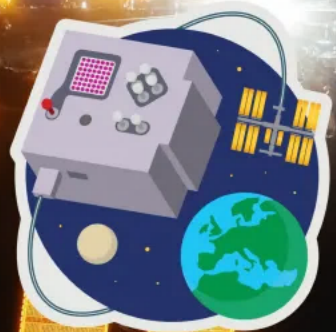


ALESSI PI

**ASTRO PI PROJECT – MISSION SPACE LAB
LICEO SCIENTIFICO “G. ALESSI”
PERUGIA, ITALY**



ASTRO PI



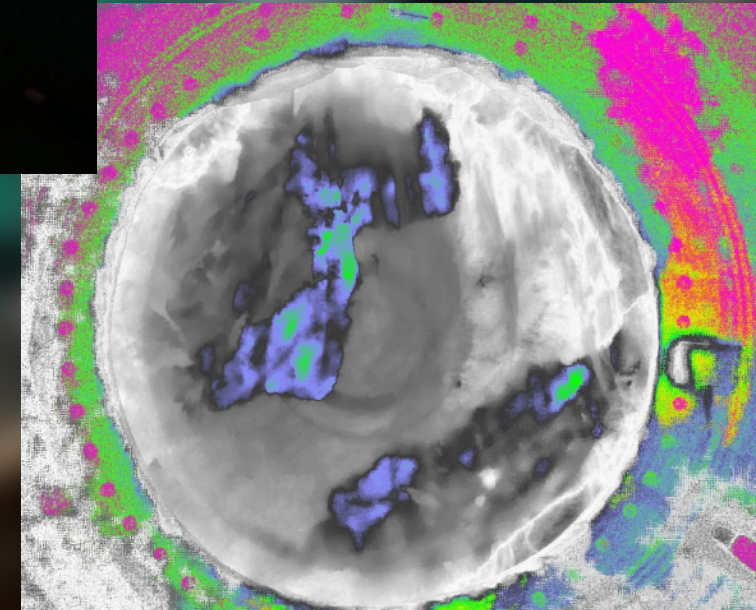
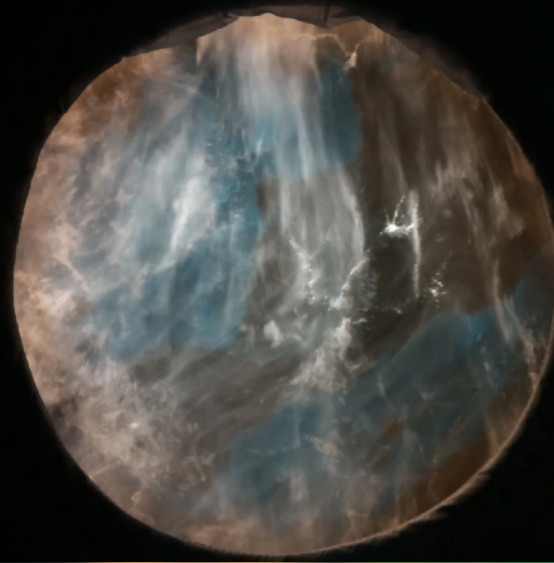


CHI SIAMO?



I DATI RICEVUTI

Una volta ricevuti i dati e le foto dall'ISS, li abbiamo visionati, scartato le foto che non potevano essere utilizzate e analizzato gli indici NDVI.





LA TRACCIA MUSICALE

Il valore dell'NDVI è stato utilizzato per creare una melodia su scala pentatonica (ogni volta che il valore aumenta si alza anche la nota), la latitudine è associata al basso, mentre i dati di pitch e roll sono stati utilizzati per il volume della cassa e del rullante, infine il charleston è generato dall'imbardata sul canale sinistro e dai dati della bussola sul canale destro.

```
1 from sys import *
2 from threading import *
3 import csv, pathlib, time
4 import sys, random, math
5 # Import the name of the output file of the track
6 # Set the name of the output file
7 # Here starts the program
8 # File path is Path('file_') with name 'data.csv'
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```

Find out more on

RISULTATO



Dopo la creazione della traccia musicale, attraverso Google Earth Studio abbiamo ricreato il percorso effettuato dall'ISS, anche grazie ai dati EXIF contenuti nelle immagini.