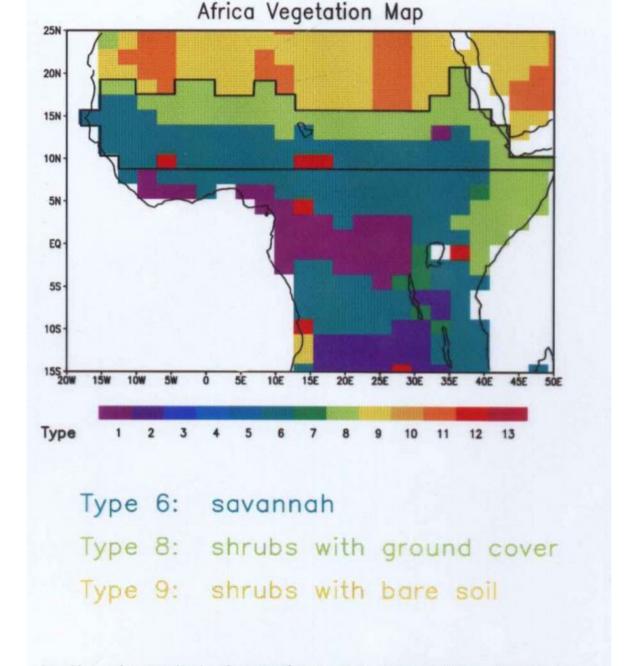


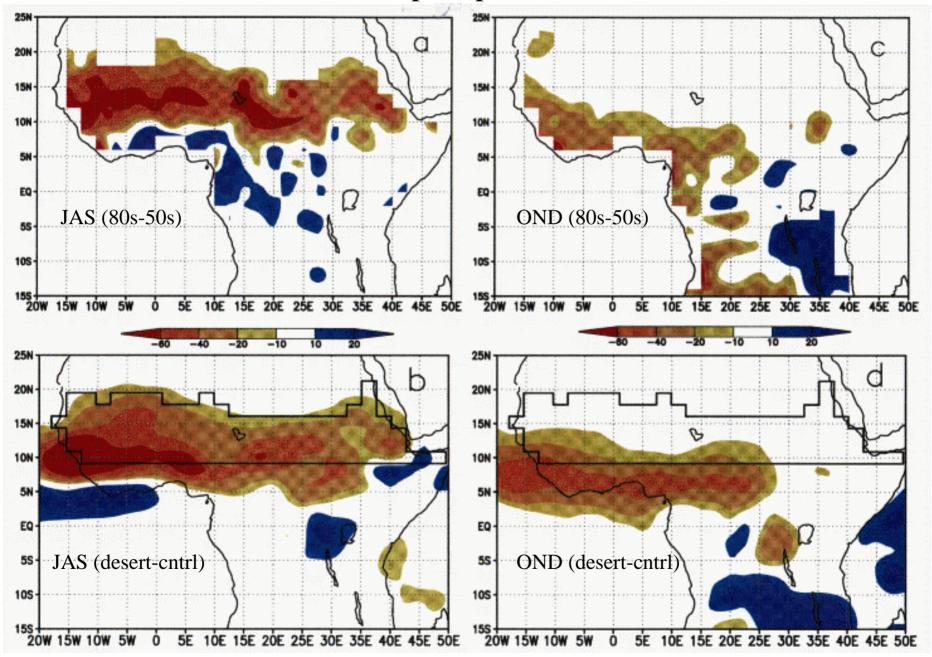
## Sahel drought & desertification

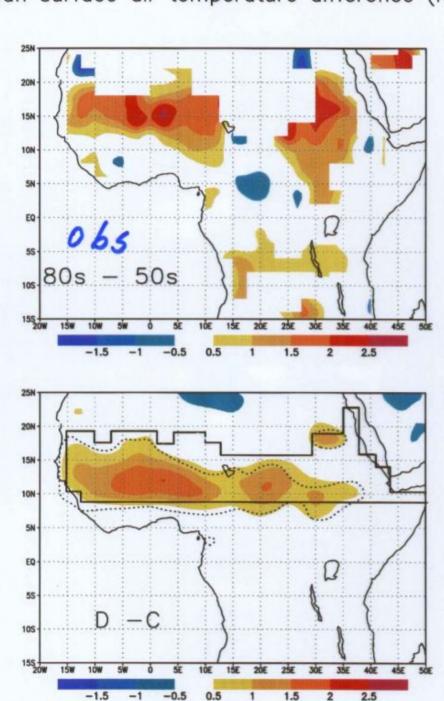




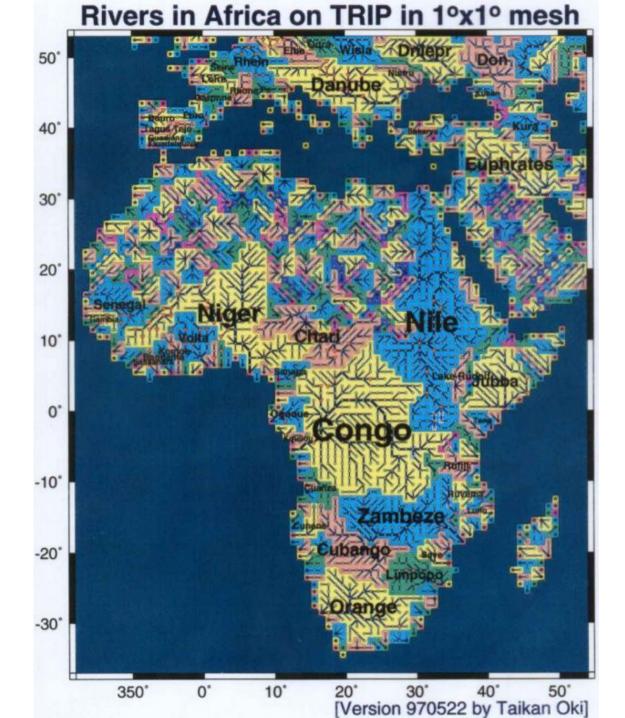
In the degraded simulations the vegetation types were changed to type 9

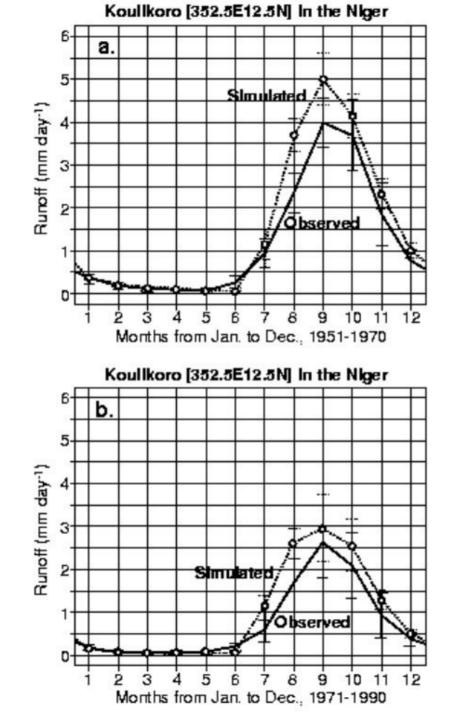
## Observed and simulated precipitation anomalies (mm/mon)



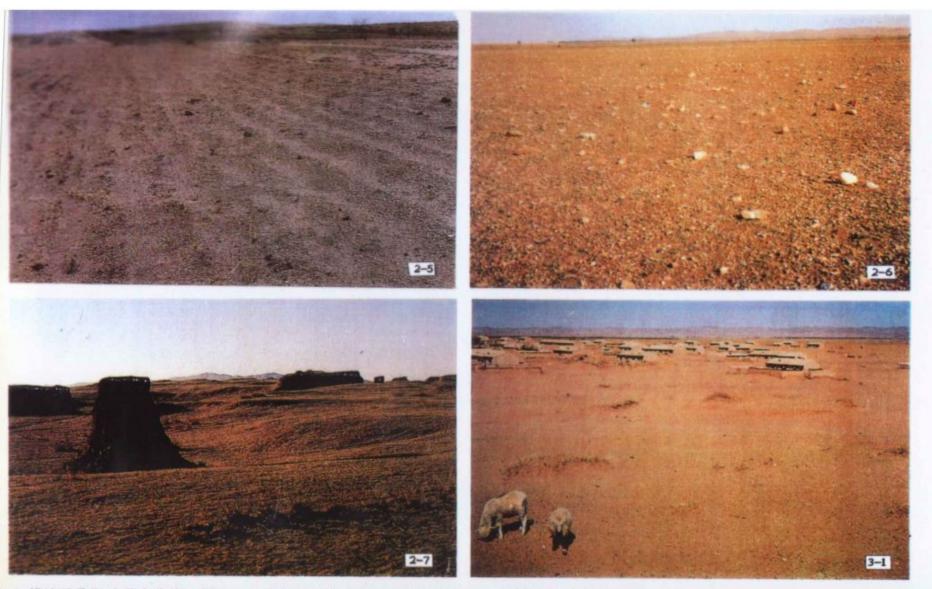


Mean surface air temperature difference (K)

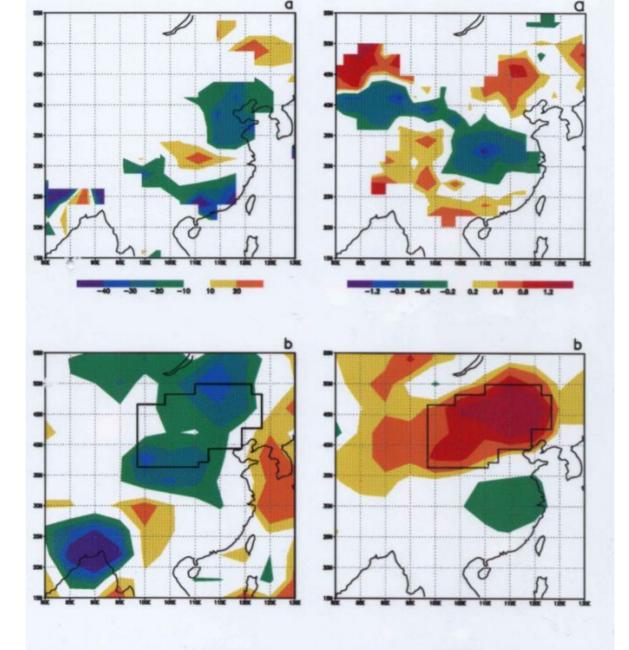




• East Asian climate anomaly and desertification



--5 耕地砾质化(内蒙古化德);照片2-6 草场戈壁化(内蒙古化德);照片2-7 风蚀劣地(内蒙古商都);照片3-1 居民点附近呈片状流沙(内蒙古化德)



Figur1: JJA mean precipitation (mm/month) for (a) observed difference between 1980s and 1950s, (b) ensemble D minus ensemble G. The desertification area is enclosed with thick line. Figur2: JJA mean surface temperature (K) for (a) observed difference between 1980s and 1950s, (b) ensemble D minus ensemble G. The desertification area is enclosed with thick line.

## Sources:

- Slide 1: Xue, 2006 (Dryland Ecohydrology)
- Slides 3-5: Xue, 1997 (Quart. J. Roy. Met. Soc)
- Side 6: Oki and Sud, 1998 (Earth Interactions)
- Slides 7: Xue et al., 2004 (Vegetation, Water, Humans and the Climate)
- Slide 9: Zhu et al., 1988 (Desertification and rehabilitation in China)
- Slide: 10: Xue, 1996 (J. Climate)