2006-GPS Division Field Trip

- When?
- Where and why there?
- Who?

See web site put together by Ravi with general information on the area

Proposed Schedule

- Departure date : about June 22 (after the Geophysics field trip)
- Return date : about July 6-8.

(LA-Beijing-Urumqi-Beijing-LA)


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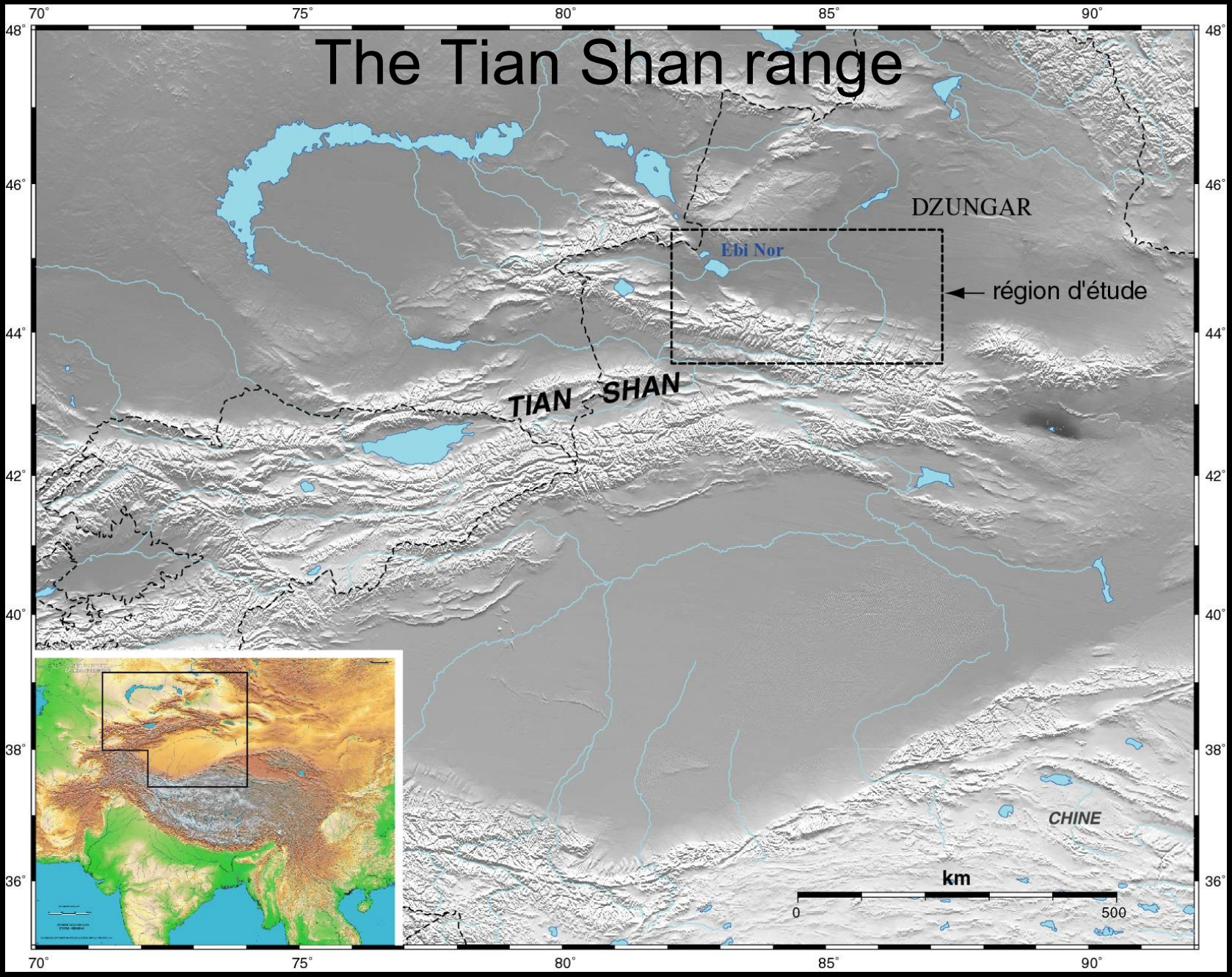
The Tian Shan range
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75°
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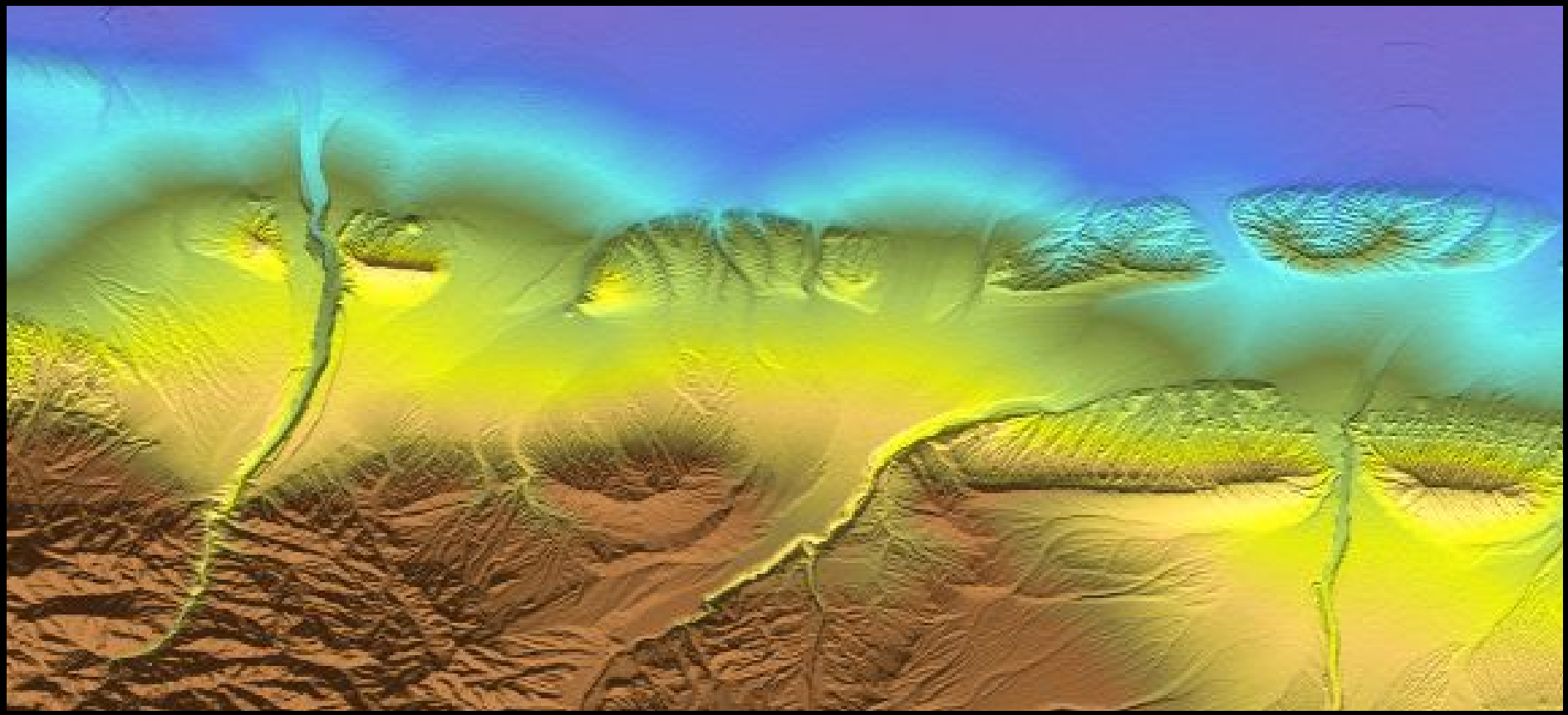
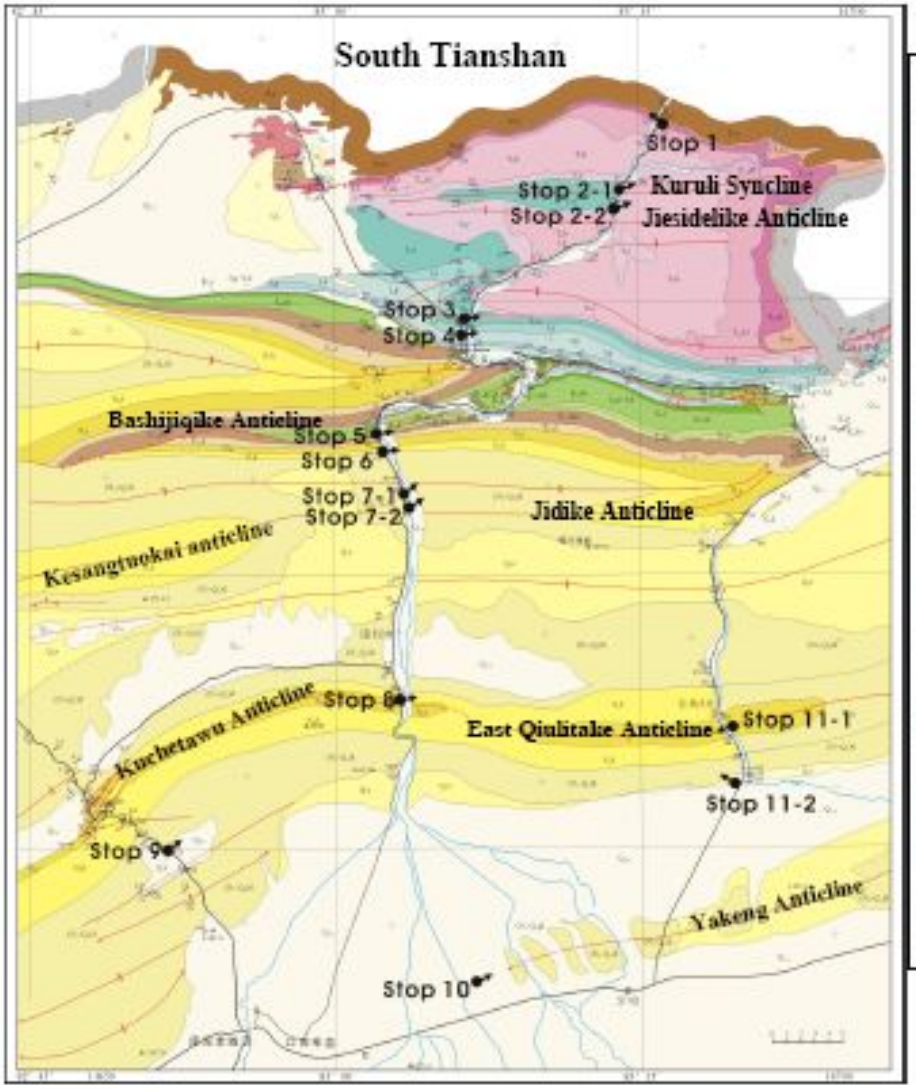
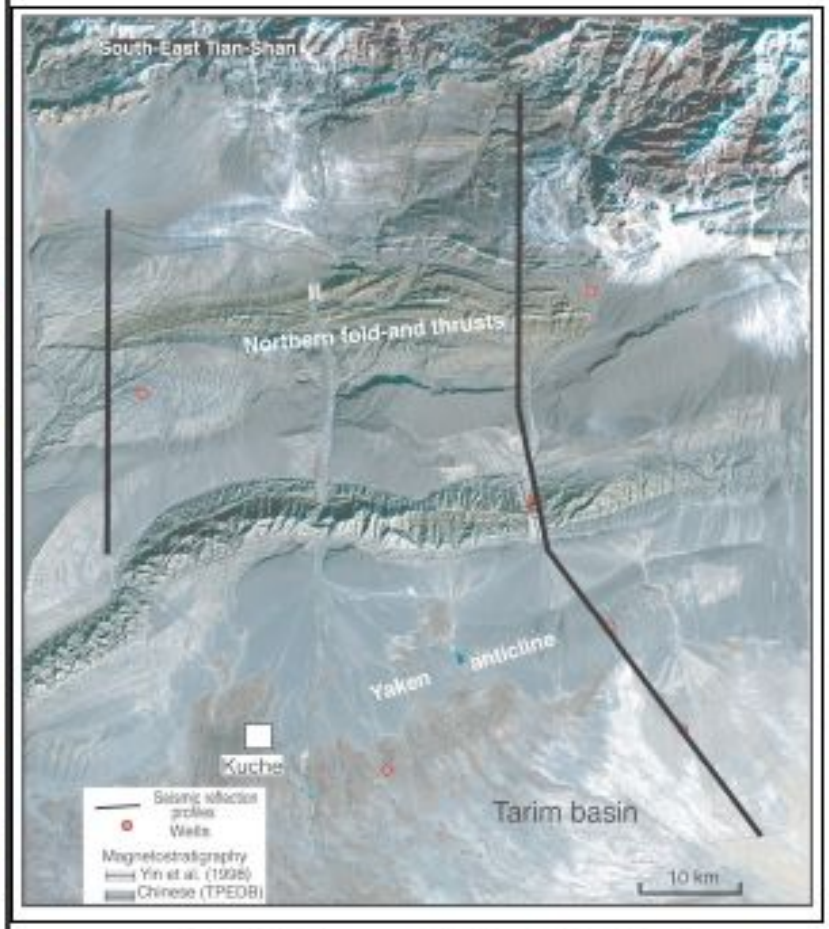


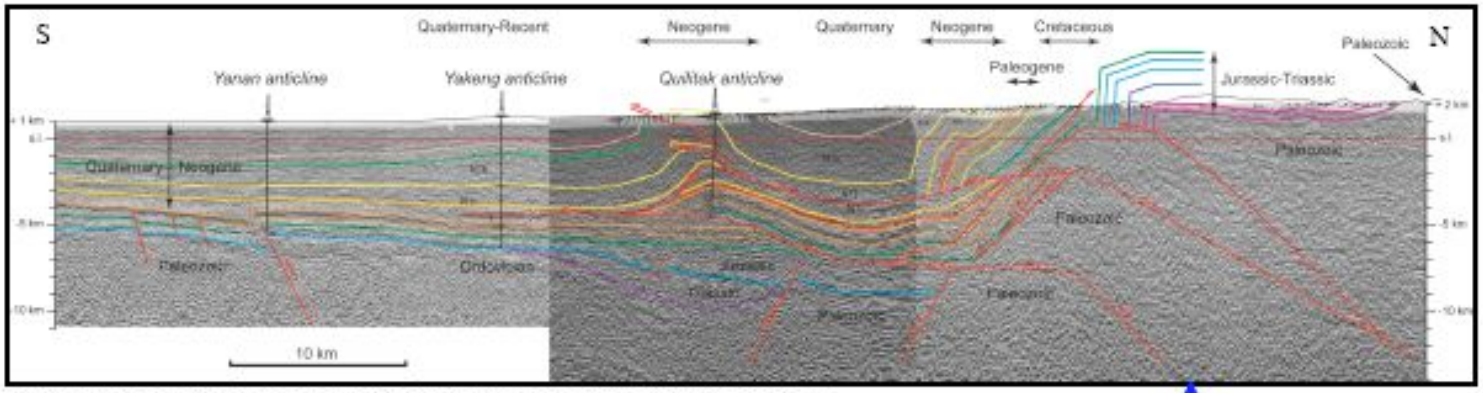


Simplified geological map showing location of the Stops in the Kuqa Foreland Basin (After Tarim Oilfield Company, PetroChina, 2004)

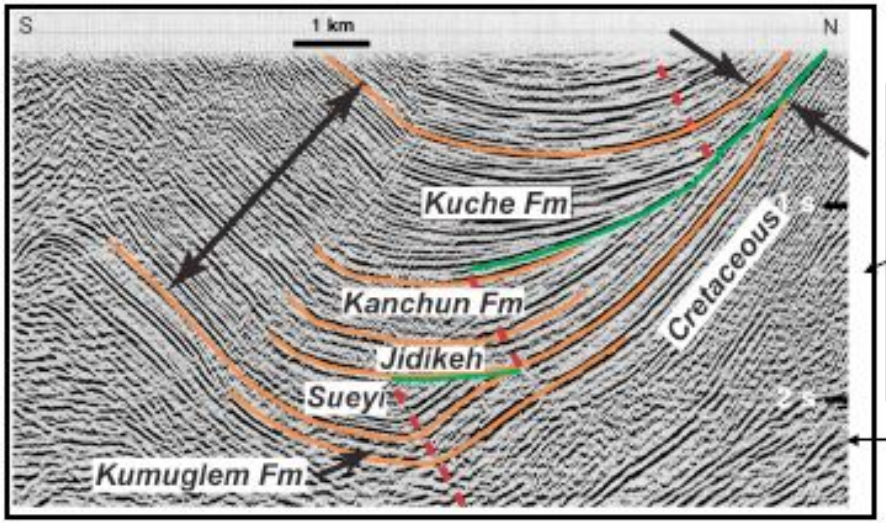


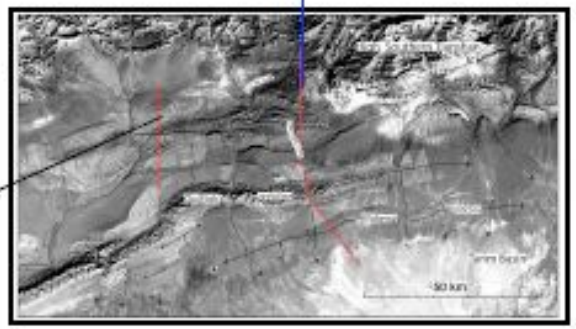
CORONA imagery of the Kuqa foreland basin (After Suppe et al., 2004)

Kuqa Foreland Fold and Thrust Belt



80 km long section, east line of the CORONA imagery of the Kuqa foreland basin





Deformation initiated since Suweiyi time: 25~30m.y.

Two unconformities related to the early phase of deformation in the north area of Kuqa fold-and-thrust belt

(After Suppe et al., 2004)

Who?

- 15-20 students will participate, 21 Grads and 13 Undergrads have applied.
- Selection criteria:
  - The students who went to Australia will have lowest priority because they have already been on an international trip.
  - Undergrads who are seniors normally are not invited (because they will not be students after they graduate, unless supported by Housner funds)
  - Juniors have precedence over Sophomores
  - Grad students who will graduate by June 2007 have precedence over those who will be here longer and have another chance for a later trip.
  - Students who will or can not attend the reading 'class' have lower precedence than those who will have attended the class.

Preparation

- All students involved are expected to participate to the preparation.

  - Seminars introducing to regional geology but also other aspects of the area. (5 seminars).

  - Documents for each field stop.

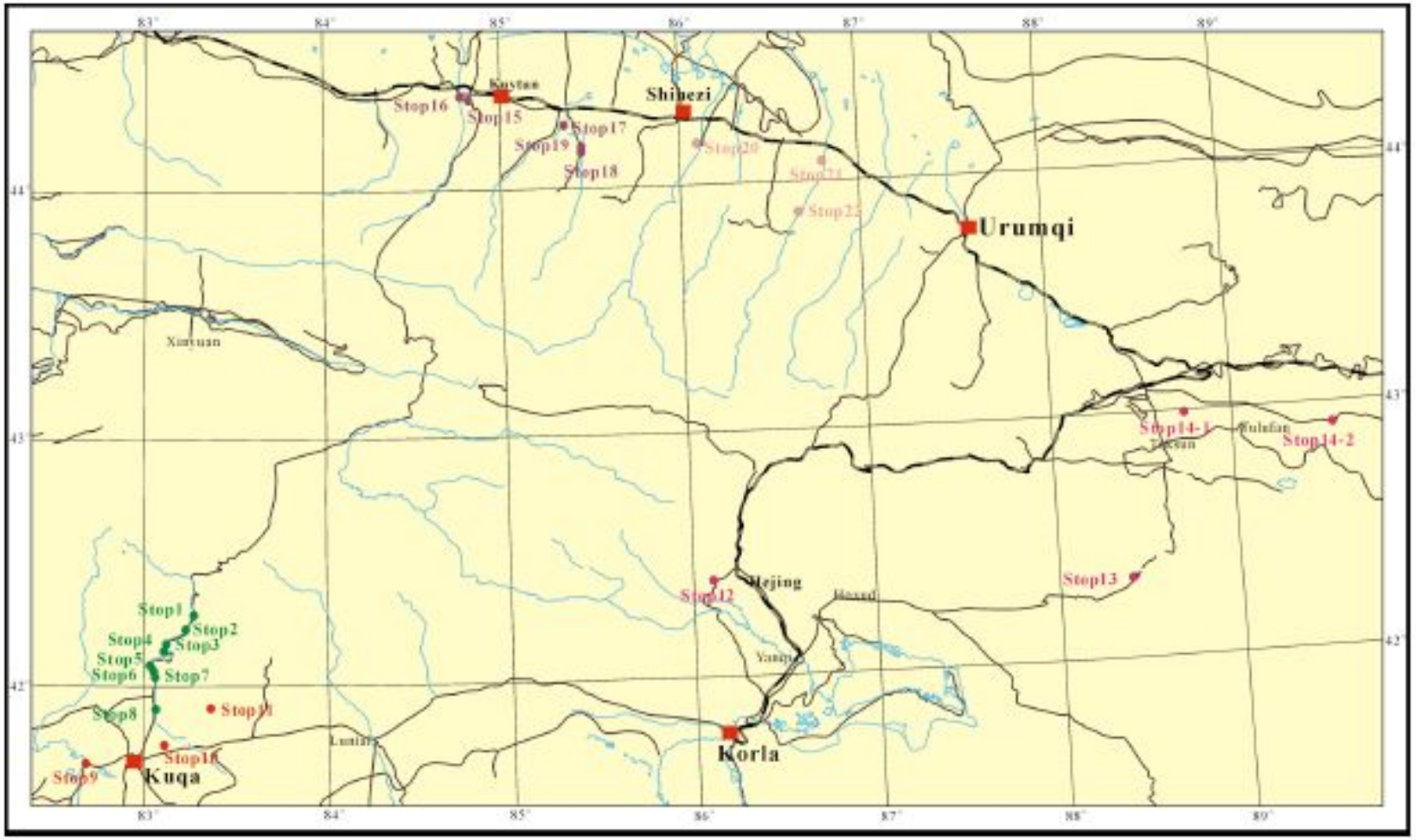
  - Logistics for field measurements and sampling (shallow seismic, laser gun).
- Or to the reporting during (email news) and after the trip (Caltech publications, web…)

California Field Trip

- Joanne Stock will be leading another trip to see highlights of California geology: (departure on june 25)

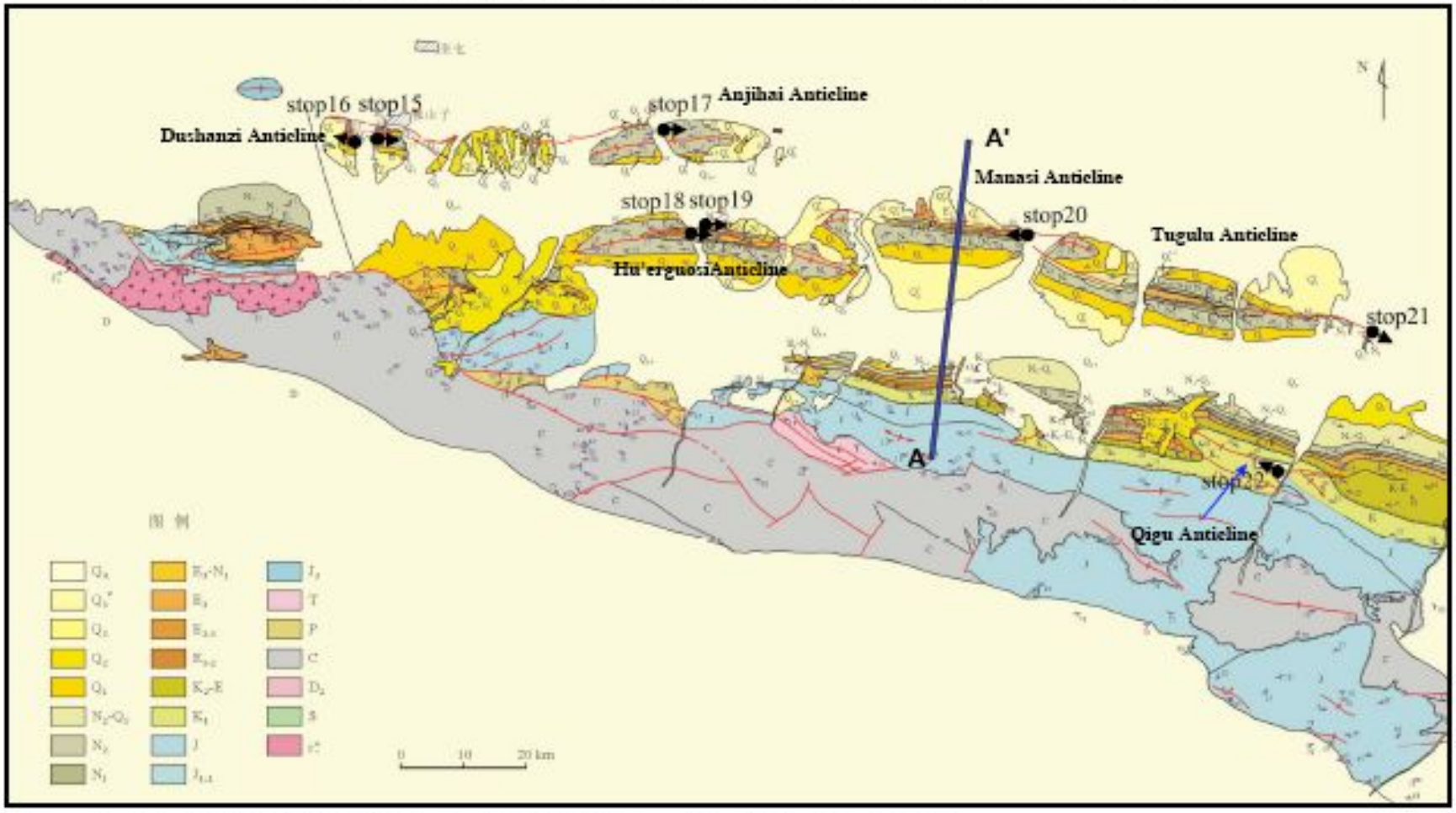
Ready to go?

Itinary



The stops for the same day are in same colour

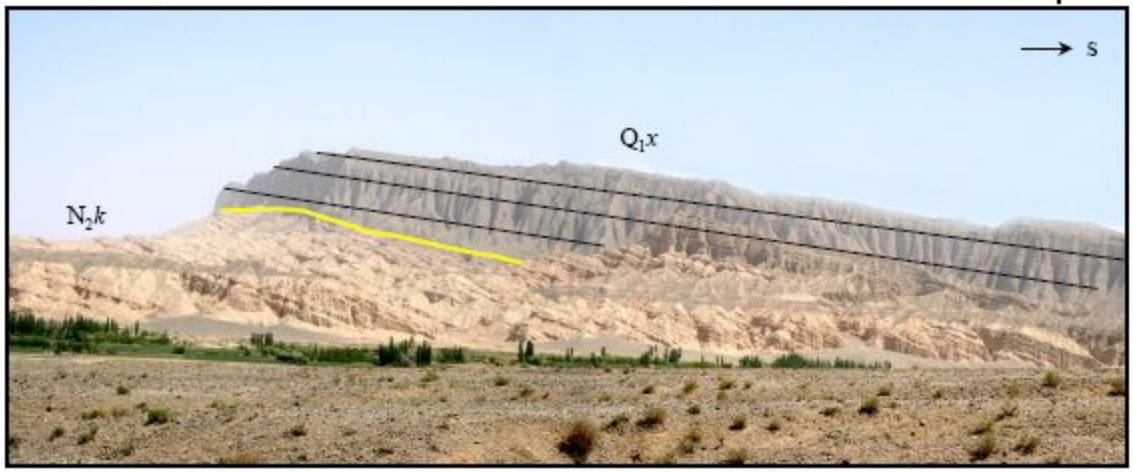
Simplified Geological Map of South Junggar Foreland Basin



Base map from Deng et al., (2000), black dots indicate the sites of field trip, A-A' indicates regional geological profile and seismic line

Stop 7 Jidike Anticline

Photograph of the east bank of the Kuqa river looking east at the 217 highway. The core and the limbs of Jidike anticline are composed of Pliocene Kuqa formation.



Photograph of the east bank of the Kuqa river, looking east at the 217 highway. Growth strata of the early Pleistocene Xiyu formation was deposited on the south limb of Jidike anticline. Thickness of the Xiyu formation increased southward, and fanning upward