

EUROPEAN OPERATORS FDM CONFERENCE

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Disseminating the teaching of FDM inside your company

Captain Pascal MIDY
Flight Safety Manager

EOFDM 1° conference - January 12, 2012



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« Individual performance follow-up »

EOFD 1° conference - January 12, 2012

« Quick Change » airline with a mix activity:

3

Pax :

charter flights

Cargo :

mail,

express freight

cargo



The leading operator of quick-change aircrafts

4

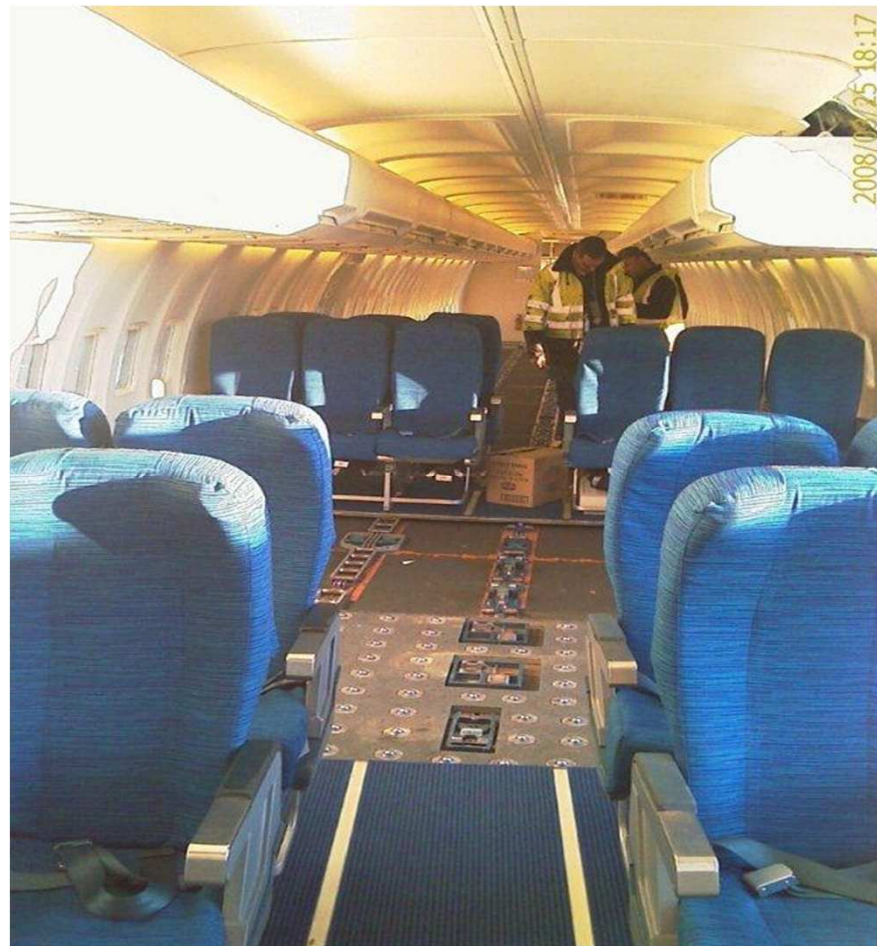
16 B737-300:

14 Quick-Change

2 «full cargo»

B737-700:

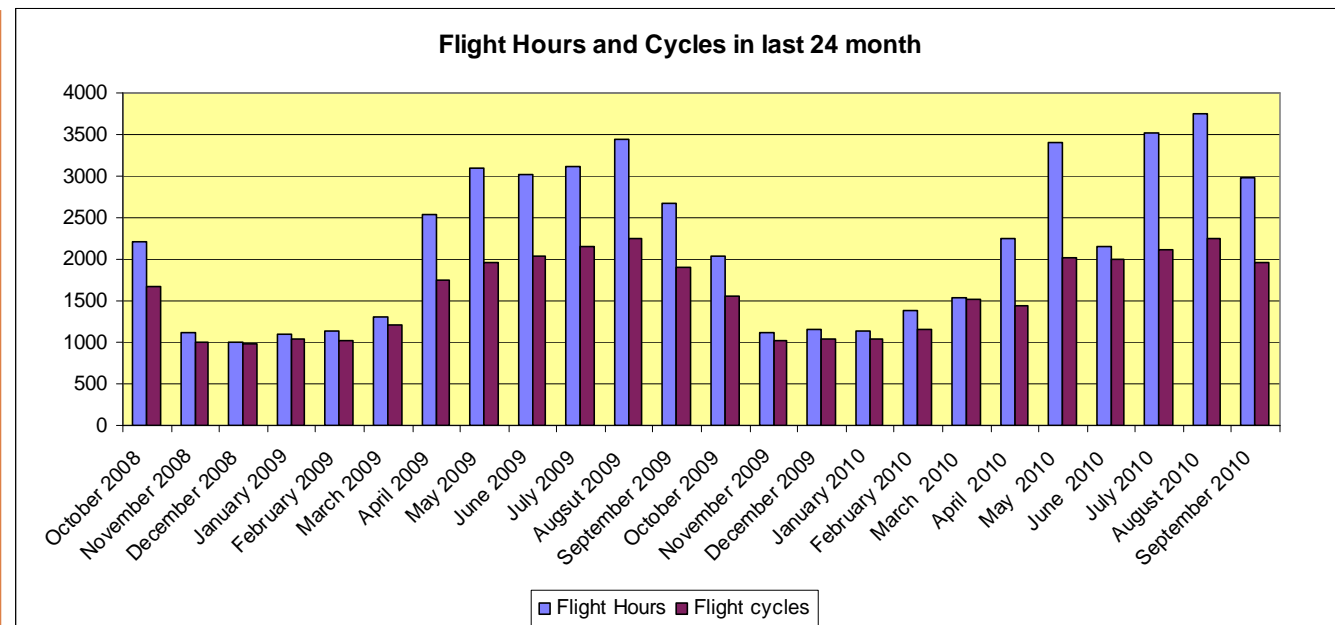
2 «full pax»



Recording


5

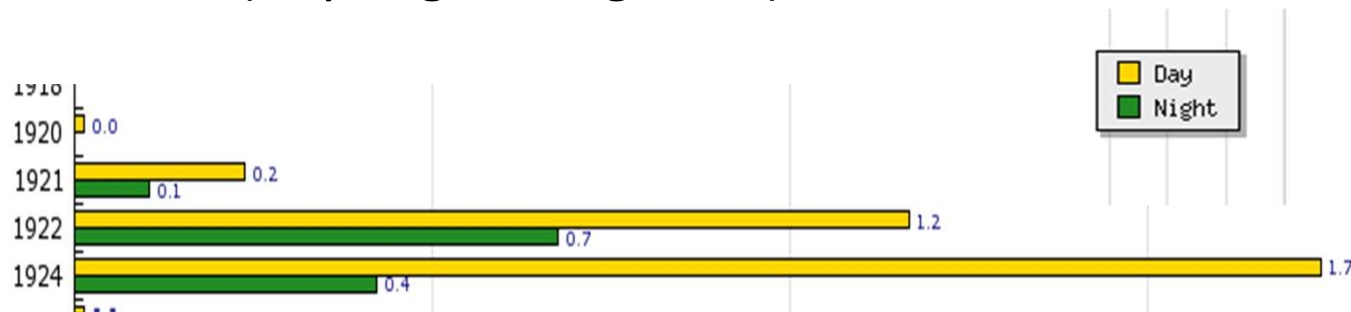
Seasonality



FDM characteristics

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- Europe AIRPOST outsources the FDM  **FFS**
FRENCH FLIGHT SAFETY
- Private area dedicated to crew members (specific access to their flights)
- The characteristics of our operations lead us to implement specific FDM tools (Day/Night, Cargo/Pax)



Traditional use of FDM

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- ☐ **Events follow-up** (% of events by hundred flights, trends, etc.)

- ☐ **Internal communication**
 - ☐ Reporting to CEO, Chief Pilot, Head of Training, TRTO
 - ☐ Safety briefing during the TRI/TRE monthly meetings
 - ☐ Trends follow-up

- ☐ **Comparison & sharing with other operators**

Seasonality



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Initial statistic analysis showed that a global search of the data (beyond the monitoring of exceedences) enlights important safety information.





Conditional probability

9

Start Flight Date :  End Flight Date : 

A/C Type : B737

Event 1 : 

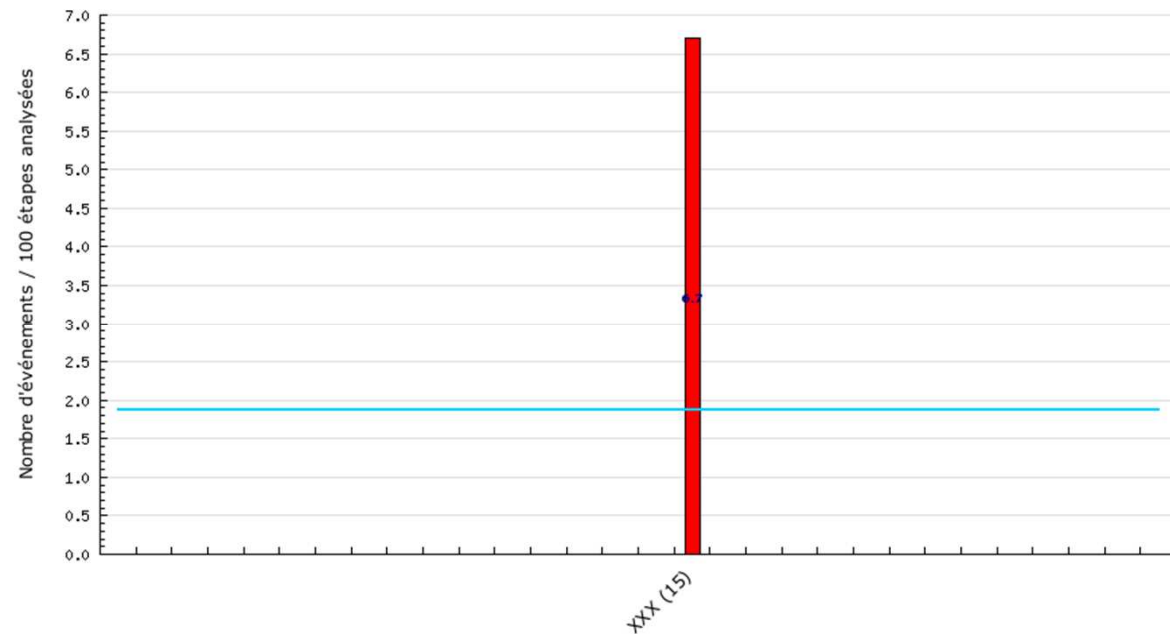
Event 2 : 

1012 \ 1014	0	1	2	3
0	90.8	6.8	2.2	0.3
1	48.4	32.6	17.9	1.2
2	19.6	24	40.4	16
3	17.5	13.3	25.3	43.9
Profil moyen	72.4	14.5	9.9	3.2

Improved « self analysis» tool

10

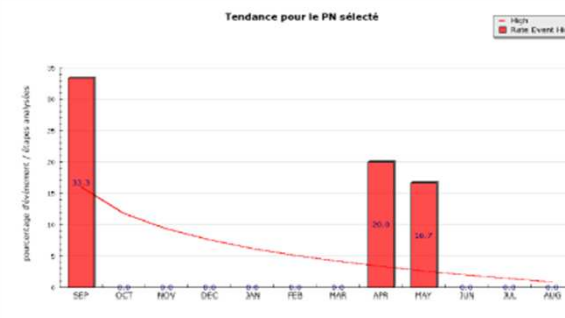
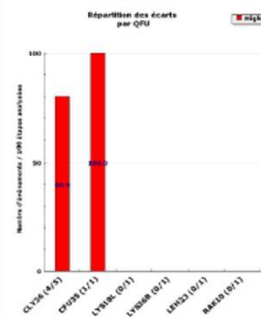
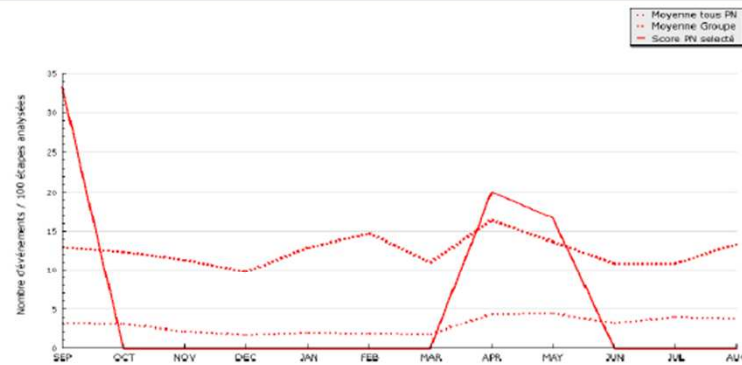
**A demonstrative
tool**



110
vois analysés

Nombre d'événements

CARGO	PAX	FERRY	PF	PM
12 11 %	71 65 %	27 25 %	53 48 %	57 52 %
0 0 %	7 88 %	1 13 %	5 63 %	3 38 %



Commentaires :

placer ici le texte de commentaire....

Improved « self analysis» tool

12

Period

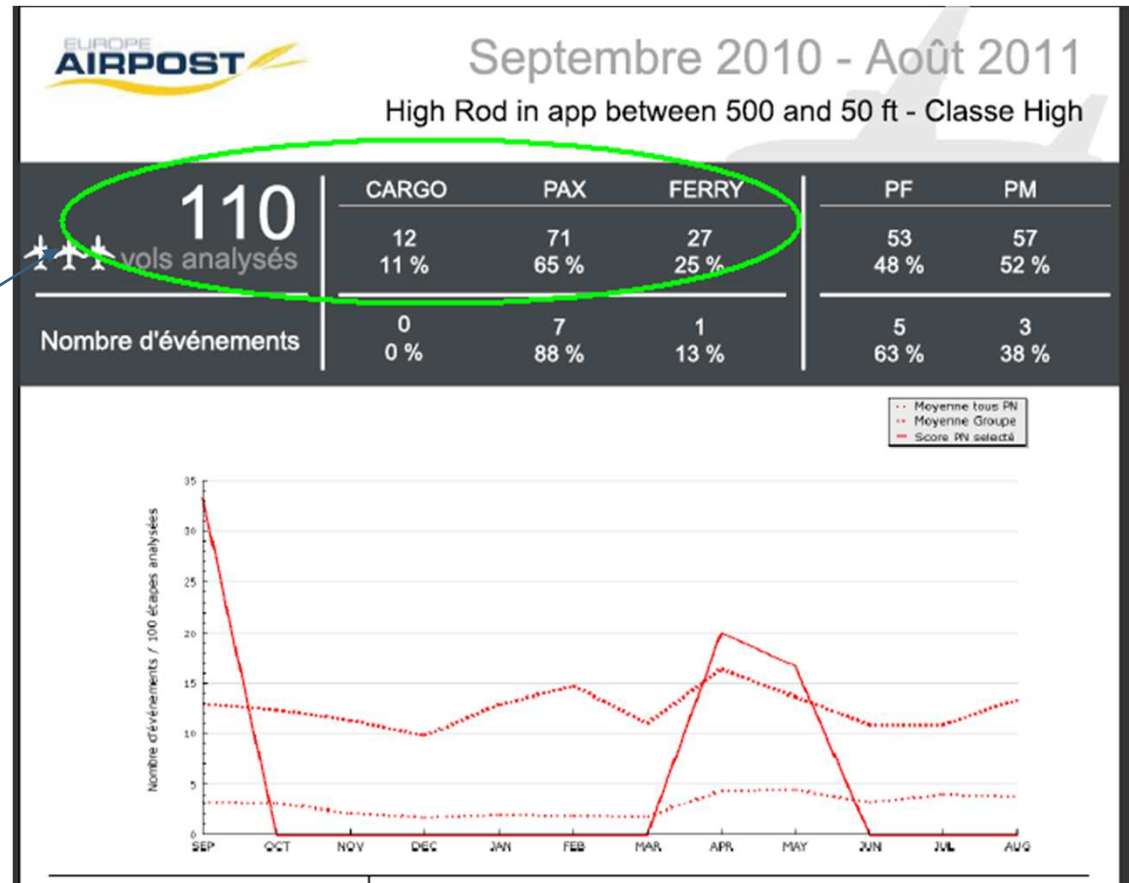
Type of event



Improved « self analysis» tool

13

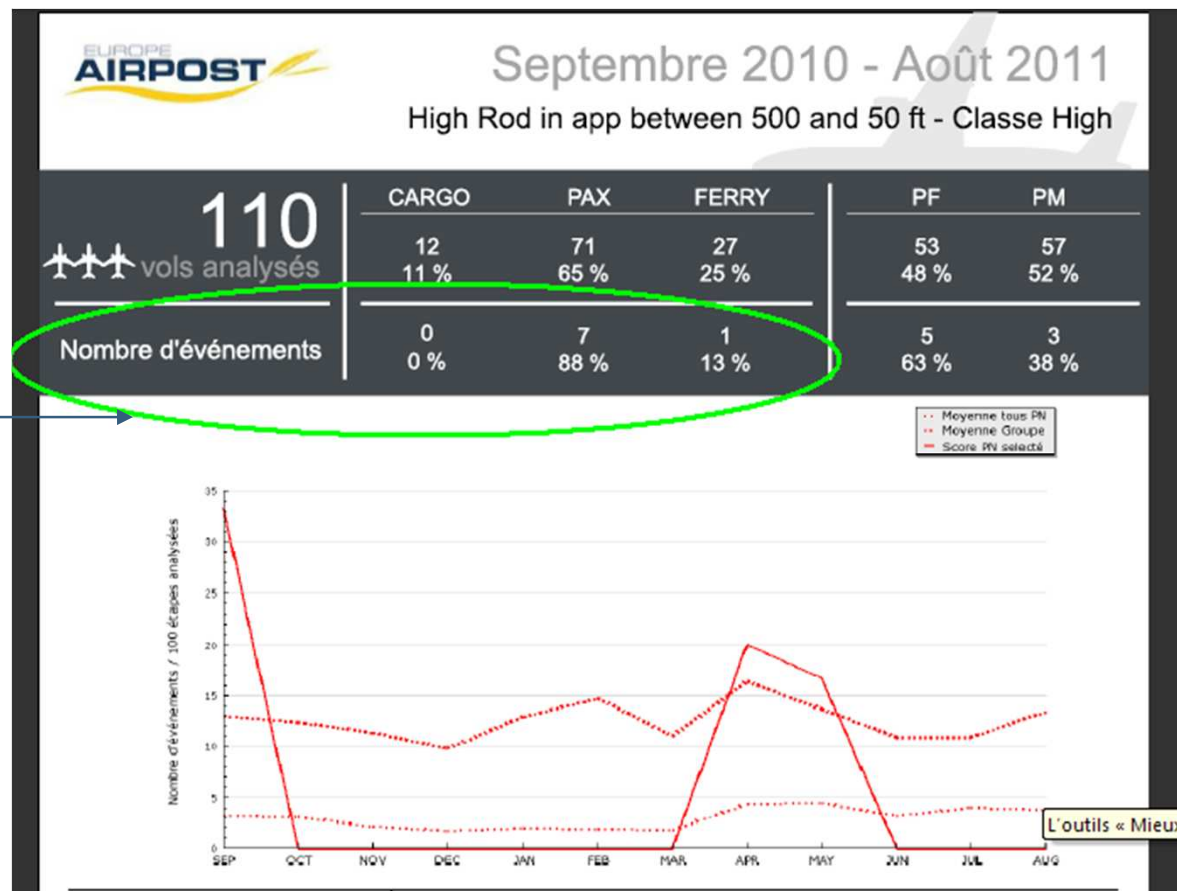
Operated
flights



Improved « self analysis» tool

14

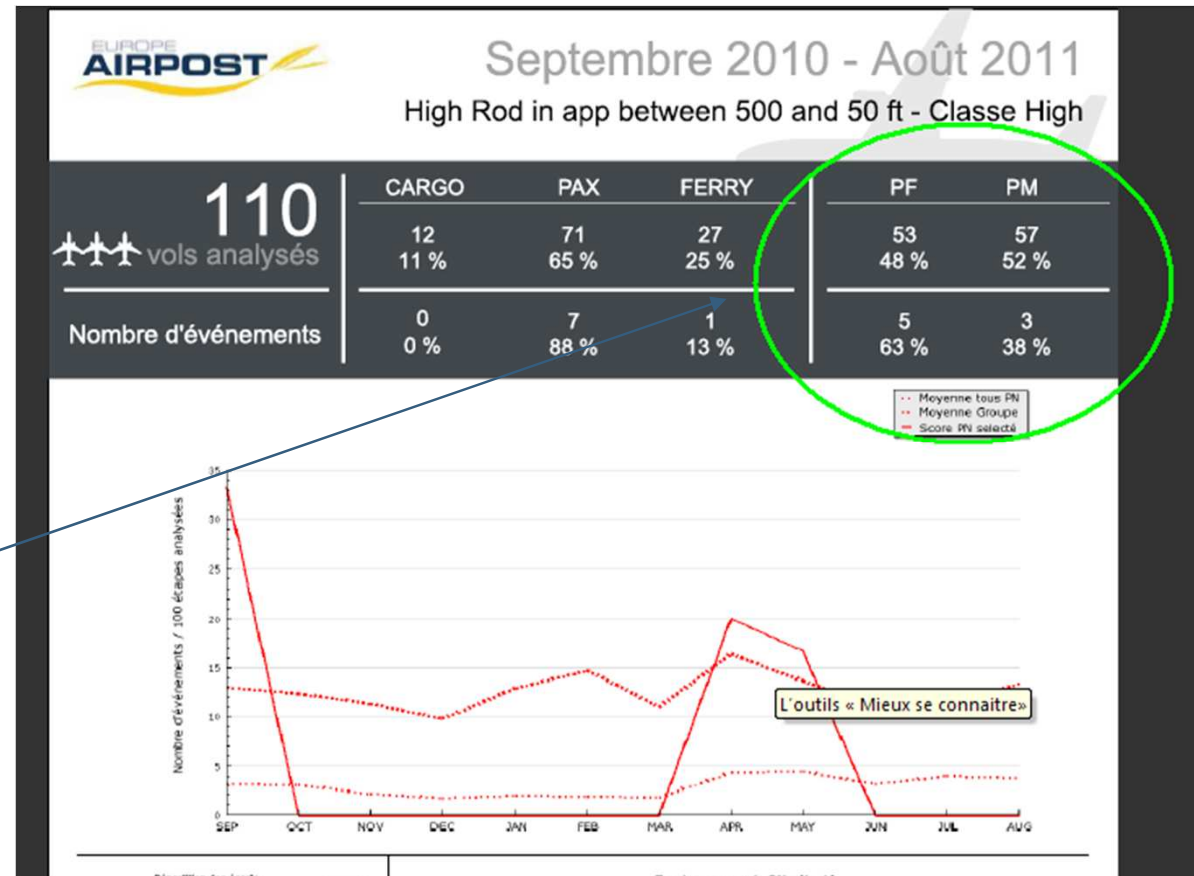
Distribution of
exceedences by
typology



Improved « self analysis» tool

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PF / PM
distribution



Improved « self analysis» tool

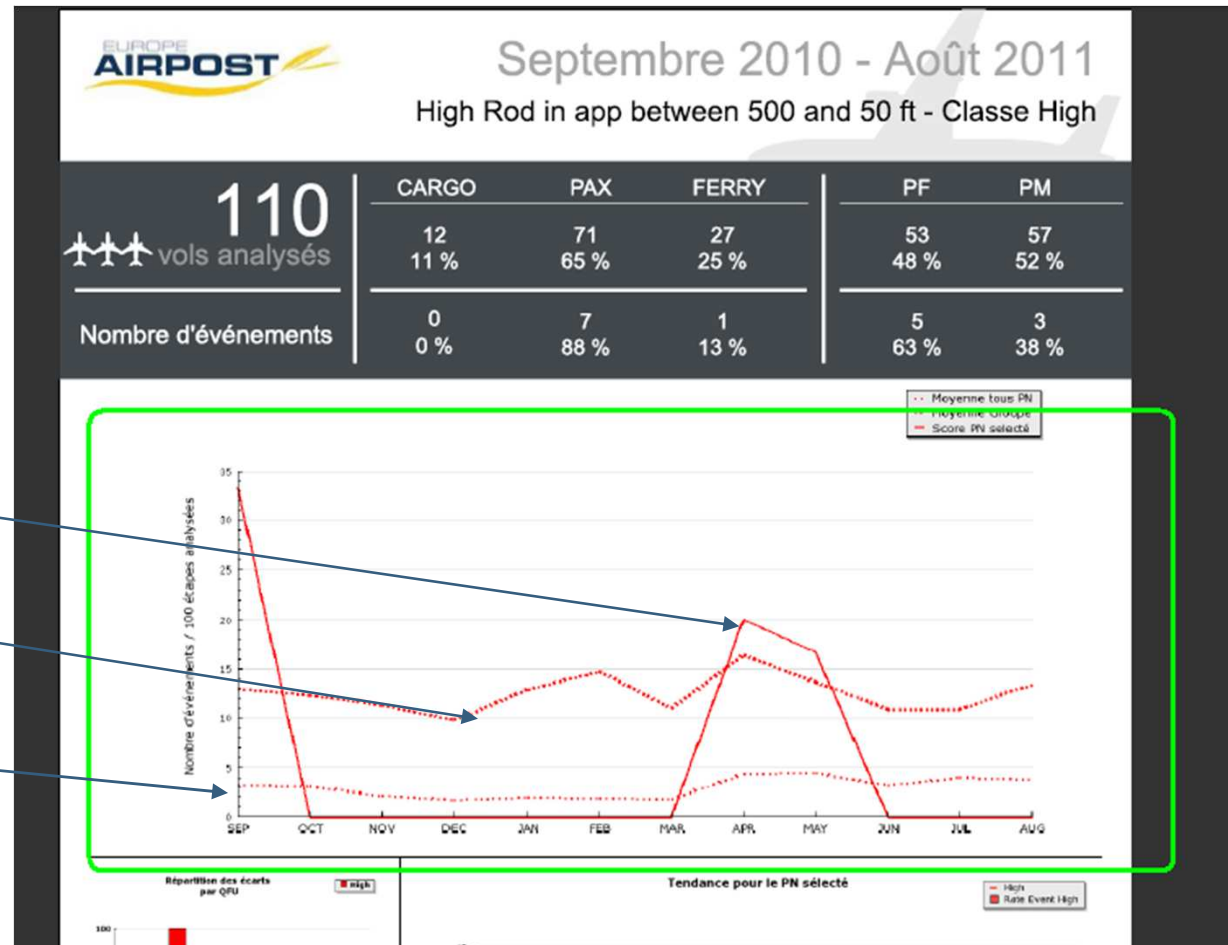
16

Comparative:

Individual follow-up

Group exceedences

Total cockpit crew

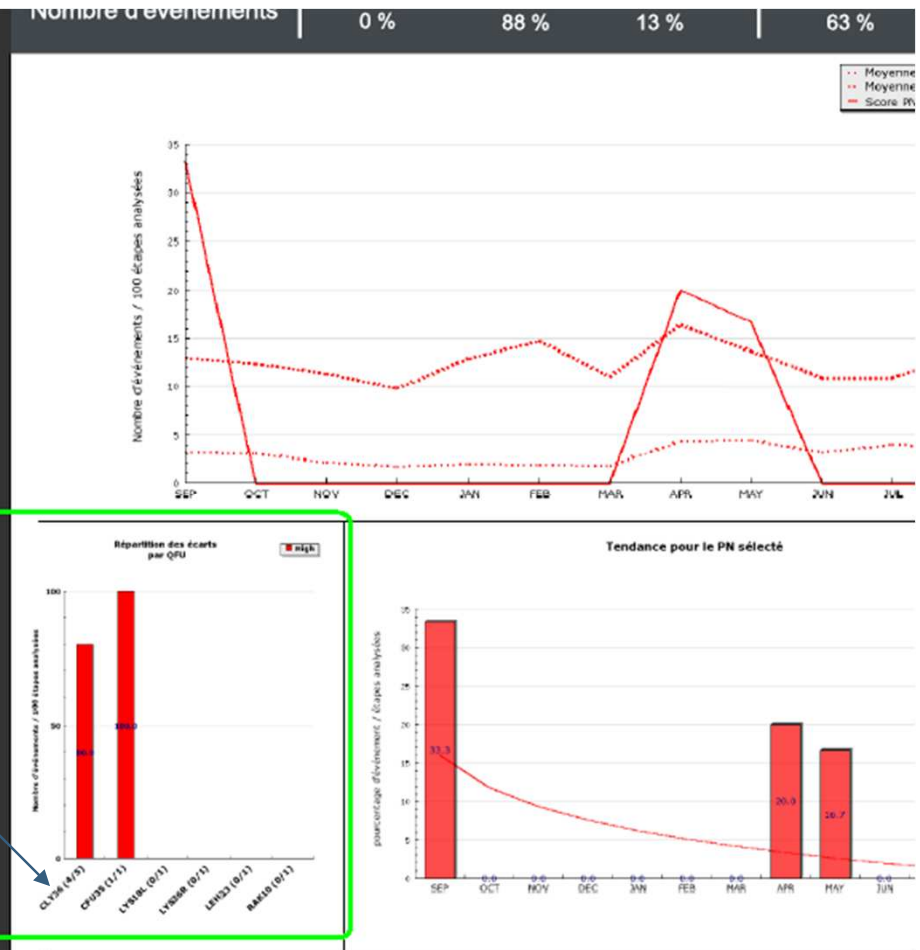


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Improved « self analysis» tool

17

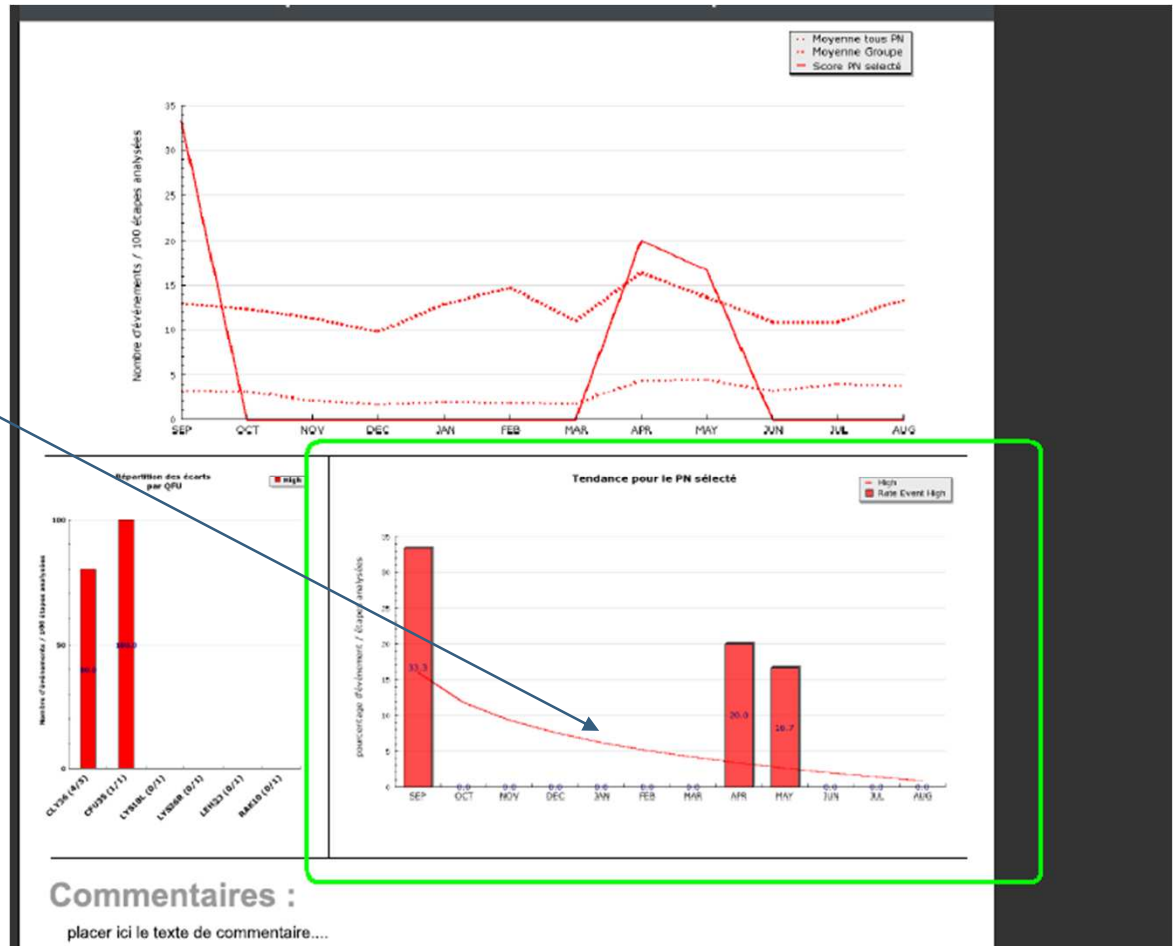
QFU distribution



Improved « self analysis» tool


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Trend



Beyond FDM Limits

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- Limits of existing tools (reactive mode)
- **Objective:** Early detection of Risk (Predictive) through
 - ▣ Statistical data mining of flight database
 - ▣ Statistical modelling of events/risks
 - ▣ R&D in Partnership with  **SAFETY LINE**
take control of your safety



THANK YOU FOR YOUR ATTENTION