



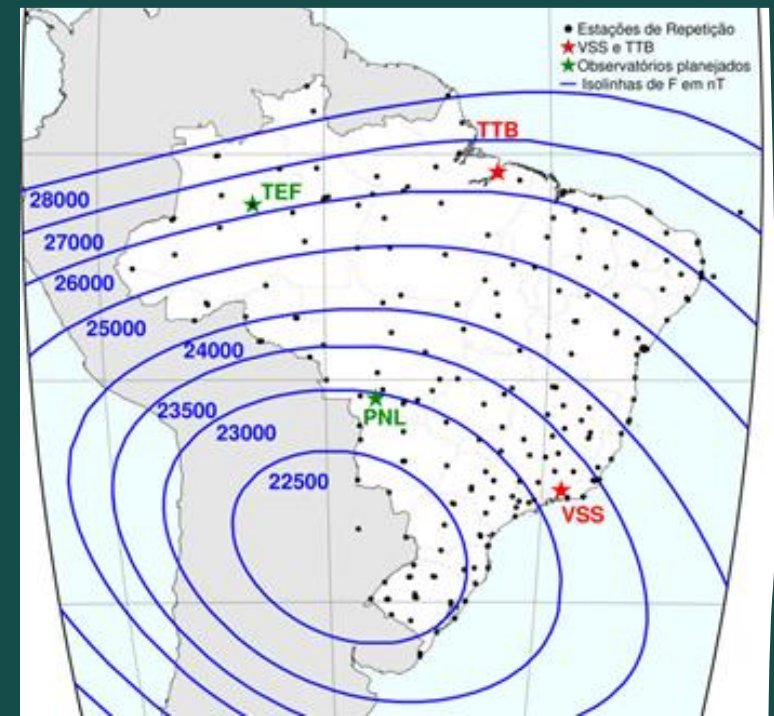
AREA: ADVOCACY FOR THE ARCHIVE AND ARCHIVE PROCESSES WITHIN THE ORGANIZATIONS

TITLE: FIGHT AND ADVOCACY FOR THE PRESERVATION OF THE ARCHIVE OF THE MAGNETIC OBSERVATORY OF TATUOCA IN THE BRAZILIAN AMAZON: LESSONS, RESTRAINTS, AND OBSTACLES.

Symposium on Scientific Archives

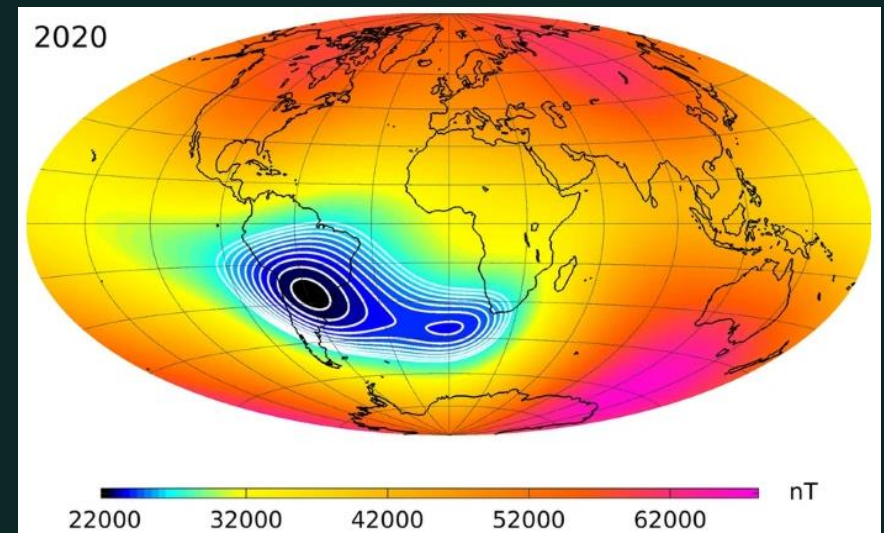
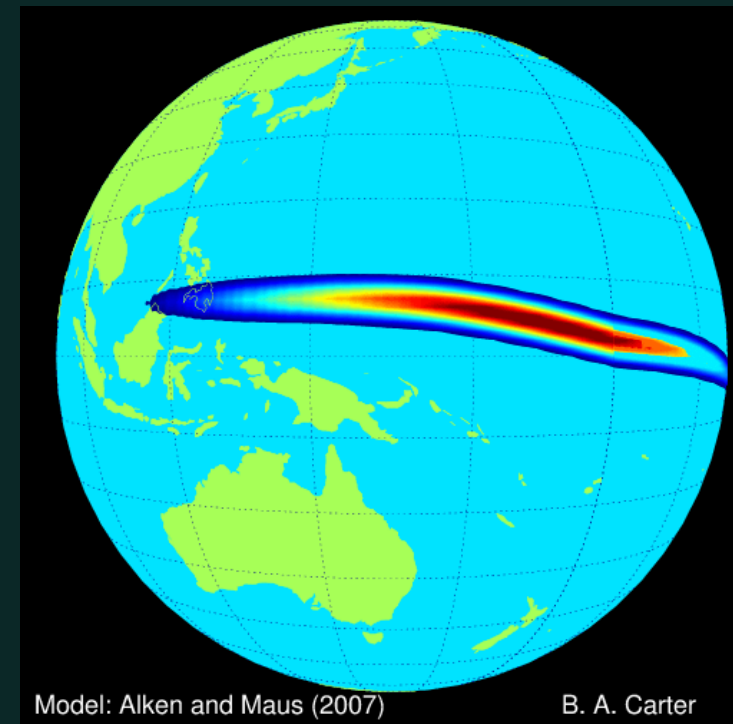
The Magnetic Observatory of Tatuoca (TTB)

- Since 1932 has been a privileged spot to observe geomagnetic phenomena.
- In 1957 a permanent observatory was built by Brazil, with the aid of the Polar Year Conference.
- The National Observatory (ON) from Brazil controls this installations, with the aid of the Institute of Geophysics (IG) of the Federal University of Pará (UFPA).



What is special about Tatuoca?

- 1. Observatories at the equator are scarce due to economic and scientific restrictions of the countries located on that area.
- 2. The observatory is located under the Equatorial Electrojet.
- 3. The observatory is on the way of the displacement of the South Atlantic Magnetic Anomaly.



The scientific archive of Tatuoca

- Between 1957 and 2007 the Observatory produced approximately 32,000 documents, divided into MAGNETOGRAMS, and ABSOLUTE RECORDS.
- In 2017 IG called for help to rescue this material as it was abandoned at Museu Goeldi in Belem City.



The documents

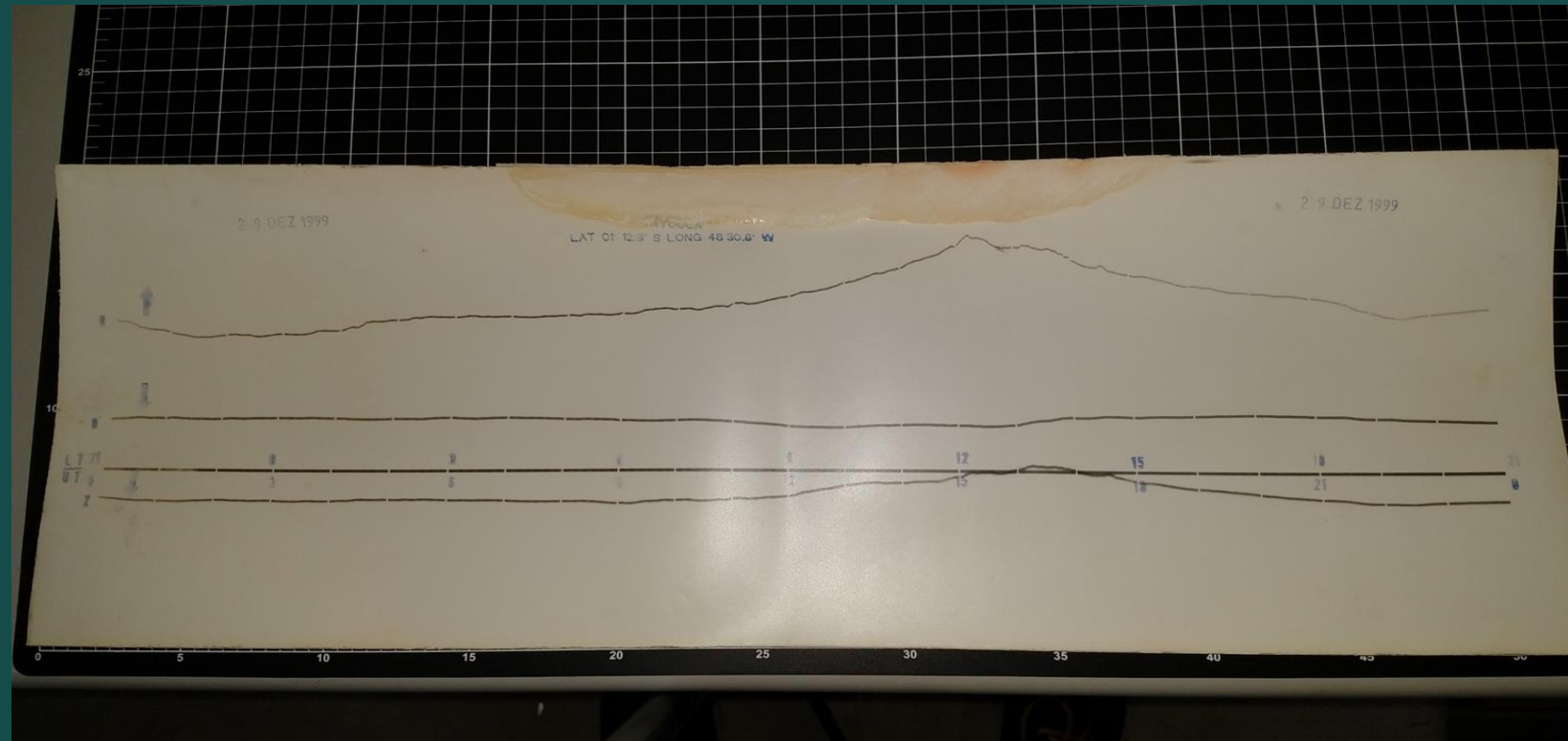
- Main documents are MAGNETOGRAMS 52 x 25 cm (A2) and diaries of ABSOLUTER RECORDS organized in books.

PMJ - 196

D-DECLINAÇÃO MAGNÉTICA COM MAGNETÔMETRO CONJUNTO Nº 011

ESTACÃO Salvador DE 50 LAT. 12° 3' S LONG. 48° 30' W
 DATA 12 DE dez DE 1999 OBSERVADOR PMJ
 MAGNETÔMETRO 214197 MIRA 72 95 MIRA A
 CRONÔMETRO _____ ESTADO _____ MARCHA _____

ÍMÃ	LEITURAS DE ESCALA			LEITURAS DO CÍRCULO					
	ESQUERDA	DIREITA	MÉDIA	MIRA		ÍM.			
DIRETO				ANTES	A	144.547	56.40.8		
				B	54.3	40.3			
INVERSO				DEPOIS	A	69.7			
				B	54.3				
				MÉDIAS		144.54.7	56.40.8		
			SOMA						
			MÉDIA						
			CENTRO DE ESCALA						
			REDUÇÃO AO CENTRO DE ESCALA						
			VALOR DE ESCALA						
			CORREÇÃO DE ESCALA						
			HORA						
			INÍCIO						
			FIM						
			LINHA DE TORÇÃO						
			CALCULADOR						
			CONFERENTE						
			VISTO						



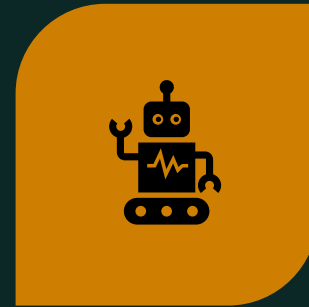
Levels of the project



PHYSICAL RESCUE OF THE
ARCHIVE AND CURATION



DIGITIZATION



DATA EXTRACTION APPLYING
ARTIFICIAL INTELLIGENCE
(INTERPARES)

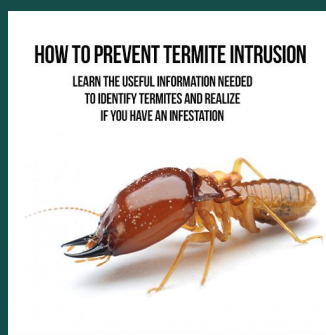


CREATION OF A MUSEUM
COLLECTION

Restraints and obstacles

1. Physical rescue of the archive and curation

- Number of effective collaborators
- Unexpected pandemics
- Box design and materials
- Mind the termites!



Formação	
Arquivologia	15
Administração	1
Biblioteconomia	3
Ciência da Informação	2
História	1
Matemática	1
Museologia	3
Letras	1
Total:	27

Restraints and obstacles

1. Physical rescue of the archive and curation

- Mind the termites!

HOW TO PREVENT TERMITE INFESTATION

LEARN THE USEFUL INFORMATION NEEDED
TO IDENTIFY TERMITES AND REALIZE
IF YOU HAVE AN INFESTATION



Restraints and obstacles

2. Digitization

- Technical knowledge and experience
- Resources for equipment acquisition
- Access to reliable suppliers
- Costs of transport and importing
- Access and cost of maintenance



HOW TO PREVENT TERMITE INTRUSION

LEARN THE USEFUL INFORMATION NEEDED
TO IDENTIFY TERMITES AND REALIZE
IF YOU HAVE AN INFESTATION

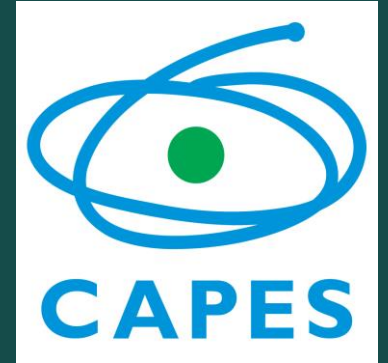


Restraints and obstacles

3. Data extraction applying artificial intelligence (InterPARES)

- Technical knowledge and experience
- Resources for equipment acquisition

InterPARES
Trust AI



International Council on Archives
Conseil International des Archives

Restraints and obstacles

4. Creation of a museum collection

- Political support from ON, UFPA & Goeldi
- Securing sponsors
- Technical knowledge and experience
- And ?



Lessons

1. Archives are a long-term challenges, even the smallest
2. Keep upgrading your technical, technological and social skills
3. Look everywhere relentlessly for economic resources. Currency counts.
4. Maintain a permanent local and global networking activity
5. Look for good partners and wise friends
6. Historical scientific archives contain a little big-data of information, for long tail natural phenomena
7. Be patient and persistent



Many Thanks!

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