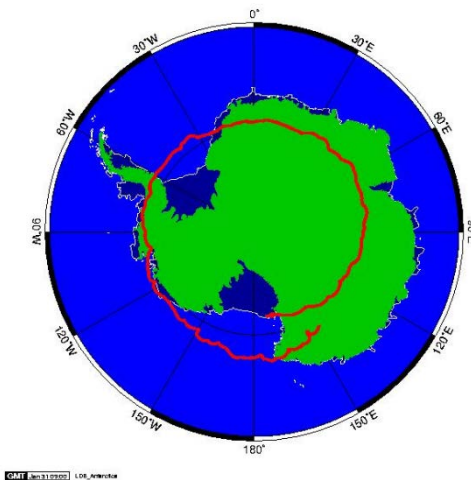


The BALBOA project of EPSS/UCLA is looking for a graduate student of electrical and computer engineering. The candidate should have a good working knowledge of Python and C++ programming. Familiarity and mastery of the following:

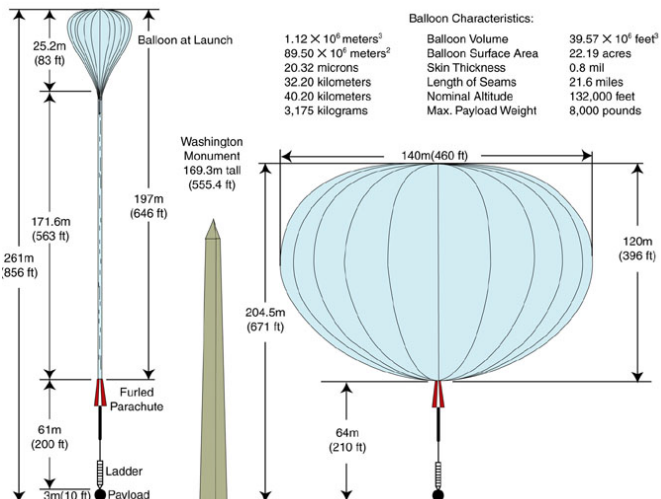
- Routines for image processing, serial communication, start/stop video recording, time/GPS stamp video frame, and auto-exposure time
- Implementation of computer watch dog
- Monitor telemetry inside pressure vessel (pressure and temperature)
- Hardware/Software Integration and testing

We seek candidates who have an interest in flight electronics hardware and software. The candidate is expected to have good communication skills, the ability and desire to work independently and as part of a multi-disciplinary team, and a willingness to expand into new fields. The duration is one year with reviews, and salary will follow standards for GSR. The application requires a cover letter, the contact information of three references, and a CV. Review of applications will be upon receiving and continue until the position is filled. The preferred start date is immediate.

Applications and questions should be addressed to Dr. Xiaoyan Zhou at xyzhou@igpp.ucla.edu, who is the project principal investigator and has been dedicated to auroral science for 20 years. The BALBOA project is the first-ever dedicated balloon mission for imaging auroral under the Sun to investigate the solar wind-magnetosphere-ionosphere coupling. The enclosed figures provide a brief view of NASA balloons for interested applicants.



An example of the trajectory of a NASA balloon flight over Antarctica



An example of NASA balloon characteristics