

Karst and Limestone in Myanmar

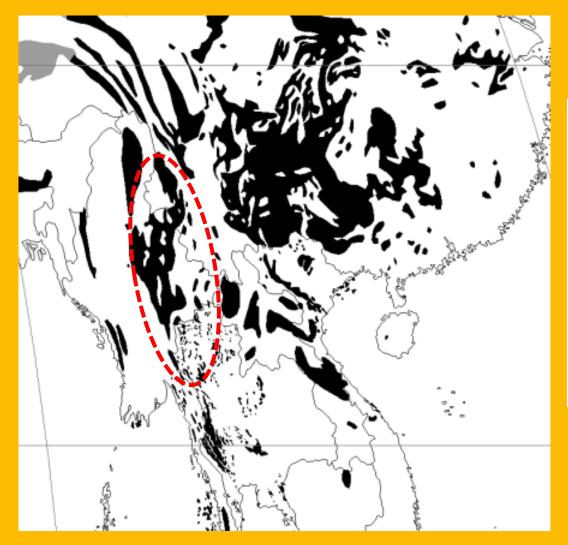


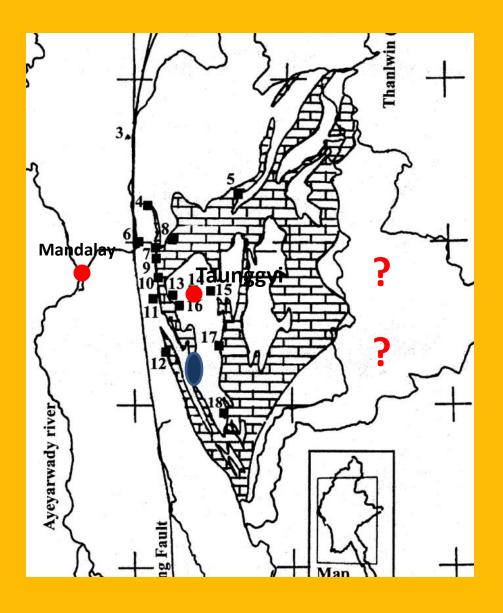
Table 20.2	Protected karst areas in Southeast Asia				
Country	Karst area (km²)	Protected karst			
Burma	80,000	650			
Cambodia	20,000	0			
Indonesia	145,000	22,000			
Laos	30,000	3,000			
Malaysia	18,000	8,000			
PNG	50,000	0			
Philippines	35,000	10,000			
Thailand	20,000	5,000			
Vietnam	60,000	4,000			
Total	458,000	53,150			

Source: Day and Urich 2000

- Large area of karst in SE-Asia (10%), Myanmar has a significant portion
- A formerly white spot for karst research due to the political isolation

Myanmar India China (Yunnan) Shan Plateau Mandalay Taunggyi Chiang Mai Thailand Yangon Bangkok

Karst Shan Plateau







Myanmar Cave Documentation Project



- European-Myanmar Project since 2009
- 51 members of 13 nations
- Swiss / British based international expedition teams
- FSE EuroSpeleo Project









Overview of Caving areas

Lashio/Kutkai

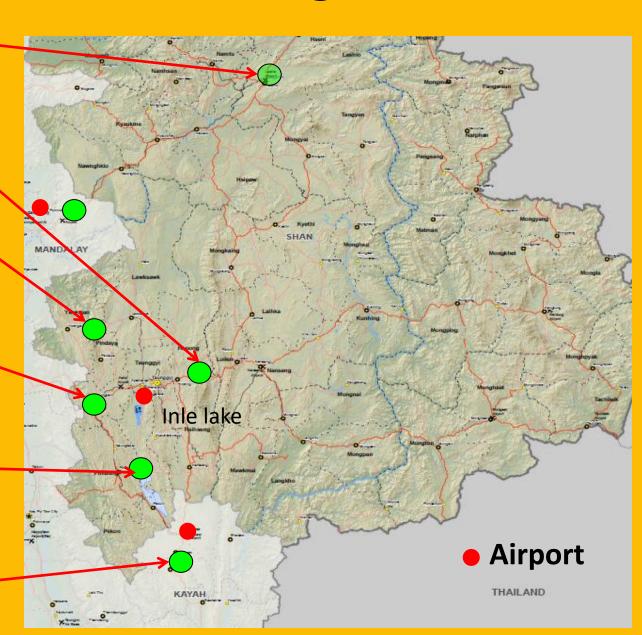
Hopon – river caves & monasteries

Ywangan –
Depressions with rivers

Kalaw – Conglomerate caves

Pinlaung – deep caves to plateau edge

Kayah – large river caves



Longest Caves of Myanmar

No.	Name	State	District	Length (m)	Year
1	Khauk Khaung (Stone Cave)	Shan	Ywangan	4790	2012-14
2	Phruno River Cave	Kayah	Hpruso	4580	2016-17
3	Red River Cave	Kayah	Bawlakhe	4095	2015-16
4	Namun Spring Cave	Shan	Pinlaung	2628	2013-14
5	Kyet Cave	Kayah	Loikaw	2194	2015
6	Stone Spring Cave	Shan	Ywangan	1917	2014
7	Ho Hwe Cave	Shan	Hopon	1857	2018-19
8	Mondowa Gu	Shan	Taunggyi	1770	1998
9	Hopon Spring Cave	Shan	Hopon	1655	2011
10	Na Gar Gu (Dragon Cave)	Shan	Ywangan	1654	2014

11 years – 16 expeditions – 80 km passage Karst Database with about 700 Objects



Pekon Homeir Loikaw Shadaw Demoso \ Dam Hpruso Kayah Bawlakhe Ywarthit 100 km w Ga Li Hpasawng Mese

Kayah State



Hpruso plateau karst 900-1500 m asl



Salween river 150 m asl

Rivers in lowland Bawlakhe © Johannes Lundberg

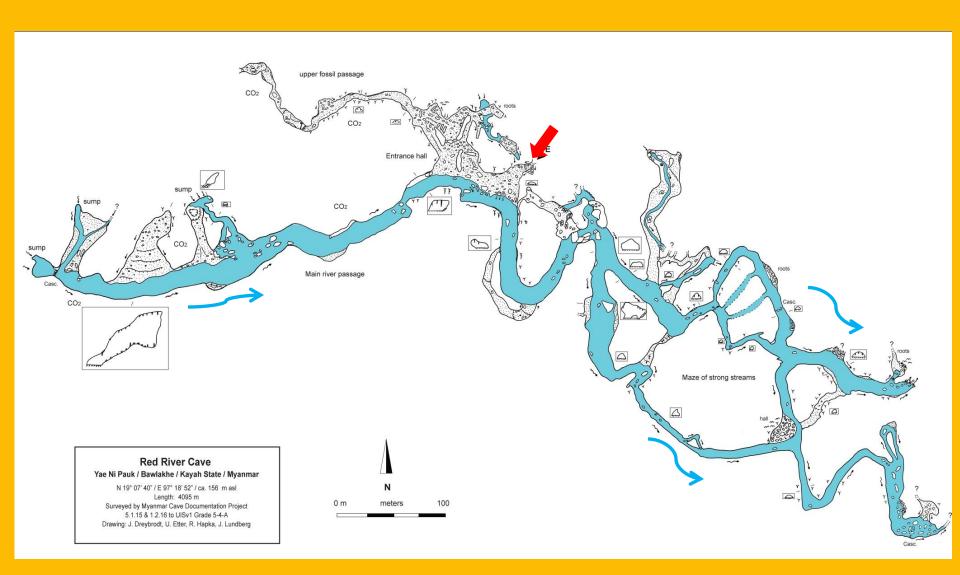


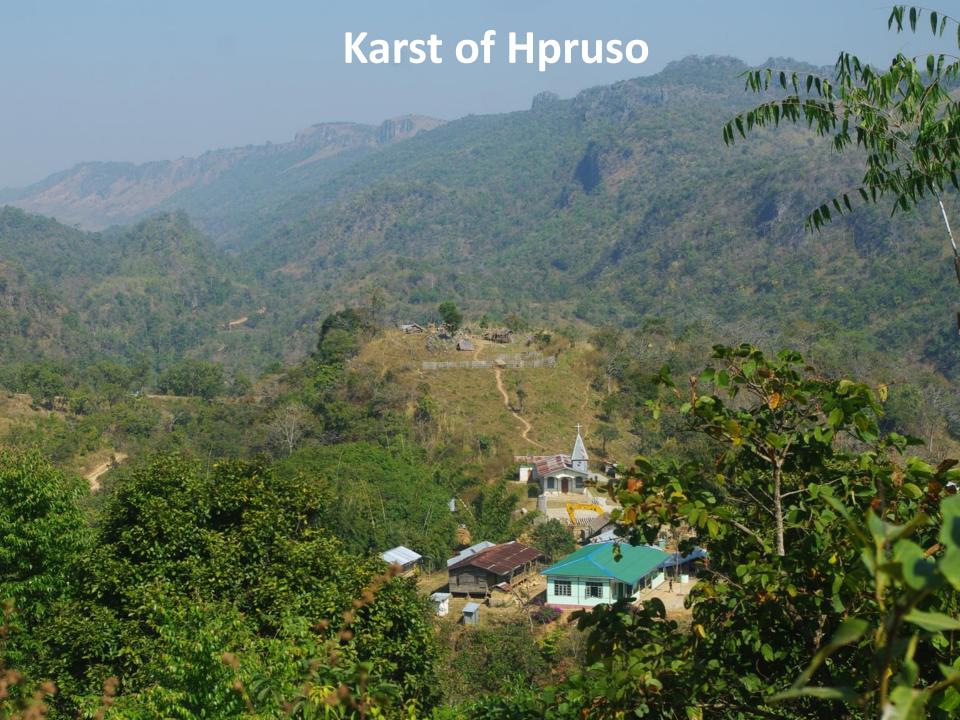


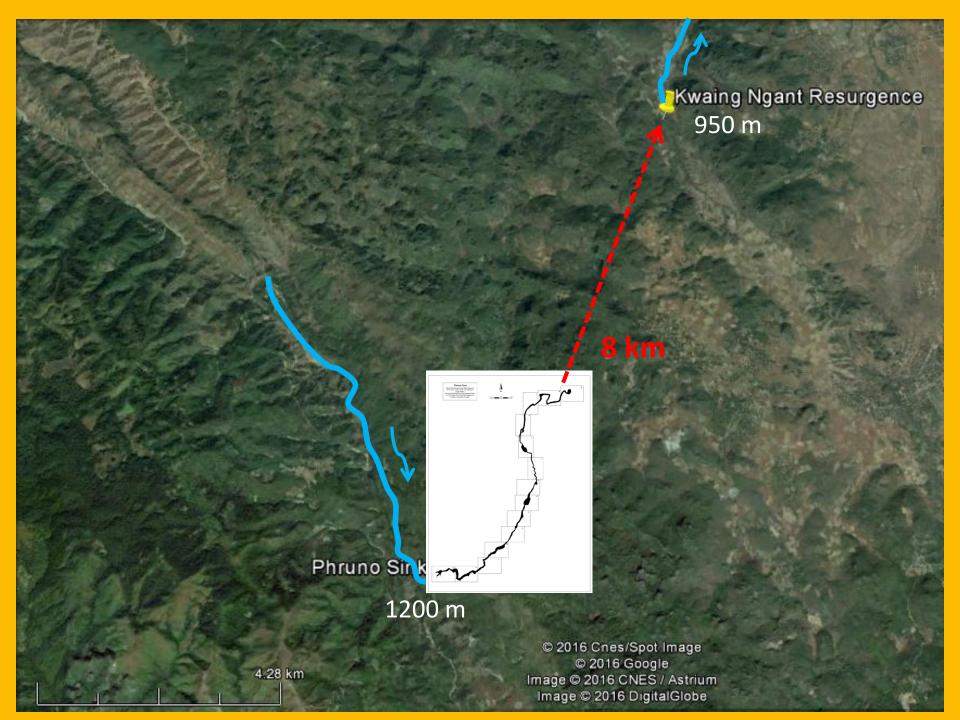
Video Red River Cave - Exploration down river

Map Red River Cave

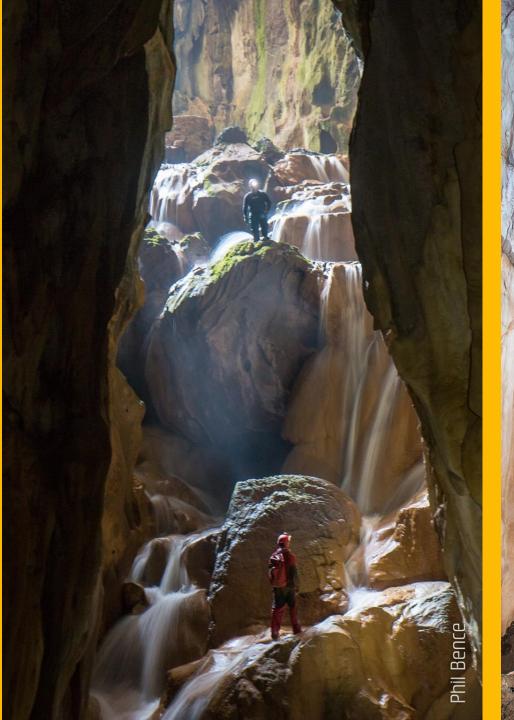
4095 m

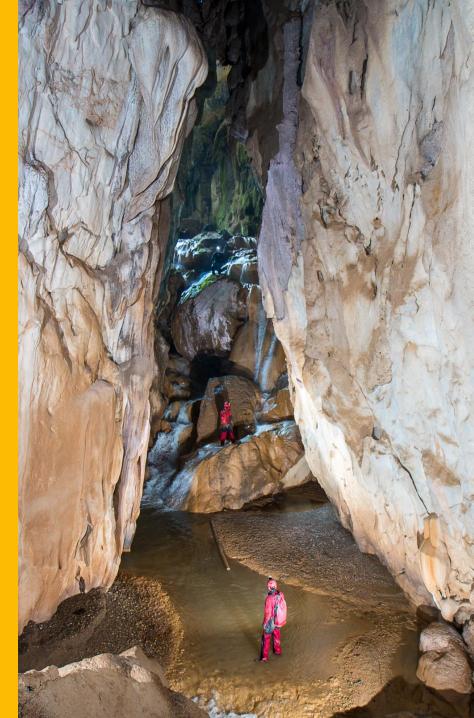










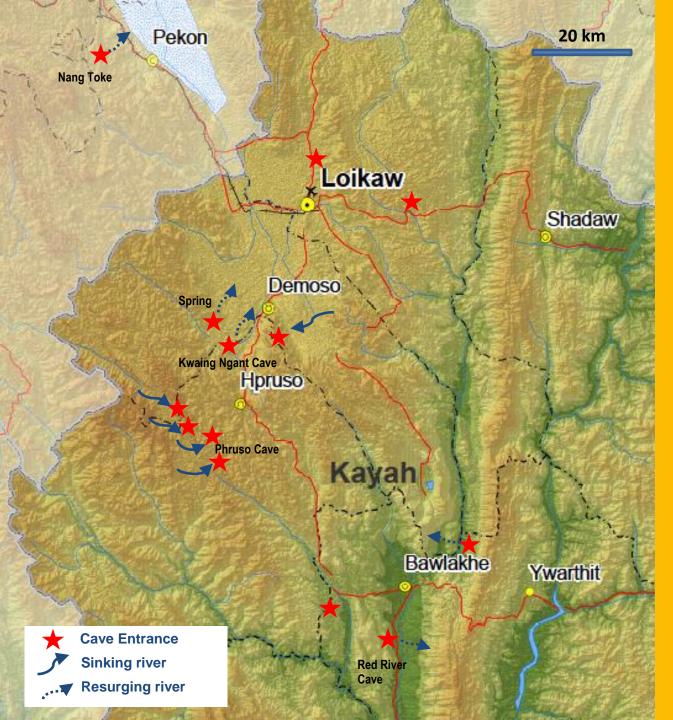












Hydrogeology in Kayah Karst

Location of sinks and resurgences



Resort Construction

Presentation to Kayah State Government









Plan for Karst conservation





Education & Research (SDG 4, 17)

- Karst workshops at universities with student field trips to enhance knowledge
- Karst monitoring with data loggers, measurement of river systems

Water Supply (SDG 6, 17)

- Hydrogeological modelling, calculation of recharge for groundwater supply management
- Identification of key areas for drinking water supply

Ecotourism (SDG 4, 8)

Karst and cave development for ecotourism based on IUCN practises

Biodiversity (SDG 15)

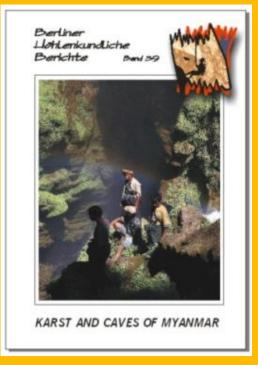
• Research on fauna, ie. bats, white blind fish, and cave geckos in Kayah

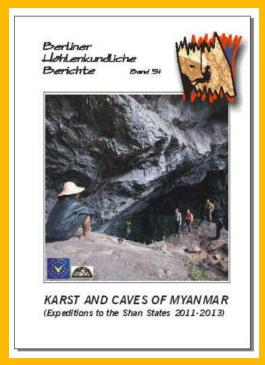
FB Event: Meeting of the cave & karst community

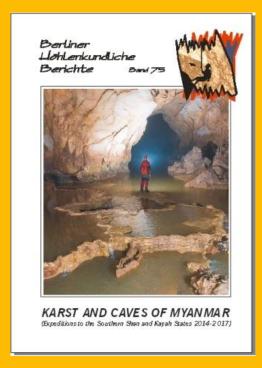


Publications & Documentary

2010 2013 2018







Documentary Movie by Phil Bence 28 min 2016





Thank you?
Questions?



www.myanmarcaves.com