

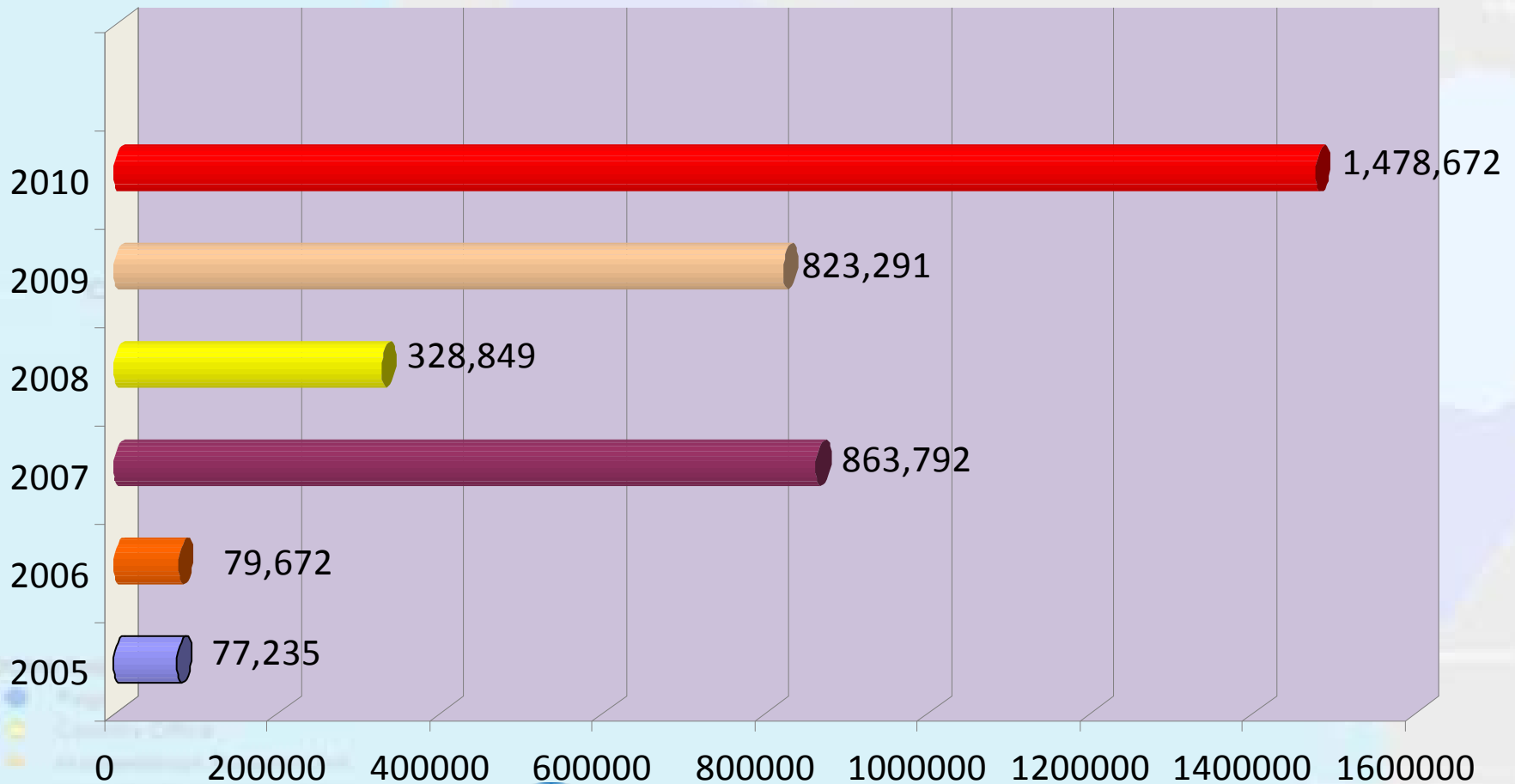
**Fourth United Nations International UN-SPIDER Bonn Workshop on
Disaster Management and Space Technology: «The 4C – Challenge:
Communication – Coordination – Cooperation – Capacity Development»**

OVERVIEW ON THE SITUATION OF FLOODS IN WEST AFRICA (2010): THE ROLE OF SPATIAL- INFORMATION MANAGEMENT

Bonn, Germany
12 – 14 October 2010

Context

Affected populations by floods in West Africa (2005-2010)



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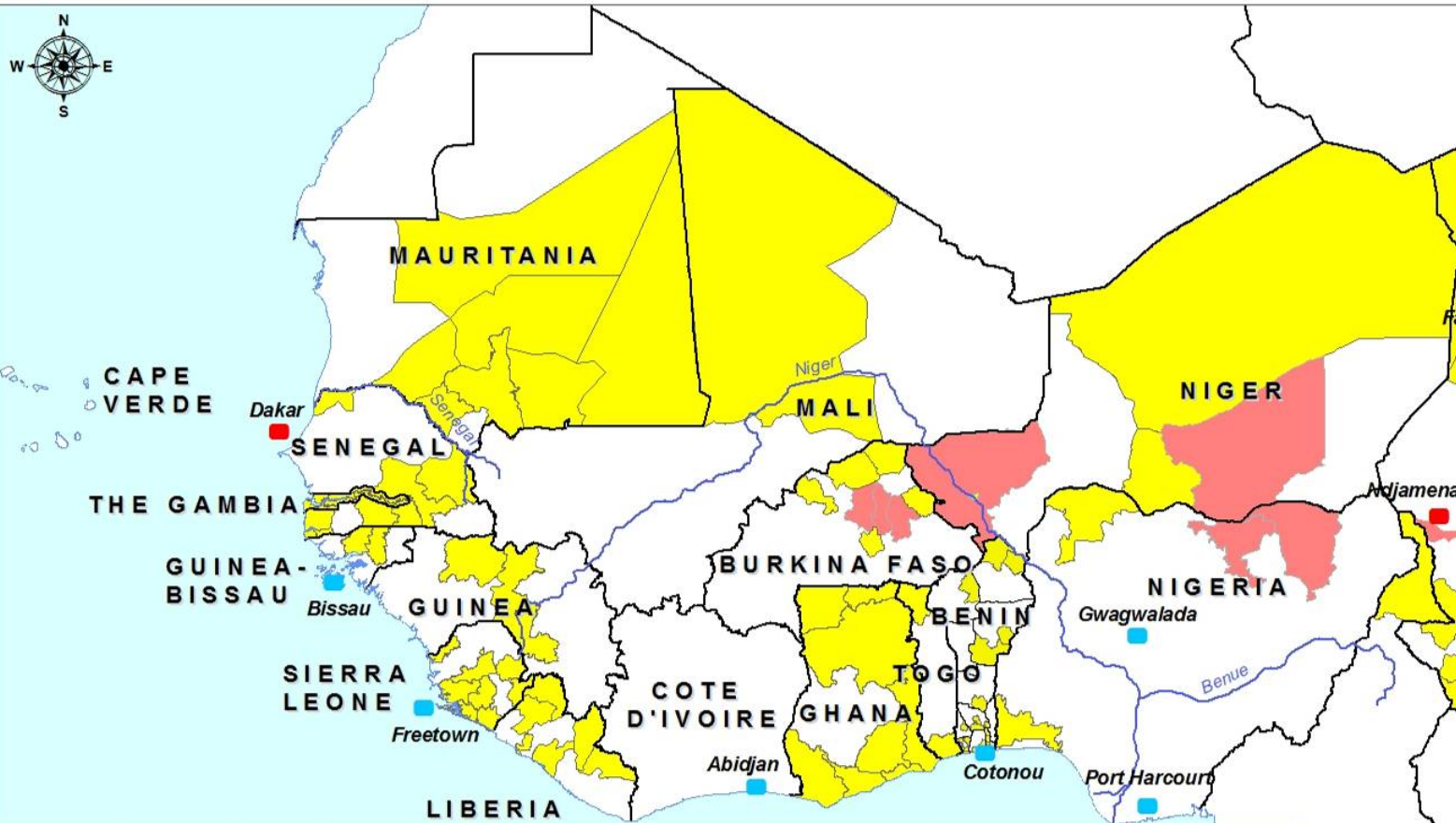
Sources : Data of 2005 – 2006 – 2008 (CRED) –
From 2007 to 2010 (OCHA)

Context

- Heavy rains between June and October
- Devastating floods in almost all countries of the region
- More than 1,450,000 people affected and 331 deaths
- Significant damages: ha of flooded farmlands, livestock decimated, houses, roads, bridges, hospitals, schoolsdestroyed
- Benin (More 300,000), Nigeria (300,000 IDPs et 112 Deaths), Niger (over 226,000 affected) and Burkina Faso (105,000) are the most affected countries

WEST AFRICA - Flood Impact Profile

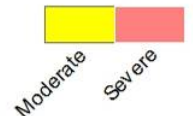
As of 05 October 2010



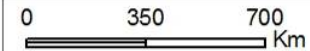
Flood Affected Towns

- Moderate
- Severe

Flood Affected Districts



Total affected people: 1,478,672
Total deaths: 331



Map Doc Name: OCHA_Floods/Map_Draft_v10_101010
Creation Date: 10 October 2010
Projection/Datum: GCS/WGS 1984
Web Resources: <http://ochaonline.un.org/rowca>
Nominal Scale at A4 paper size: 1:19 500 000

Map data sources:
Dev Info, DCW, Global Discovery, CONASUR/OCHA (Burkina Faso), ONPC (Cote d'Ivoire), NDMA (The Gambia), OCHA (Ghana), IFRC (Guinea Bissau), SENAH/CRG (Guinea), HCSO/UNMIL/NDRC (Liberia), DGPC (Mali), UNDP/Government (Mauritania), OCHA/CCI/SAP (Niger), NEMA (Nigeria), IFRC (Senegal, Cameroon), DMD (Sierra Leone), OCHA (Togo), AFR/Red Cross (CAR), GDCAS/OCHA (Sudan), CONASI (Chad)

Disclaimers:
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COUNTRY	Number of Affected Population	Number of Family	Number of Death	Damaged farm (ha)	Dead Livestock
Benin	641,137		86	86,126	
Burkina Faso	105,481	13,193	16		x
Côte d'Ivoire		1,285	10		
The Gambia	21,194	2,711	12	x	x
Ghana	35,038	6,933	52	832	
Guinea Bissau	8,466	7,099	2		
Guinea	41,000	8,200	7	74	
Mali	3,210			270	3,384

COUNTRY	Number of Affected Population	Number of Family	Number of Death	Damaged farm (ha)	Dead Livestock
Niger	226,611	31,191	3	5,393	76,898
Nigeria	300,000 IDPs		112	90,000	
Senegal	30,000		2		
Sierra Leone	234	39		x	x
Togo			3		
Liberia	15,486	1,344	1		x
Mauritania	50,815	10,163	21		

Benin: Impact profile

- Exceptional high intensity rainfall aggravated by the demonstration of exceptional floods of the rivers Niger, Ouémé and their tributaries
- 34 districts affected in 77 in Benin (So-Ava, Cotonou, Dangbo, Ouinhi, Bonou Zagnanado Sémé Podji and were the most affected)
- More than 300,000 affected people and 86 deaths
- More than 86,000 ha of farmlands were destroyed



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Nigeria: Impact profile

- NEMA (Nigerian Emergency Management Agency) reported that, following severe floods 300,000 people were displaced and 112 people died in Jigawa and Yobe.
- Also 90,000 ha of farmlands were destroyed. About 30 million US\$ of agricultural products has been washed out.

Impact profile in Niger

- Already facing a food and nutrition crisis, the Niger is also affected by the floods with 31,191 households or 226,611 people affected, 7,206 houses destroyed, 5,393 hectares of farmland damaged and 76 898 of cattle lost ...

Burkina: Impact profile

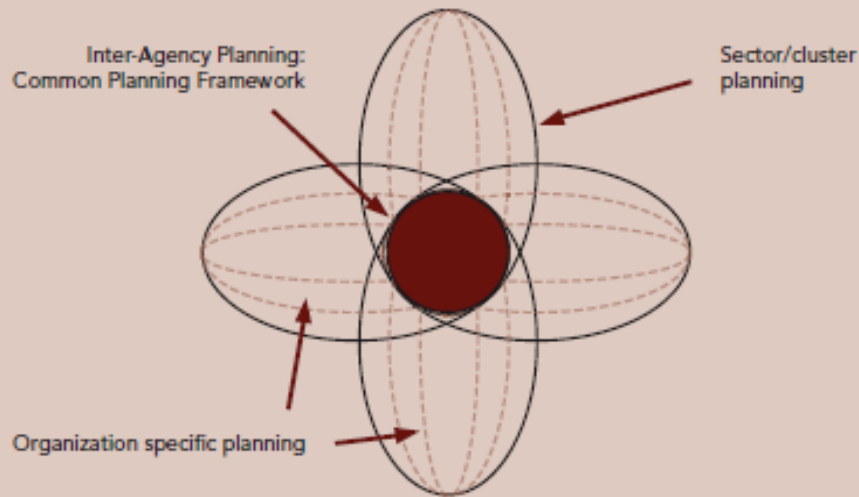
- Two consecutive years (2009 and 2010)
- More than 105,000 people were affected and 16 deaths
- Although this figure is below the record of 2009 (150,000), floods have however a much wider spatial distribution (Eight provinces in five regions: Namentenga, Sanmatenga, Gnagna, Soum, Seno, Oudalan Houet Ganzourgou)

Support in geo-spatial information and rapid mapping (Charter et SAFER)

- In 2009, the International Charter for obtaining satellite images and support in rapid mapping has been activated in Benin, Senegal, Burkina Faso, Niger and Mali
- In 2010, the SAFER (Application Service for Emergency Response), a mechanism limited to the European Space Agencies was the most activated (Burkina Faso, Niger and Senegal); Charter (Benin and Nigeria??)

Coordination mechanism for better information management

Box 1: Inter-agency Common Planning Framework



Working Groups :

- Food security and nutrition
- Emergency Preparedness and Response
- Health
- Protection
- and WASH

	Sector/Cluster	Leads
1	Agriculture	FAO
2	Camp Coordination and Camp Management	UNHCR and IOM
3	Early Recovery	UNDP
4	Education	UNICEF and Save the Children Alliance
5	Emergency Shelter	UNHCR (conflict IDPs) and IFRC (convenor disaster situations)
6	Emergency Telecommunications	OCHA
7	Food**	WFP
8	Health	WHO
9	Logistics	WFP
10	Nutrition	UNICEF
11	Protection	UNHCR
12	Refugees**	UNHCR
13	Water Sanitation Hygiene	UNICEF



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Coordination mechanism and communication channel to activate

SAFER or Charter

First Step

- Alert by the press, UN agencies, NGOs...
- Verification by the UN representative in the field (UNDP, OCHA...)
- Inter-action between UN agencies (UN-SPIDER, OCHA, WFP...), the Country focal point and the RSO to provide information and confirm the situation
- Request for SAFER and Charter activation: UN agencies (WFP, OCHA...)



Coordination mechanism and communication channel to activate SAFER or Charter

Second Step

- Request for SAFER or Charter activation: UN agencies (WFP, OCHA..., the national focal point) via UN Space Aid
- Inter-action between the project manager, the Space Agency which execute the project and the requesters
- First maps in 24 hours

Coordination mechanism and communication channel to activate SAFER or Charter

Third Step

- Maps and knowledge sharing with partners to support activities in the field
- Support to identify most affected areas and localities

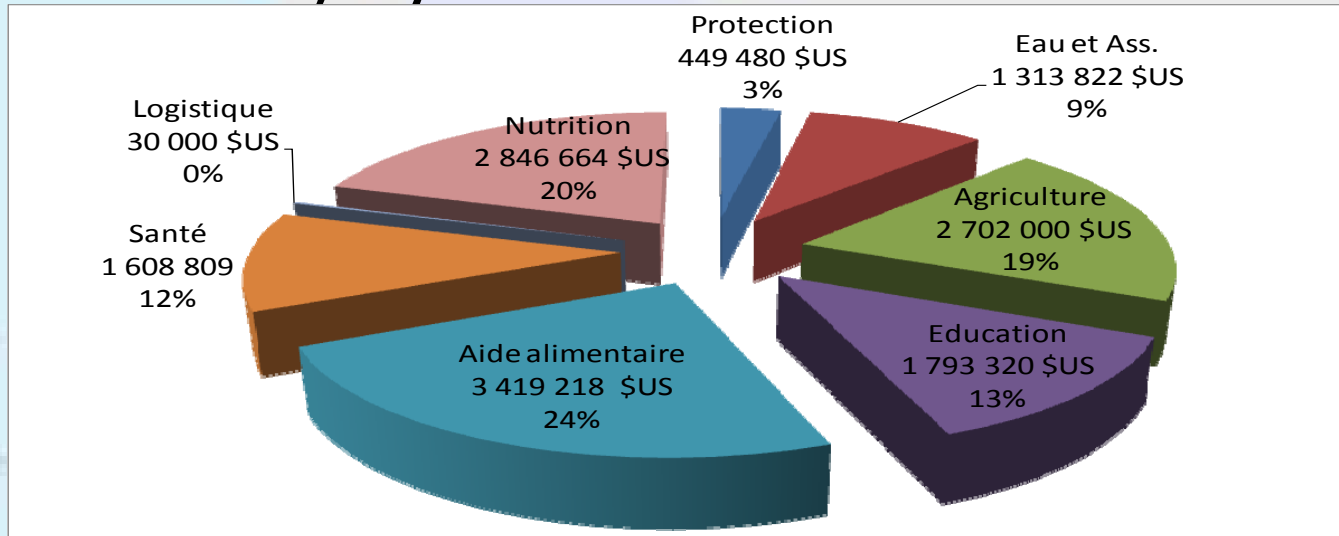
Niger: humanitarian response to floods

- More than 1,500 Metric tons of foods have been distributed by WFP, the govt and partners
- More than 49 millions XOF by WHO to support in pills Agadez, Niamey et Tillaberi
- FICR has given 115 millions XOF (232,115 USD) to support CRN efforts (Health and WASH)
- No food items: 8,500 moustiquaires, 60,239 couvertures, 125,100 morceaux de savon by UNICEF/CICR/CRN/Gouvernement and NGOs
- Etc.



Burkina: humanitarian response

- The response is estimated in 6.9 milliards FCFA (14 millions USD) by the humanitarian community



- An Emergency humanitarian Action Plan (EHAP) is elaborated with OCHA support
- Central Emergency Response Fund (CERF): 981 millions XOF (2 millions USD)

Nigeria and Benin: humanitarian response

- Nigeria: while governments provide emergency intervention, the federal government through the NEMA has sent an assessment team on the field that will soon produce a report and flash facilitating its implementation
- Benin: First aid began; Rapid evaluation missions in the departement of Borgou/Alibori, Zou/Collines, Ouémé/Plateau and Mono/Couffo; \$185 000 of UNDP for coordination activities; OCHA support elaboration of EHAP

