THE GHIS PROJECT IN LATINA (ITALY)

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Abstract

The International Space Station (ISS) provides a permanent human presence in space. To survive long duration space missions, astronauts have to produce fresh food by developing special greenhouses on board. European students aged 12-14 years old were invited to take part in an experiment with the Italian astronaut Paolo Nespoli to examine the effects of ISS weightless environment on the life cycle of a plant. Starting on 17 February 2011, pupils at the Scientific High School GB Grassi in Latina grew plants seed to seed in ESA specially designed greenhouses and compared their results on earth with regular updates from the ISS. The 2011 ESA-HSF education project Greenhouse in Space (GHIS) has been surprisingly stimulating for students.

Paper

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The 2011 ESA-HSF education project Greenhouse in Space (GHIS) carried out in Latina has been surprisingly stimulating for our students.
Acknowledgement

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References

ESA page on GHIS: www.esa.int/SPECIALS/magisstra/index.html
ESRIN video on GHIS: http://download.esa.int/wmv/GreenhouseinSpace.wmv
Facebook page on GHIS: www.esa.int/esaCP/SEMOK6HSBKGI_taly_0.html
HSF page on GHIS: www.esa.int/esaHS/SEMBGZ4PVFG_education_0.html
Liceo Scientifico Statale “G.B. Grassi” archives: the 2011 GHIS in Latina
Rai TV video archives: Paolo Nespoli from the ISS
Space TV video archives: the Greenhouse in space education project