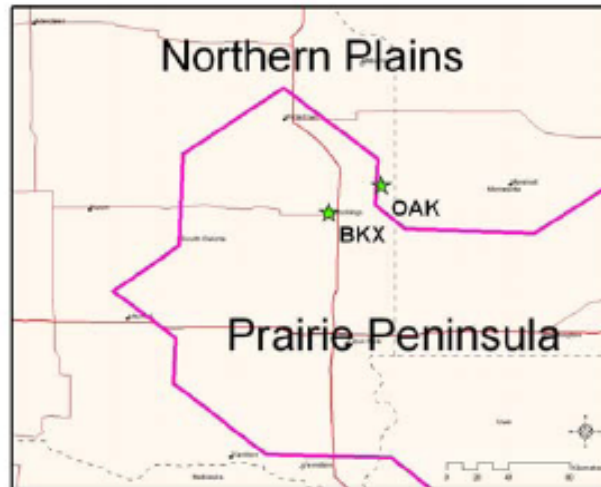


Brookings AmeriFlux Tower (BKX): Northern Plains Domain

Contact Person: Carol A. Johnston. Email: carol.johnston@sdstate.edu. Voice: 605-688-6464. Web Page:

http://public.ornl.gov/ameriflux/Site_Info/siteInfo.cfm?KEYID=us.brookings.01

Location within Domain:



History: AmeriFlux Tower was established in 2004 in grazed pasture leased by South Dakota State University.

Key Characteristics: A moderately grazed pasture planted with introduced cool-season (C3) grasses, smooth brome grass (*Bromus inermis* Leyss.) and Kentucky bluegrass (*Poa pratensis* L.)

Existing Infrastructure: Instrumentation for the Brookings carbon dioxide flux includes an R. M. Young 81000V Ultrasonic anemometer, Kipp and Zonen CNR 1 four wave net radiometer, LI-COR LI-7500 open-path infra-red gas analyzer for CO₂/H₂O, Apogee QSO quantum sensor, Campbell CS237-F leaf wetness sensing grid, Hukseflux HFP01SC soil heat flux plate, Delta T PR1/6 soil moisture sensor, NOAA ATDD Probe with YSI Thermistors for soil temperature, Vaisala PTB101B pressure transducer for atmospheric pressure, Vaisala 50Y temperature/relative humidity transmitter, Apogee IRTS-P thermocouple for surface temperature, and various weather monitoring instruments (tipping bucket rain gauge, platinum resistance thermometer, anemometer for wind speed/direction). Data available through AmeriFlux web page.

Facilities: The tower is located in an actively grazed pasture on a family farm. Land is privately owned, and the site is unmarked with no public access.