



Agreement between the Administrations of Spain and France concerning frequency co-ordination of Digital Terrestrial Television in the band 470-694 MHz

1. Introduction

This Agreement facilitates the mutual clearance of the terrestrial broadcasting services from the 694 MHz – 790 MHz band (“700 MHz band”) by defining a new agreed frequency plan for Digital Terrestrial Television (DTT) in the 470-694 MHz band.

This Agreement replaces the “Acuerdo de coordinacion de frecuencias entre las administraciones de Espana y de Francia para la radiodifusion de television digital terrestre en la banda 470-790 MHz » of the 24th of January 2013, and the GE06 Plan inside the coordination zone as described in Annex 1.

2. Coordination zone

The coordination zone between France and Spain is described in Annex 1.

This Agreement describes the new rights in the coordination zone in terms of assignments and allotments between Spain and France for the implementation of the DTT plan within the band 470-694 MHz

3. Frequency distribution and channel maps

The administrations of France and Spain agree to the frequency distribution inside the coordination zone as described and illustrated in Annex 2.

4. Allotments

Allotment shapes are described in Annex 3.

5. Assignments

France and Spain agree on the assignments as described in Annex 4.

France and Spain agree that any additional assignments in the coordination zone that are not listed in annex 4 must be coordinated.

For the case of Durango Oiz on channels 21, 27, 36 and 38, France agrees with the technical conditions in Annex 4 under the condition that if a harmful interference is reported in this area for these channels, Spain will take the appropriate actions to solve the situation within 1 month. If no improvement of the situation has been obtained, Spain must apply the conditions defined in Annex 5 within 3 months.

The request of coordination for additional assignments within an allotment listed in Annex 3 should be normally agreed if the cumulative interfering field strength does not exceed interfering field strength produced by the agreed stations in Annex 4 in the allotment area(s) of the cochannel channel allotment(s) of the other administration.

For the station outside the coordination zone each channel should normally be agreed as long as the stations uses characteristics similar to the one registered in the GE06 Plan or further agreed for similar co channel situations.

The two countries will inform each other two months before any roll out of agreed assignments.

6. Calculation methods

The field strength prediction model to be used to calculate the field strength is Fresnel Deygout, with a resolution of 100m for the case of terrestrial path or ITU-R 1546 1% of time for the maritime path.

7. Transitory period

Both administrations recognize the necessity for a transition period and will agree on the final date of the implementation within the coordination zone which must be before 30th of June 2020 taking into account what is established in the Decision (UE) 2017/899 of the European Parliament and of the Council of 17th of May 2017 on the use of the 470-790 MHz frequency band in the Union

8. Review of the Agreement

With the consent of the other administration, this Agreement may be modified at the request of one of the signatory administration where such a modification becomes necessary in the light of administrative, regulatory or technical developments. An administration cannot withdraw unilaterally from this Agreement.

9. Language of the Agreement

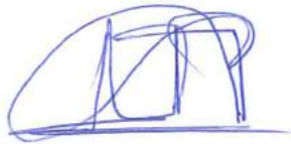
This Agreement exists in two original versions in English. Each Administration has one of the versions.

10. Entry into force

This Agreement will enter into force on the date of the signature.

Done in Maisons Alfort, 28th of June 2017

For Spain

A handwritten signature in blue ink, consisting of a large, rounded initial 'A' followed by several vertical strokes and a horizontal line at the bottom.

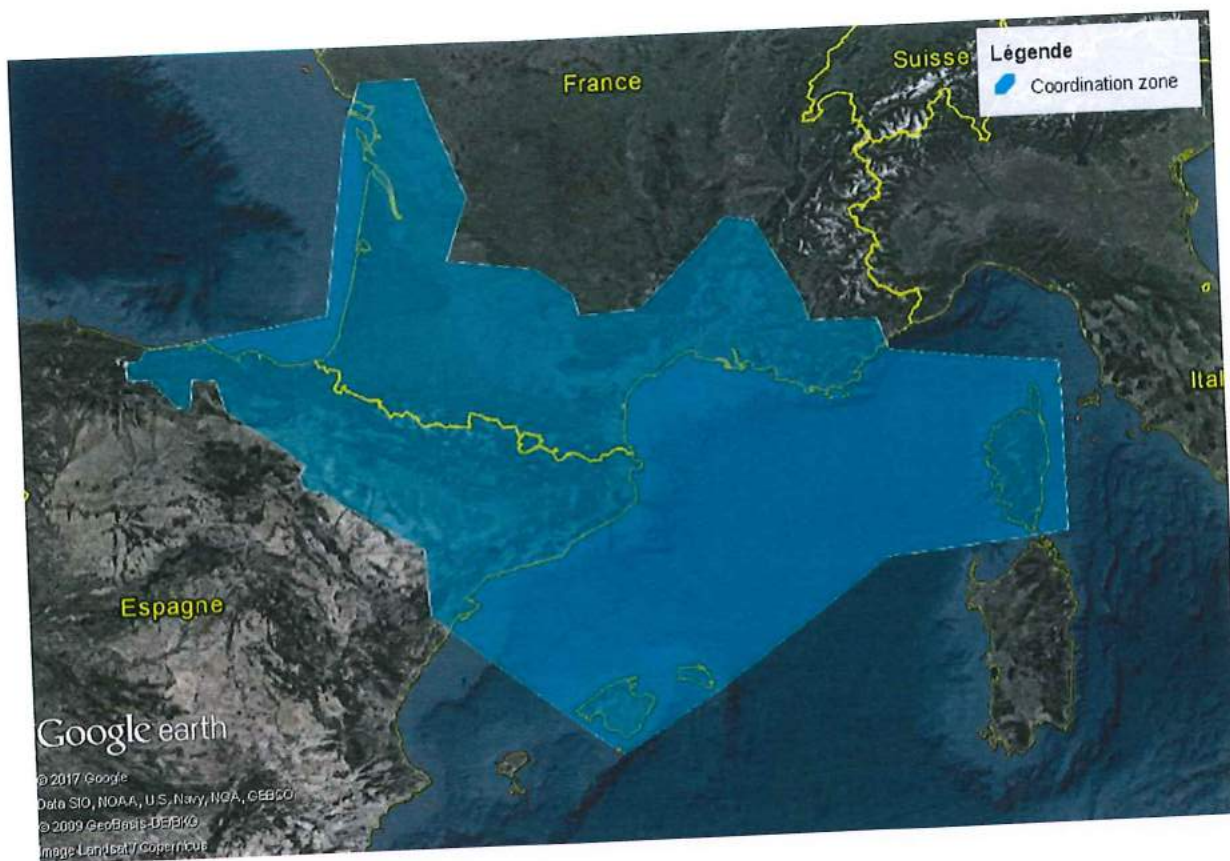
Antonio Fernandez Paniagua

For France

A handwritten signature in black ink, featuring a large, sweeping initial 'C' followed by several vertical strokes and a long horizontal line extending to the right.

Cédric Perros

Annex 1 – Coordination zone between France and Spain



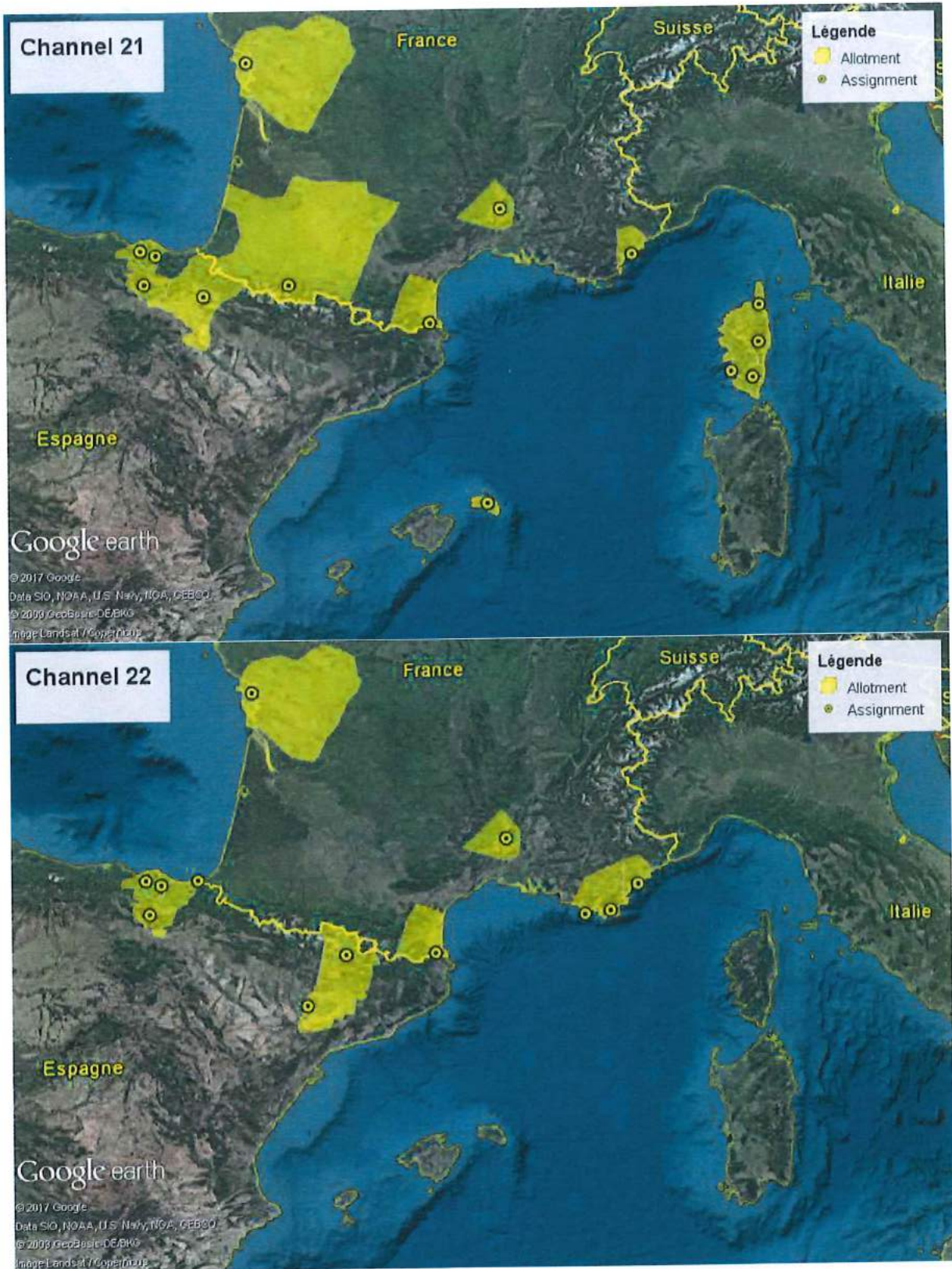
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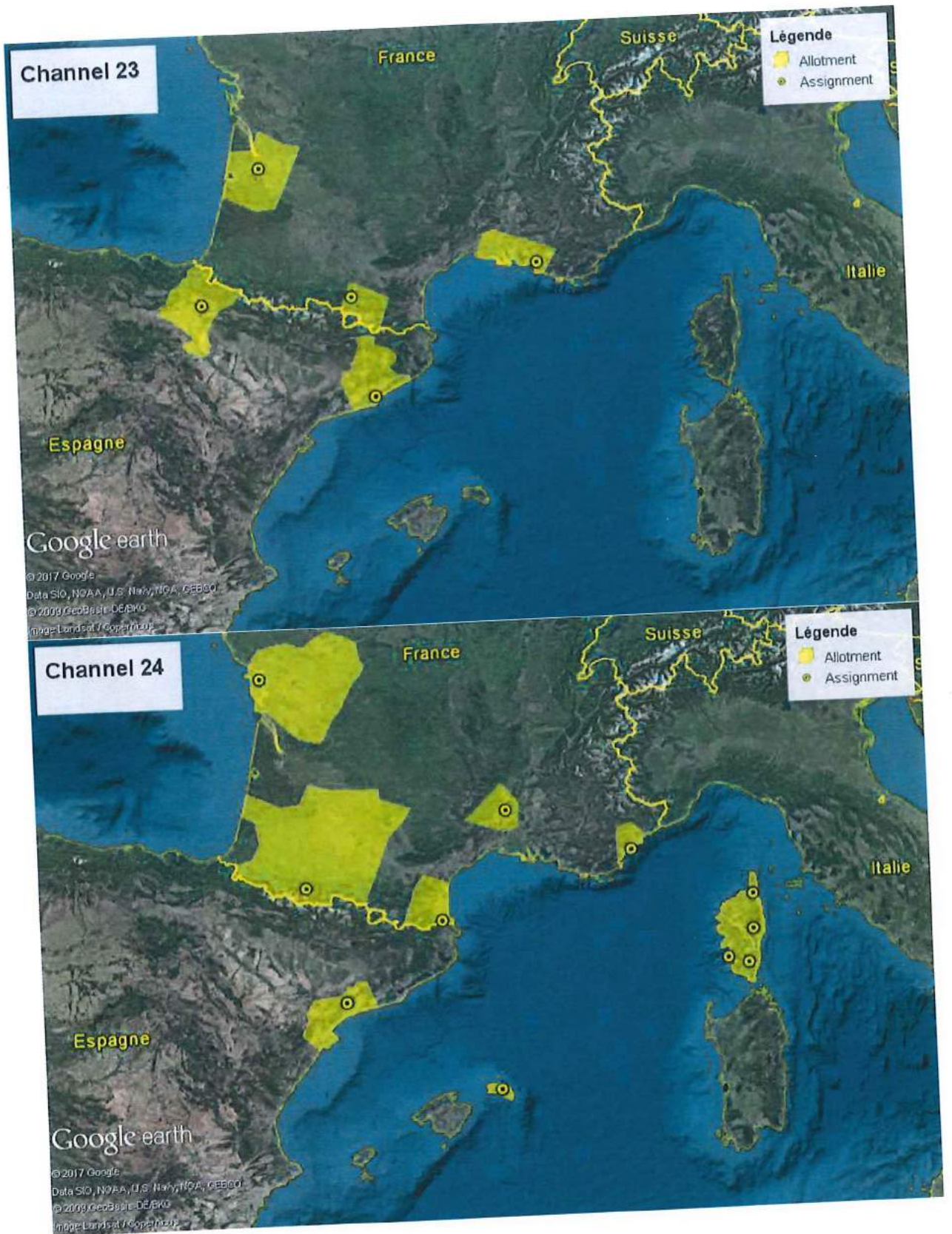
Annex 2 – Frequency distribution and channel maps

The administrations of France and Spain agree to the following frequency distribution inside the coordination zone.

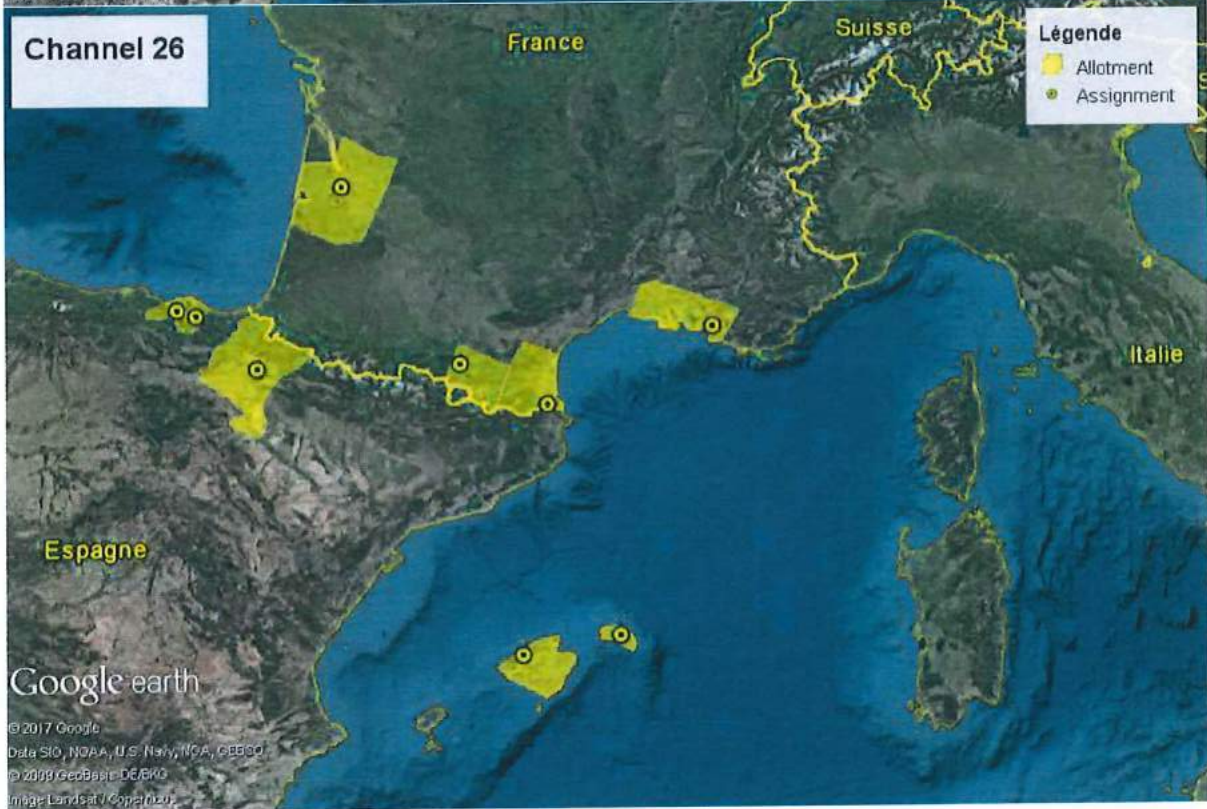
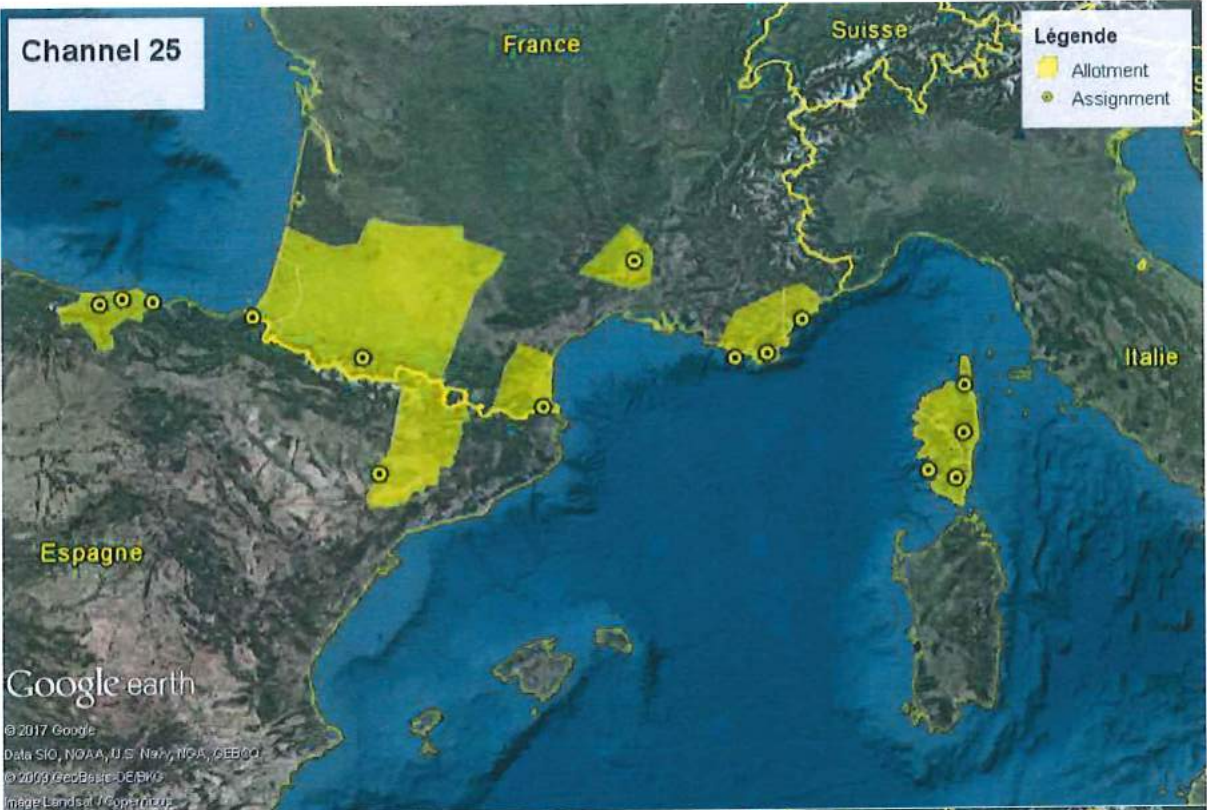
Adm	Allotment/Broadcasting area	Main station	Channels								
			23	27	29	31	33	34	41	44	47
E	BARCELONA	COLLSEROLA	23	27	29	31	33	34	41	44	47
E	GIRONA	GERONA-ROCACORBA	29	30	32	35	36	37	38	42	45
E	GIRONA	MASSANET CABRENYS	29	30	32	35	36	37	38	42	45
E	ALAVA	VITORIA-BUSTOS	21	22	27	30	33	36	43	45	
E	CANTABRIA	CASTRO-URDIALES	25	29	32	40	43	44	46	47	
E	CANTABRIA	LIERGANES-P CABARGA	25	29	32	40	43	44	46	47	
E	CANTABRIA	TORRELAVEGA-IBIO	25	29	32	40	43	44	46	47	
E	GUIPUZCOA	JAIZQUIBEL	22	28	31	32	40	41	44	48	
E	HUESCA	ARGUIS	28	30	41	42	44	45	46	48	
E	LLEIDA	ALPICAT	22	25	28	31	32	35	36	38	47
E	LLEIDA	SORIGUERA	22	29	32	35	37	39	40	43	47
E	MALLORCA	ALFABIA	26	30	35	39	42	43	47	48	
E	MENORCA	MONTE TORO	21	24	26	28	31	35	40	47	
E	NAVARRA	MONREAL	21	23	26	29	32	34	37	47	
E	TARRAGONA	MUSARA	24	28	29	31	35	36	37	40	47
E	VIZCAYA	ARCHANDA	21	22	26	27	28	35	36	38	
E	VIZCAYA	DURANGO-OIZ	21	22	26	27	28	35	36	38	
F	ALPES-MARITIMES-OUEST	ST RAPHAEL	21	22	24	25	28	39	45	48	
F	ARIEGE-EST	TARASCON SUR ARIEGE	23	26	30	33	37	39	40	47	
F	AUDE-TARNE	CARCASSONNE	31	32	37	41	42	43	46	48	
F	BAYONNE-LANDES	BAYONNE	25	30	33	39	42	43	45	46	
F	BOUCHES-DU-RHONE	MARSEILLE GRANDE ETO	23	26	27	29	30	34	35	38	
F	CHARENTE-MARITIME-NORD	LESPARRE	29	31	32	33	42	44	46	48	
F	CORSE-SUD	PORTO VECCHIO 1	21	24	25	29	31	34	37	39	44
F	GARD-NORD	ALES MONT BOUQUET	21	22	24	25	28	37	40	44	
F	GIRONDE	BORDEAUX BOULIAC	23	26	30	33	37	39	45	47	
F	HAUTE-CORSE	AJACCIO	21	24	25	29	31	34	37	39	44
F	HAUTE-CORSE	BASTIA	21	24	25	29	31	34	37	39	44
F	HAUTE-CORSE	CORTE ANTISANTI	21	24	25	29	31	34	37	39	44
F	HERAULT	MONTPELLIER	27	31	32	40	41	43	46	48	
F	POITOU-CHARENTES	LA ROCHELLE	21	22	24	28	33	34	35	41	
F	PYRENEES-ORIENTALES	PERPIGNAN	21	22	24	25	26	28	34	44	
F	SUD-OUEST	TOULOUSE PIC DU MIDI	21	24	25	27	29	34	36	38	44
F	VAR	HYERES	22	25	28	29	34	38	41	48	
F	VAR	TOULON	22	25	28	29	38	41	43	48	
F	VAUC-DROME-ARDECHE	AVIGNON MONT VENTOUX	30	33	36	37	39	42	45	47	

The following channel maps illustrate the distribution.

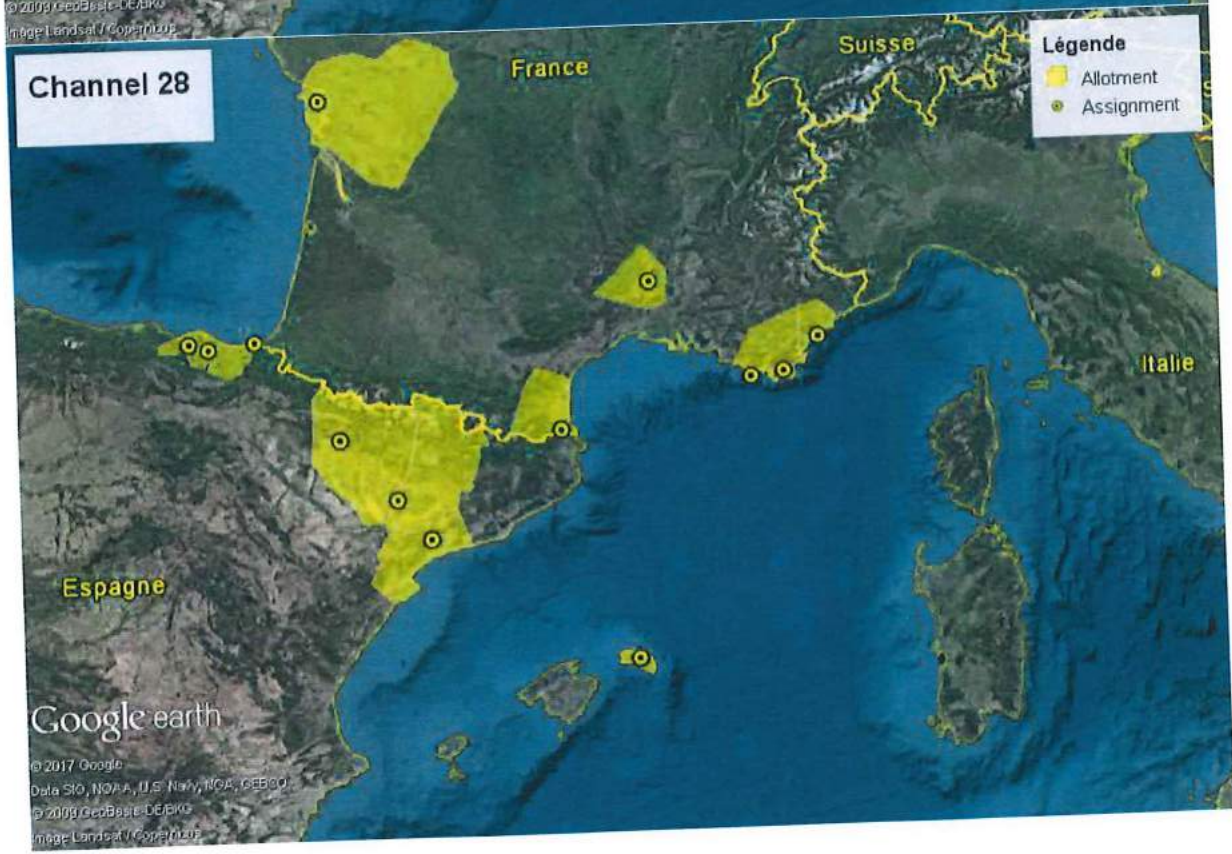




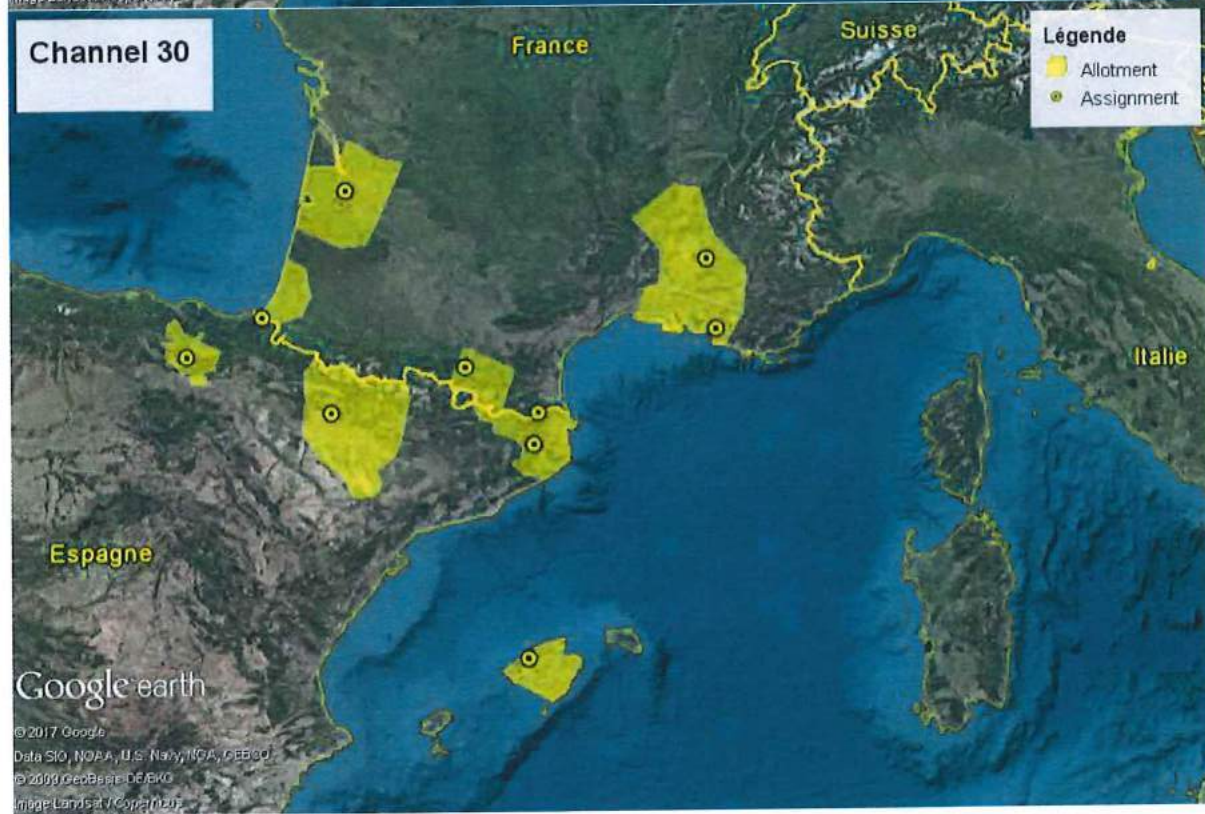
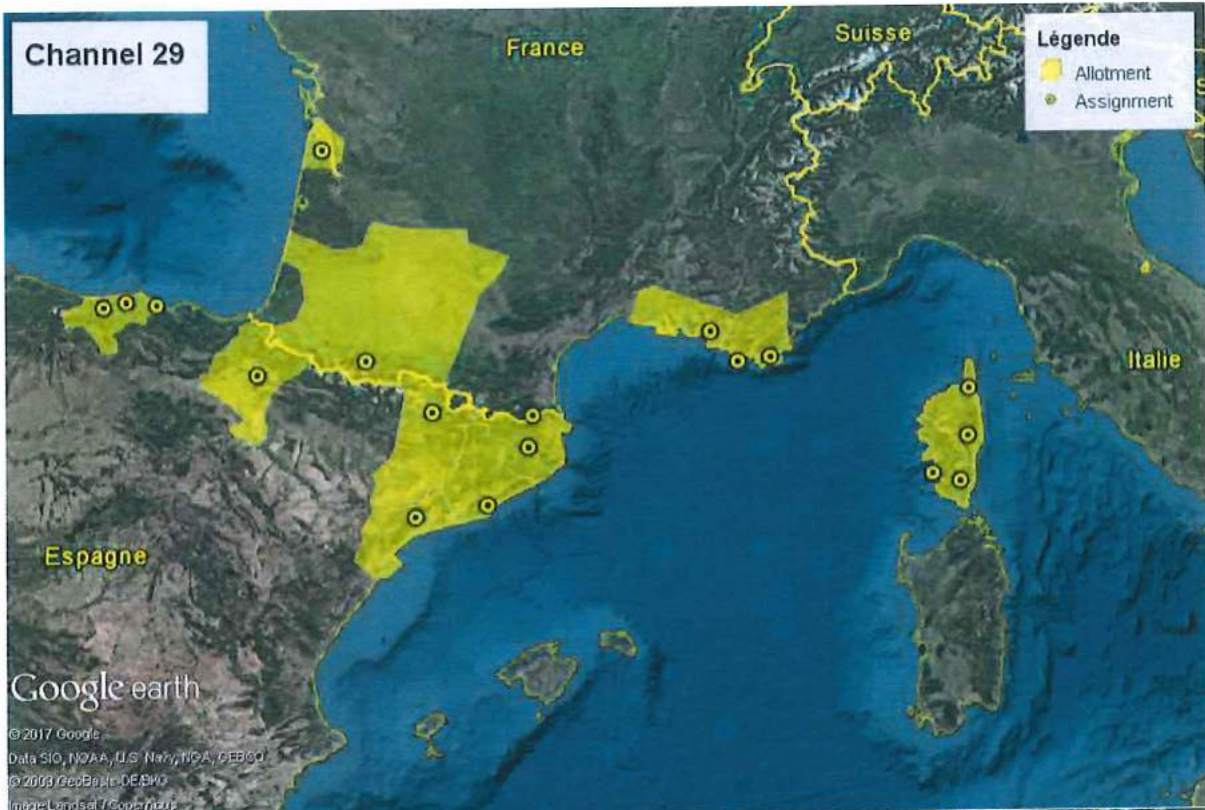
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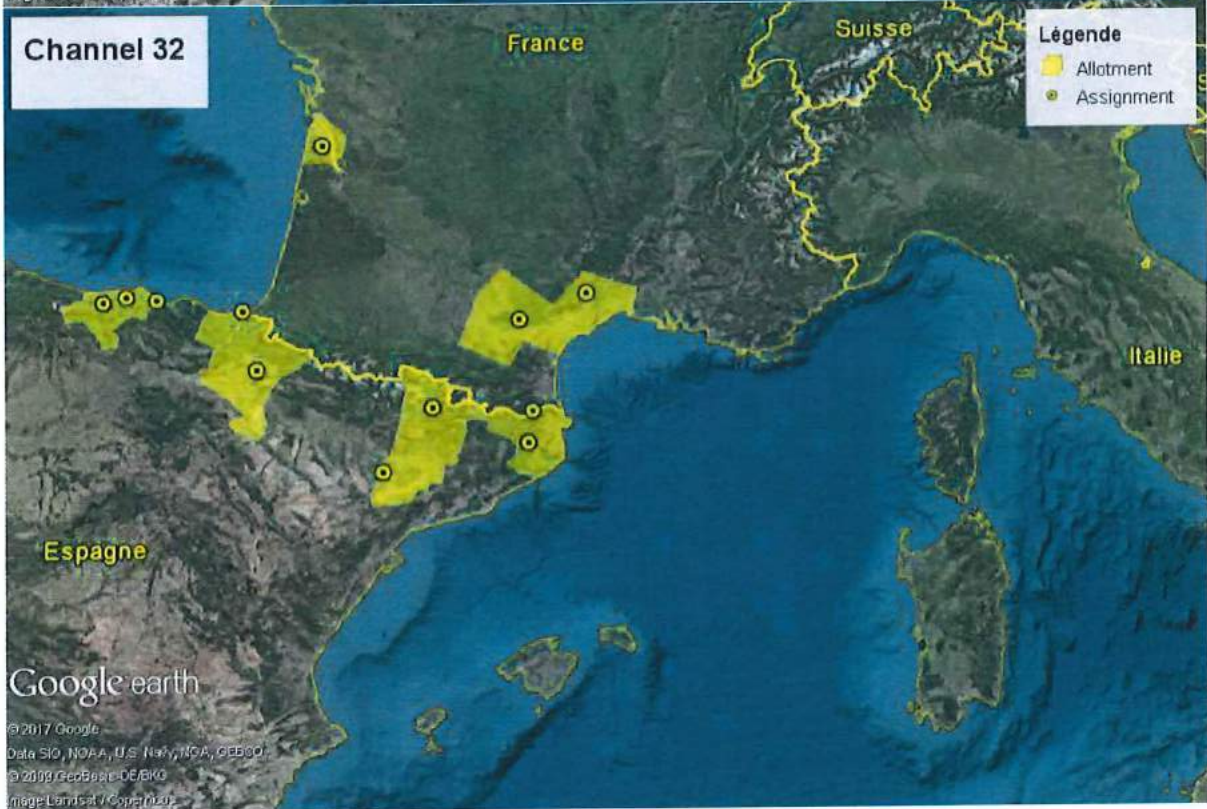
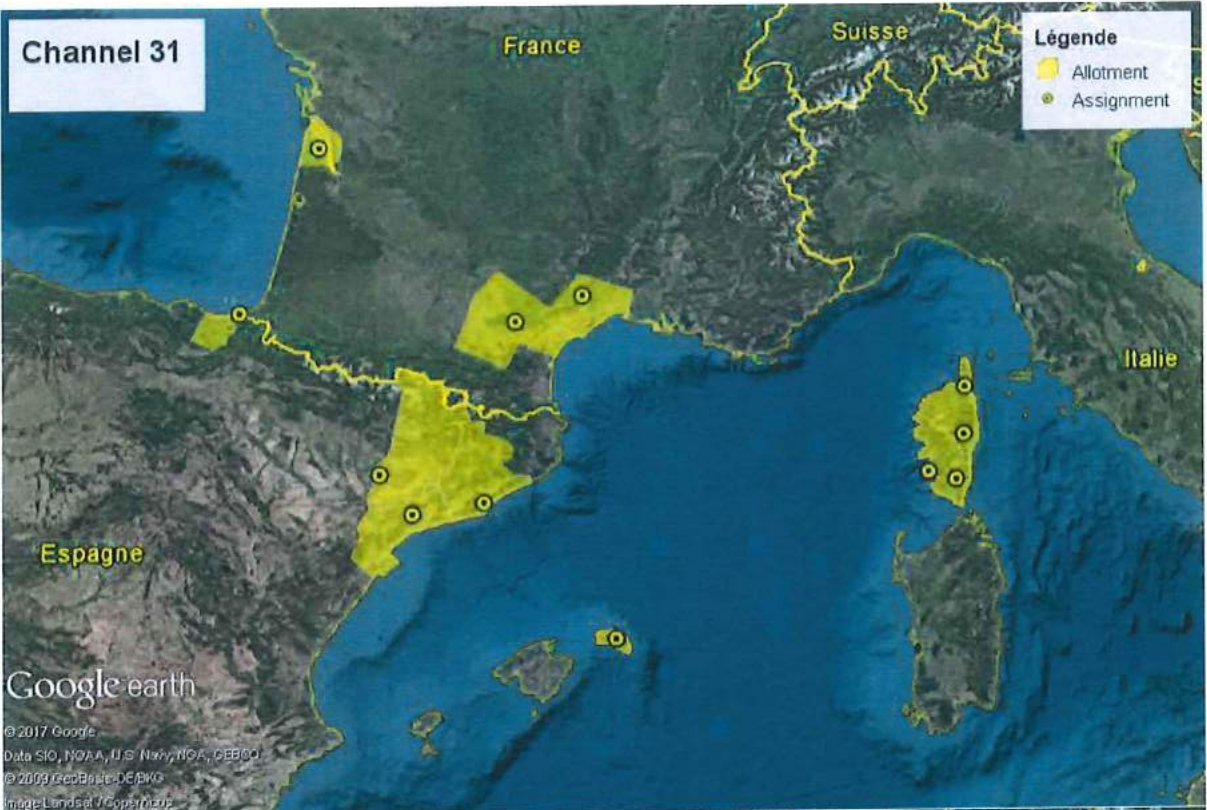
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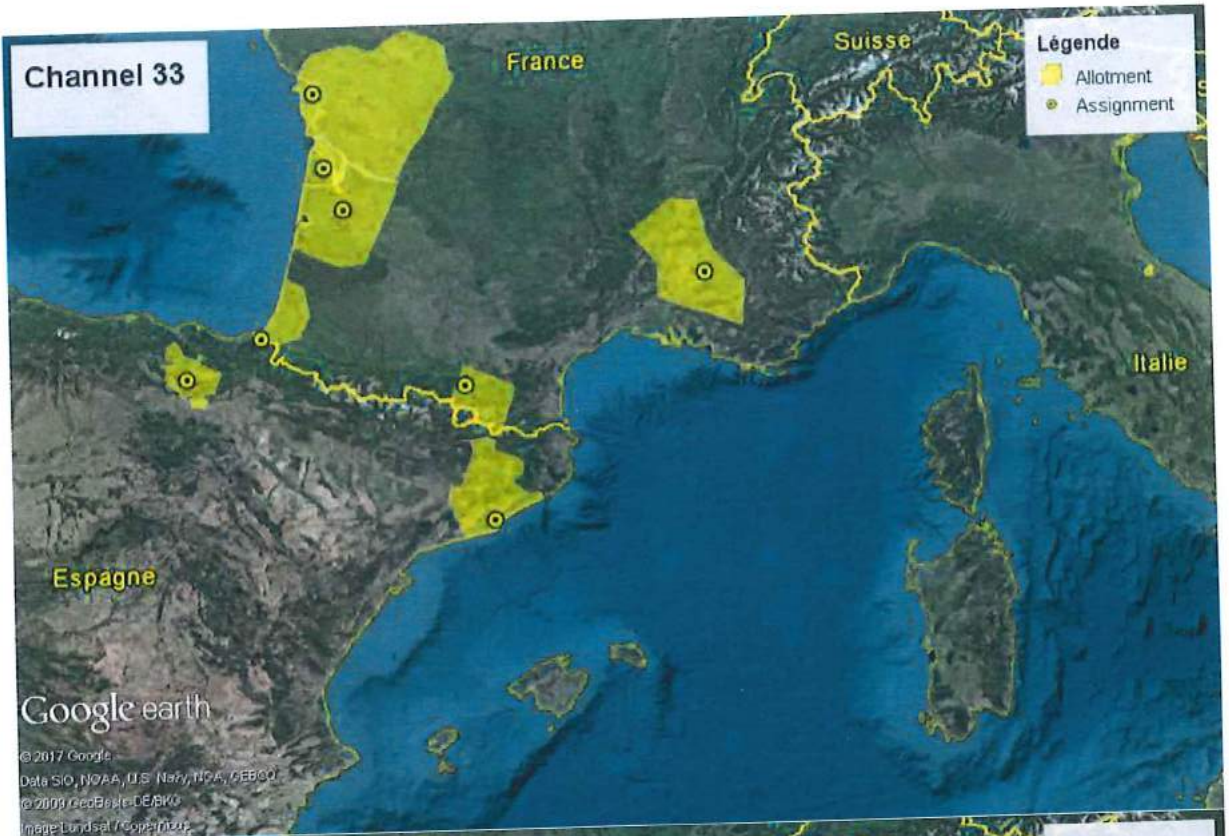
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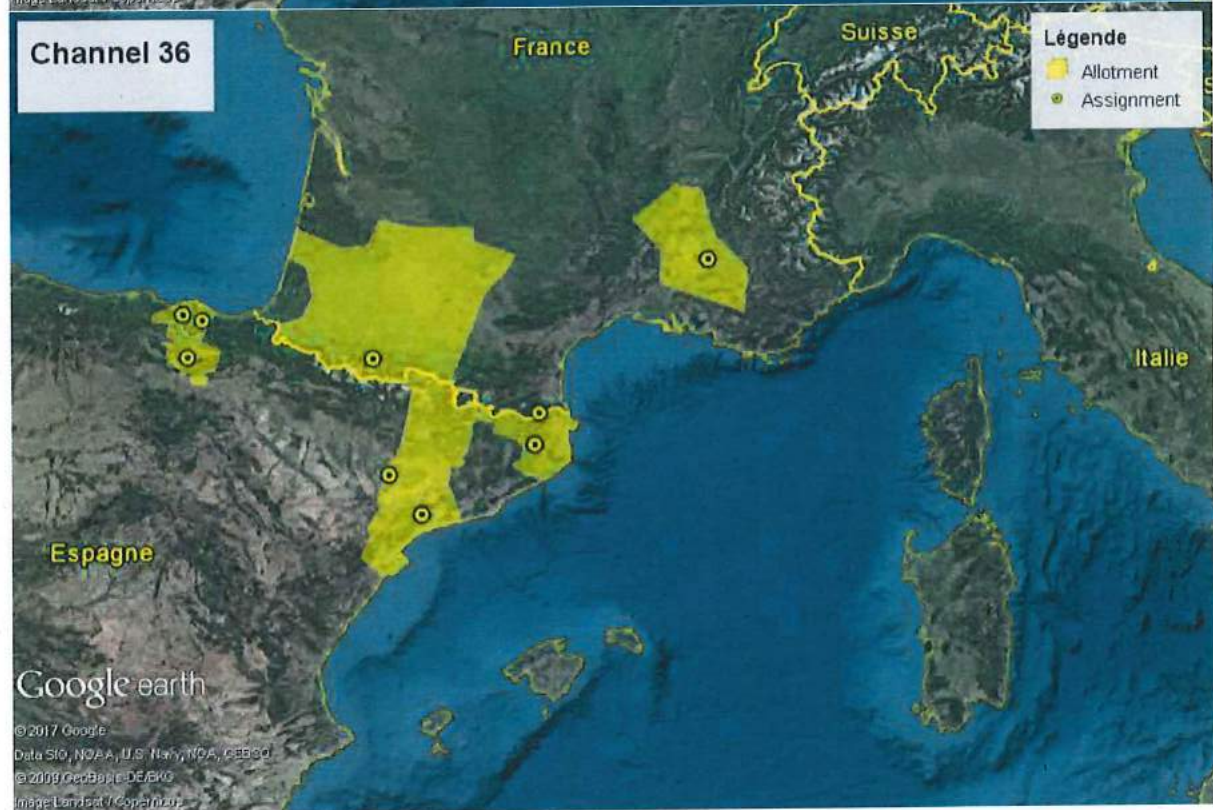
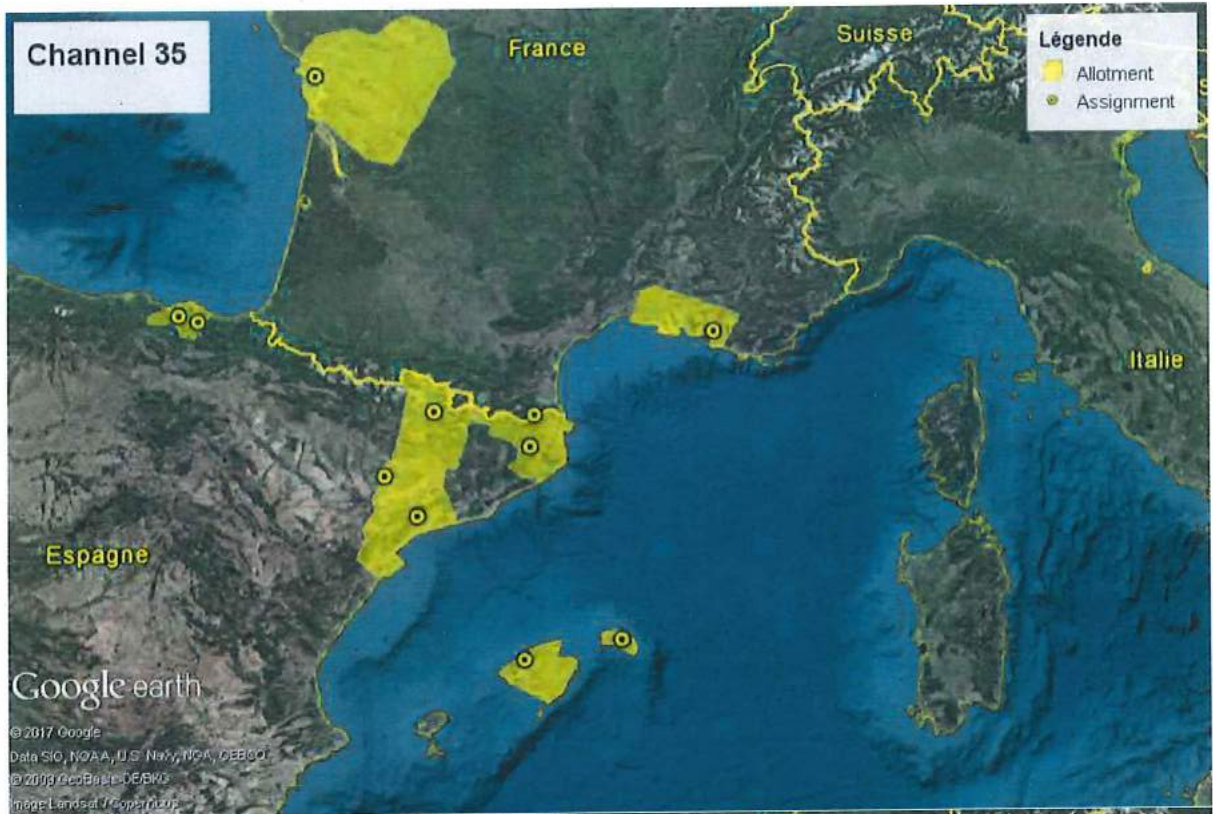
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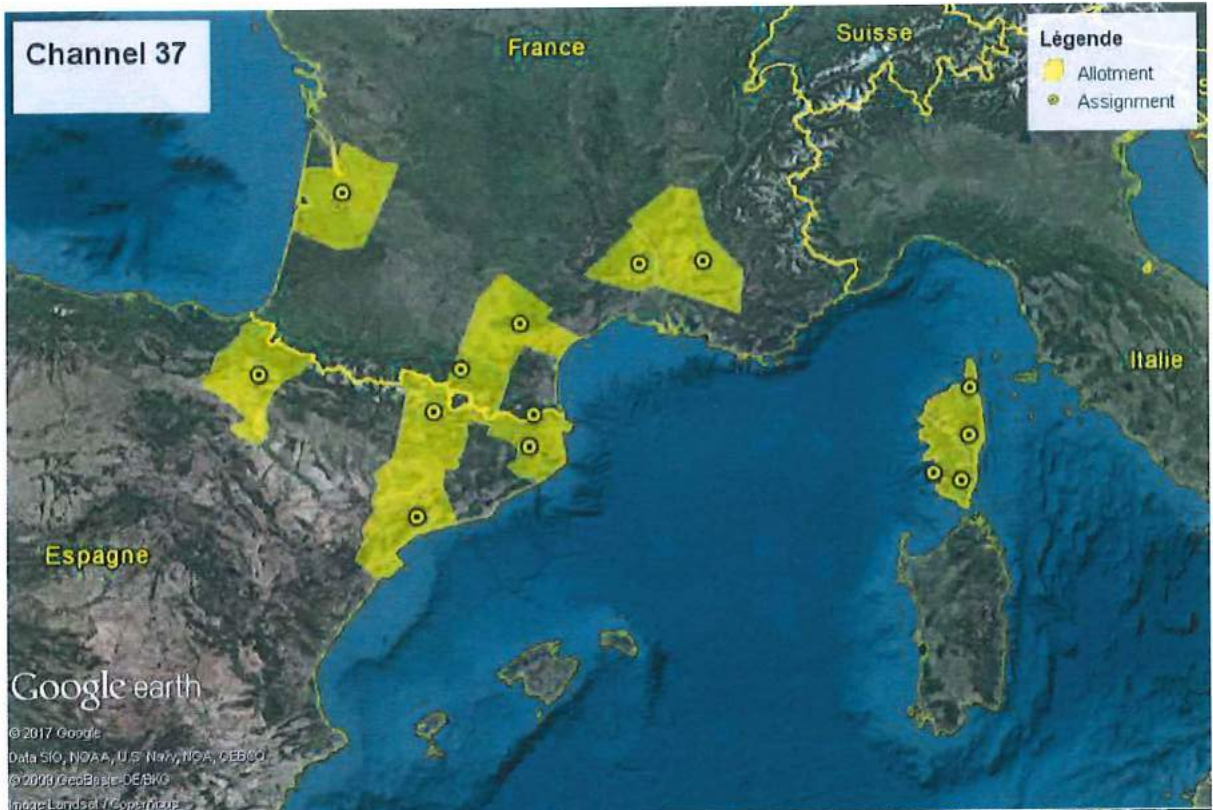
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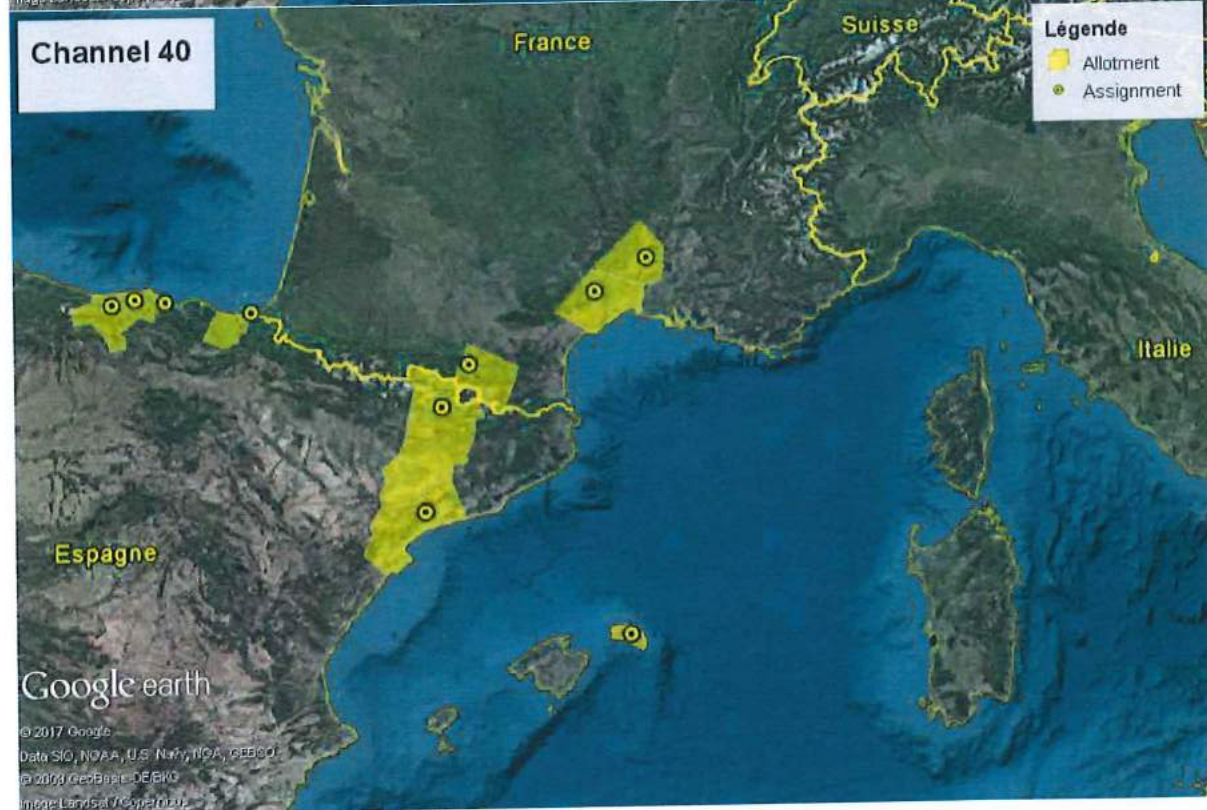
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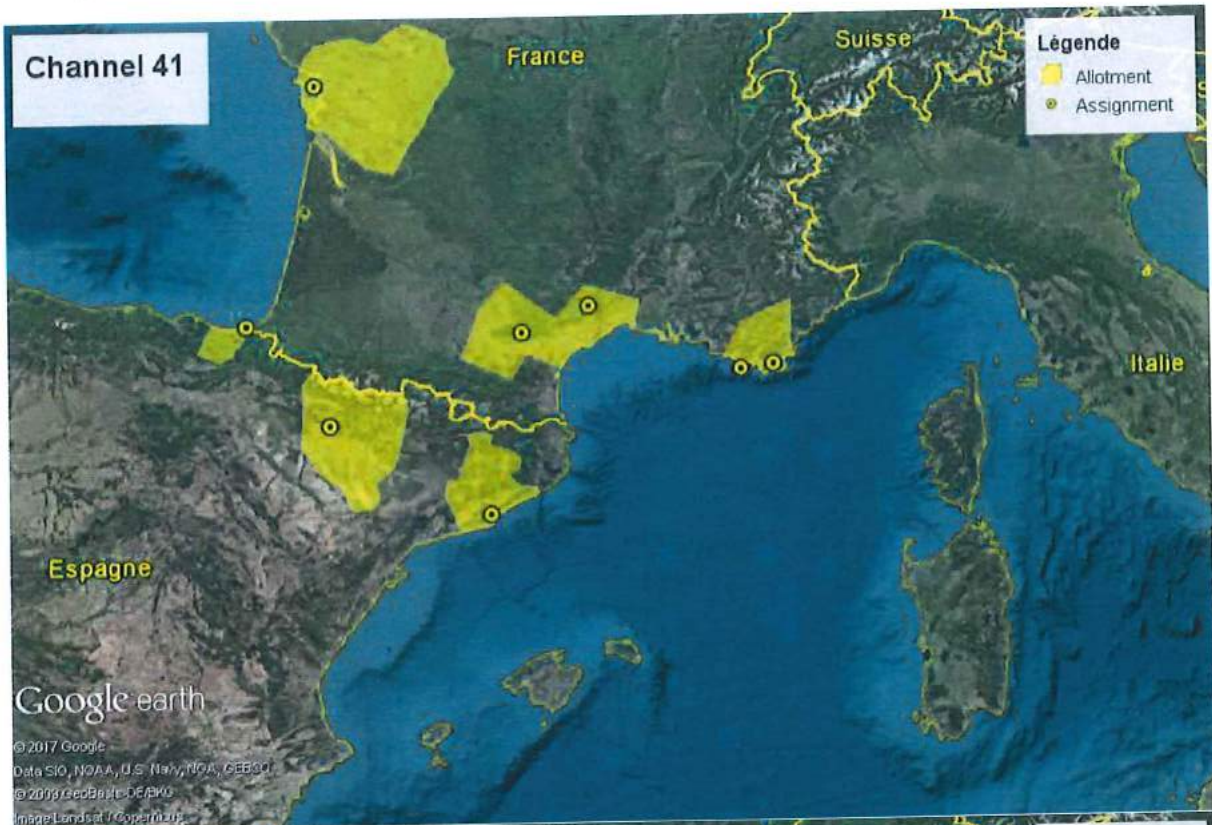
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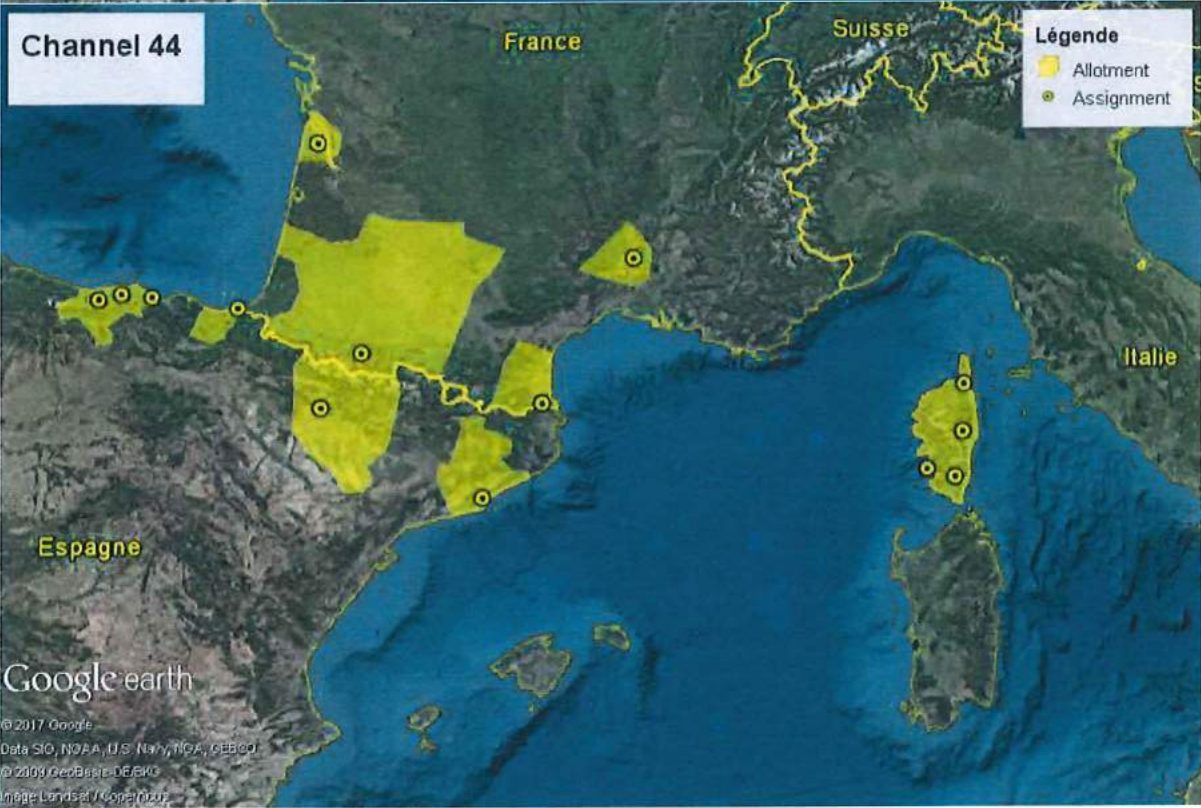
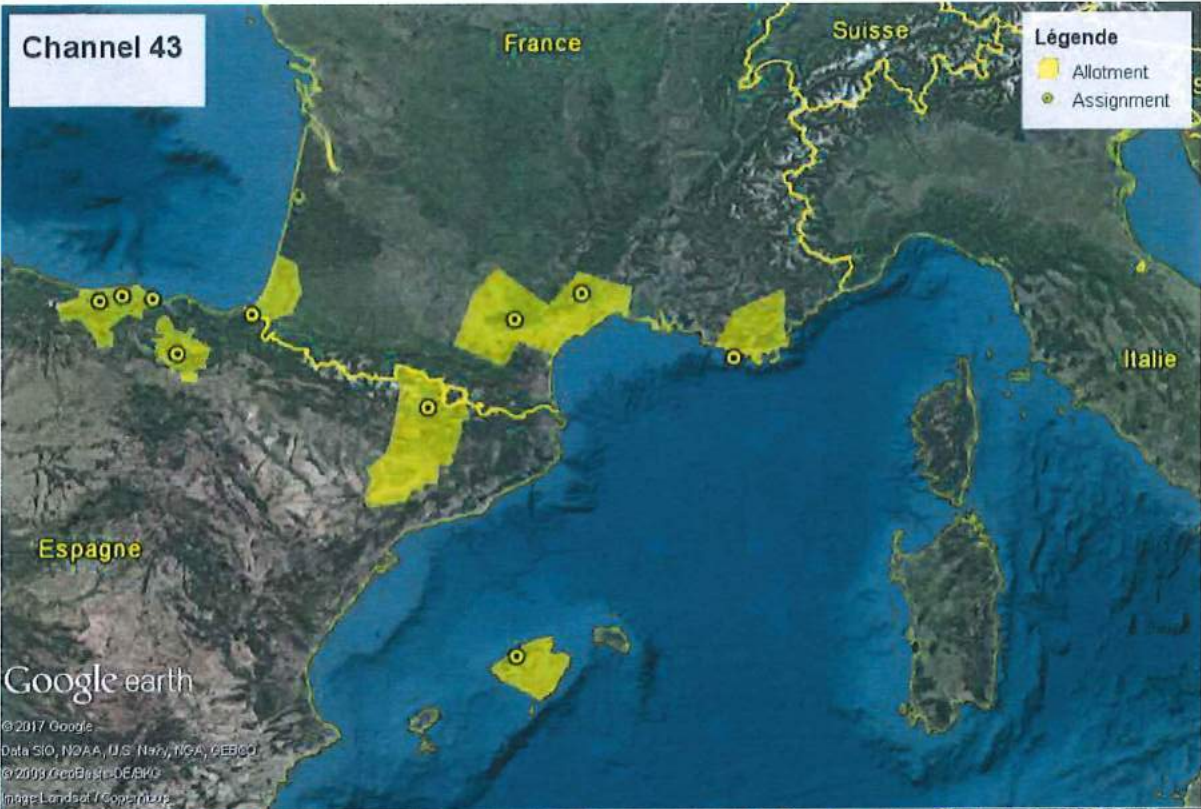
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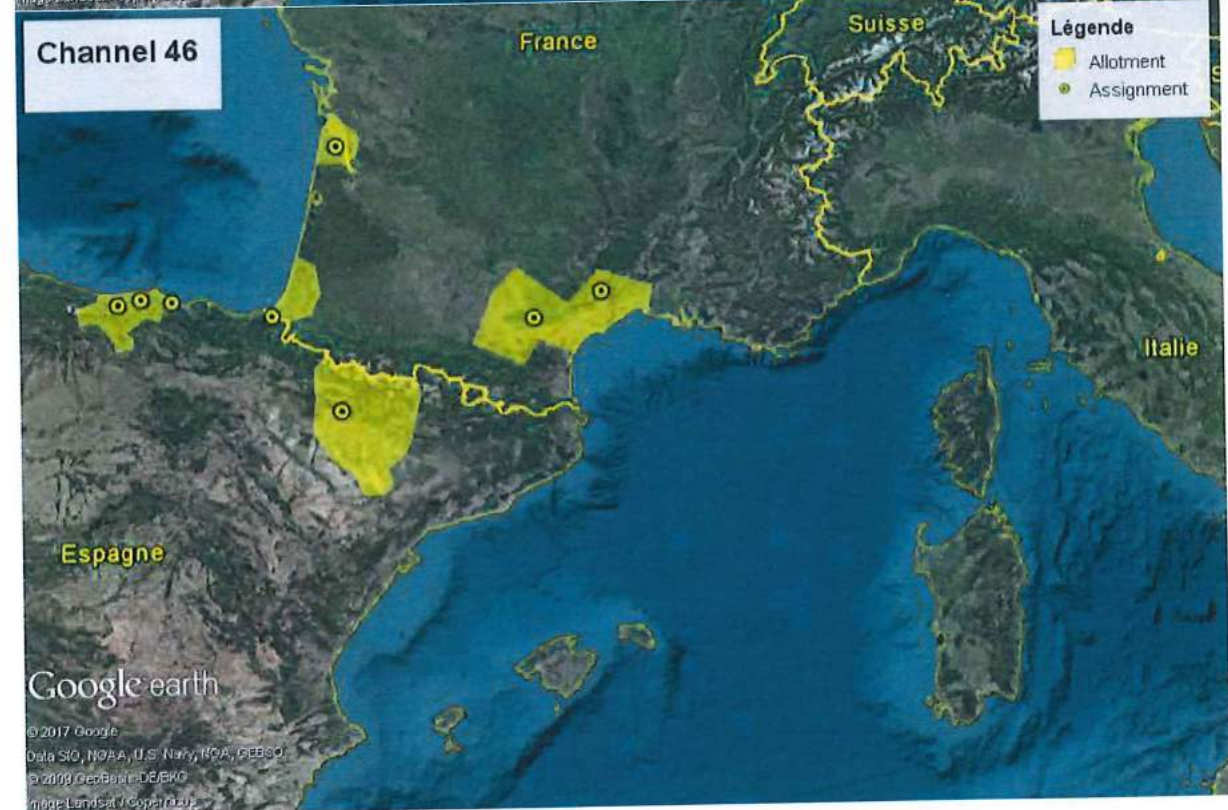


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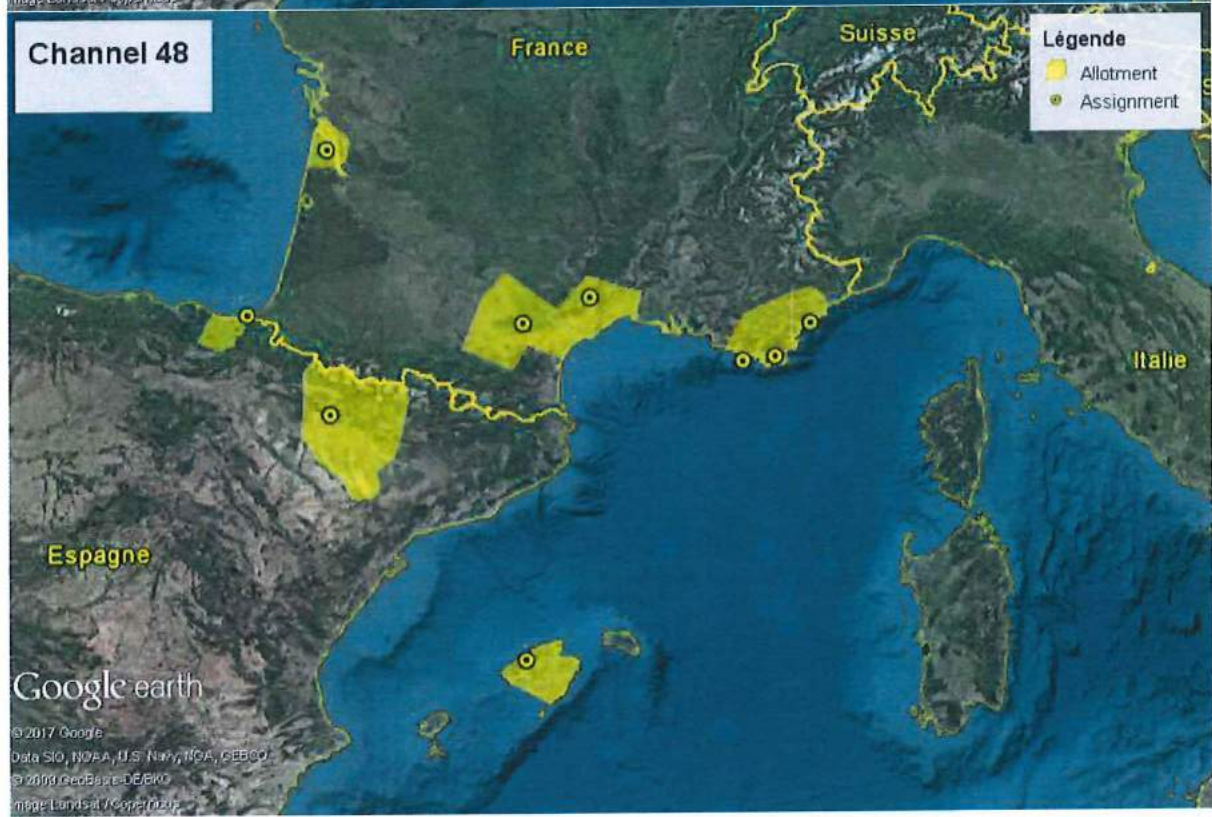
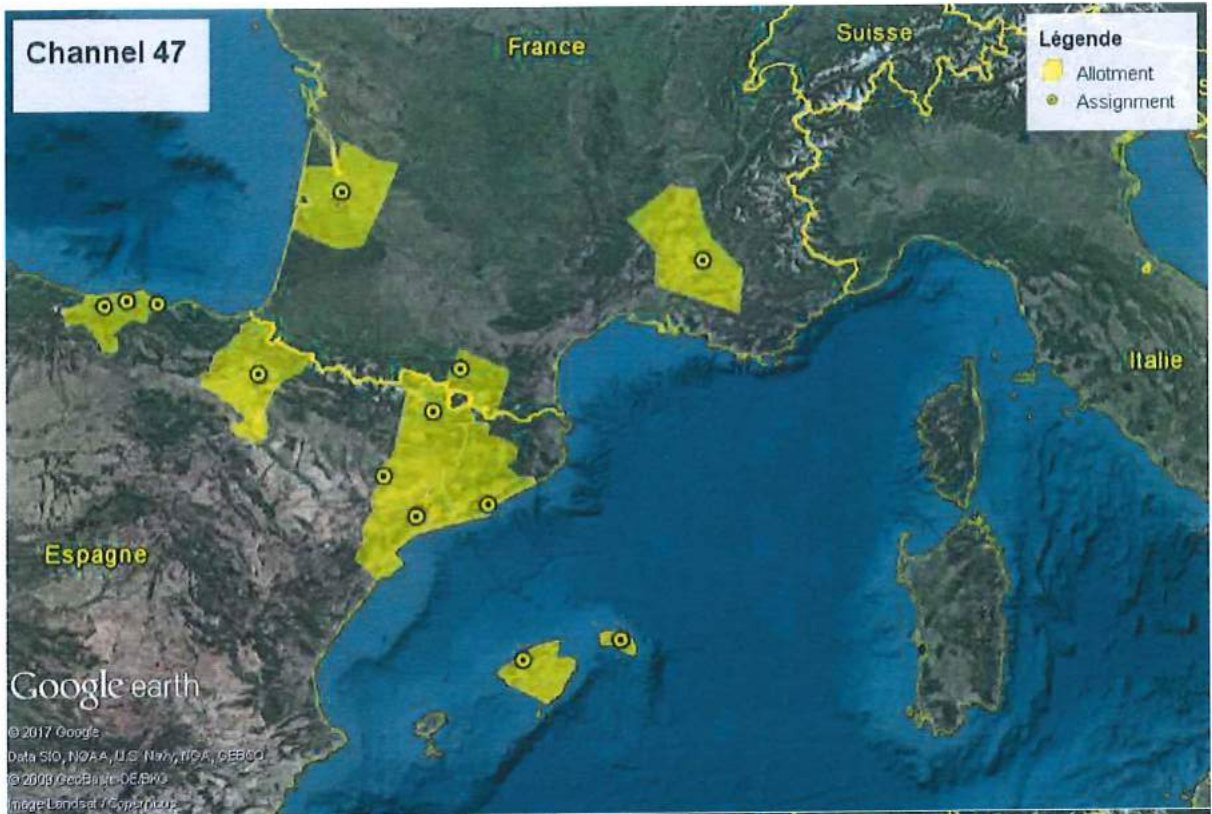


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Annex 3 – Agreed allotments between Spain and France

 <p>F-E GT2+GA1_rev1.txt</p>	 <p>E-GT2+GA1.txt</p>
<p>For France</p>	<p>For Spain</p>

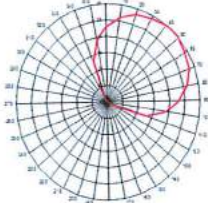
Annex 4 – Agreed assignments between Spain and France

 <p>700 MHz - datos tecnicos Francia - v1-</p>	 <p>700 MHz - datos tecnicos España - v7-</p>
<p>For France</p>	<p>For Spain</p>

Annex 5 – Specific conditions for Durango Oiz

Nombre estación	f MHz	cn	Longitud Latitud Cota	Hef Ant	dBW Pol. Dir.	Diagrama	Comentarios
DURANGO-OIZ	474	21	002W3535 43N1340 1009	903 32	32 H D		Acuerdo provisional con la condición de una atenuación adicional 7dB en el sector 040-060, para compatibilidad con TOULOUSE.
DURANGO-OIZ	634	41	002W3542 43N1342 1001	925 58	32 H D		Acuerdo provisional
DURANGO-OIZ	522	27	002W3534 43N1340 1026	918 32	32 H D		Acuerdo provisional con la condición de una atenuación adicional 7dB en el sector 040-060, para compatibilidad con TOULOUSE.
DURANGO-OIZ	626	40	002W3535 43N1340 1009	903 32	32 H D		Acuerdo provisional
DURANGO-OIZ	594	36	002W3535 43N1340 1009	903 32	32 H D		Acuerdo provisional con la condición de una atenuación adicional 7dB en el sector 040-060, para compatibilidad con TOULOUSE.
DURANGO-OIZ	658	44	002W3535 43N1340 1009	903 32	32 H D		Acuerdo provisional
DURANGO-OIZ	610	38	002W3535 43N1340 1009	903 32	32 H D		Acuerdo provisional con la condición de una atenuación adicional 7dB en el sector 040-060, para compatibilidad con TOULOUSE.

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Nombre estación	f MHz	cn	Longitud Latitud Cota	Hef Ant	dBW Pol. Dir.	Diagrama	Comentarios
DURANGO-OIZ	554	31	002W3534 43N1340 1026	918 32	32 H D		Acuerdo provisional.