

## Subject card

|                                             |                                                                                                                                 |                                                          |                                         |                                     |                                                |            |     |
|---------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------|-----------------------------------------|-------------------------------------|------------------------------------------------|------------|-----|
| Subject name and code                       | Basic meteorology - auditory exercises, PG_00159331                                                                             |                                                          |                                         |                                     |                                                |            |     |
| Field of study                              | Oceanography                                                                                                                    |                                                          |                                         |                                     |                                                |            |     |
| Date of commencement of studies             | October 2024                                                                                                                    |                                                          | Academic year of realisation of subject |                                     | 2026/2027                                      |            |     |
| Education level                             | undergraduate studies                                                                                                           |                                                          | Subject group                           |                                     | Obligatory subject group in the field of study |            |     |
| Mode of study                               | full-time studies                                                                                                               |                                                          | Mode of delivery                        |                                     | at the university                              |            |     |
| Year of study                               | 3                                                                                                                               |                                                          | Language of instruction                 |                                     | Polish                                         |            |     |
| Semester of study                           | 6                                                                                                                               |                                                          | ECTS credits                            |                                     | 1.0                                            |            |     |
| Learning profile                            | academic                                                                                                                        |                                                          | Assessment form                         |                                     |                                                |            |     |
| Conducting unit                             | Pracownia Badań Klimatu -> Katedra Oceanografii Fizycznej i Badań Klimatu -> Faculty of Oceanography and Geography              |                                                          |                                         |                                     |                                                |            |     |
| Name and surname of lecturer (lecturers)    | Subject supervisor                                                                                                              |                                                          | dr Janusz Filipiak                      |                                     |                                                |            |     |
|                                             | Teachers                                                                                                                        |                                                          |                                         |                                     |                                                |            |     |
| Lesson types                                | Lesson type                                                                                                                     | Lecture                                                  | Tutorial                                | Laboratory                          | Project                                        | Seminar    | SUM |
|                                             | Number of study hours                                                                                                           | 0.0                                                      | 15.0                                    | 0.0                                 | 0.0                                            | 0.0        | 15  |
|                                             | E-learning hours included: 0.0                                                                                                  |                                                          |                                         |                                     |                                                |            |     |
| Learning activity and number of study hours | Learning activity                                                                                                               | Participation in didactic classes included in study plan |                                         | Participation in consultation hours |                                                | Self-study | SUM |
|                                             | Number of study hours                                                                                                           | 15                                                       |                                         | 6.0                                 |                                                | 10.0       | 31  |
| Subject objectives                          | Familiarize students with the practical analysis of assessing the basic physical processes occurring in the Earth's atmosphere. |                                                          |                                         |                                     |                                                |            |     |

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| Learning outcomes                                        | Course outcome                                                                                                                                                                                                                                                                                                                                                                                             | Subject outcome                                                                                                                                                                                                                      | Method of verification                                  |
|                                                          | [OCEANL3-K05] is willing to take responsibility for the safety of his/ her own and others' work, is aware of the risks and threats resulting from the work performed                                                                                                                                                                                                                                       | Is willing to continuously deepen a knowledge in the field of atmospheric sciences                                                                                                                                                   | [SK8] observation of student's independent or team work |
|                                                          | OCEANL3-U01                                                                                                                                                                                                                                                                                                                                                                                                | Is able to use current scientific terminology in presenting and discussing problems in the field of meteorology and is able to use methods of analyzing and presenting data in meteorology                                           | [SU3] text preparation/written work                     |
|                                                          | OCEANL3-U05                                                                                                                                                                                                                                                                                                                                                                                                | Is able to use current scientific terminology in presenting and discussing problems in the field of meteorology and is able to use methods of analyzing and presenting data in meteorology                                           | [SU3] text preparation/written work                     |
|                                                          | OCEANL3-W02                                                                                                                                                                                                                                                                                                                                                                                                | Knows and understands the terminology used in atmospheric sciences, knows and understands the basic physical processes occurring in the atmosphere                                                                                   | [SW3] text preparation/written work                     |
|                                                          | OCEANL3-W01                                                                                                                                                                                                                                                                                                                                                                                                | Knows and understands the terminology used in atmospheric sciences, knows and understands the basic physical processes occurring in the atmosphere                                                                                   | [SW3] text preparation/written work                     |
|                                                          | OCEANL3-W04                                                                                                                                                                                                                                                                                                                                                                                                | Knows and understands the importance of basic techniques, research methods and tools used in meteorology                                                                                                                             | [SW3] text preparation/written work                     |
| Subject contents                                         | B.1. Earth's radiation balance, the role of the atmosphere in this balance, the greenhouse effect.<br>B.2. Synoptic maps and their types and use in meteorology.<br>B.3. Dynamic processes on synoptic maps, determination of wind speed on surface and upper-level maps.<br>B.4. Thermal wind and temperature advection.<br>B.5. Humidity and vertical stability of the atmosphere. Aerological diagrams. |                                                                                                                                                                                                                                      |                                                         |
| Prerequisites and co-requisites                          |                                                                                                                                                                                                                                                                                                                                                                                                            |                                                                                                                                                                                                                                      |                                                         |
| Assessment methods and criteria                          | Subject passing criteria                                                                                                                                                                                                                                                                                                                                                                                   | Passing threshold                                                                                                                                                                                                                    | Percentage of the final grade                           |
|                                                          | obtaining a passing grade determined on the basis of partial grades on the colloquium and written work.                                                                                                                                                                                                                                                                                                    | 51.0%                                                                                                                                                                                                                                | 100.0%                                                  |
| Recommended reading                                      | Basic literature                                                                                                                                                                                                                                                                                                                                                                                           | Herman, A., 2006, Podstawy meteorologii. Skrypt do ćwiczeń z przedmiotu "Meteorologia morską", Wyd. UG. (in Polish)<br>Malinowska M. (red.), 2010, Przewodnik do ćwiczeń z meteorologii i klimatologii, Wyd. UG, Gdańsk. (in Polish) |                                                         |
|                                                          | Supplementary literature                                                                                                                                                                                                                                                                                                                                                                                   | Trzeciak, S., 2009, Meteorologia morską z oceanografią, PWN, Warszawa. (in Polish)                                                                                                                                                   |                                                         |
|                                                          | eResources addresses                                                                                                                                                                                                                                                                                                                                                                                       | Adresy na platformie eNauczanie:                                                                                                                                                                                                     |                                                         |
| Example issues/ example questions/ tasks being completed |                                                                                                                                                                                                                                                                                                                                                                                                            |                                                                                                                                                                                                                                      |                                                         |
| Work placement                                           | Not applicable                                                                                                                                                                                                                                                                                                                                                                                             |                                                                                                                                                                                                                                      |                                                         |

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