



**FAI Aerobatics Commission (CIVA)
Annual Plenary Meeting 2022
Ibis Crissier, Lausanne**

Chief Judge's Report – the 3rd FAI WIAC

Torun Airfield, Poland

June 3 to 10, 2022



Chief Judge: Nick Buckenham (GBR) with Leif Culpin and Jen Buckenham.

Judges: Stef Hau (GER), Rod Hervé (GBR), Bela Guraly (HUN), Eladi Lozano (ESP), Richard Ponizil (CZE), Luca Andraghetti (ITA), René Meijer (NED).

Competitors and Registrations

This championship was originally combined with the proposed 6th FAI Yak-52 Championship, but for a variety of reasons including a poorly maintained website and the possibility for competitors to register their entries right up to the start of the event, at a late stage the number of registrations was very low. A major effort was therefore made primarily to transfer the few Yak-52 entries into the Intermediate category, then to strongly encourage NACs to make sure that their Intermediate entries were completed with the least possible delay. The final entry list contained 23 competitors from 8 countries, which under the circumstances was a fair result.

The Performance Zone

The airfield at Torun is large enough



to accommodate a full 1km square box, with good locations for the judging panel to the east, south and west as shown here. On the airfield a dedicated coach was available to transport the judging team and associated staff when necessary, making access to each judging position and establishment of the equipment a simple process that was quickly managed for each programme. The local organising staff were friendly, competent and efficient, the start of each judging session being achieved promptly and without delay.

Video recordings

The organisers provided two video recording staff, referred to here as 1 and 2 –

1. This operator had a domestic quality hand-held camera, spoke good English and informed us that he had some experience in this task. After some discussion and tuition regarding the basic requirements his recordings were used throughout when necessary, though stability of the image and thus its usefulness were marginal.
2. This operator used what appeared to be a higher quality device, though his English speaking ability was inadequate and his experience unknown; we later discovered his equipment could not be connected to the monitor and his recordings were therefore unusable.

Once again the importance of rapidly available, good quality, visually stable recordings of flights cannot be over-stated as these are ultimately the only way to reliably resolve whether Confirmed HZs should or should not be awarded when there is initial disagreement for a figure between the judges. At this championship there were again occasions when confirmation / denial of some HZs by video review were extremely difficult to resolve because either the image was unclear or not on-screen at the critical moment. Organisers **must** employ suitably experienced video operators with appropriate recording equipment, otherwise there is a real chance that the final results at a major championship will be calculated using wrong marks because adequate video standards have not been provided to resolve tricky HZ assessments. Organisers please note!

Warm-Up Pilot

Warm-Up flights throughout the competition were made to a good standard by Romanian team manager George Rotaru using the team's EA-330SC.

Score-sheet transmission to the Scoring Office

When the sets of judges' score-sheets had been assessed and approved, sometimes following a short delay if a video review was necessary, they were collected in batches and taken quickly to the scoring office. We understand the marks were entered and results calculated and posted online at regular intervals, and were not aware of any subsequent issues.

Flying standards

I am satisfied that the flying throughout this championship by all competitors was to a reasonably good standard; the final results show that excellent scores were achieved by the top pilots. It is inevitable there will be a wide range of skills and abilities in this entry-level category; for many competitors these Intermediate FAI events provide their first opportunity to experience the full "international championship" experience through a valuable series of days with real team pressures and increasingly complex sequences to fly.

Although the majority of competitors appeared to have prior competition experience limited to Intermediate level, some had competed in higher categories at national events and their performances were generally to a superior standard. It is also evident at this level that less-dynamic / older types of aircraft such as Zlin-50's, Yak-55's, Extra-230's, Edge-360's etc. can, if flown well, compete with little disadvantage by comparison with higher powered and more expensive carbon machinery, and it is my view that CIVA must take steps to strongly encourage participation by pilots limited to such equipment.

There were no significant in-flight incidents throughout the event, though operating with two radio frequencies – the normal airfield ATC system being used to control take-offs and landings and an in-flight change necessary to the safety frequency once airborne – led to some uncomfortable delays before two-way contact was established at the start of each performance. We initially used the supplied desktop VHF radio equipment but this proved unreliable, thereafter an excellent iCom hand-held unit was substituted.

Quality of Judging

The panel included three judges at their first international championship, while their assistants included some with minimal 'calling' experience to meet the demands of their colleagues. The data below shows clearly the moderate differences between them, particularly the average or centre-point of their marking output and also the natural scope or breadth of the range of their marks. I am confident that the output from this panel provided a balanced and sound assessment of the performances that we witnessed.

Individual judge assessments are as usual available on the CIVA Results website.

WIAC_2022 Lotnisko w Toruniu 4-11 June			FAI Stef HAU		FAI Rodolphe HERVE		FAI Bela GURALY		FAI Rene MEIJER		FAI Luca ANDRAGHETTI		FAI Ricard PONIZIL		FAI Eladi LOZANO	
			RI 10.11 [4]		RI 10.67 [4]		RI 10.77 [4]		RI 18.07 [4]		RI 19.79 [4]		RI 20.86 [4]		RI 22.56 [4]	
Use of Marks:			All Judges No %													
HZ - Hard Zeros			174	2.2	16	1.4	29	2.5	22	1.9	28	2.5	26	2.3	31	2.7
PZ - Perception Zeros			59	0.7	1	0.1	7	0.6	6	0.5	3	0.3	6	0.5	22	1.9
Marks from 0.0 to 6.5			1964	24.6	225	19.7	254	22.3	319	28.0	215	18.8	280	24.5	451	39.5
Marks from 7.0 to 10.0			5787	72.5	899	78.8	850	74.5	794	69.6	894	78.4	829	72.7	636	55.7
AV - averages			3	0.0	0	0.0	1	0.1	0	0.0	1	0.1	0	0.0	1	0.1
Total marks Pilots/Judge			7987		1141	88	1141	88	1141	88	1141	88	1141	88	1141	88

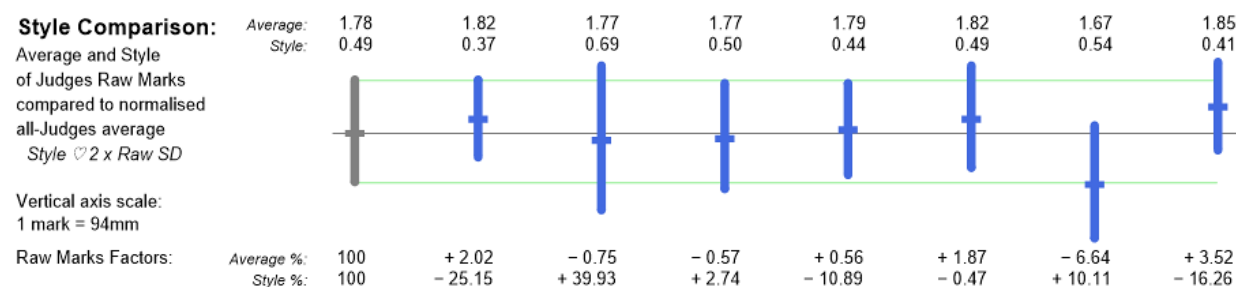


Figure anomalies

HZ to fitted value	47	0.6	1	10	4	11	8	10	3
Mark to confirmed HZ	27	0.3	7	3	4	5	4	1	3
PZ to confirmed HZ	0	0.0	-	-	-	-	-	-	-
PZ to fitted value	6	0.1	-	-	1	1	1	3	-
AV to confirmed HZ	0	0.0	-	-	-	-	-	-	-
AV to fitted value	3	0.0	-	1	-	1	-	1	-
Lo to fitted value	42	0.5	2	8	4	5	12	5	6
Hi to fitted value	26	0.3	2	2	3	9	2	1	7
The 60% Rule	0	0.0	-	-	-	-	-	-	-
Total figure anomalies	151		12	24	16	32	27	21	19

Sequence anomalies

Team Pilots assessed
in FPS pass-2

CZE Czech Republic	12	1 Lo 6 Hi	- 1 Hi	1 Lo -	- -	- -	- -	- 5 Hi	- -
HUN Hungary	12	2 Lo 5 Hi	1 Lo -	- -	- 2 Hi	- 1 Hi	- 1 Hi	1 Lo -	- 1 Hi
NOR Norway	4	2 Lo 1 Hi	- -	- 1 Hi	2 Lo -	- -	- -	- -	- -
POL Poland	24	7 Lo 2 Hi	1 Lo -	- 2 Hi	- -	1 Lo -	2 Lo -	2 Lo -	1 Lo -
ROM Romania	16	2 Lo 1 Hi	- -	- -	- -	1 Lo -	- 1 Hi	- -	1 Lo -
SWE Sweden	4	2 Lo 0 Hi	- -	- -	- -	1 Lo -	- -	- -	1 Lo -
USA United States	12	2 Lo 1 Hi	1 Lo -	- -	1 Lo -	- -	- -	- -	- 1 Hi
LAT Latvia	4	2 Lo 1 Hi	1 Lo -	1 Lo -	- -	- 1 Hi	- -	- -	- -
Total sequence anomalies	20 Lo 17 Hi	4 Lo 1 Hi	2 Lo 3 Hi	3 Lo 2 Hi	3 Lo 2 Hi	2 Lo 2 Hi	3 Lo 5 Hi	3 Lo 2 Hi	

Review of Perception Zeros

PZ's accepted = 15	-	1	3	-	2	5	4
PZ's rejected = 44	1	6	3	3	4	17	10
Totals per Judge	1	7	6	3	6	22	14



Nick Buckenham
WIAC-22 Chief Judge