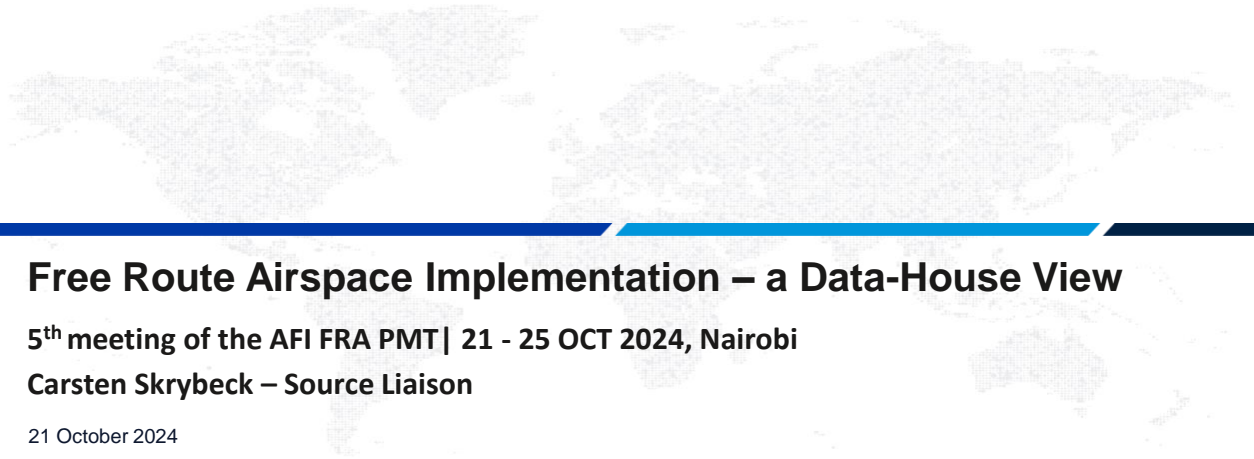




Global Services



Free Route Airspace Implementation – a Data-House View

5th meeting of the AFI FRA PMT | 21 - 25 OCT 2024, Nairobi

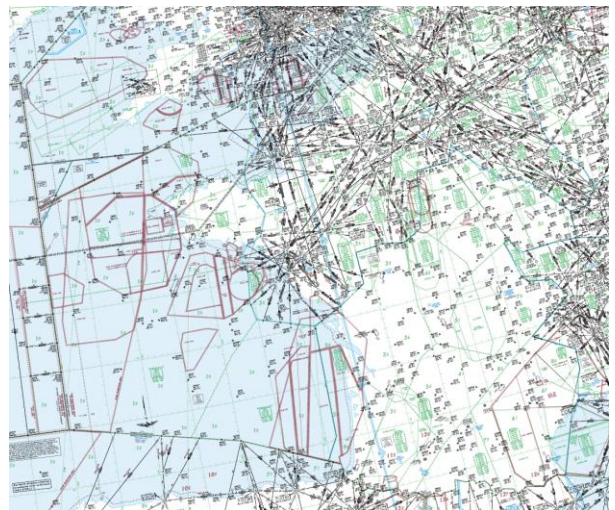
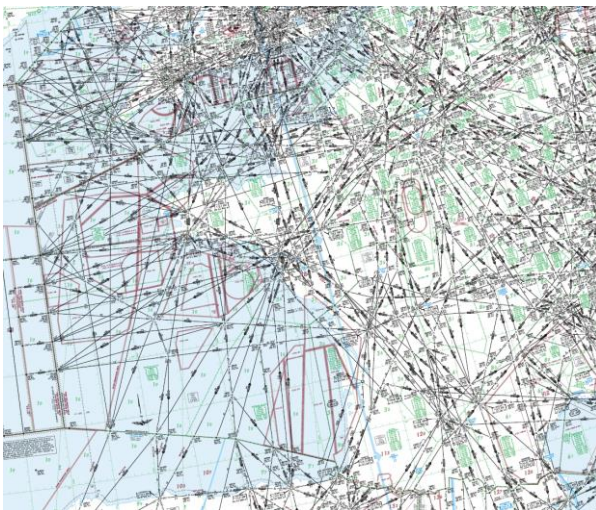
Carsten Skrybeck – Source Liaison

21 October 2024

Copyright © 2023 Boeing. All rights reserved.

FRA on Jeppesen charts

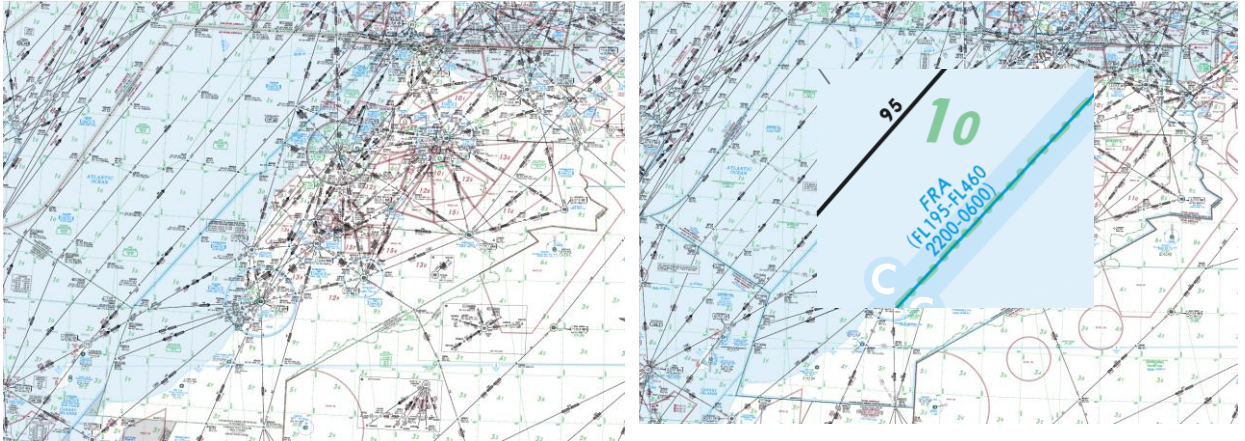
Global Services



Copyright © 2023 Boeing. All rights reserved.

FRA on Jeppesen charts

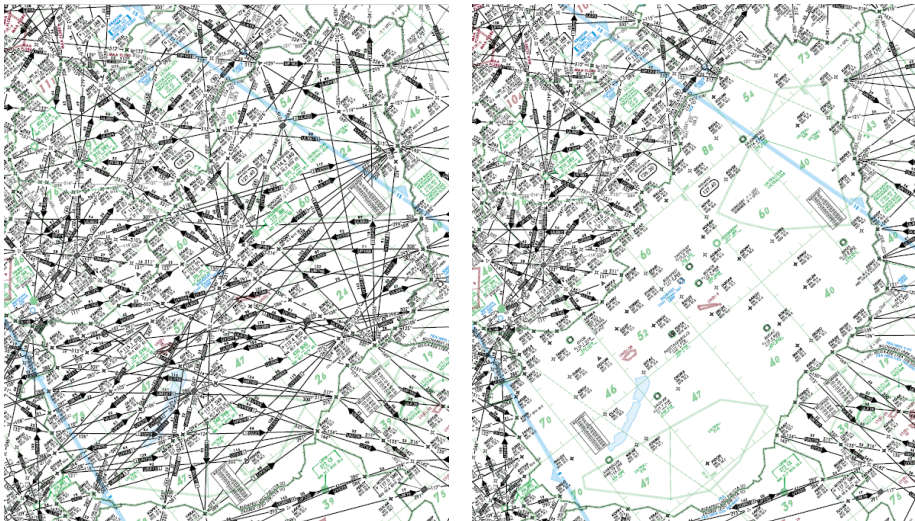
Global Services



Copyright © 2023 Boeing. All rights reserved.

FRA on Jeppesen charts

Global Services



Copyright © 2023 Boeing. All rights reserved.

Preliminary FRA implementation information

Global Services

Preliminary FRA information should include:

- Details about the FRA implementation (not only the information that 'FRA will be implemented')
- A summary of the impact on ATS routes (omission/change/add)

Preliminary FRA information might be provided through:

- AICs
- Double cycle AIRAC advance notice
- Draft publications review by Jeppesen/Boeing experts
- Virtual meeting with Jeppesen/Boeing experts

Copyright © 2023 Boeing. All rights reserved.

Preliminary FRA implementation information

Global Services



Service
de l'Information
Aéronautique



E-mail : sia-qualite@aviation-civile.gouv.fr
Internet : <https://www.sia.aviation-civile.gouv.fr>

AIC FRANCE
A 11/21

Publication date : AUG 26

SUBJECT : IMPLEMENTATION OF FREE ROUTE AREAS IN FRANCE'S UPPER TRAFFIC AREA (UTA)

The changes described in this circular are applicable from December 2, 2021.

1 INTRODUCTION

European Commission Implementing Rule (EU) 2021/116 of February 1, 2021 on the establishment of the first common project to support the implementation of the European Air Traffic Management Master Plan requires, inter alia, the ATM sub-functionality related to Free Route Airspace ("FRA") at flight level 305 and above. Initial implementation is required by December 31, 2022.

In application of this requirement, a reminder of future regulatory provisions as well as three "FRA" cells will be published in the AIP France with double cycle AIRAC advance notice (availability of the amendment on 7 October 2021) for entry into force on December 2, 2021.

In these cells, ATS services provided are unchanged, namely those of airspace class C (see ENR 2.1.2 UTA France). On the date of entry into force, current airways and portions of airways are deleted in these three cells except for :

- UM25 ANNET – UVSUV ;
- UN862 SKESO – UPALO.



FRA en-route navigation aid followed by its FRA relevance



FRA significant point at the limit of two cells, followed by FRA relevance per cell



Copyright © 2023 Boeing. All rights reserved.

Preliminary FRA implementation information

Global Services

AIS-ESPAÑA
Dirección APTN LEANZTA
Teléfono: +34 913 213 363
E-mail: ais@enaire.es
Web: enaire.es

ESPAÑA

ENAIRE
DIVISIÓN DE INFORMACIÓN AERONÁUTICA
Avda. Aragón, 330, EDIFICIO 2
PE. Las Mercedes - 28022 MADRID

AIP-ESPAÑA
AMDT 04/22
AIRAC 10-FEB-22

FECHA DE EFECTIVIDAD WEF 21-APR-22
EFFECTIVE DATE WEF 21-APR-22

Esta enmienda **NO DEBE** introducirse en AIP hasta el 21-APR-22.

This amendment **SHALL NOT** be inserted into the AIP until 21-APR-22.

Contenido:

1- GEN 2.2.-
- Nuevas abreviaturas utilizadas en las publicaciones AIS.

2- GEN 3.2.-
- Nueva carta FRA.

3- ENR 0.6.-
- Nueva carta FRA.

4- ENR 1.3.-
- Reglas de vuelo por instrumentos: procedimientos generales del espacio aéreo de encaminamiento libre.

5- ENR 1.10.-
- Planificación de vuelos: HISPAPRA.

6- ENR 2.2.-
- Espacio aéreo de HISPAPRA.
- Cambio editorial.

7- ENR 4.1.-
- Inclusión de la relevancia FRA.

8- ENR 4.4.-
- Inclusión de la relevancia FRA.

9- ENR 6.0.-
- Nueva carta FRA.

10- ENR 6.14.-
- Nueva carta FRA.

Contenido:

1- GEN 2.2.-
- New abbreviations used in AIS publications.

2- GEN 3.2.-
- New FRA chart.

3- ENR 0.6.-
- New FRA chart.

4- ENR 1.3.-
- Instrument flight rules: free route airspace general procedures.

5- ENR 1.10.-
- Flight planning: HISPAPRA.

6- ENR 2.2.-
- HISPAPRA airspace.
- Editorial change.

7- ENR 4.1.-
- Inclusion of FRA relevance.

8- ENR 4.4.-
- Inclusion of FRA relevance.

9- ENR 6.0.-
- New FRA chart.

10- ENR 6.14.-
- New FRA chart.

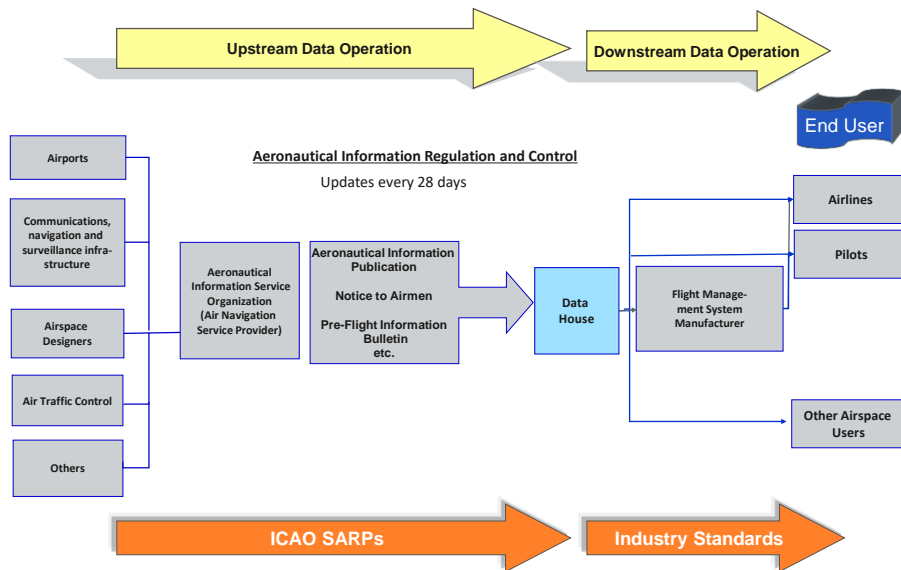
AIP
ESPAÑAENR 4.4-2
WEF 31-OCT-24

NAME-CODE DESIGNATOR	COORDINATES	FRA relevance	PURPOSE	REMARKS
ADVAT	450000.0N 0062911.0W	(X)		(X): OOD FL BORY FIR/UIR MADRID / SHANWICK OCA/FIR SHANWICK
AFEMI	423233.0N 0014612.3W			
AGADO	415222.4N 0065536.1W	(EX)		(E): EVEN FL (X): OOD FL BORY UIR MADRID / FIR LISBOA
AGENA	413241.3N 0032919.0E	(IAD)	TMA BARCELONA L16, M965	(IAD): LEGE (ID): LEBL
AGIDO	371144.5N 0023737.0W	(I)	TMA ALMERÍA M192	
AKAMU	383828.5N 0022817.0E	(I)	TMA PALMA N733, Z237	
AKOKI	401328.1N 0031307.0W	(I)	M871, N975	
AKOPA	414052.1N 0014729.6E		TMA BARCELONA	
ALAOS	371244.0N 0063305.0W		TMA SEVILLA	USO EXCLUSIVO MILITAR // EXCLUSIVE MILITARY USE
ALBER	422705.4N 0024955.6E	(IE)	TMA BARCELONA P84	(IE): OOD FL BORY FIR/UIR BARCELONA / FIR MARSEILLE / UIR FRANCE

Copyright © 2023 Boeing. All rights reserved.

Aeronautical Data Supply Chain

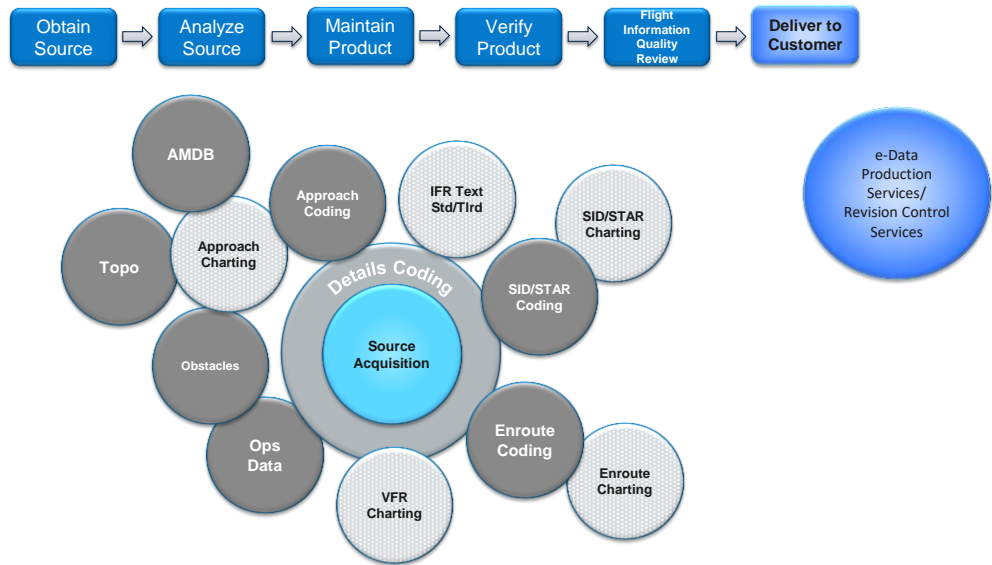
Global Services



Copyright © 2023 Boeing. All rights reserved.

Collaboration Diagram – Global Data Management

Global Services

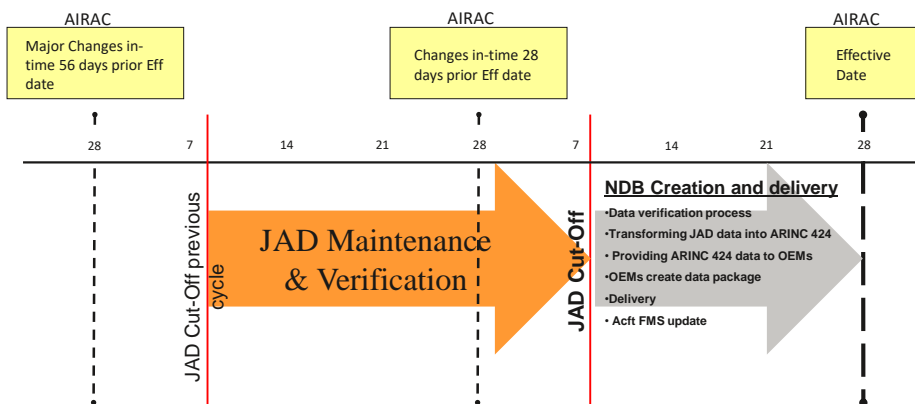


Copyright © 2023 Boeing. All rights reserved.

Database Cut-off

Global Services

Internal Cut-offs in conjunction with the AIRAC Cycle



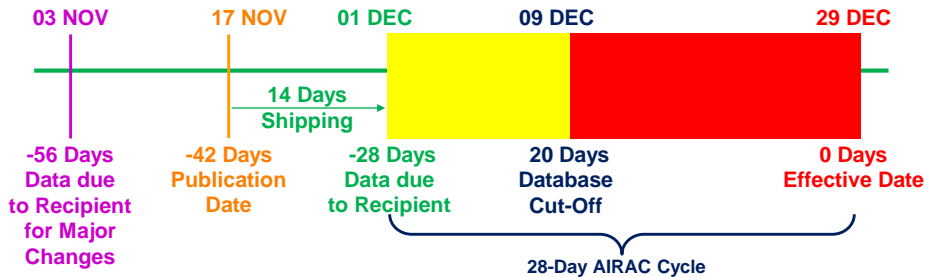
Copyright © 2023 Boeing. All rights reserved.

Jeppesen Production Process in sync with ICAO Publication Dates according to Annex 15

Global Services

Jeppesen Navigation Database

- Updated every 28 days (AIRAC system)
- No updates outside AIRAC system
- A change may not be in the database at the effective date if
 - the effective date is outside the AIRAC system
 - source was received late
 - the ANSP is not responding to clarifications
- Cancellation of changes has to follow the AIRAC system as well
- Adherence to the AIRAC system should ensure that the change is in the database



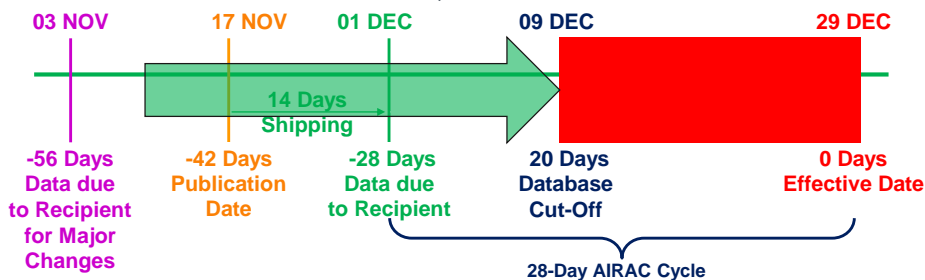
Copyright © 2023 Boeing. All rights reserved.

Jeppesen Production Process in sync with ICAO Publication Dates according to Annex 15

Global Services

Issues

- Late source, no source
- Incomplete and erroneous source
- AIRAC changes published in a non-AIRAC Amendment
- Permanent AIRAC changes published by SUP or NOTAM
- Late postponement
- Effective date outside AIRAC system
- Missing harmonisation between states
- No response
- Restrictive disclaimers on Websites, Manipulation of source on Websites

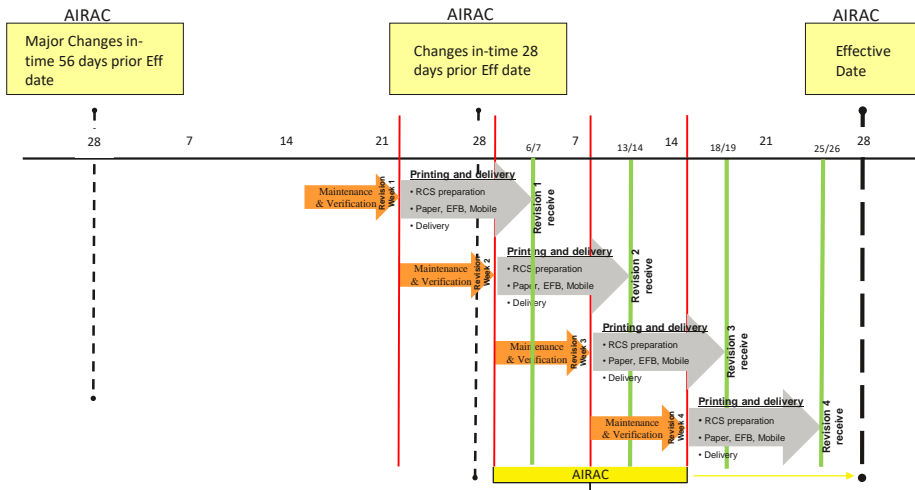


Copyright © 2023 Boeing. All rights reserved.

Charting Cut-off

Global Services

Internal Charting Cut-offs in conjunction with the Revision Cycles



Copyright © 2023 Boeing. All rights reserved.

Team collaboration

Global Services



<https://praxie.com/create-a-collaboration-framework-to-accelerate-business-success/>

Copyright © 2023 Boeing. All rights reserved.

Questions?

Global Services



<https://pixers.de/fototapeten/fragezeichen-58152148>

Copyright © 2023 Boeing. All rights reserved.



Copyright © 2023 Boeing. All rights reserved.

AFI FRA PMT5 and UPR WORKSHOP, OCTOBER 2024, NAIROBI**21 to 25 October 2024, NAIROBI, KENYA**

17

EUROCONTROL