

Atmospheric Chemistry and Physics (FKFF01) 2018

Day	Date	Time	#Theme; L=lecture; Ex=exercise	Teacher	§Place	Literature
Wed	21/3	13-15	Introduction (L1)	BM	Rydberg	Jacob Ch 1-2
Thu	22/3	13-15	Meteorology (L2)	BM	Rydberg	Jacob Ch 3-4
Mon	26/3	13-15	Exercise A Gr 1	JF	H421	
Tue	27/3	8-10	Exercise A Gr 2	PR	H421	
Wed	28/3	15-17	Cycles, Aerosol (L3)	JF	Rydberg	Jacob Ch 6 + ³ added mtrl, Jacob Ch 8 + ¹ added mtrl
Thu	29/3	10-12	Atm Chem Basics (L4)	ES	Rydberg	Jacob Ch 9
Mon	16/4	13-15	Exercise B Gr 1	JF	H421	
Tue	17/4	8-10	Exercise B Gr 2	PR	H421	
Wed	18/4	15-17	Oxidation power of Trop. (L5)	PR	Rydberg	Jacob Ch 11
Thu	19/4	13-15	Stratospheric ozone (L6)	PR	Rydberg	Jacob Ch 10 + ⁴ added mtrl
Mon	23/4	13-15	Exercise D Gr 1	JF	H421	
Tue	24/4	8-10	Exercise D Gr 2	PR	H421	
Tue	24/4	15-17	Midterm test	JF/PR	H421/H422	Lectures 1 - 6
Wed	25/4	13-15	Air pollution (L7)	PR	Rydberg	Jacob Ch 12 + ⁵ added mtrl
Thu	26/4	13-15	Greenhouse effect (L8)	JF	Rydberg	Jacob Ch 7 + ⁶ added mtrl
Wed	2/5	10-12	*Project Follow-up Gr 2a,b p 4-6	PR	H422	<i>Gr 2a and b Proj 4-6</i>
Wed	2/5	10-12	*Project Follow-up Gr 2a,b p7-9	OS	B113	<i>Gr 2a and b Proj 7-9</i>
Wed	2/5	10-12	Exercise E Gr 1	JF	H421	
Wed	2/5	13-15	*Project Follow-up Gr 1a,b p1-3	JF	H422	<i>Gr 1a and b Proj 1-3</i>
Wed	2/5	13-15	*Project Follow-up Gr 1a,b p7-9	OS	B113	<i>Gr 1a and b Proj 7-9</i>
Wed	2/5	13-15	Exercise E Gr 2	PR	H421	
Thu	3/5	13-15	Aerosol, cloud and climate (L9)	JF	Rydberg	Jacob Ch 8 + ² added mtrl
Thu	3/5	15-17	*Project Follow-up Gr 2a,b p1-3	JF	B113	<i>Gr 2a and b Proj 1-3</i>
Thu	3/5	15-17	*Project Follow-up Gr 1a,b p4-6	PR	H422	<i>Gr 1a and b Proj 4-6</i>
Mon	7/5	13-15	Exercise C Gr1	JF	H421	
Tue	8/5	8-10	Exercise C Gr2	PR	H421	
Wed	9/5	13-15	Acidification & Summary (L10)	PR	Rydberg	Jacob Ch 13
Mon	14/5	13-15	Exercise F Gr 1	JF	H421	
Tue	15/5	8-10	Exercise F Gr 2	PR	H421	
Wed	16/5	8-10	Proj: Oral Presentation Gr 1a[#]	PR,JF	H322	Compulsory
Wed	16/5	10-12	Proj: Oral Presentation Gr 1b[#]	JF,OS	H322	Compulsory
Thu	17/5	8-10	Proj: Oral Presentation Gr 2a[#]	OS, PR	H322	Compulsory
Thu	17/5	10-12	Proj: Oral Presentation Gr 2b[#]	PR,JF	H322	Compulsory
Thu	24/5	14-15	Questions chapters 1 - 8	JF	B113	
Thu	24/5	15 ³⁰ -16 ³⁰	Questions chapters 9 - 13	PR	B113	
Mon	28/5	8⁰⁰-13⁰⁰	Written exam		Vic:1A-B	Entire course

#) Project elements in **bold** letters are compulsory (but only the session where you present).

*) Optional follow-up in the project.

§) Premises at Physics Department except for the written exam.

Course literature in addition to the textbook by Jacob (available from the course home page or as hardcopy):

1. The life cycle of the atmospheric aerosol (J. Heintzenberg)
2. Aerosol, water and clouds (B. Martinsson)
3. Biogeochemical cycles: IPCC 2013 assessment report, chapter 6, pp 465 – 480 (Executive summary + 6.1 Introduction)
4. Detecting recovery of the stratospheric ozone layer, Chipperfield et al., Nature 2017
5. Air quality status and trends in Europe, Guerreiro et al., Atmospheric Environment 2014
6. Climate: IPCC 2013 summary for policy makers, Chapters A – D (pp 2 – 19)