Class title	Sun's influence in climate (태양과기후)	Credit	3
Lecturer Office Email	In-Sun Song (송인선) Room 548, Science Hall (과548) songi@yonsei.ac.kr	Affiliation Contact Web	Dept. Atmos. Sci. (대기과학과) 02-2123-5650 https://mapl.yonsei.ac.kr
Level	Undergraduate students in atmospheric science major		
Objectives	Understanding of basic knowledge of the influence of the Sun on the Earth's climate		
Pre- requisites	None		
References	R1: The Sun's influence on climate (2015), Princeton University Press, by Joanna D. Haigh and Peter Cargill		
	R2: Various Sun-Earth-related scientific materials for presentation		

Week	Contents		
1	Introduction and earth's climate system		
2	The earth's climate system: Mean states		
3	The earth's climate system: Variability and global modeling		
4	The Sun: Internal thermal structure		
5	The Sun: Outside of the photosphere		
6	Solar radiation outside of the earth: Top of the atmosphere		
7	Solar radiation in the atmosphere		
8	Mid-term exam		
9	Solar variability: Solar cycle		
10	Solar variability: Impacts in the earth		
11	Solar signals in surface climate: Global impacts		
12	Solar signals in surface climate: Regional impacts		
13	Solar influence through the atmosphere: Observations		
14	Solar influence through the atmosphere: Theory and understanding		
15	Space weather		
16	Final exam		