



19/05/2022 B. Delangue



DUNIAS WORKSHOP – ASSESMENT OF IAS IN COASTAL DUNE ECOSYSTEMS

IAS in coastal dunes of France

Q. DUMONT

DATA SOURCES

- **IAS regional lists of CBN de Bailleul**
 - Hauts-de-France
 - Normandie
- **IAS regional lists of others CBN**
 - CBN de Brest (Bretagne, Pays de la Loire)
 - CBN Sud-Atlantique (Poitou-Charente, Aquitaine)
- **Contacts with managing organizations of dune ecosystems**

LIST OF THE IAS IN FRANCE

- **10 species**
 - Very short overview
 - IAS status per region
 - Distribution area in France
 - Some control measures (in the Hauts-de-France region)

***BACCHARIS HALIMIFOLIA* (GROUNDSEL-BUSH)**

- **Overview (CABI, CDR EEE France)**
 - Asteraceae, perennial shrub
 - Native of north America
 - Prolific seed production, long-range seed dispersal, shade tolerant, wide adaptability to soil nutrients and salinity...
- **Statuses of IAS in the French coastal regions**
 - Established IAS in all regions



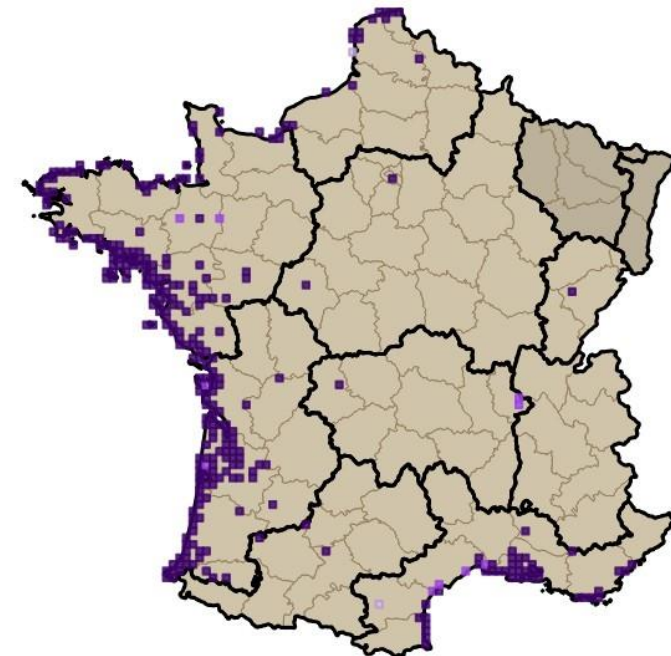
BACCHARIS HALIMIFOLIA (GROUNDSEL-BUSH)

• Distribution area in the French coastal regions

- Present in all the French coastal regions
- Less in the north but often planted

• Control interventions (CABI, CDR EEE France)

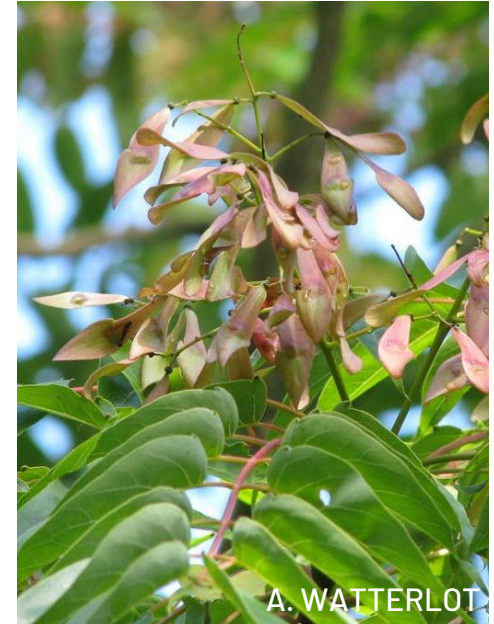
- Manual cutting
- Manual or mechanical pull out
- Extensive grazing with mechanical shredding



200 km

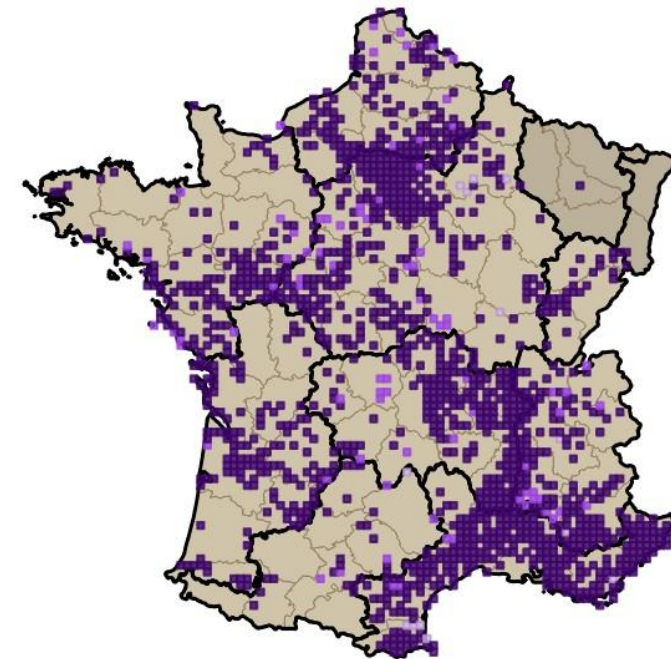
***AILANTHUS ALTISSIMA* (TREE-OF-HEAVEN)**

- **Overview (CABI, CDR EEE France)**
 - Simaroubaceae, perennial tree
 - Native of China
 - Prolific fruiting, adaptability to infertile sites and rapid growth rate
- **Statuses of IAS in the French coastal regions**
 - Established IAS in almost all the coastal regions
 - Excepted in Bretagne : potential IAS



AILANTHUS ALTISSIMA (TREE-OF-HEAVEN)

- **Distribution area in the French coastal regions**
 - Frequent in almost all the French coastal regions, outside of Bretagne (rarer)
- **Management interventions (CABI, CDR EEE France)**
 - Manual or mechanical grubbing-up with management of resprouting
 - Debarking



FCBN, 2016. Système d'information national flore. Données du réseau des CBN

200 km

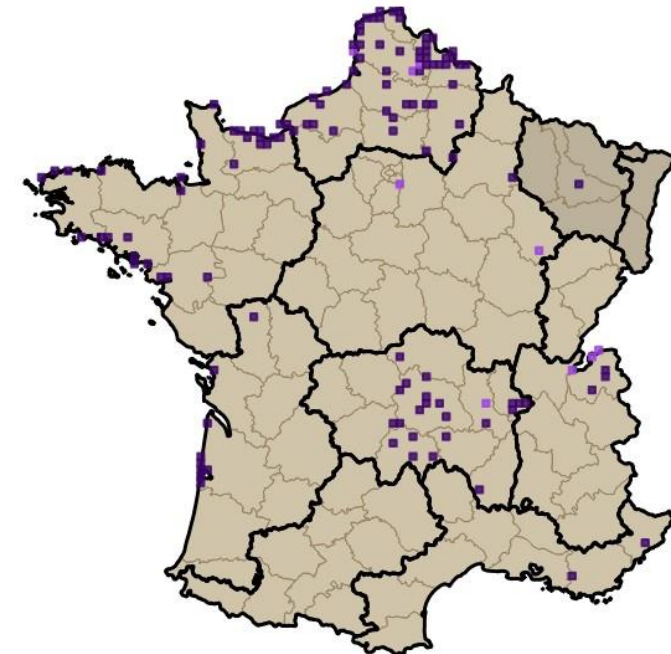
***ROSA RUGOSA* (RUGOSA ROSE)**

- **Overview (CABI, CDR EEE France)**
 - Rosaceae, perennial woody shrub
 - Native of East Asia
 - Resistance to diseases and salinity, creeping rhizomes from which suckers arise
- **Statuses of IAS in the French coastal regions**
 - IAS in Hauts-de-France
 - Potential IAS in Normandie and Bretagne



ROSA RUGOSA (RUGOSA ROSE)

- **Distribution area in the French coastal regions**
 - Mainly in North-East of France
- **Management interventions (CABI, CDR EEE France)**
 - Manual or mechanical uprooting depending on the size of the stand
 - Regular cuttings (during several years)

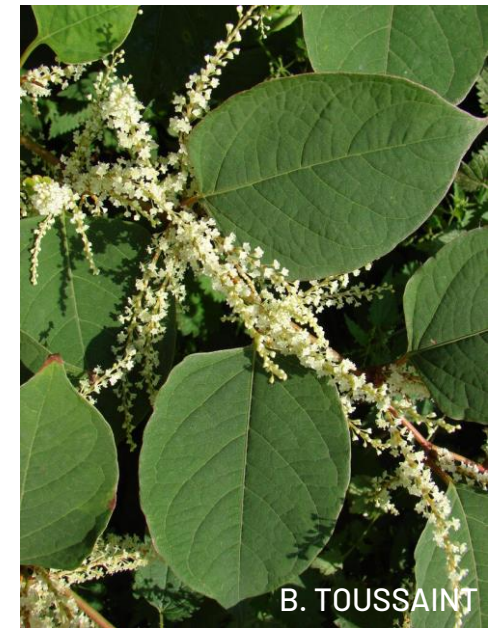


FCBN, 2016. Système d'information national flore. Données du réseau des CBN

200 km

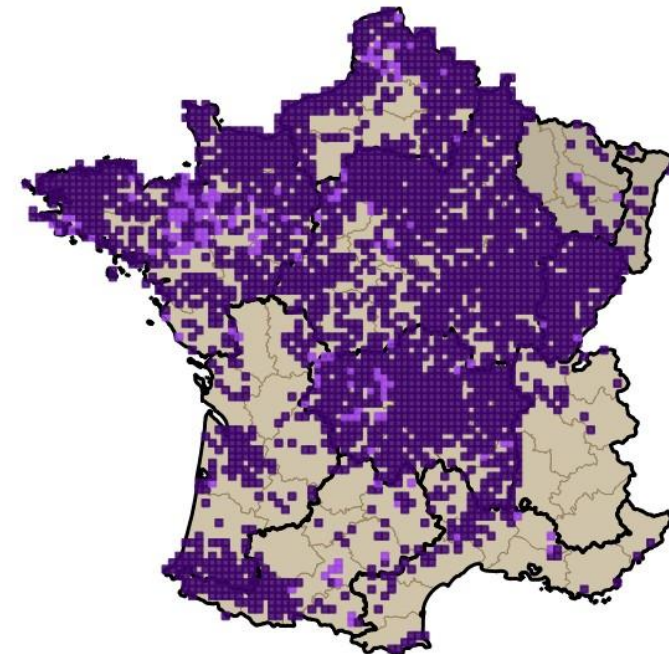
REYNOUTRIA JAPONICA (JAPANESE KNOTWEED)

- **Overview (CABI, CDR EEE France)**
 - Polygonaceae, herbaceous perennial shrub
 - Native of Japan, China, Korea
 - Ability to tolerate a remarkable range of soil types and climates, vegetative spread by rhizome fragments, “being almost impossible to eradicate once it has taken hold”,
- **Statutes of IAS in the French coastal regions**
 - IAS in all coastal regions



REYNOUTRIA JAPONICA (JAPANESE KNOTWEED)

- **Distribution area in the French coastal regions**
 - Widespread in all the French coastal regions...
- **Management interventions (CABI, CDR EEE France)**
 - Uprooting of smaller plants
 - Mowing
 - Grazing by goats
 - Cutting and sheeting
 - ...



FCBN, 2016. Système d'information national flore. Données du réseau des CBN

***CARPOBROTUS EDULIS* (HOTTENTOT FIG)**

- **Overview (CABI, CDR EEE France)**
 - Aizoaceae, succulent perennial herbaceous
 - Native of South Africa
 - Formation of dense mats, flexibility of its mating system, high seed production
- **Statutes of IAS in the French coastal regions**
 - IAS in Normandie, Bretagne and Aquitaine
 - Absent of Hauts-de-France



B. TOUSSAINT

***CARPOBROTUS EDULIS* (HOTTENTOT FIG)**

- **Distribution area in the French coastal regions**
 - Absent in Hauts-de-France and north of Normandie
 - Common in Bretagne, less frequent in Aquitaine
- **Control interventions (CABI, CDR EEE France)**
 - Manual removal during several years



FCBN, 2016. Système d'information national flore. Données du réseau des CBN

***CORTADERIA SELLOANA* (PAMPAS GRASS)**

- **Overview (CABI, CDR EEE France)**
 - Poaceae, erect perennial, tussock grass
 - Native of South Africa
 - Panicles producing thousands of tiny wind-dispersed seeds, it forms dense and impenetrable stands
- **Statutes of IAS in the French coastal regions**
 - IAS in Bretagne, Pays de Loire, Poitou-Charente, Aquitaine
 - Present in Hauts-de-France but not considered as an IAS



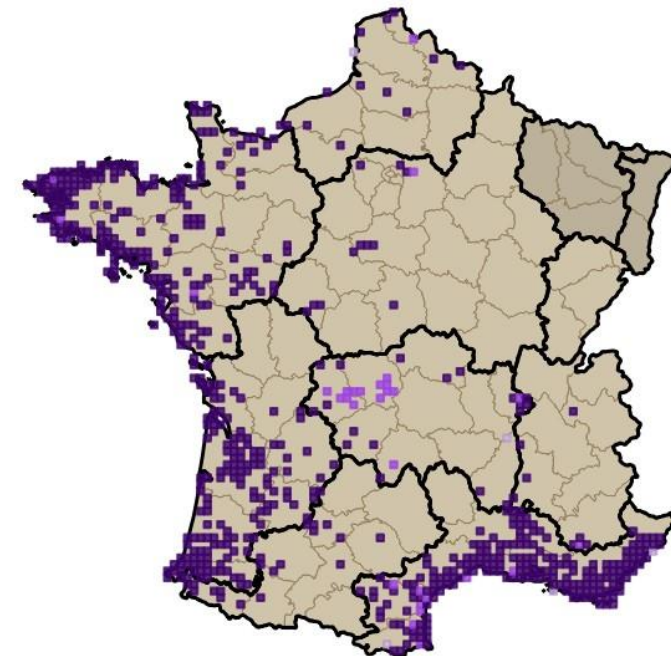
T. RIGAUX



B. TOUSSAINT

***CORTADERIA SELLOANA* (PAMPAS GRASS)**

- **Distribution area in the French coastal regions**
 - Frequent in all the French coastaline excepted in the north of Normandie and Hauts-de-France
- **Management interventions (CABI, CDR EEE France)**
 - Mowing or cutting stems to avoid the dispersion
 - Mowing and sheeting
 - Hand-pulling of smaller plants and seedlings
 - Mechanical removal



FCBN, 2016. Système d'information national flore. Données du réseau des CBN

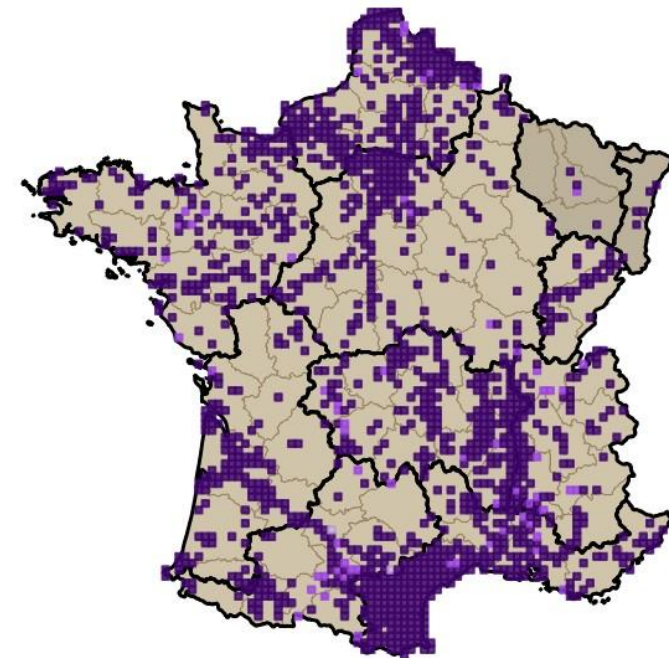
***SENECIO INAEQUIDENS* (SOUTH AFRICAN RAGWORT)**

- **Overview (CABI, CDR EEE France)**
 - Asteraceae, perennial herbaceous
 - Native of South Africa
 - Prolific achene producer, with a vigorous growth
 - But rarely forms dense stands
- **Statuses of IAS in the French coastal regions**
 - IAS in Hauts-de-France, Bretagne, Pays de la Loire, Aquitaine
 - Proven in Normandie



***SENECIO INAEQUIDENS* (SOUTH AFRICAN RAGWORT)**

- **Distribution area in the French coastal regions**
 - On the coastline, mainly in the north of France
- **Management interventions (CABI, CDR EEE France)**
 - Manual or mechanical grubbing up
 - Mowing



FCBN, 2016. Système d'information national flore. Données du réseau des CBN

A FEW OTHER SPECIES

- *Lycium barbarum*
 - Dunes and cliffs
 - Proven IAS in Hauts-de-France and potential IAS in Poitou-Charente and Aquitaine
- *Yucca gloriosa*
 - Absent in the north of France
 - Potential IAS in the southern half : Bretagne, Pays de la Loire, Poitou-Charente and Aquitaine
- *Centaurea aspera*
 - Native in south of France (so not an IAS)
 - But it forms dense stands in dunes near Dunkerque





THANK YOU FOR YOUR ATTENTION

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SUIVEZ-NOUS



POUR EN SAVOIR PLUS

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