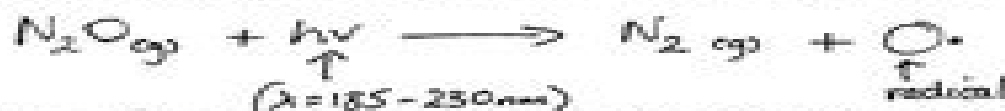


F332 advance notice (June 2013) "predicted Q's"

- How does photolysis play a part in the destruction of N_2O in the stratosphere?



[90% of N_2O loss in Stratosphere is this!]

* THIS IS "PHOTODISSOCIATION". $O\cdot$ helps to form tropospheric O_3 .

- Use a series of equations to show how NO acts in the catalytic destruction of ozone?



This can be a bad thing at tropospheric level. NO can react with C_xH_y , preventing NO breaking down O_3 . Build up of O_3 in Trop. leads to photochemical smog!!

- What is meant by the term photolysis?

"photo" = LIGHT

"-lysis" = SPLITTING

Light energy drives chemical reactions

- Convert 100 parts per billion to a percentage, for the level of NO_x in urban areas

1 part per million \longrightarrow $\frac{1}{10,000}$ (divide by 10,000)

100 ppb = 0.1 ppm (1,000 ppb = 1 ppm)

$$\frac{0.1 \text{ ppm}}{10,000} = \underline{\underline{1 \times 10^{-5} \%}} \quad (\text{or } 0.00001 \%)$$

- Why is the $N_2O_{(atm)} \rightleftharpoons N_2O_{(ocean)}$ not a true dynamic equilibrium?

ATMOSPHERE + OCEANS can't be regarded as ~~as~~ a "SEALED system".
(gases "lost").

- Describe how photochemical smog can be harmful to:
(a) the environment?

- crop damage

- compounds with $C=C$ bonds are particularly vulnerable
(rubbers, paints ...)

June 2013 F332 Paper

Chloé Brière



June 2013 F332 Paper:

The External Dimension of the EU's Policy against Trafficking in Human Beings Chloé Brière, 2021-04-08 This book explores the external dimension of the ambitious EU policy on human trafficking Through this policy the EU institutions and Member States promote the eradication of human trafficking and support to that end cooperation with their partners being third States or international organisations Analysing the unilateral and multilateral mechanisms the EU uses to achieve these aims the book questions whether the EU's external response to human trafficking addresses it in all its dimensions and whether it does so in a coherent way As a case study the book explores the cooperation of the EU with countries of the Western Balkans which constitutes a specific unilateral mechanism The analysis of the multilateral mechanisms covers the cooperation of the EU with key international and regional organisations combating human trafficking including but not limited to the Council of Europe or the United Nations Office on Drugs and Crime The book also examines the impact of the evolution of migration flows and the increasing reliance of military tools on the EU's response to human trafficking

A World at Arms Gerhard L. Weinberg, 2013-07-11 In a new edition featuring a new preface *A World of Arms* remains a classic of global history Widely hailed as a masterpiece this volume remains the first history of World War II to provide a truly global account of the war that encompassed six continents Starting with the changes that restructured Europe and its colonies following the First World War Gerhard Weinberg sheds new light on every aspect of World War II Actions of the Axis the Allies and the Neutrals are covered in every theater of the war More importantly the global nature of the war is examined with new insights into how events in one corner of the world helped affect events in often distant areas

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