



Proof

**CONTROL ID:** 1196607**TITLE:** Understanding of Grassland Ecosystems under Climate Change and Economic Development Pressures in the Mongolia Plateau**PRESENTATION TYPE:** Assigned by Committee (Oral or Poster)**CURRENT SECTION/FOCUS GROUP:** Global Environmental Change (GC)**CURRENT SESSION:** GC16. Regional Climate Impacts 7. Environmental, Socio-economic and Climatic Changes in Northern Eurasia and their Feedbacks to the Global Earth System: The Role of Remote Sensing and Integrative Studies**AUTHORS (FIRST NAME, LAST NAME):** Jiaguo Qi¹, Jiquan Chen², Ping Shan⁵, Xuebiao Pan⁶, Yurong Wei⁴, Mingjiu Wang³, Xiaoping Xin⁷**INSTITUTIONS (ALL):** 1. Cntr Global Change & Earth Obs, Michigan State Univ, East Lansing, MI, United States.

2. University of Toledo, Toledo, OH, United States.

3. Inner Mongolia Agricultural University, Hohhot, Inner Mongolia, China.

4. Chinese Academy of Social Sciences, Hohhot, Inner Mongolia, China.

5. ACCC Inner Mongolia Team, Hohhot, Inner Mongolia, China.

6. China Agricultural University, Beijing, China.

7. Chinese Academy of Agricultural Sciences, Beijing, China.

SPONSOR NAME: Jiaguo Qi

ABSTRACT BODY: The land use and land cover change, especially in the form of grassland degradation, in the Mongolian Plateau, exhibited a unique spatio-temporal pattern that is a characteristic of a mixed stress from economic development and climate change of the region. The social dimension of the region played a key role in shaping the landscape and land use change, including the cultural clashes with economic development, conflicts between indigenous people and business ventures, and exogenous international influences. Various research projects have been conducted in the region to focus on physical degradation of grasslands and/or on economic development but there is a lack of understanding how the social and economic dimensions interact with grassland ecosystems and changes. In this talk, a synthesis report was made based on the most recent workshop held in Hohhot, Inner Mongolia, of China, that specifically focused on climate change and grassland ecosystems. The report analyzed the degree of grassland degradation, its climate and social drivers, and coupling nature of economic development and conservation of traditional grassland values. The goal is to fully understand the socio-ecological-economic interactions that together shape the trajectory of the grassland ecosystems in the Mongolia Plateau.

(No Image Selected)

(No Table Selected)

INDEX TERMS: [1632] GLOBAL CHANGE / Land cover change, [1637] GLOBAL CHANGE / Regional climate change, [0439] BIOGEOSCIENCES / Ecosystems, structure and dynamics, [0480] BIOGEOSCIENCES / Remote sensing.