Understanding the Hydropower and Climate Change Potential Impact on the Himalayan River Regimes-A Study of Local Perceptions and Responses from Himachal Pradesh, India

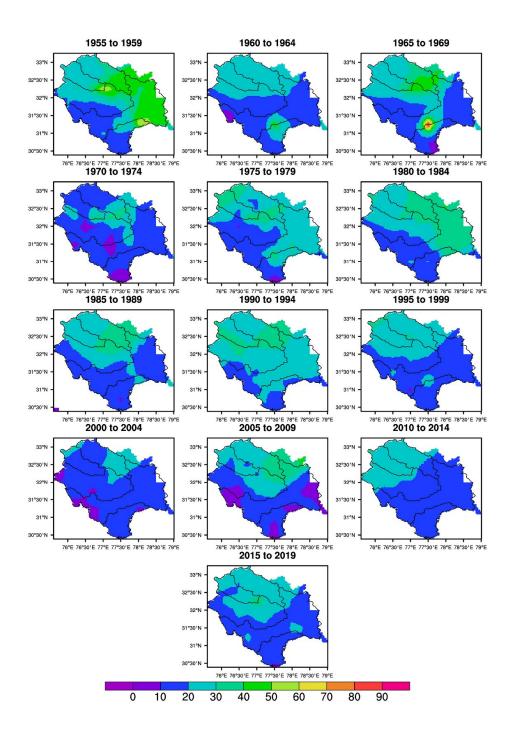


Figure S1. Pentads showing total rainfall in winter season (DJF) in Himachal Pradesh. Each pentad shows the mean of the five years from 1955-2019.

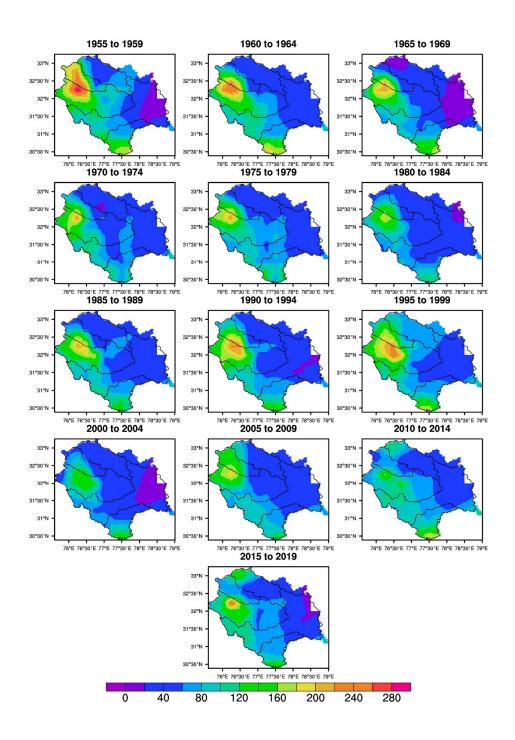


Figure S2. Pentads showing total rainfall in monsoon season (JJAS) in Himachal Pradesh. Each pentad shows the mean of the five years from 1955-2019.

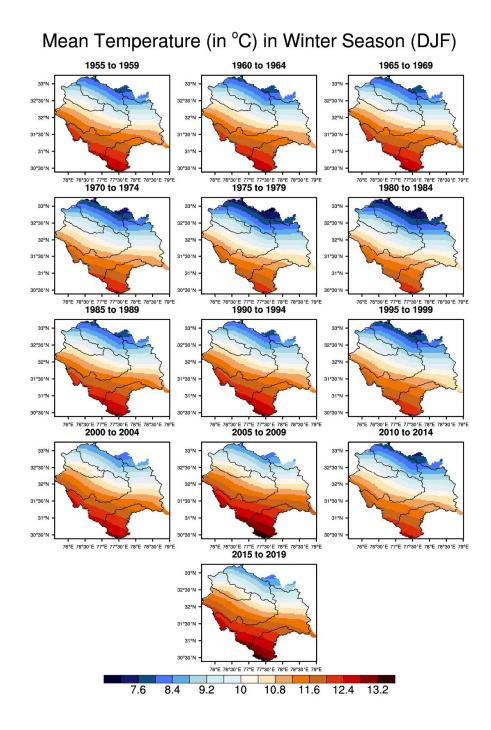


Figure S3. Pentads showing mean temperature in winter season (DJF) in Himachal Pradesh. Each pentad shows the mean of the five years from 1955-2019.

Mean Temperature (in °C) in Monsoon Season (JJAS) 1955 to 1959 1960 to 1964 1965 to 1969 °30'E 77°E 77°30'E 78°E 78°30'E 79°E 1980 to 1984 76°E 76°30'E 77°E 77°30'E 78°E 1970 to 1974 30'E 77°E 77°30'E 78°E 1975 to 1979 31°30'N 31°30'N 31°N 31°N 31°N 76°E 76°30'E 77°E 77°30'E 78°E 78°30'E 79°E 1985 to 1989 30'E 77°E 77°30'E 78°E 78°30'E 79°E 1995 to 1999 76°E 76°30'E 77°E 77°30'E 78°E 78°30'E 79°E 1990 to 1994 31°30'N 31°30'N 31°30'N °30'E 77°E 77°30'E 78°E 78°30'E 79°E 2010 to 2014 °30'E 77°E 77°30'E 78°E 78°30'E 79°E 2005 to 2009 76°E 76°30'E 77°E 77°30'E 78°E 78°30'E 79°E 2000 to 2004 32°N 76°E 76°30'E 77°E 77°30'E 78°E 78°30'E 79°E 76°E 76°30'E 77°E 77°30'E 78°E 78°30'E 79°E 2015 to 2019 76°E 76°30'E 77°E 77°30'E 78°E 78°30'E 79°E

Figure S4. Pentads showing mean temperature in monsoon season (JJAS) in Himachal Pradesh. Each pentad shows the mean of the five years from 1955-2019.

24.8

23.2

25.6

26.4

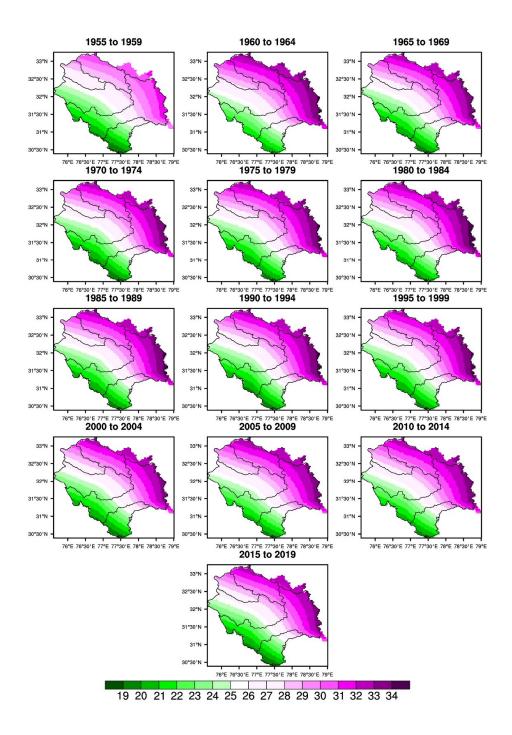


Figure S5. Pentads showing total soil moisture in winter season (DJF) in Himachal Pradesh. Each pentad shows the mean of the five years from 1955-2019.

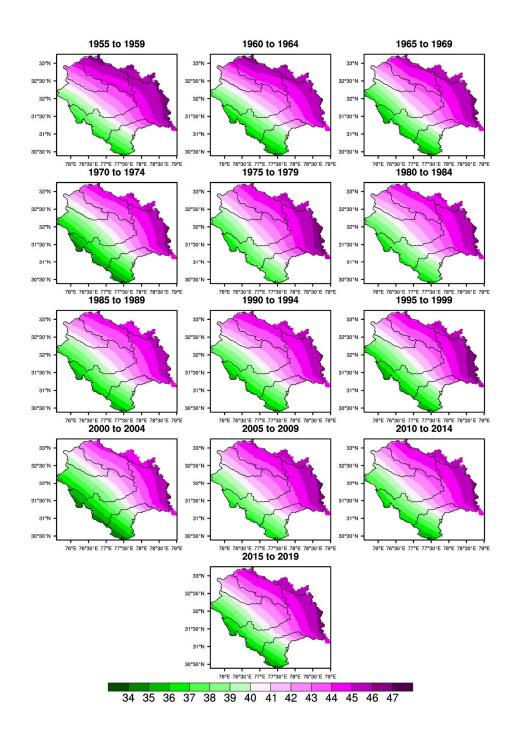


Figure S6. Pentads showing total soil moisture in monsoon season (JJAS) in Himachal Pradesh. Each pentad shows the mean of the five years from 1955-2019.