

IN NANGRO ACEH DARUSSALAM INDONESIA

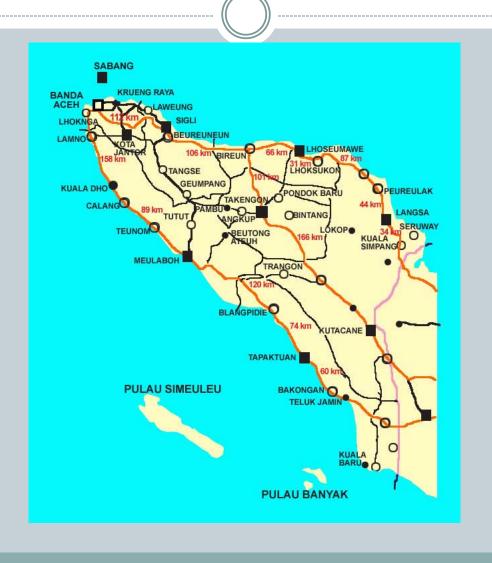
EARTHQUAKE AND TSUNAMI DISASTER IN ACEH

In the Indian Ocean tsunami of 26 December 2004, coastal Aceh was the worst hit, being closest to the quake's epicentre. Aceh suffered massive losses in terms of life and property, infrastructure and natural environment. Entire settlements were swept away, and a large part of the capital Banda Aceh was destroyed.

MAP OF INDONESIA



Map of Nangro Aceh Darussalam



Infrastructure and Environment Damages





Heritage Damages



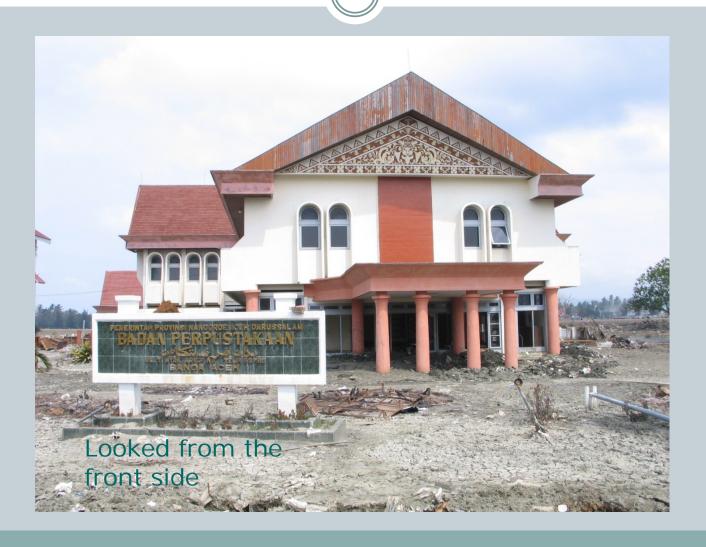
Before



Library Damages Including

- Man Power
- Building
- Collection
- Equipment
- Mobile Libraries

Public Library





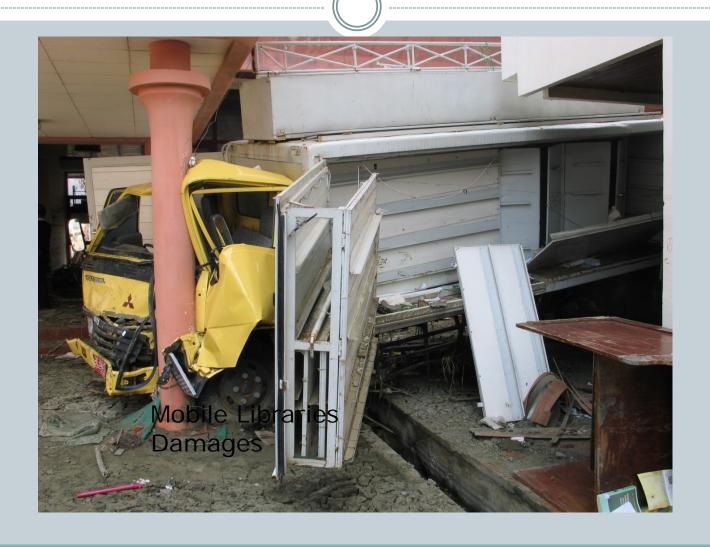
Public Library Damages

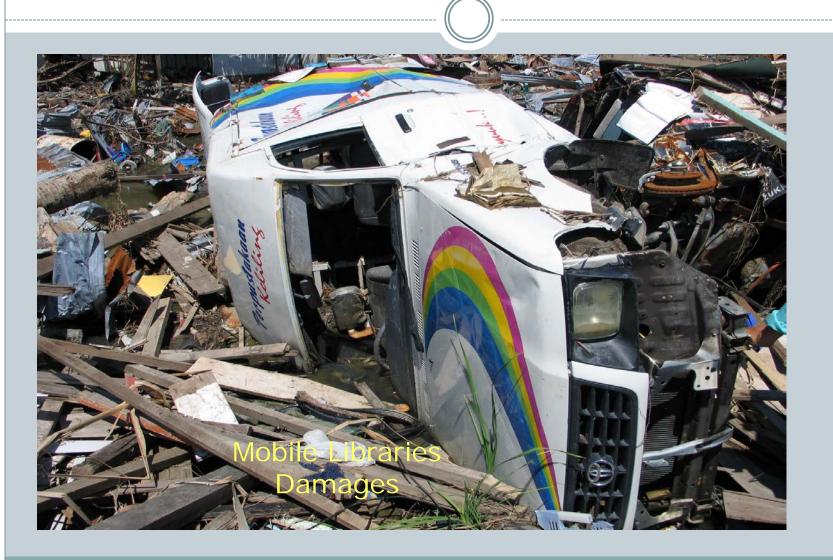




Inside the Library

Public Library Damages





Ali Hasyimi Library collects rare book and manuscript





The library wasn't destroyed by tsunami but when the earthquake came the books felt down on the wet floor and became wet, the librarian spread out the books in the sun to dry.

Rare books and Manuscript Collections Damages





Their manuscript collection is now became more important as source of Aceh history, because Aceh Documentation and Information Center which is collect large of Aceh manuscript totally damaged

SCHOOL LIBRARY DAMAGES: Buildings









The librarian Spread Out the Books in The Sun to Dry, they don't know what should they do on the wet books

Problem and Solution

Problem	Solution
Lack of Librarians	Staff RecruitmentHold LibraryTechnical TrainingProgram
Lack of Knowledge How to Handle Library Materials after Disaster	Hold Disaster Preparedness Training Program

Problem and Solution **Library Building** Reconstructions **Damages Library Equipment Purchasing Damages**

Problem	Solution
Mobile Libraries Damages	Purchasing
Books Damages	Purchasing
Manuscripts Damages	 Conserving Searching for compiling local manuscripts title and Media Transforming

Type of Support	Supporter
Book collections and Equipments	-National Library of Australia
	-Goethe Institute Jakarta
	-National Library of Indonesia
Mobile Library	- National Library of Indonesia
Buildings	-German government -Sampoerna (private body)

Conserving Land - JICA (Japan International Cooperation certificate Agency -National Archive -National Library of Indonesia Searching and -National Archive Conserving Banda Aceh -Indonesian Islamic Manuscript University -Nusantara Manuscript Society -National Library of Indonesia

Searching Manuscript

- Search Aceh Manuscript in Tanoh Abee.
- Tanoh Abee is Pesantren, a place that educate people to boarder their knowledge of Islam.
- It was built in 1625 by Al Farusy Al Bagdadi

Tanoh Abee Ancient Library

• The library collects 6000 manuscripts, originally 100.000 manuscripts. They lost most of their collection because they can maintain the collection properly



The Manuscript Condition

- Holed and torn by insect
- Dirt by fungus
- Brittle caused of climate





The Manuscript Collection will be

- Fumigated
- Conserved
- Digital Preserved

Important Archive Rescuing

Land certificate
 Nasional
 (National Land
 Agency)

Kept by Badan Pertanahan



Importance of Land Certificate should be Rescued

- as evidence of land ownership
- most of tsunami victim lost their land certificate
- after tsunami disaster the land border changed extremely.

Form of Important Archive

Sheet





Binding





The Document Damages



- Dirt
- Wet
- Fungus
- Torn

Steps to Rescue the Document

- Evacuating the documents from disaster area
- Transporting the documents to the save place
- Cleaning the documents from mud
- Dip drying the documents in ethanol 70%
- Drying the documents (sheet)
- Wrapping the document in silicon paper
- Packaging the document (binding) in boxes
- Keeping the documents in to Cold Storage -30° C
- Moving the binding documents in to vacuum chamber to make them dry
- Transform the documents in digital
- Building the data base

Evacuating the Documents





DISASTER AREA

The Document to be transported from Disaster Area





Transporting to a Save Place





Keeping in A Strorage





leming

- Dry Cleaning:Clean the dirt at the cover and the edges using a brush
- Wet Cleaning: Soak the archives in the water, brush the wet paper to remove the dirt inside the cover

Dip Drying the Documents in Ethanol



Dip drying the document in ethanol 70%

to keep the document wet and eliminate the spreading of fungus. Covering the documents with plastic sheet to keep the document stay wet until drying step.



The Room Temperature and Humidity



Document Drying

Done by drying tool, natural and mass drying

The Document Drying (individually)

- Using Dryer Tool
- It takes a day per person to dry a bound document



The Sheet Document Drying



 Dry in the room temperature (Natural Drying)

Mass Drying

- Problem
- _ There was no vacuum chamber
- It takes 5 months to get vacuum chamber from overseas
- The document getting dry day by day
- There was no cold storage in Banda Aceh to keep the document stay wet in 5 months

- Solution
 - Purchase the vacuum chamber
 - The documents to be transported to Jakarta to keep in cold storage

Document Packaging

 Wrapping the documents with silicon paper and package them in boxes before they are transported to Jakarta







 Moving the documents from Banda Aceh to Jakarta by Airplane

Moving the Documents from Airport to cold storage, 20 miles distance



Moving the Documents from the Truck





Moving the Document to Cold Storage





- The storage temperature is
- -30 ° C
- The document kept in a cool storage until the vacuum chamber arrive from Japan.

The Recommendation

Num	Activities	Time
1	Books and Library Equipment Purchasing	2005-2006
2	Library and Disaster Training Program	2005
3	Library Buildings Reconstruction	2005-2008

4	Mobile Library Purchasing	2005-2006
5	Land Sertificate Rescuing: Conservation, Digital Preservation, Data BaseBuilding	2005-2006
6	Searching, Conserving and Media Transforming Aceh Manuscript	2005-2007

The Progress

Num	Activities	Explainations
1	Books and Library Equipment Purchasing	Done 2005 to 2009
2	Library and Disaster Training Program	Done 2006 to 2009
3	Library Buildings Reconstruction	Done 2005 to 2008

Nunber	Activities			
4	Mobile Library Purchasing	Done 2007		
5	Land Sertificate Rescuing: Conservation, Digital Preservation, Data BaseBuilding	Done 2005 to 2010		
6	Searching, Conserving and Media Transforming Aceh Manuscript	Done 2005 to now		

Library and Disaster Training Program







Library Buildings Reconstruction





before

after

Mobile Library Purchasing





At the time of the incident



The Handover of Land Titles



The damage document



