

PHENOLOGICAL STUDIES PROGRAMME

(Starting with the first signs of spring from March till June)

The aim of the studies is to observe when spring appears in the different countries around the Baltic Sea. The observations were started by a little group of pupils from Finland, Sweden and Estonia in 1992 within the UNESCO Associates Schools Network (ASPnet). Now it has grown up to a common programme of the Baltic Sea Project within the UNESCO ASPnet.

Phenological studies is a fun and practical outdoor activity recommended for primary schools but can be done with the secondary school as well by adding the links with the climate change and human impacts into the lesson. This programme does not require special equipments or preparation, and motivates students to observe nature during the spring season. The pupils can observe nature alone, with their family members or with class. The participants have to observe the above named species and write down the date they first saw them.

Then they will send this sheet to their national coordinator: <https://unesco-bsp.blogspot.com/p/coordinators.html>, so this info can be used in the citizen science. By doing this worksheet, each of us can contribute to the scientific understanding of climate change and it's impacts fort he nature and societies.



United Nations
Educational, Scientific and
Cultural Organization



UNESCO
Associated
Schools











The Baltic Sea Project











PHENOLOGICAL STUDIES PROGRAMME WORKSHEET**(Starting with the first signs of spring from March till June)**





Teacher's name	
School name	
Class (student's age group)	
Number of participating students	
Area of the observation (address)	
Country of observation	
Teacher's e-mail address	

How does the species look like?	What are we observing?	When did you do the observation?	Where did you do the observation?
 <p>Photo: https://commons.wikimedia.org/wiki/File:Alauda_arvensis_2.jpg</p>	<p>When did You first hear the voice of skylark (<i>Alauda arvensis</i>)?</p>	<p>Date:</p> <p>1. _____</p> <p>2. _____</p>	<p>Observation place:</p>
 <p>Photo: https://commons.wikimedia.org/wiki/File:Toulouse_-_Sturnus_vulgaris_-_2012-02-26_-_2.jpg</p>	<p>When did You see the first starling (<i>Sturnus vulgaris</i>)?</p>	<p>Date:</p> <p>1. _____</p> <p>2. _____</p>	<p>Observation place:</p>
 <p>Photos: https://commons.wikimedia.org/w/index.php?curid=14710617; https://commons.wikimedia.org/wiki/File:Corylus_avellana_0004.JPG</p>	<p>When did You see the first blooms of hazelnut (<i>Corylus avellana</i>)?</p>	<p>Date:</p> <p>1. _____</p> <p>2. _____</p>	<p>Observation place:</p>

 <p>Photo: https://commons.wikimedia.org/wiki/File:2015.03.08.-02-Mannheim_Vogelstang--Kleines_Schneegloekchen.jpg</p>	<p>When did You see the first blooms of snowdrop (<i>Galanthus nivalis</i>)?</p>	<p>Date:</p> <p>1. _____</p> <p>2. _____</p>	<p>Observation place:</p>
 <p>Photo: https://commons.wikimedia.org/wiki/File:Tussilago_farfara_whole.png</p>	<p>When did You see the first blooms of coltsfoot (<i>Tussilago farfara</i>)?</p>	<p>Date:</p> <p>1. _____</p> <p>2. _____</p>	<p>Observation place:</p>
 <p>Photo: https://commons.wikimedia.org/wiki/File:Hepatica_nobilis.jpg</p>	<p>When did You see the first blooms of blue anemone (<i>Hepatica nobilis</i>)?</p>	<p>Date:</p> <p>1. _____</p> <p>2. _____</p>	<p>Observation place:</p>
 <p>Photo: https://commons.wikimedia.org/wiki/File:Zitronenfalter.jpg</p>	<p>When did You see the first brimstone (<i>Gonepteryx rhamni</i>)?</p>	<p>Date:</p> <p>1. _____</p> <p>2. _____</p>	<p>Observation place:</p>
 <p>Photo: https://commons.wikimedia.org/wiki/File:Lasius_Niger.jpg</p>	<p>When did You see the first black ant?</p>	<p>Date:</p> <p>1. _____</p> <p>2. _____</p>	<p>Observation place:</p>

 <p>Photo: https://commons.wikimedia.org/wiki/File:Wei%C3%9Fstorch_(Ciconia_ciconia).jpg</p>	<p>When did you see the first white stork (<i>Ciconia ciconia</i>)?</p>	<p>Date:</p> <p>1. _____</p> <p>2. _____</p>	<p>Observation place:</p>
 <p>Photo: https://commons.wikimedia.org/w/index.php?curid=3800685</p>	<p>When did You see the first wagtail (<i>Motacilla alba</i>)?</p>	<p>Date:</p> <p>1. _____</p> <p>2. _____</p>	<p>Observation place:</p>
 <p>Photo: https://commons.wikimedia.org/w/index.php?curid=1667864</p>	<p>When did You see the first blooms of sallow (<i>Salix caprea</i>)?</p>	<p>Date:</p> <p>1. _____</p> <p>2. _____</p>	<p>Observation place:</p>
 <p>Photo: https://commons.wikimedia.org/w/index.php?curid=19294486</p>	<p>When did You see the first blooms of wood anemone (<i>Anemone nemorosa</i>)?</p>	<p>Date:</p> <p>1. _____</p> <p>2. _____</p>	<p>Observation place:</p>

 <p>Photo: https://commons.wikimedia.org/w/index.php?curid=77407413</p>	<p>When did You see the first bumble-bee flying?</p>	<p>Date:</p> <p>1. _____</p> <p>2. _____</p>	<p>Observation place:</p>
 <p>Photo: https://commons.wikimedia.org/w/index.php?curid=25571415</p>	<p>When did You hear the voices of blackbird (<i>Turdus merula</i>)?</p>	<p>Date:</p> <p>1. _____</p> <p>2. _____</p>	<p>Observation place:</p>
 <p>Photo: https://commons.wikimedia.org/w/index.php?curid=177558</p>	<p>When did you hear the “frog concert” near the breeding pond?</p>	<p>Date:</p> <p>1. _____</p> <p>2. _____</p>	<p>Observation place:</p>
 <p>Photo: https://commons.wikimedia.org/w/index.php?curid=13124695</p>	<p>When did You hear the voices of cuckoo (<i>Cuculus canorus</i>)?</p>	<p>Date:</p> <p>1. _____</p> <p>2. _____</p>	<p>Observation place:</p>

 <p>Photo: https://commons.wikimedia.org/w/index.php?curid=40871366</p>	<p>When did You see the first house martin (<i>Delichon urbica</i>)?</p>	<p>Date:</p> <p>1. _____</p> <p>2. _____</p>	<p>Observation place:</p>
 <p>Photo: https://commons.wikimedia.org/w/index.php?curid=7363520</p>	<p>When did You see the first cabbage white (<i>Pieris brassicae</i>)?</p>	<p>Date:</p> <p>1. _____</p> <p>2. _____</p>	<p>Observation place:</p>
 <p>Photo: https://commons.wikimedia.org/w/index.php?curid=19262669</p>	<p>When did You see the first blooms of bird-cherry (<i>Padus avium</i>)?</p>	<p>Date:</p> <p>1. _____</p> <p>2. _____</p>	<p>Observation place:</p>
 <p>Photo: https://commons.wikimedia.org/wiki/File:Hundsrose-busch.jpg</p>	<p>When did You see the first dog-rose (<i>Rosa canina</i>) being in bloom?</p>	<p>Date:</p> <p>1. _____</p> <p>2. _____</p>	<p>Observation place:</p>

