

Presented by

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HAIC/HIWC

HAIC-HIWC Science Team Meeting
Aircraft Details: Falcon-20

CAYENNE AIRPORT : 3 aircraft in 2 different places

- Civil airport :
 - Boeing Honeywell on the commercial parking
 - Convair NRC on the technical area of the parking
 - Meteo center
 - Air traffic control (ATC) managed by civil aviation located above Meteo center
- Military airport : Falcon SAFIRE in a hangar

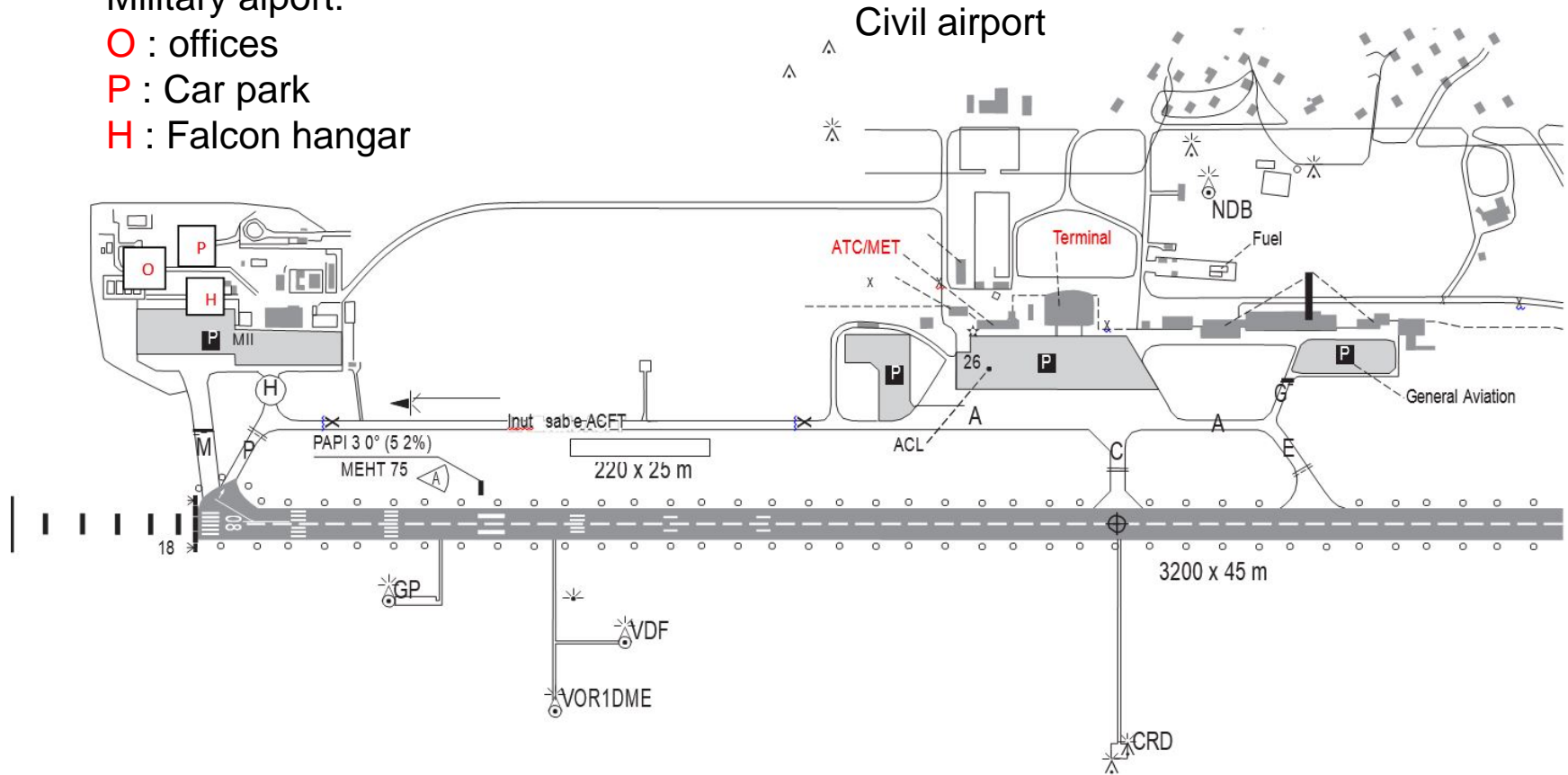
CAYENNE AIRPORT

Military airport:

O : offices

P : Car park

H : Falcon hangar



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CAYENNE AIRPORT : opening hours

Landing and take-off possible 24/7 in principle

Civil airport

- Access to offices and aircraft open 24/7 in theory (TBC)
- On the civilian part, fuel can be delivered from 6.30 am to 9pm (until 10pm with notice).

Military airport

- Access 24/7 guaranteed (names to be given in advance)
- In May 2015, roadwork are planned on the apron : restriction for aircraft parking and take-off?

HAIC/HIWC Science Meeting Airport Facilities

Military airport :
1 small hangar available (24 m * 24 m) + 4 small offices



HAIC/HIWC Science Meeting Airport Facilities

Military airport : office building

Convention draft sent to SAFIRE on 7th March

Office building located 200 meters from the hangar and 100 meters from car park



Office building (right) from the car park



Falcon hangar (white) from the car park

HAIC/HIWC Science Meeting Airport Facilities

Military airport : 1 small hangar available (24 m * 24 m)

- White hangar (textile and metal) dedicated for Falcon 20
- 1 small pre-fab office (to check if they have found the key) or/and tables to put instrument – wifi internet (3G)
- Air-conditioning (with roof completely closed).
- Electricity (including 63 ampers socket)
- Few stockage space inside



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Military airport : 4 small offices

- Downstairs : storage room (12 m²) and access to the operations office if needed (fax available)
- On the first floor: toilets, 1 medium office + 3 small offices
- Internet : a back-up through a fix computer + wifi (3G card)



Medium office



Small office

Military airport as a working place and storage area

According to the size of the offices, a maximum of 20 people can work on the military side, in priority:

- SAFIRE team operating the Falcon 20 : 9 to 11 people
- Engineers working on instruments set on Falcon
 - LaMP : 3 to 4
 - IKP : 3 ?
 - Latmos : 2 to 3

Storage area : which volume to store?

- useful equipment in the Falcon hangar
- spare boxes : only 12 m² available. But container possible

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Airport Facilities

Civil airport

Both NRC and Honeywell aircraft will be parked near the tower of control

But because of the lack of space, the Convair will be parked in a technical area with obligation to move the aircraft if required

Pre-fab lab on the apron?

GPU ?

Storage available?



Cayenne airport : refueling in the civil side

There are 2 companies providing Jet A1 : Total and Rubis (0,73 to 0,76 euros per liter). Price and payment conditions to negotiate.

Fuel depot called Groupement Pétrolier d'Avitaillement de Rochambeau. Opening hours : 6 am to 9 pm. But 1st delivery at 6.30am at the earliest and last delivery at 10pm at the latest (with warning in advance).

For large aircraft, fuel is pumped through underground pipes or from a 20.000 liters fuel truck. Civil airport storage fuel capacity : 300 000 liters.

Cayenne airport : meeting room



The large meeting room located on the first floor. Access through the terminal (no badge needed) and on derogation with a badge to Meteo Center.

18 people can work with desk (up to 24 with 2 more tables). 20 folding chairs possible on request.

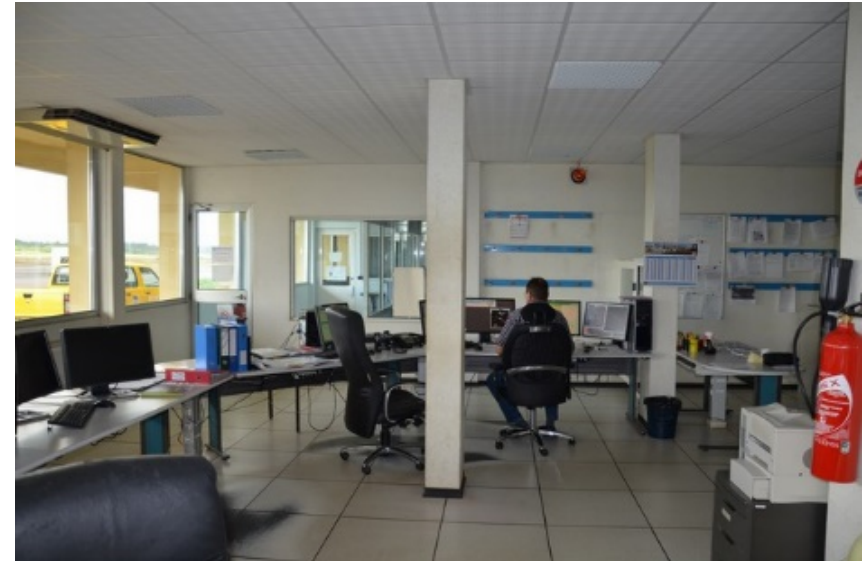


If this room is used as a meeting room, other offices should be rented for Honeywell and NRC team.

Internet possible with the Orange hot spot (subscription of 20 euros for one month per person) or through the CCI (no quotation received yet)

HAIC/HIWC Science Meeting Airport Facilities

Meteo center



- 1 local forecaster working in the « forecasting office » (rest from 1 to 4 am) but contact with Martinique Meteo Center 24/7
- 1 Meteo computer available + wifi connexion for other computers
- 1 small office can be made available for discussion or working for up to 5 people near the forecasting office
- Easy to park in front of the Meteo Center building and maybe to go to the airport meeting room
- Quick training to be planned in May 2015 (date : ?)

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Crew overview

10 people from SAFIRE anytime :

- 3 pilots
 - 2 mechanics
 - 4 flights engineers, ground instrumentation work
 - 1 coordinator
- + LATMOS, LaMP & SEA team (approx. 8 to 10 people ?)

The pilots will stay the entire campaign while others people will stay half of the campaign duration with a shift on May, the 17th

One junior technician will join the first team.

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Working schedule

- In order to respect French labor code:
 - Maximum 6 consecutive days of work
 - Weekly rest: minimum 35 hours (« day off »)
 - No more than 12 hours a day, max 60 hours a week
-
- Applicable to all SAFIRE personnel

As the SAFIRE crew is more important than in Darwin, SAFIRE should be able to flight every day in normal conditions. Some crew will rest while others will work.

SAFIRE crew days off should not impact the A/C availability, if not needed 24 hours a day.

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Working schedule

According to French Aerial Work regulation, minimum requirements are :

CREW DUTY CYCLE LIMITATIONS

Monthly flight < 95 h

Day flight amplitude < 14h

| Flight time (t) | Standard stop | Reduced stop | Next stops |
|-----------------|---------------|--------------|-----------------------|
| t < 6 h | 11h | 6h* | 18h including a night |
| 6 h < t < 8h | 3 x t | 12h | min 24h** |
| 8 h < t < 10h | 24h +(t-8)x4 | 12h | min 24h** |
| t > 10 h | Prohibited | | |

* if reduced stop, next flight must be less than 6h

** sequence ends with a long rest (36 h + increases)

- All aircrew, including scientists, are requested to work at a reasonable rythm.
- For flight safety, SAFIRE Coordinator or F20 Captain can refuse boarding to people that are not rested enough.

High Altitude Ice Crystals (HAIC, 314314)

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