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| ***Activity Type:* Simulation and Role Play** |
| ***Learning Solution Type:* Classroom learning** |
| ***Assigned Topic*: Satellite products in conjuction with other data to forecast convective initiation** |
| ***Team Name:* Cumulonimbus (Larissa Timofeyeva)** |
| ***Title of the activity:* Discover METOP product -snow cover** |
| ***Instructions to students*** *(what do they need to know to participate in the activity, how are they grouped, how will outcomes be shared for feedback)*  **Idea** - Pretend, you are a person (say, hydrologists), who is responsible for contacting users and helping them to deal with, say, amount of snow (to be prepared for spring or winter floods). You are expected to be useful and quick. You need the help of meteorologist (forecaster) to calculate the amount of snow (correct in time and size) in the situation of observation data gaps (say, land and mountain areas).  Students are divided in some groups of three (3-4 groups): hydrologists, meteorologist (forecaster) and a site-helper (teacher). The teacher sets the same task (some minor tasks) for all the groups and monitors the groups working.  **Learners initial level of preparation** - Quite well prepared students (Masters, specialists in need of advanced training) |
| ***Roles of trainers*** *(how will you set up and guide the activity)*   * **Grouping** students in groups of three, * some separate desks at a distance one from another, for each group, * setting the task.   **Timing (can vary)** - 15 min for teacher's explanation,  - 45 min for the core activity,  - 30 min for discussion, comparison, assessment, feedback.  - Initial explanation, monitoring, guiding the after activity discussion, assessment, collecting feedback. |
| ***Supporting resources*** *(what data, instructions, technologies, instructional resources, etc. will be required)*  PC with the internet connection  <http://www.eumetsat.int/website/home/index.html>  <http://www.eumetcal.org/-Training-Resource-Library>  any supporting materials (lectures, manuals ...)  METOP/AVHRR data:algorithms, validation, snow maps,  LSA SAF products. FMI is responsible for this field, so we could use their data base (parameters, maps, satellite images etc.) |
| ***What is the primary thing you want students to learn?***  **Teaching goal** - Checking ability of the students how to use METOP product - snow cover detection over northern latitudes (>50deg) to fill observation data gaps:   * how to find snow free and snow covered regions on satellite image, * how to measure the water resource in the snow cover from this product, * how to make a map for users (hydrologists and other interested specialists),   **Learning goal** - Mastering how to use web resource under lack of observation data |
| ***How will you know if the activity was successful?***  It may be done by the teacher or peers. The rubrics are:  -how much has been done (by the teacher)  - the performance of the students within the activity (by the teacher)  - timing  - correctness (first, by the students, finally - by the teacher, who has to be an expert)  - clearness of presentation (by the teacher and the students)  - final result-a map with snow cover over the land and mountain areas  - feedback (usual questions) |
| ***Any additional notes you want to include.***  It is a new product and we also need to spread it not only between hydrometeorologists (in that case we can teach both meteorologists and hydrologists),  but also introduce emergency companies, other users how to prepare for spring (or winter) flood and put some information on internet site (for instance, on [www.meteo.lt](http://www.meteo.lt/))  It means we teach but also we learn:) |