ballast is not used in Club class, however water outlets will be provided for washing gliders etc.

Start and finish will be GNSS according to Annex A. In national contests start procedure is according to §20.4 Option 3 and the intention is to use this procedure also in this contest. Finish line will be according to §20.7.

Straight in landing or normal landing pattern can be used after crossing finish line.

Oxygen is not required as thermals normally do not exceed 2800 meter QFE and the maximum altitude in the competition area is FL115.

Pilot Meeting space and catering facilities will be in the hangar at the northeast corner of the airfield.

The competition office will be in the administration building on site and there will be sufficient number of computers, copier etc to run the contest.

## 8 Task Area

### 8.1 General

Task Area will be the same as used for the national championship and is sufficient for a number of varied tasks. More than 200 turn points have been identified and crosschecked using GPS. They cover a large region to the south, west and north of Elverum. The competition turn point list will more or less be the same as used today.

Altitude limitation is FL115. There are very few airspace restrictions. Gardermoen (Oslo main airport) TMA in the south part of the task area is class D airspace, although we have a glider box with a FL70 limit. General conditions elsewhere in the task area has shown that this class D airspace is really not needed.

With exception of mountainous area, out landing options are sufficient. Tasks are set so as to avoid extensive crossings of mountainous area.

Soaring conditions in southeast part of Norway normally goes up to 2800 meter with thermals up to about 5 m/s.



### 8.2 Tasks, turn points and maps

Tasks will be according to Sporting Code Annex A.

Official turn point list will be issued on paper and made electronically available.

ICAO 1:500.000 map will be used.



## 9 Towplanes

Towplanes, including backup, to launch the entire fleet in one hour will be provided. The goal is to launch the gliders in one hour or less. We normally use a factor of one tow plane to eight gliders.

We plan to use towplanes in the 150–235 Hp range, considering club class with no water ballast. Typical towplanes in Norway are Cub 150Hp and 180Hp, Maule 180Hp, Rallye 180Hp, Cherokee 180Hp and Pawnee 235 Hp.

Towing altitude is expected to be 600 meter above field elevation, this is considered sufficient to search for thermals and remain airborne.

Fuel 100LL is available on the site.

Aero retrieve is possible from all airfields within the competition area.

## 10 Communications

Cellular phone coverage is excellent in Norway. Among a population of 4,5 million, more than 1 million cellular phones are sold.

Public phone is available in the airfield administration building.

## 11 Catering

Temporary catering facilities will be set up in one of the hangars during the contest; furthermore, the golf club cafeteria is within walking distance from the airfield.

## 12 Camping / sleeping facilities

Hotel is in Elverum (10km); today's prices are EUR 75 per person/night in double/kombi room and EUR 100 in single room, with full Norwegian breakfast.

Camping facilities in Elverum (10km) have cabins for 2 persons at EUR45 per night and 4 persons at EUR 65 per night, tent or caravan EUR 30 per night, all today's prices.

We are presently negotiating with a boarding school in Elverum as they normally close for summer holiday early in June. This accommodation will be somewhere between hotel and camping prices.

A wide variety of restaurants are available in Elverum.

Recreational Vehicle dump capability is at petrol stations in Elverum.





## 13 Familiarisation competition

A "pre-world" competition - "**Elverum Open**" - will be arranged in June 2003, where teams can be acquainted with the site, the facilities and the competition area.