



# **EXPLORING THE PROSPECTIVE OF GUNUNGSEWU AREA INDONESIA, FOR A WORLD GEOPARK**

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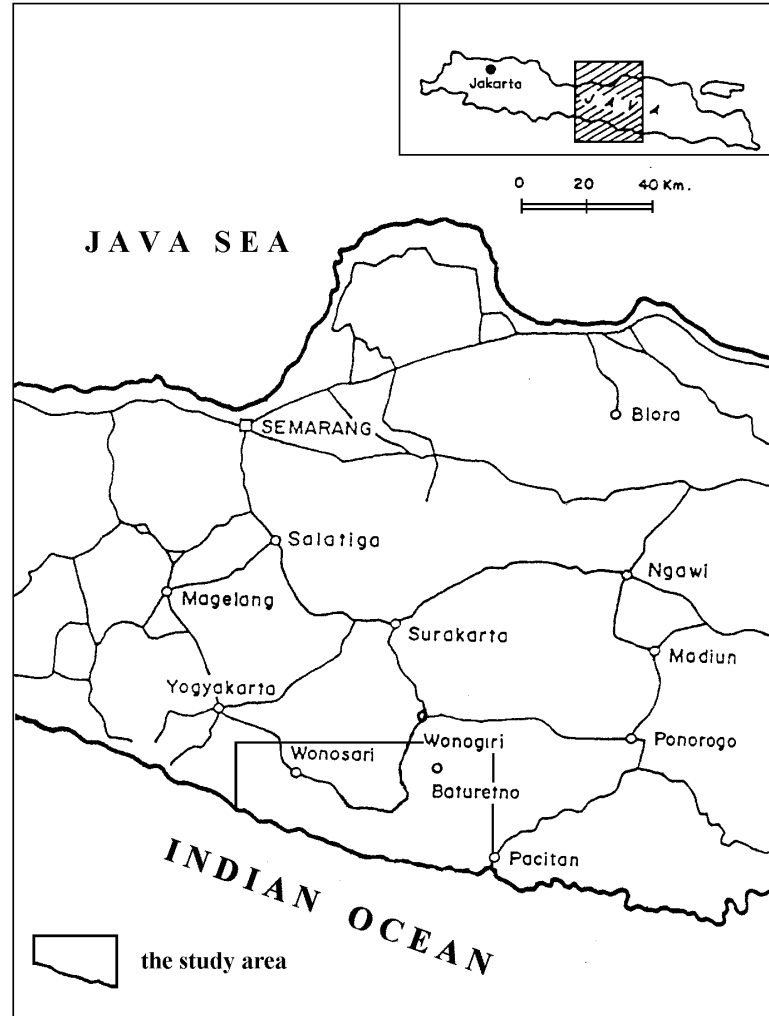


# INTRODUCTION

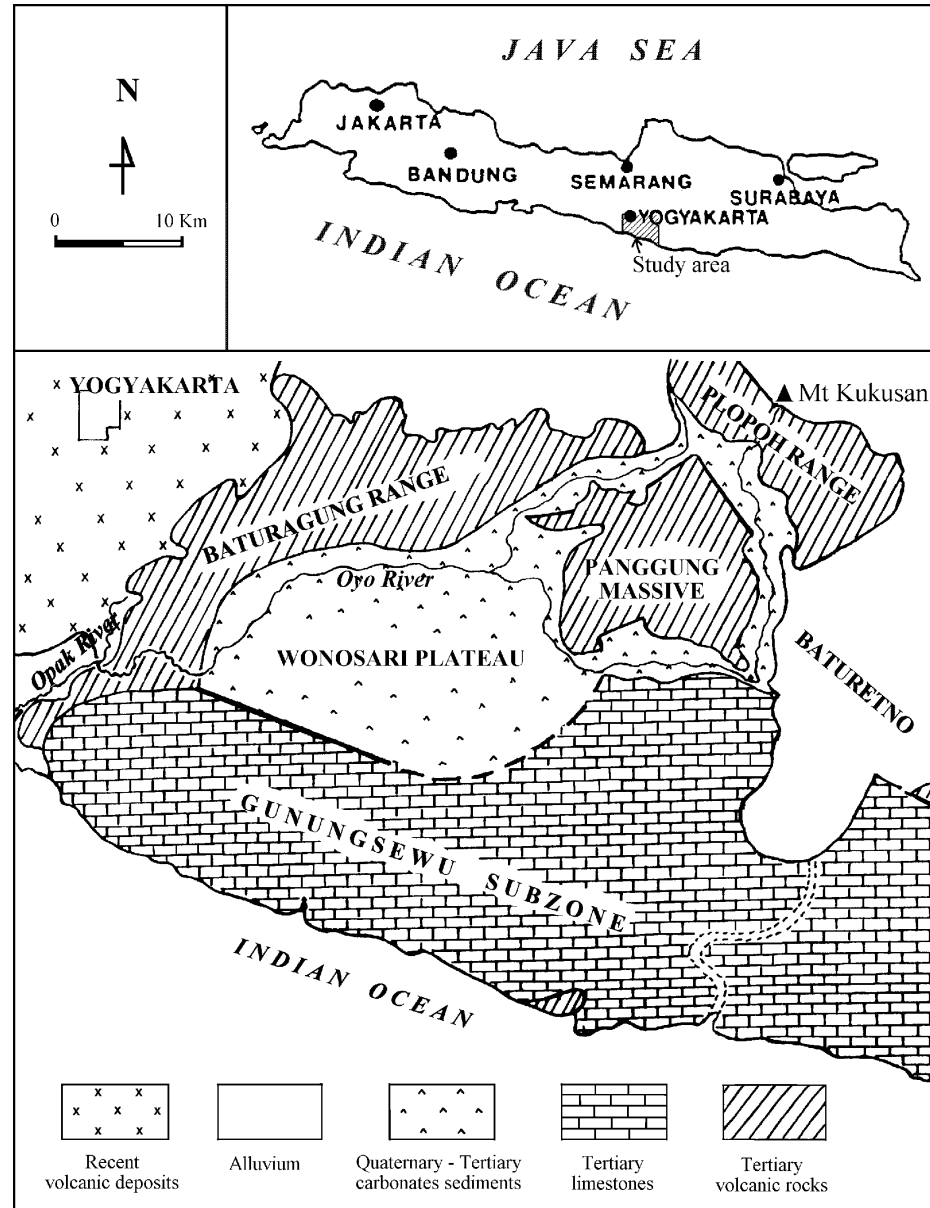
- Gunungsewu is a Tropical karst terrain, a part of the Southern Mountains of East Java, Indonesia,
- Administratively belongs to Gunungkidul Regency Yogyakarta Special Province and Pacitan Regency of East Java.
- It is geographically situated between  $6^{\circ} 10'$  to  $6^{\circ} 30'$  N latitude and  $99^{\circ} 35'$  to  $100^{\circ}$  E longitude, about 25 km SE of the Yogyakarta city, approximately 109 km NNW from the Pacitan town, and only less than 20km SW from the Wonogiri town.
- The area of Gunungsewu is around  $800 \text{ km}^2$ , already established as one of Yogyakarta tourism destination, easily accessible
- This study is to explore the potential and prospective of Gunungsewu area as one of world geopark.



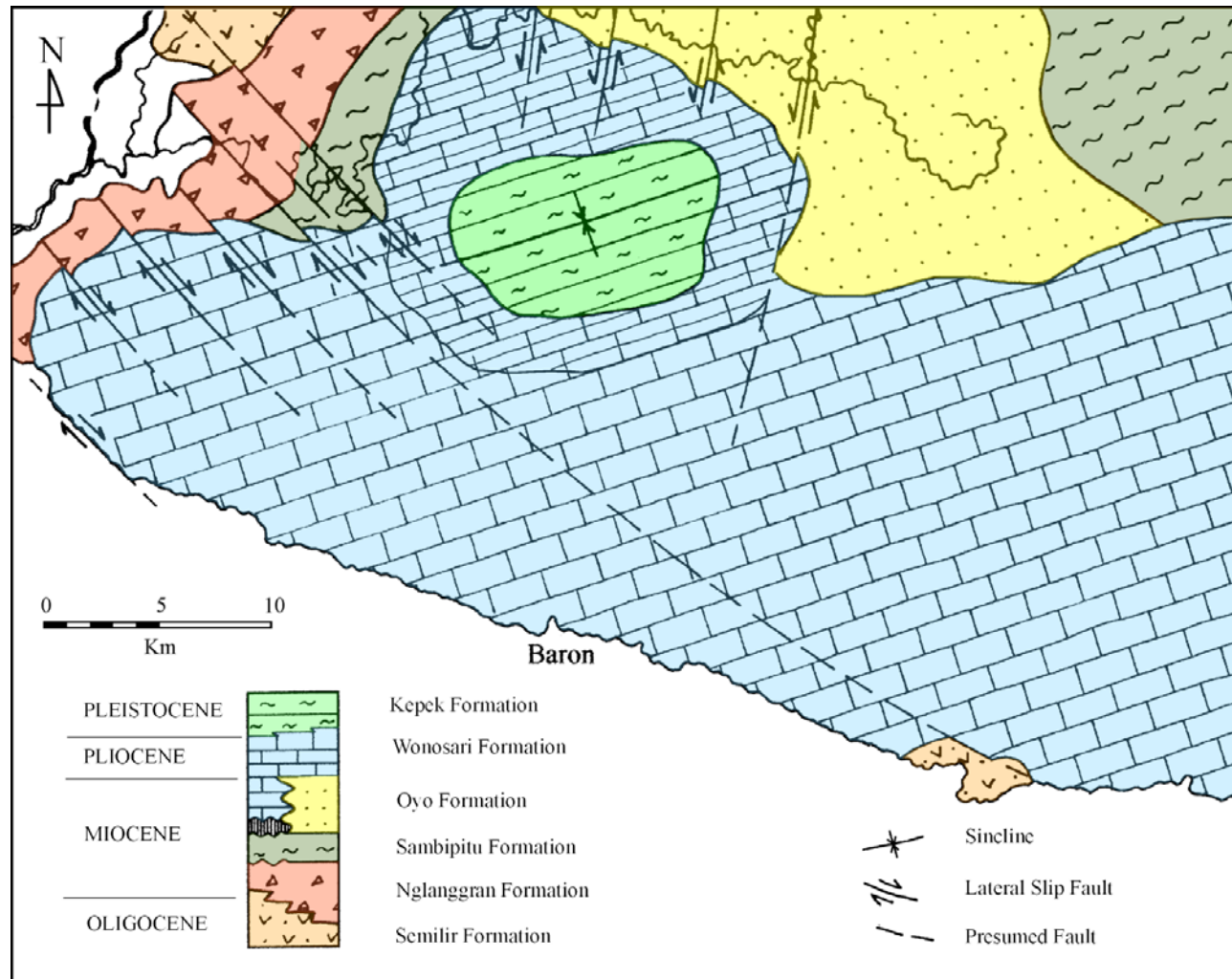
# LOCATION



# PHYSIOGRAPHY



# GEOLOGIC MAP (KUSUMAYUDHA, 2000)



# ROCK DIVERSITY



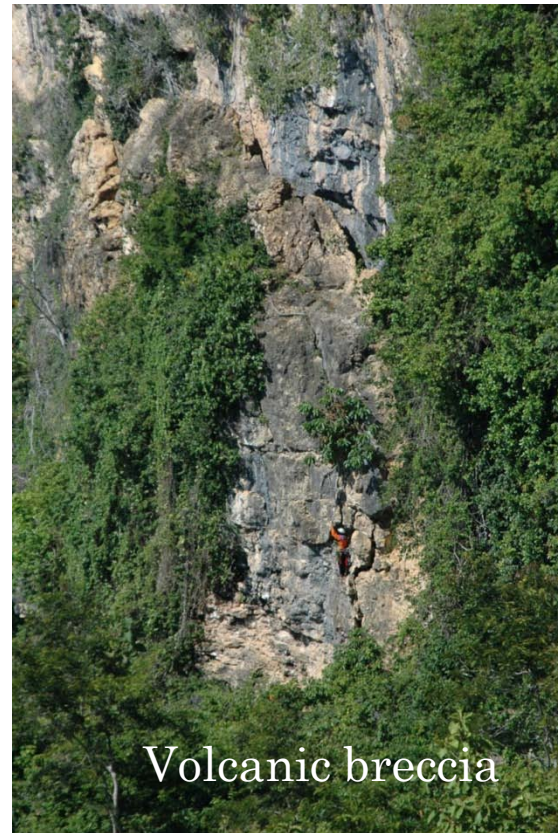
Bedded limestone



Chalky limestone



Cavernous boundstone



Volcanic breccia



# STRUCTURE DIVERSITY



Conduits controlled by joints





# GEOMORPHOLOGIC DIVERSITY



Dome karst



Round top conical hill



Conical hill



Irregular valley



# LANDSCAPE DIVERSITY



Cone karst



Dome karst



Scarp



Sunset in Ponjong village



# COAST DIVERSITY



Siung Beach



Sepanjang Beach



Ngungap Beach



Parangtritis Beach



# DRINI BEACH



# SUMANDENG BEACH



# HYDROGEOLOGIC DIVERSITY



Umbul Beton Spring



Baron Voclose

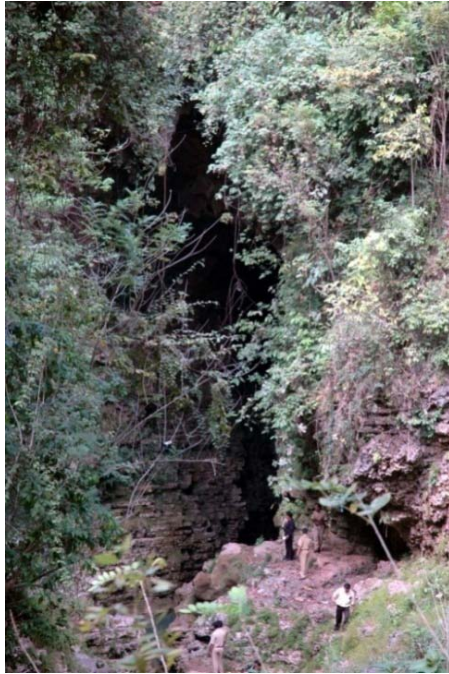


Locva  
at Paliyan district



# SPELEOLOGY

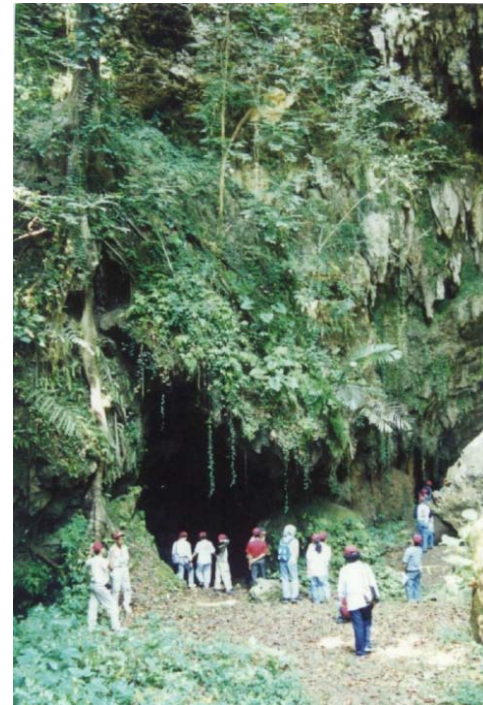
Gua Suci



Song Gilap



Gua Cemplong



Gua  
Kaligede

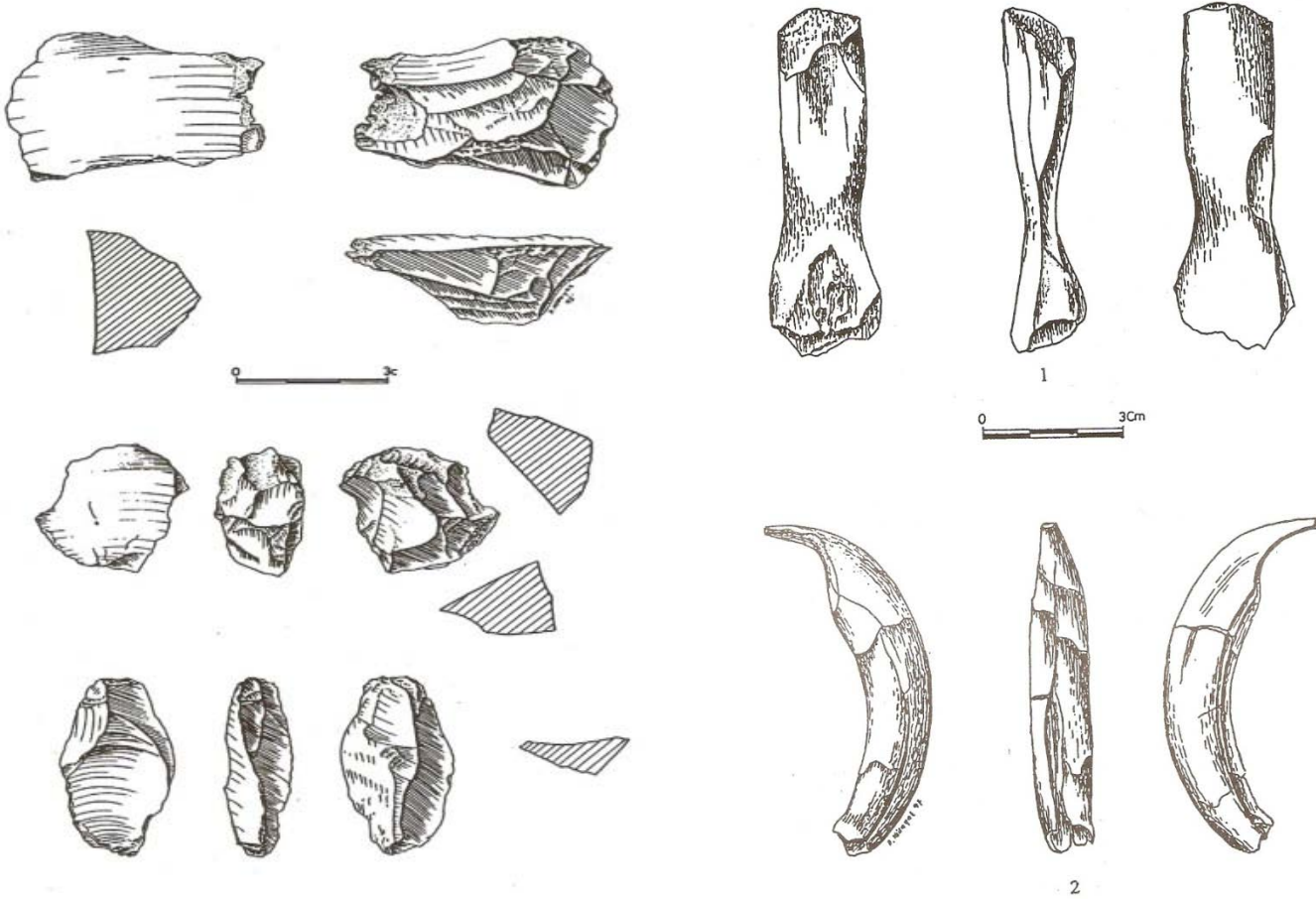


# PREHISTORIC:

- Paleomethalic
- Neolithic
- Preneolithic
- Paleolithic

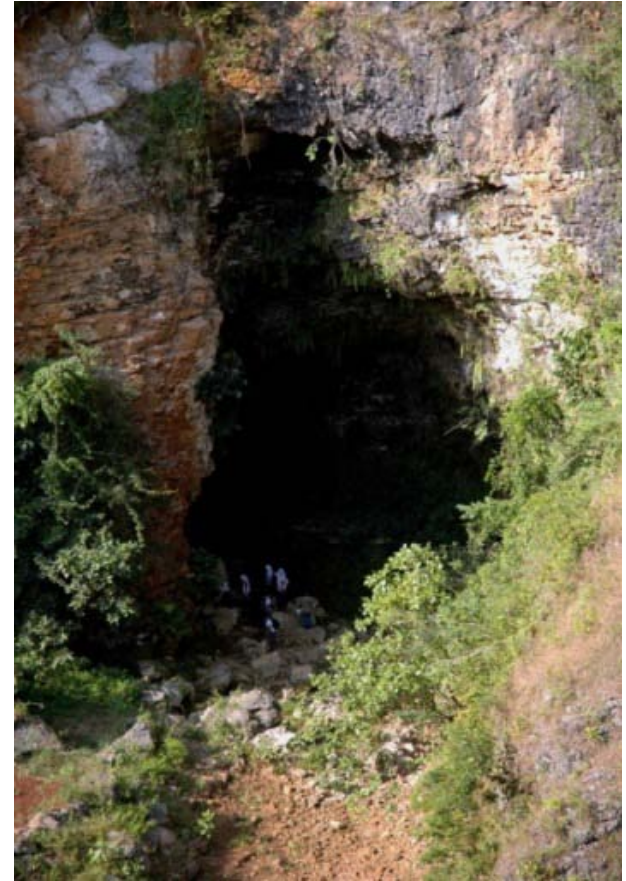


# ARTIFACTS OF GUNUNGSEWU PREHISTORIC





# GEOHERITAGE LUWENG SERPENG



Gua Ngingrong



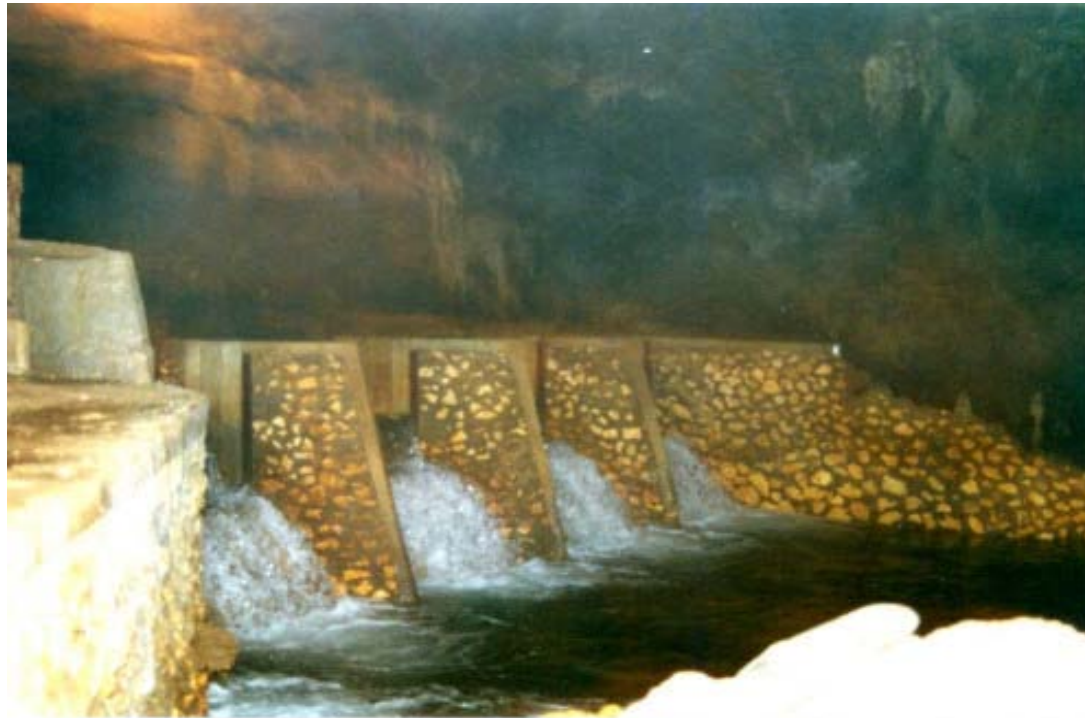
# BENGAWAN SOLO PURBA



# KALI SUCI



# GUA & KALI BRIBIN



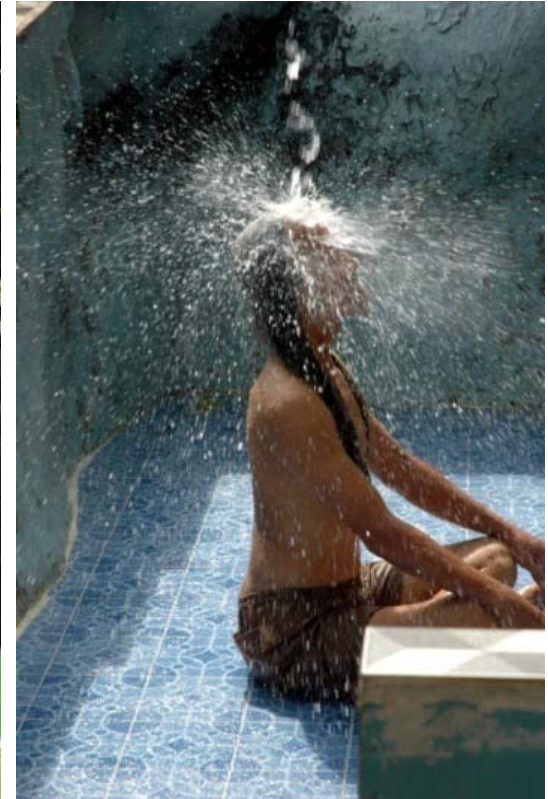
# GUA BRAHOLO



# BARON



# GUNUNG KENDIL



Health Therapy



# KARST MUSEUM, WONOGIRI





# CONCLUSSIONS

- Gunungsewu is a karst Tropic may be the widest spread in Southeast Asia.
- The area is rich of specific eco-geoheritages such as rock, structure, fossil, geomorphology, and hydrogeologic diversities.
- Despite tourism destination, easily accessible, this area is scientifically greatly functioning as natural laboratory for carbonate rocks study, depositional, deformational and erosional structures, karst geomorphology, karst hydrogeology, and karst ecology.
- Therefore Gunungsewu accomplishes all the necessities to be one of the world geoparks.

