

4D-MB

Final remarks

Mark R. Handy

SC meeting, Nov. 11, 2020, 17-18:30 hrs

Online

Information - The 2nd phase



2nd phase of 4D-MB => 74% funding rate

- 35 proposals submitted
- 25 proposals financed
not including the Coordination Proposal

All project money used up, positions should be filled **no later** than beginning of June 2021 (a year from time of funding).

By comparison:

1st phase of 4D-MB => 70% funding rate

- 34 proposals submitted
- 24 proposals financed



New Structure



Mountain Building in 4-Dimensions (4D-MB)

Mark Handy

Research Theme 1
Reorganisation of the lithosphere
during mountain building
M. Handy & T. Meier

Research Theme 2
Surface and crustal response to
changes in mountain building
T. Ehlers & L. Scheck-Wenderoth

Working Group A
**Neogene Orogenic (R)evolution –
from bottom to top & back in time**
E. Le Breton, N.N. & E. Kaestle

Working Group B
**Bridging models of Alpine Deformation
and Sedimentary Systems**
T. Ehlers & Ch. von Hagke

Working Group C
Active tectonics at Alps-Dinarides transition
Ch. Grützner & N. Stroncik

AlpArray Collaborative Research Group
Alps in 4D - Alpine chains and basins, from top to bottom & back in time



Meeting of the 4D-MB Steering Committee

Nov. 11, 2020, 17-18:30

Measures to make us better

- Transition from data acquisition to **interpretation, parametrisation and modelling**
- **Restructure** to help remain innovative



Integration - How can we become better?

Continue measures that have served us well so far:

1. Short courses

- Modelling - Boris Kaus, Florian Wellmann (Winter. Spring of 2021)
- Surface Processes - Todd Ehlers (Autumn 2021)

2. Field trips (early Autumn, 2021)

- Eastern Alps or Central Alps - Mark Handy



Integration - How can we become better?

New measures:

1. Participate in new *Working Groups* => contact by “motivators”
2. Folder on 4D-MB Website with access to *unpublished results*
3. Structure the *annual meetings differently*
4. *Revamp* the 4D-MB Steering Committee
5. *Alpine Model Generator* - Platform for data integration, representation and modelling
Boris Kaus, Frederick Tilmann, Thomas Meier, Emanuel Kaestle, Georg Rumpker, Wolfgang Friederich, Mark Handy, N.N. (new Coordinator)

Revamp the 4D-MB Steering Committee

1st phase: 9 members

Seismology	W. Friederich
	H. Kopp
	M. Weber
Tectonics	M. Handy
Basin dynamics	M. Scheck-W.
Petrology	T. John
Neotectonics	K. Reicherter
Surface processes	T. Ehlers
Thermomech modelling	B. Kaus

2nd phase: 11 active members

Tectonics	M. Handy
Basin dynamics	M. Scheck-W.
Neotectonics	C. Grützner
Surface processes	T. Ehlers
Thermo-mech. Modelling	B. Kaus
Sediment. systems	A. Bernhardt, N. Tomasevic
Seismology	Friederich, Kopp, Kaestle
Petrology	T. John

Klaus Reicherter, Michael Weber move from active to advisory roles

Thanks especially to Michael Weber for a great job before and during the first phase!



Information – Data repository

<https://dataservices.gfz-potsdam.de/4DMB>

So far, we have only 14 data sets and programs uploaded.

We can accommodate much more!

Questions? contact Emanuel Kaestle



Thanks!

...to all who made the Array and Swath D (Ben Heit) such a success
...to all of you participants of the meeting
...to speakers

...again, thanks to Jarka Plomerova and her group in Prague

...to Emanuel !!