
Polynesia

ERA-CLIM 2

Activities of Météo-France related to Task 3.1

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Direction de la Climatologie, Toulouse

19-21 November 2014, Reading

METEO FRANCE
Toujours un temps d'avance

Introduction

Historical upper air data rescue

Domain : France and ex- French territories

Data rescue activities started in ERA-CLIM have been continued and expanded under ERA-CLIM 2

Results of ERA-CLIM: inventory with 370 lines, 300 000 images of climate reports, delivery of 4 millions of radiosonde data, 2 millions of upper wind data keyed but not delivered (QC in process)

ERA-CLIM2 Results

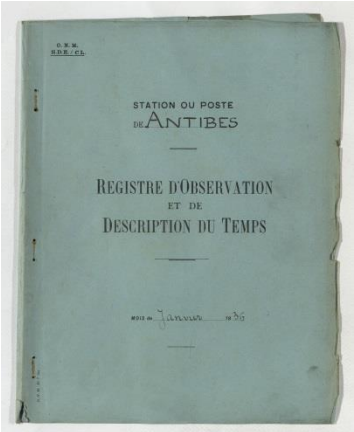
ERACLIM2 Météo-France inventory: Upper-air data in France and French ex-colonies

More data were identified, cataloged and imaged than could be digitised within the project ERA-CLIM2

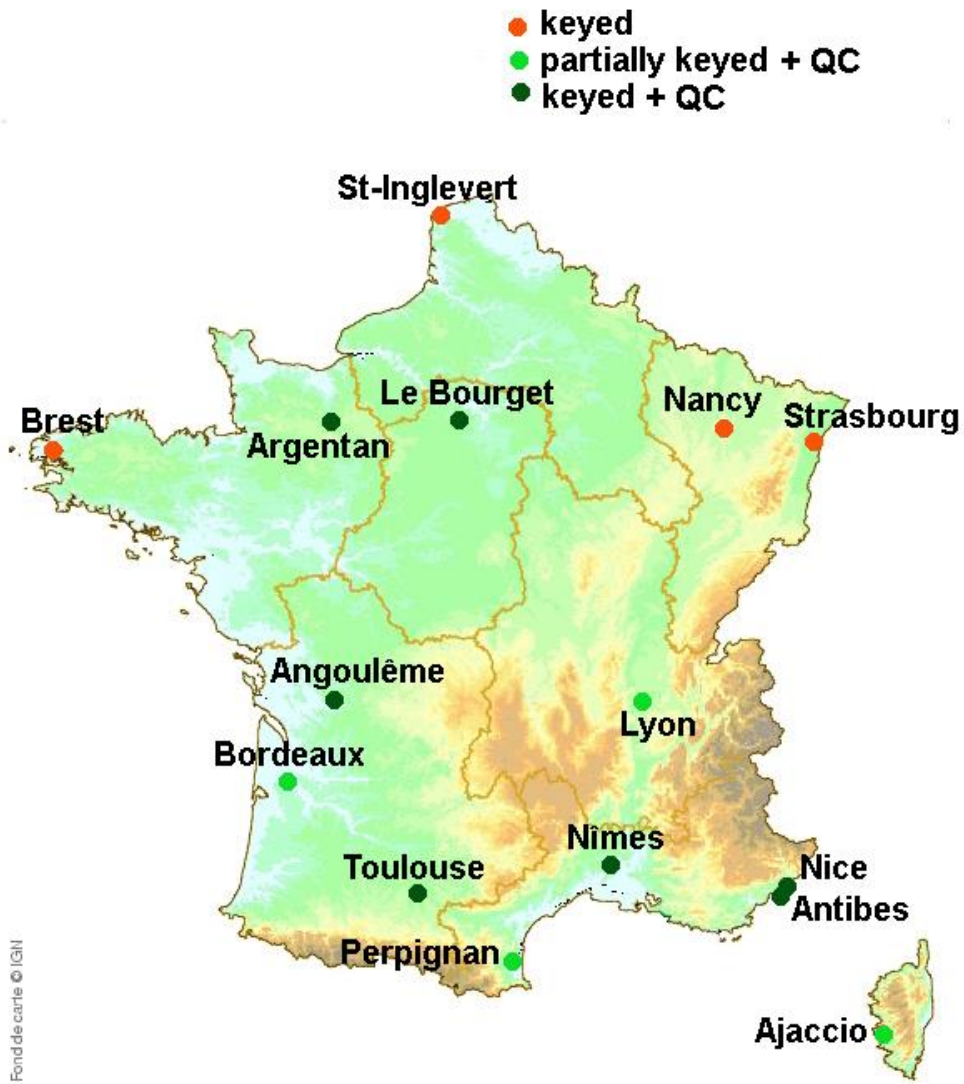
375 lines with 170 lines of high priorities (France mainland, oversea, austral and antartic territories): large amount of long series from original archives 1900-1957 over the world

Selection of high priorities according to location, length of series, accessibility of the sources and quality of original sources)

France mainland pilot balloons long series 1923-1948



14 long series pilot balloons f daily reports completely imaged



6 series keyed and QC

Stations	Period	Data keyed (DD/FF)
Le Bourget	1923-1948	236 357
Argentan	1923-1935	125 797
Angoulême	1923-1932	55 586
Toulouse	1923-1947	425 831
Nîmes	1923-1940	297 309
Antibes	1923-1942	24 8991
Nice	1943-1948	31 657
Total		**1 421 528**

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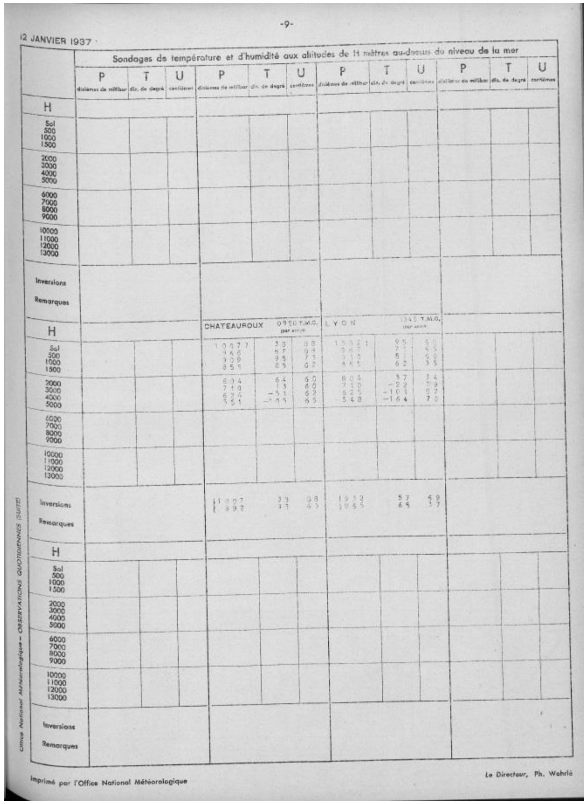
France mainland radiosondes : long series from 1937

7 long series radiosondes from 1937


-9-

12 JANVIER 1937

Sondages de température et d'humidité aux altitudes de H mètres au-dessus du niveau de la mer

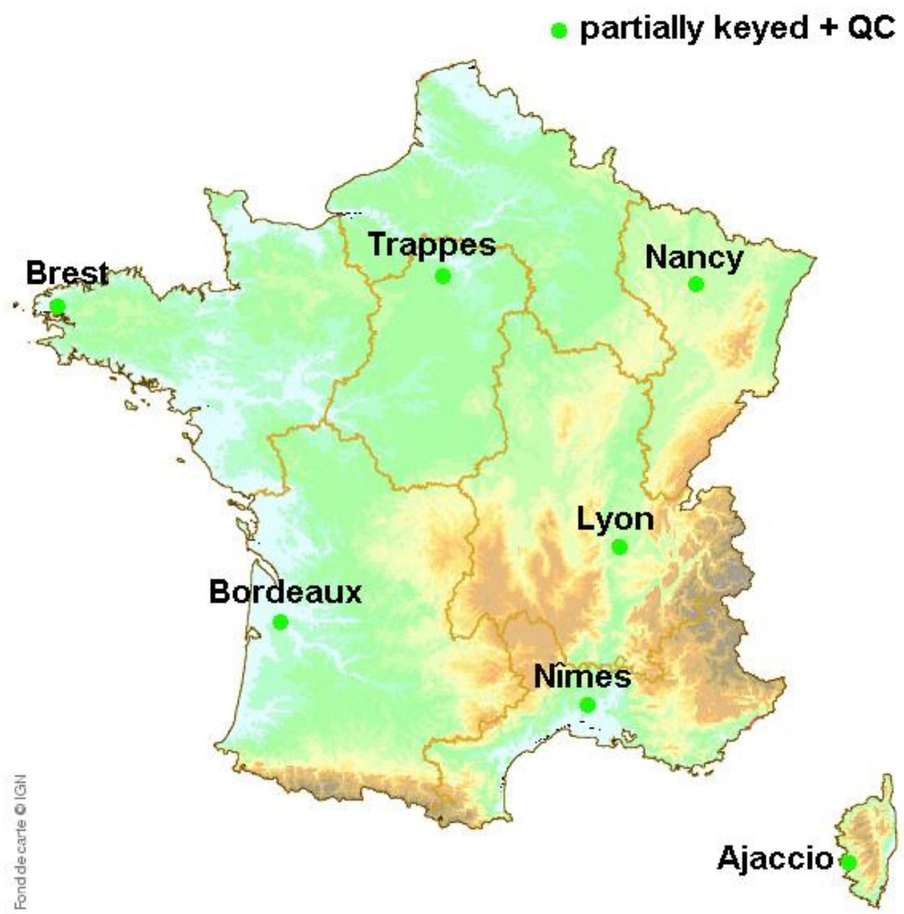
CHATEAUROUX

LYON

Imprimé par l'Office National Météorologique

Le Directeur, Ph. Wehrlé

Bulletin quotidien d'observation
1937-1939



Upper Air stations in French Territories

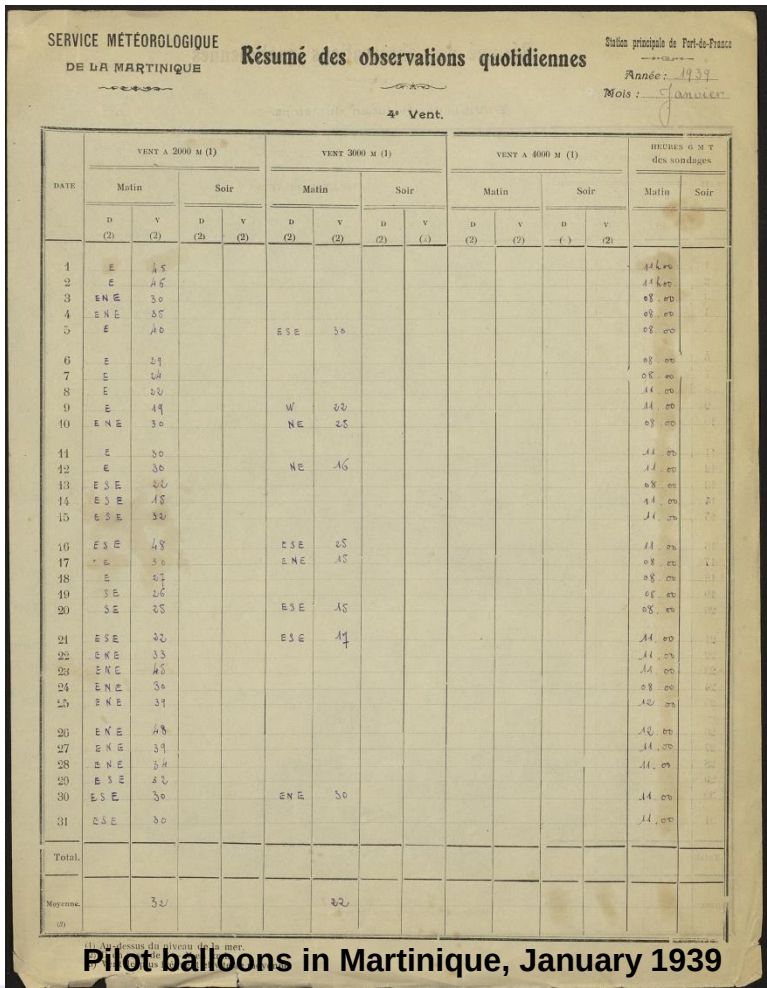
UPPER-AIR STATIONS IN FRENCH TERRITORIES

First pilot balloons in 1939 in Martinique and New-Caledinia (after France mainland but during 2nd World War)

Main difficulties :

-Archives are stored in the territories far from Toulouse. Some reports are locally imaged and some are sent to Toulouse (we are waiting for Dumont Durville reports !)

-Documents are different from France mainland and specific for each territory


SERVICE MÉTÉOROLOGIQUE
DE LA MARTINIQUE

Résumé des observations quotidiennes

Station principale de Fort-de-France

Année : 1939

Mois : Janvier

4e Vent.

DATE	VENT A 2000 M (1) Matin D (2)	Matin V (2)	Soir D (2)	Soir V (2)	VENT 3000 M (1) Matin D (2)	Matin V (2)	Soir D (2)	Soir V (-)	VENT A 4000 M (1) Matin D (2)	Matin V (2)	Soir D (-)	Soir V (2)	HEURES G M T des sondages Matin	Soir
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2	E	16											11 h 00	
3	ENE	30											08 . 00	
4	ENE	35											08 . 00	
5	E	10			ESE	30							08 . 00	
6	E	29											08 . 00	
7	E	04											08 . 00	
8	E	20											11 . 00	
9	E	19			W	02							11 . 00	
10	ENE	30			NE	25							08 . 00	
11	E	30											11 . 00	
12	E	30			NE	16							11 . 00	
13	ESE	20											08 . 00	
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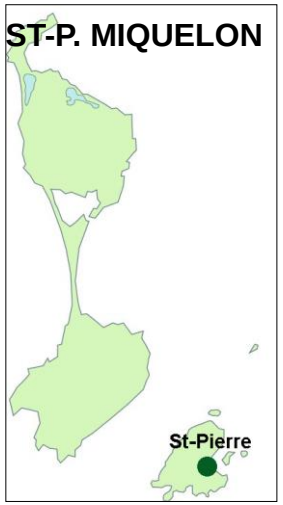
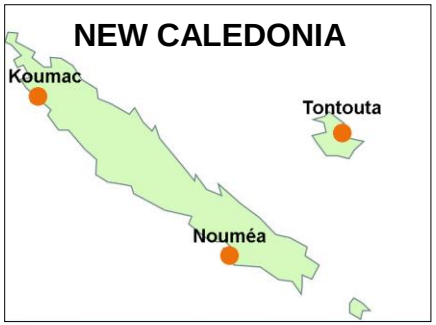
Moyenne.		32				22								

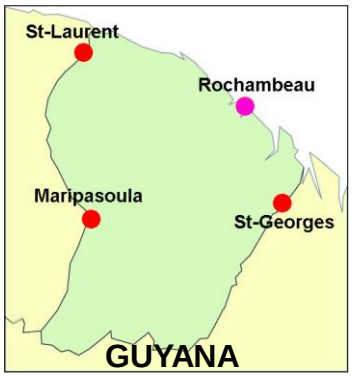
(1) Au-dessus du niveau de la mer.

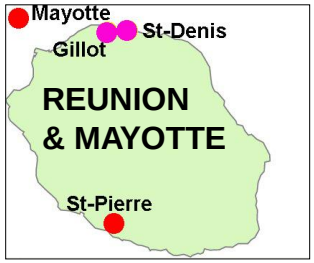
Pilot balloons in Martinique, January 1939

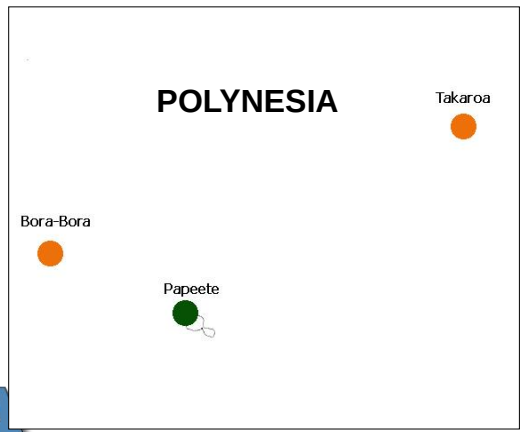
Overseas and FSAAT









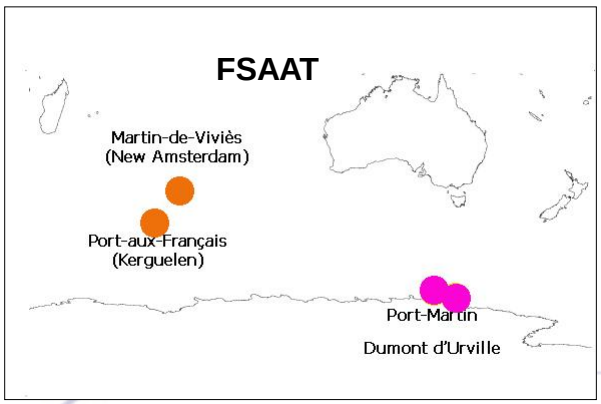


inventoried

imaged

keyed

keyed + QC



CRACLIM

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METFR Results

Results of ERA-CLIM: inventory with 370 lines, 300 000 images, 2 millions of upper wind data keyed, QC in process

<u>Results after 9 months of ERA-CLIM2 and ERA-CLIM</u>

Few new sources (Comores, West Indies, New Caledonia)

Imaging: 90% of high priorities

Reunion island, Polynesia and New Caledonia reports have been imaged in 2014

Digitisation: 50% of high priorities have been keyed

Quality Check: 20% of high priorities have been digitised

Development of new quality check procedures

Météo-France Work Plan in 2015

Outlook for 2015

1. Imaging reports : French Guyana, Reunion Island, FSAAT

2. Digitising pilot balloons data and radiosonde data in France mainland, overseas and FSAAT:

First semester will be dedicated to Reunion island and French Guyana upper air wind (pilot) and early radiosounding in France mainland before 1945

Secund semester will be dedicated to International Ascents (1900-1912) : Trappes, Strasbourg an FSAAT pilot balloons

3.Quality Check : Ongoing process of QC, development of QC procedures and conversion to common format/unit of keyed long series

Delivery of 20 long series of upper wind in January 2015

Delivery of 10 long series of upper air data in November 2015