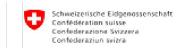




## Jean-Noël PANSERA **International Meuse Commission**







Bundesamt für Umwelt BAFU Office fédéral de l'environnement OFEV Ufficio federale dell'ambiente UFAM Uffizi federal d'ambient UFAM



# International Meuse Agreement 3 December 2002



International Meuse Commission (FR, BE, NL, LU, DE)

#### Article 2

#### **Objectives of the agreement**

"The Contracting Parties (...) shall, above all, cooperate (...) in consulting each other and then coordinating preventive and protective measures against floods (...) to reduce the impact of floods and droughts"

#### **Article 4**

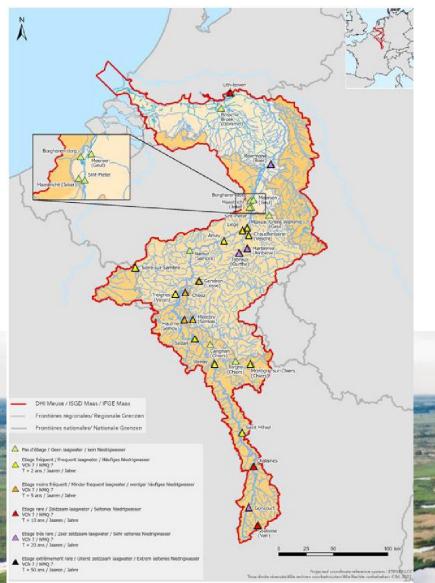
#### **Functions of the Commission**

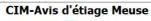
"Furthermore, the Commission shall have the following functions:

(...) the preparation of opinions or recommendations on the reduction of the impact of droughts, including preventive measures"



# Joint Low-water Notice Since 2015









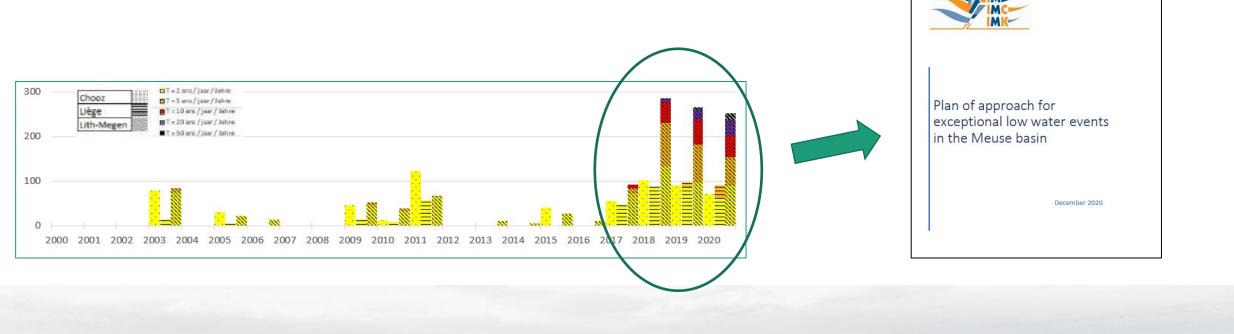


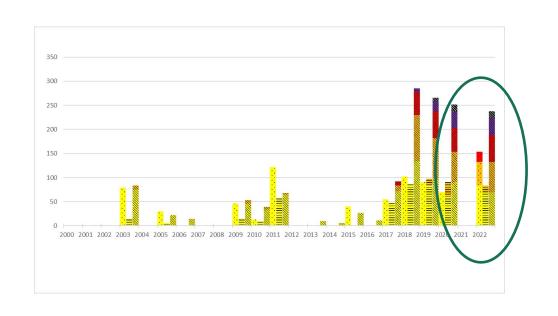
site

Station située en :	Rivière	Station hydrométrique de référence	Pas d'étiage	Etiage fréquent	Etiage moins fréquent	Etiage rare	Etiage très rare	Etiage extrêmement rare	semaine 28	semaine 29	semaine 30	semaine 31
			T < 2 ans	T = 2 ans	T = 5 ans	T = 10 ans	T = 20 ans	T = 50 ans	m3/s	m3/s	m3/s	m3/s
France	Meuse	Goncourt (52)	> 0,067	0,067	0,036	0,026	0,020	0,014	0,08	0,04	0,02	0,01
France	Vair	Soulosse (88)	> 0,365	0,365	0,264	0,223	0,194	0,166	0,39	0,21	0,22	0,22
France	Meuse	Chalaines (55)	> 1,52	1,52	1,03	0,838	0,707	0,584	1,36	0,96	0,77	0,63
France	Meuse	Saint Mihiel (55)	> 2,64	2,64	1,90	1,60	1,38	1,18	3,10	2,38	2,48	2,35
France	Meuse	Stenay (55)	> 7,86	7,86	5,71	4,83	4,21	3,60	9,42	7,83	6,14	5,99
France	Chiers	Montigny/ Chiers (54)	> 1,25	1,25	1,02	0,92	0,85	0,77	1,11	1,06	1,14	1,16



# Plan of approach for exceptional low-water events December 2020





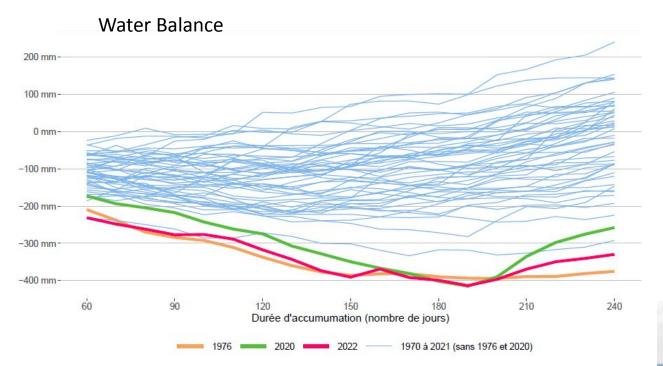


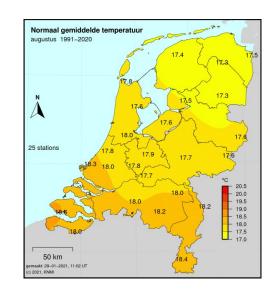
Locatie: Maas bij Borgharen

Foto: Ger Hermans (Provincie Limburg)



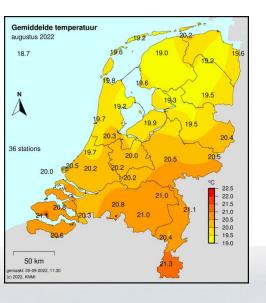
### Weather





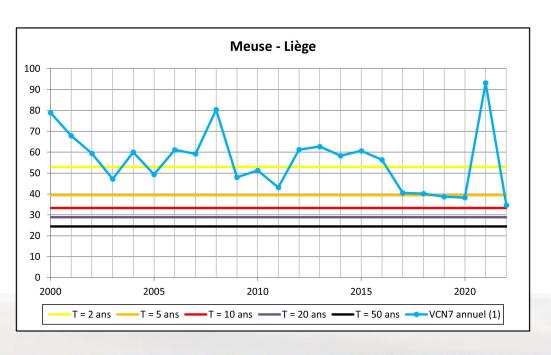
Average temperature in August 1991-2020



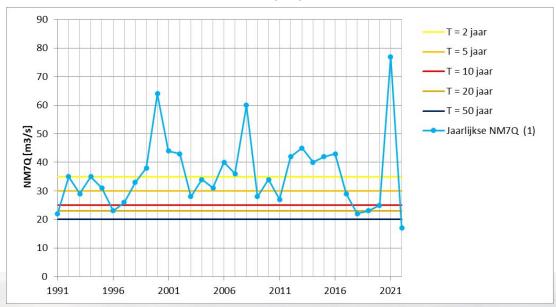




## **Hydrology**



#### Meuse – St Pieter (NL)

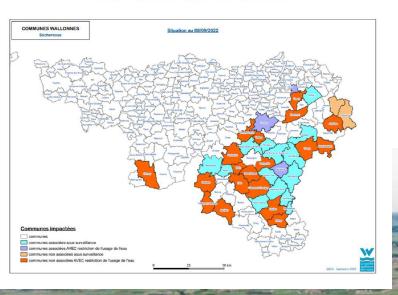




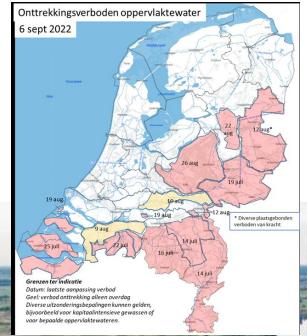
### Consequences

Restriction of consumption of water in Belgium and

Netherlands



Carte restrictions + surveillance communes



Navigation restrictions (grouping of vessels, waiting times, pumping at locks, etc.)



Photo: sudinfo.be

### Consequences

Prohibition of swimming (cyanobacteria), fishing or leisure activities (kayaking)



Ban on withdrawal of surface water and groundwater for irrigation



Photo: waterportaal.be

Fish mortality

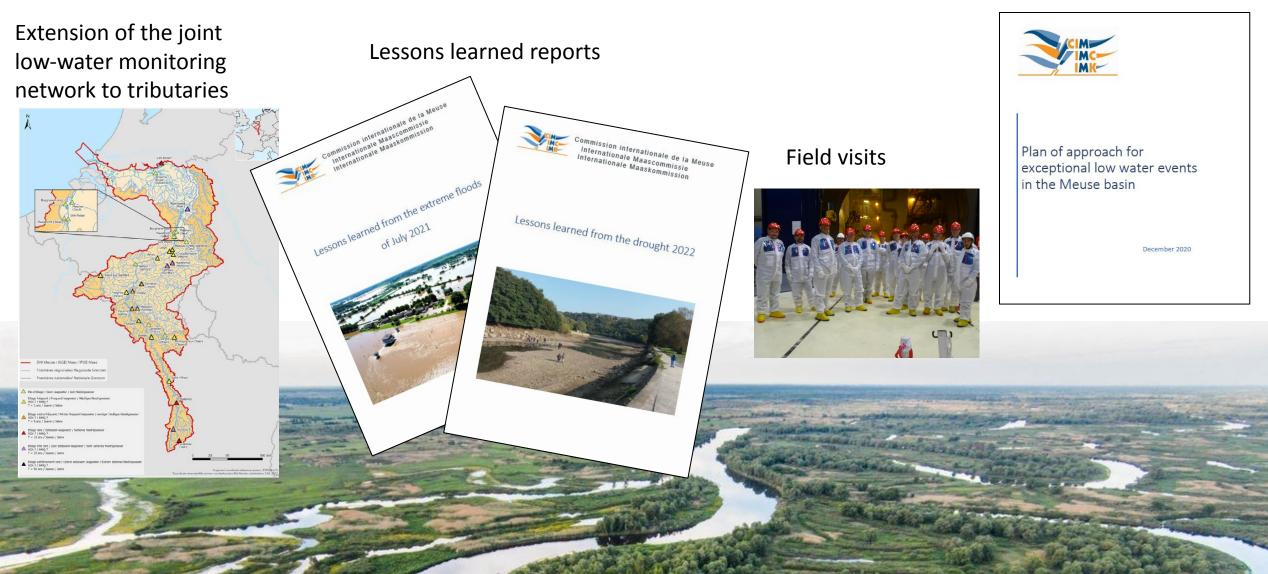


https://www.groen.be/droogte-vissterfte-2022



## **Challenges for the IMC**

Update of the plan of approach for exceptional low water events



# Thank you



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