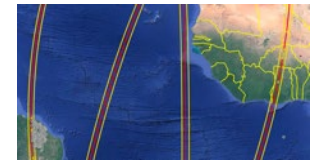




SWOT South America

A new site in semi-arid Nord Este (<-> Sahel)



CEARA : **des centaines de milliers de réservoirs** petits et grands !

-Enormes enjeux pour la ressource en eau – dans un **contexte aride**

Thèse de Rafael Reis (Funceme/IRD) :

-**Fonctionnement hydrologique** de ces **petits réservoirs/açudes**

-**Impact** sur les bassins et la ressource.

-> **base de données de la FUNCEME** (dont radar météo)

->EA team

NorEste sous l'orbite Cal/val de SWOT (1 jour revisite)

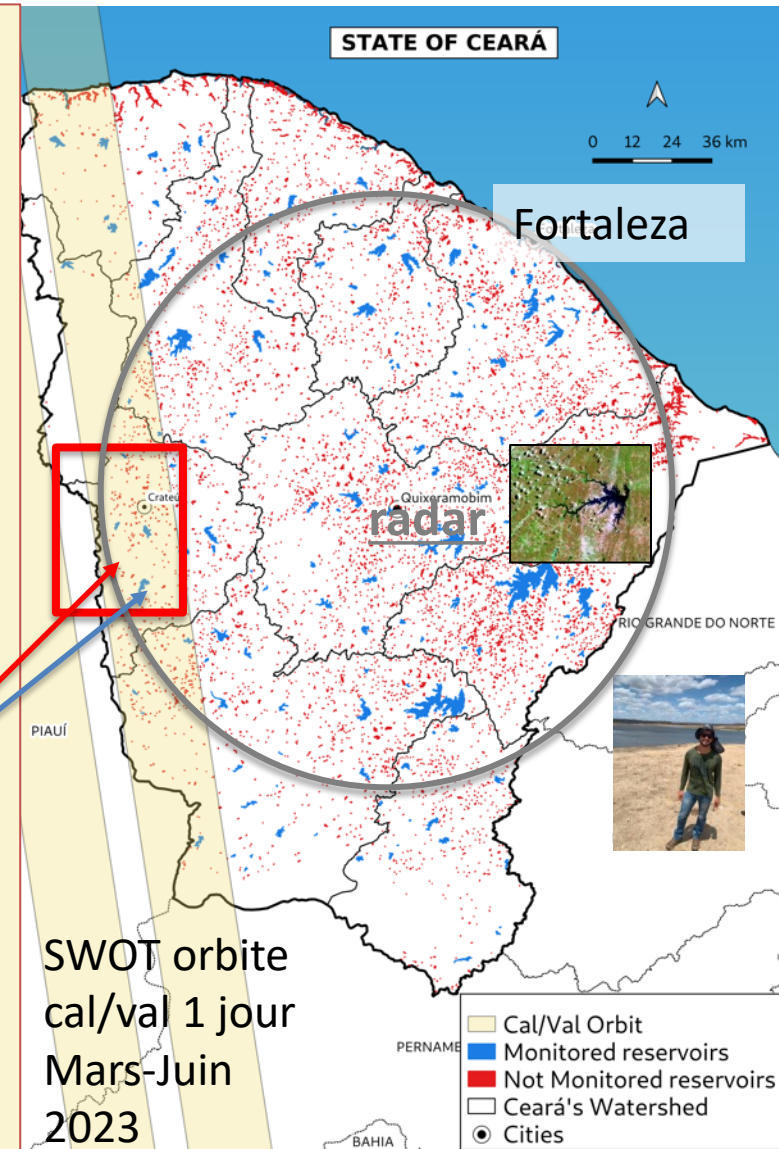
-> **Site officiel CAL/VAL –**

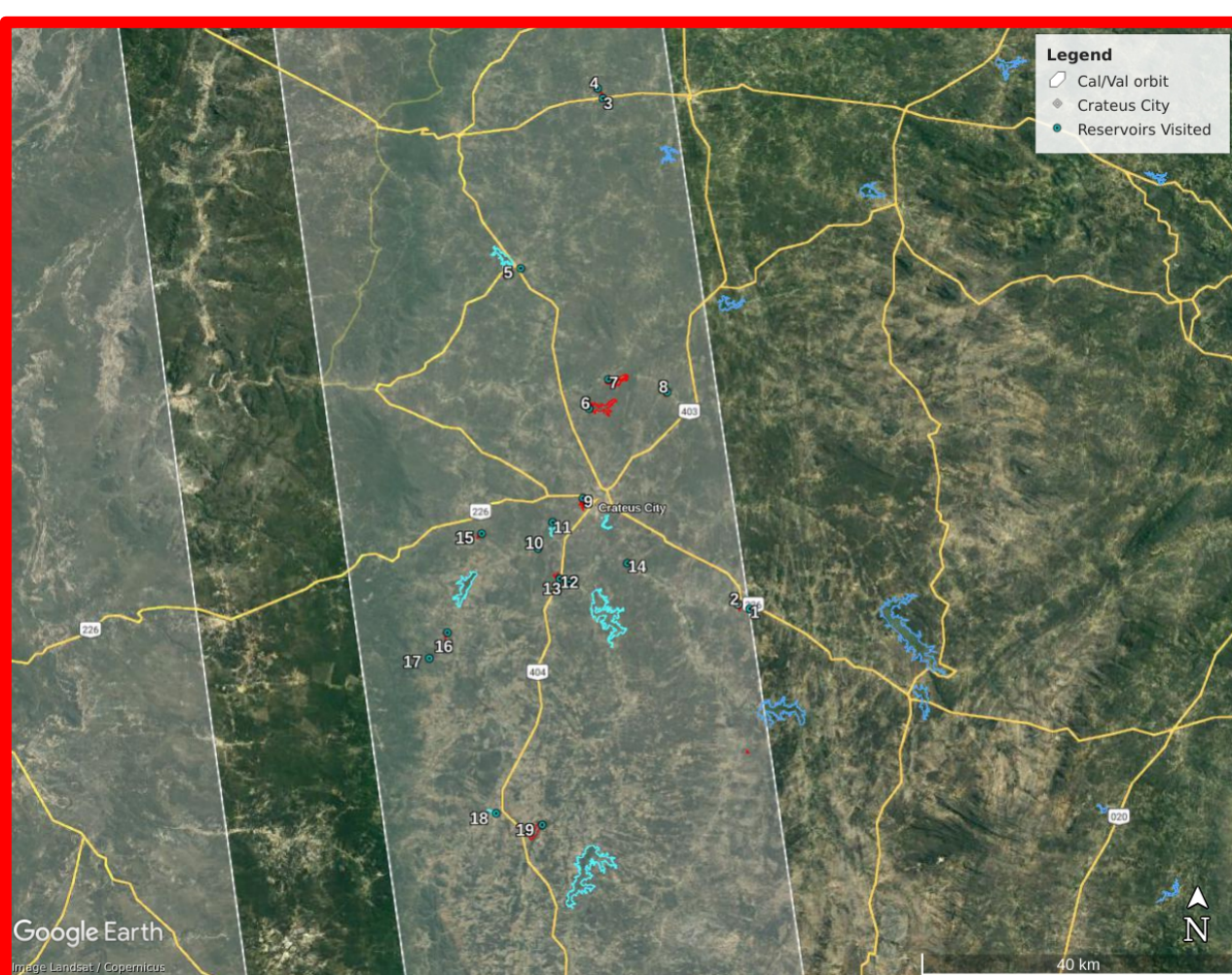
(CNES/IRD/FUNCEME/CPRM/COGERH/universités)

-Small reservoirs to be equipped

-State monitored reservoirs

Rainy Season – Mars-June - High water in june





**Pre –selection of 18
small reservoirs
Near Cratons city**

30 may to 02 june 2022

First field visit
(funceme/IRD)

Feasibility of in situ
gauge/limnigraph ?
Contact with communities

NEXT :

Aug 29 th – sept 9th

CNES/CPRM/HM

FUNCEME / IRD/ COGERH

- Absolute reference leveling
- Equipment of new small reservoirs

Sejam bem vindos !!!



Variety of : shape / size/ environment
Position within swath

	Not Monitored	ID	Day	Area_ha	Cal/Val	S2
1	Faz. Morro Velho	3034	1	7.6	0	
2	Marcel Prefeito	3063	1	390	1	
3	Aç. Violete	6340	2	14.2	1	
4	Ac. Cajazeira	6424	2	3.4	1	
5	Aç. Nilson	5788	2	6.8	1	
6	Aç. Riocho do Bolé	5337	2	250.0	1	
7	Aç. Palmares	4887	2	146.1	1	1
8	Mapagui	4567	2	12.0	1	
9	Aç. Governo	3910	3	33.0	1	
10	Aç. Grota	2888	3	2.9	1	
11	Mapagui	3421	3	65.1	1	0
12	Mapagui	2944	3	30.1	1	0
13	Mapagui	2746	3	3.8	1	0
14	Faz. Deserto	2818	3	5.7	1	0
15	Faz. Filomena	3357	3	20.8	1	0
16	Carrapateira	2456	3	23.4	1	1 0
17	Cid. Fantasma	2581	3	10.8	1	

18	Aç. I					
19	Aç. Var					

1) Fazenda Morro Velho (ID 3034)

The reservoir is out, but on the edge of Cal/Val orbit, and inside the Maja's processed tiles. The access is easy and the reservoir is close to the local homes with Wifi connection and people available for daily monitoring. Vegetation is dry and the soil is rocky. For rule installation is recommended concrete blocks or platforms. In reference to the next reservoir (2), is the first on the catchment.



2) Açude Marcel Prefeito (ID 3063)

The reservoir is inside the Cal/Val orbit and Maja's processed tiles. The access is easy and the reservoir is close to the local homes with Wifi connection and people available for daily monitoring. Vegetation is sparse and the soil is rocky. For rule installation is recommended concrete blocks platforms.

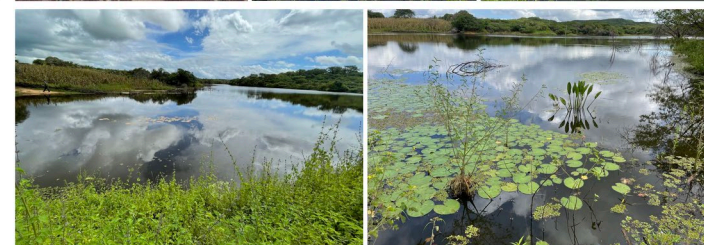


Not Monitored	ID	Day	Area_ha	Cal/Val	S2_Maja	Bathy	Fill	Volunt	Rules	Access	Macrop.	Total	SWOT	Surface
Marcel Prefeito	3063	1	390	1	1	0	1	1	1	1	1	1	7	x

16) Açude Carrapateira (ID 2456)



ID	Day	Area_ha	Cal/Val	S2_Maja
6340	2	14.2	1	1



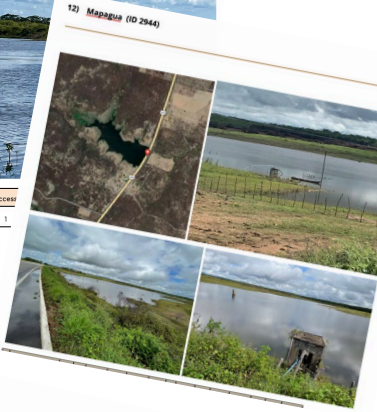
3) Açude Violete (ID 6340)

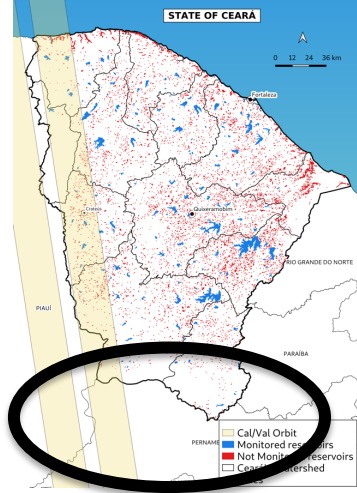


Not Monitored	ID	Day	Area_ha	Cal/Val	S2_Maja	Bathy	Fill	Volunt	Rules	Access
Aç. Nilson	5788	2	6.8	1		0	1	1	1	1



12) Mapagui (ID 2844)





Reservoirs in Pernambuco within the 1-day SWOT orbit

**Alfredo Ribero Neto
(UFPE)**

Reservoir	Volume (10 ⁶ m ³)	Area (ha)	Bathymetry	GDH
Cacimba	1.73	41.33	No	Yes
Barriguda	1.62	43.18	No	Yes
Pau Branco	3.00	71.84	LiDAR	Yes
Araripina	3.7	75.48	LiDAR	Yes
Lagoa do Barro	22.95	575.00	No	Yes
Engenheiro Camacho	27.66	639.10	LiDAR	Yes
Terra Nova	1.22	57.80	LiDAR	No
Vira Beiju	11.80	680.70	LiDAR	No
Barra da Melancia	1.37	44.39	LiDAR	No
Saco II	123.52	2022.0	No	No
Varzinha	1.13	31.10	No	No
Algodões	58.48	1157.49	LiDAR	No

