CAPIRE-YOPP: an educational activity to bring students closer to meteorology in Antarctica

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Motivation

CAPIRE is the acronym of the Italian title of the project “Comprendere IA PrevIsione meteoRologica in antartidE sostenendo YOPP” - Understand Antarctic weather forecast sustaining YOPP.

Promote an educational activity, based on a concrete connection of high school students with researchers involved in YOPP.

Use data collected in Antarctica (and the corresponding interest of students for) as a strong base to build a wide educational activity, articulate in different way depending on the level of knowledge of involved students.

Approach

- include students over a wide range of ages and skills
- actively involve teachers in identify and develop tools to bring students closer to YOPP targets and topics
- provide a concrete contribution to YOPP goals and research activity
Participation/Involvement

7 schools
(1 primary)
(1 intermediate)
(5 high-school)

17 classes

18 school teachers

340 students

age from 10 to 16 years old

high-schools organized in 20+ groups

primary and intermediate individual work

3 meteorologists from meteo AM service with Antarctic experience

4 researchers from UNI Bicocca, CNR, ENEA

Year of Polar Prediction in the Southern Hemisphere (YOPP-SH#4)
Downtown Marriott Hotel, Charleston, June, 27-28, 2019, SC, USA
**Implementation**

**In Antarctica:**
- Support 30 extra-sounding with a well defined research strategy/target
- Personalize lunches involving the youngest students
- Meet by virtual meeting people on field and dialogue with them

**In Italy:**
- Organize a lunching event (November 27)
- Organize the work to personalize lunching (best drawing competition)
- Connect with people on field (January 14)
- January to April organize seminars and visits to AM operation center in Milan (Linate) as well as to the ICE core laboratory in UNI Bicocca.
- Develop home work at individual or group level along classes
- Organize a final event where to reward the best products and leave a reminder to all students
#VOLARE #BEYOND in Antartide... con i palloni sonda

Contatto con la Base Italiana in Antartide "MARIO ZUCHELLI"

Meteorologo per un giorno... dal mare alle nubi

27/11/2018

Giornata per il volo 2019

CAPIRE – YOPP
3 Giugno 2019 - ore 14:30
Università di Milano Bicocca
UdA - Aula Sironi
Piazza della Scienza, Milano

Programma

14:30 – Saluto iniziale – Magnifico Rettore / Direttore Dip. Fisica
14:40 – Le attività del programma CAPIRE-YOPP – M. Gervasi
14:50 – Il PRRA e le attività di YOPP – V. Vitale
15:00 – Il sistema di monitoraggio atmosferico in Antartide – P. Grigioni (TBC)
15:10 – Le previsioni meteo in Antartide e i sondaggi di A.M. – (A M.)
15:20 – Presentazioni scuole:
   Scuola Media Fermi – Villasanta
   Liceo Scientifico Bonfi – Vimercate
   Liceo Scientifico Versari – Cesano Maderno
   Liceo Scientifico Enriquez – Lissone
16:00 – Premiazione scuole
16:20 – Saluto finale – Gen. Frigerio (TBC)
16:30 – Rinfresco
Tools to keep engaged

- Events and connection with Antarctica
- Visits laboratories and meteo operational centers
- Classical seminars with different content/scope depending from student age
- Drowing competition (winners on sounding balloons)
- Compose small poems on meteorology
- Create artistic products (for example dioramas) or technical (orthogonal projections)
- Relize multi-media products
- Analyze data and present results

Starting ideas proposed on the base of the long experience of a successfull activity developed in Bologna – LINGUAGGIO DELLA RICERCA - http://www.bo.cnr.it/linguaggiodellaricerca/

Ideas in any case further developed and enriched by Teachers
Tools to keep engaged
SPUMOSA

Maestosa,
ma delicata
si tuffa nel cielo
decorandolo con mille batuffoli,
come se lo governasse lei.

Candida,
si arrotola
con mille capriole
spumeggianti,
illuminata dal sole.
SERENITÀ'

In un cielo fatto di nuvole,
all'improvviso compare uno spazio vuoto:
c'è tanta luce e questo mi porta serenità.

Kevin Russo  I B
L’ADDIO DEL GIORNO
Nuvole velate di rosa, volteggiano nell’aria, rallegrando la città, che sta quasi per andare a dormire.

Nuvole simili a zucchero filato, morbide e spumose.

Nuvole che danno senso di libertà e di sfogo, per l’anima inquieta di ogni uomo.

Maestose ed eleganti, date l’addio al sole, che sta per andarsene.
Tools to keep engaged

luching winners of the drowing competition
Legacy – A memory of participation

To any participant, students, teachers, Meterologists a memory of the project.

To competition winners (about 50) a copy of

Legacy – A memory of participation

To any participant, students, teachers, Meterologists a memory of the project.

To competition winners (about 50) a copy of
Legacy - Communication

https://volarebeyondyopp.blogspot.com/


photos and video
Thank you for your attention