

CosmCAM

What

is



- **CosmoCam** is an internet interactive video camera system designed for use onboard satellites and stratospheric balloon missions.
- **CosmoCam** is a tool for both inflight monitoring of payload deployment and educational/public outreach.

CosmoCam support...

CosmoCam has been an unofficial collaboration between RSI and other organizations:

- **Exploration of the Universe Division at Goddard Space Flight Center**
- **NASA Balloon Program Office**
- **Columbia Scientific Balloon Facility, Palestine TX- provided field support including launch and recovery support**
- **Sponsors- a number of companies provided in-kind support such as COTS components and GSE operations hardware**

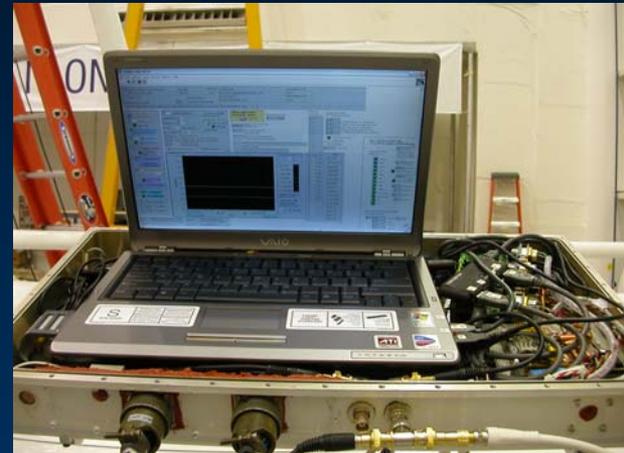
Who's Who with CosmoCam

- **Rocket Science, Inc.**
 - **Scott Murphy**
- ❖ **NASA Goddard**
 - **Norman Dobson, Software and Electrical**
 - **Dave Sheppard, Electrical**
 - **Louis Barbier**
- ❖ **Columbia Scientific Balloon Facility**
 - **Danny Ball**
 - **Bryan Stilwell**
 - **Chris Field**
 - **Jeff McDonald**
 - **Whole Electronics Section**
- ❖ **NASA Balloon Program Office**
 - **Dave Pierce**
 - **David Gregory**
- ❖ **Sponsors**
 - **Sony**
 - **Sprint/Nextel**
 - **Akamai**
 - **Others...**



Some facts and figures...

- **Flown on 6 Strato-balloon missions- more scheduled this year**
- **All COTS construction**
 - **Flight Equipment from Sponsors, Ebay, Radio Shack, Desk drawers**
 - **GSE computers from Sony**



- **Shown on Comcast.net's "The Fan"...and YouTube**
 - **~50,000 video views so far!**
- **Part of flight infrastructure for Louisiana State University's High Altitude Student Payload (HASP)**

CosmoCam's Internet Experience

- **CosmoCam operated through website:**

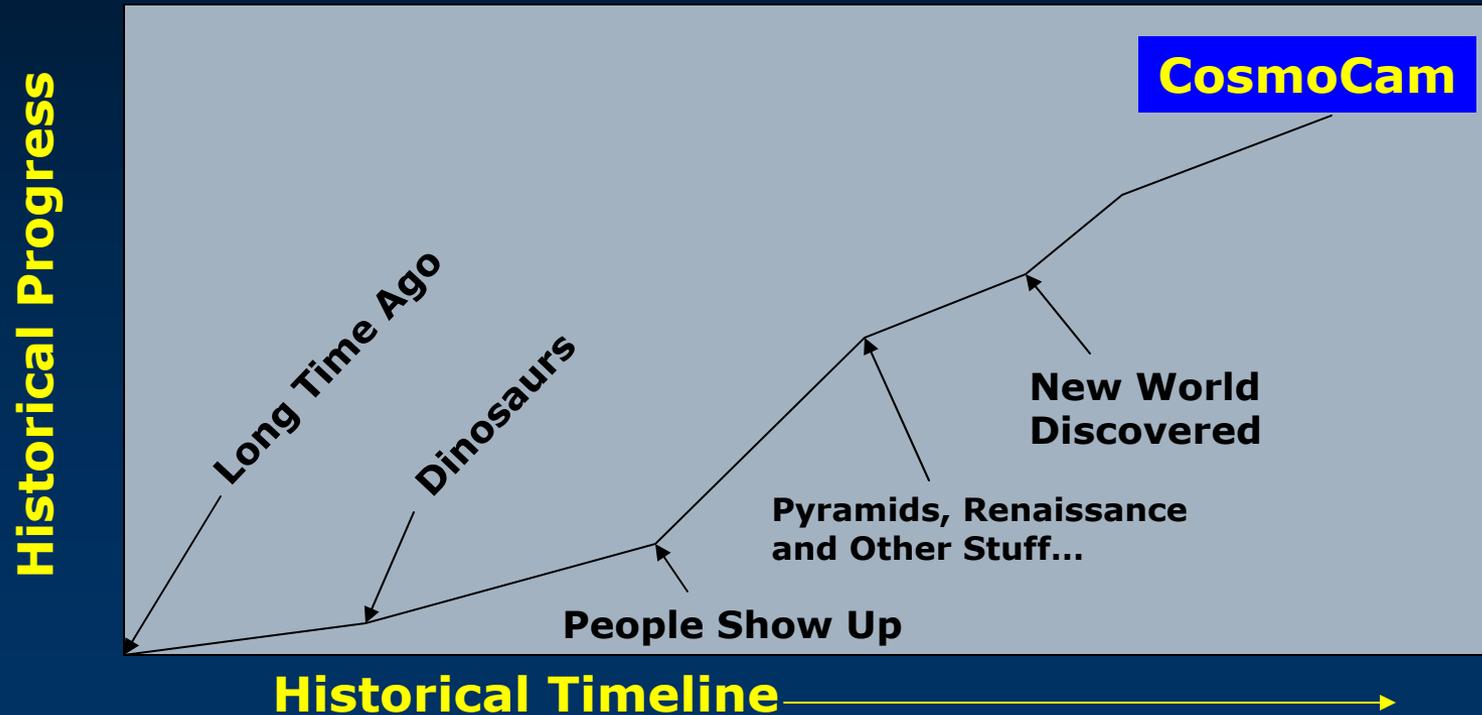
WWW.COSMOCAM.COM

- **Anyone from Anywhere can Go Live!**
- **Graphical User Interface (GUI)-** includes video window, controls, and flight data
- **New GUI with dynamic features-** live chat room, data graphing, more!
- **Multi-Client capability-** allows geographically diverse team members to monitor and discuss in-flight activities in real-time.

Beneficial Partnerships...

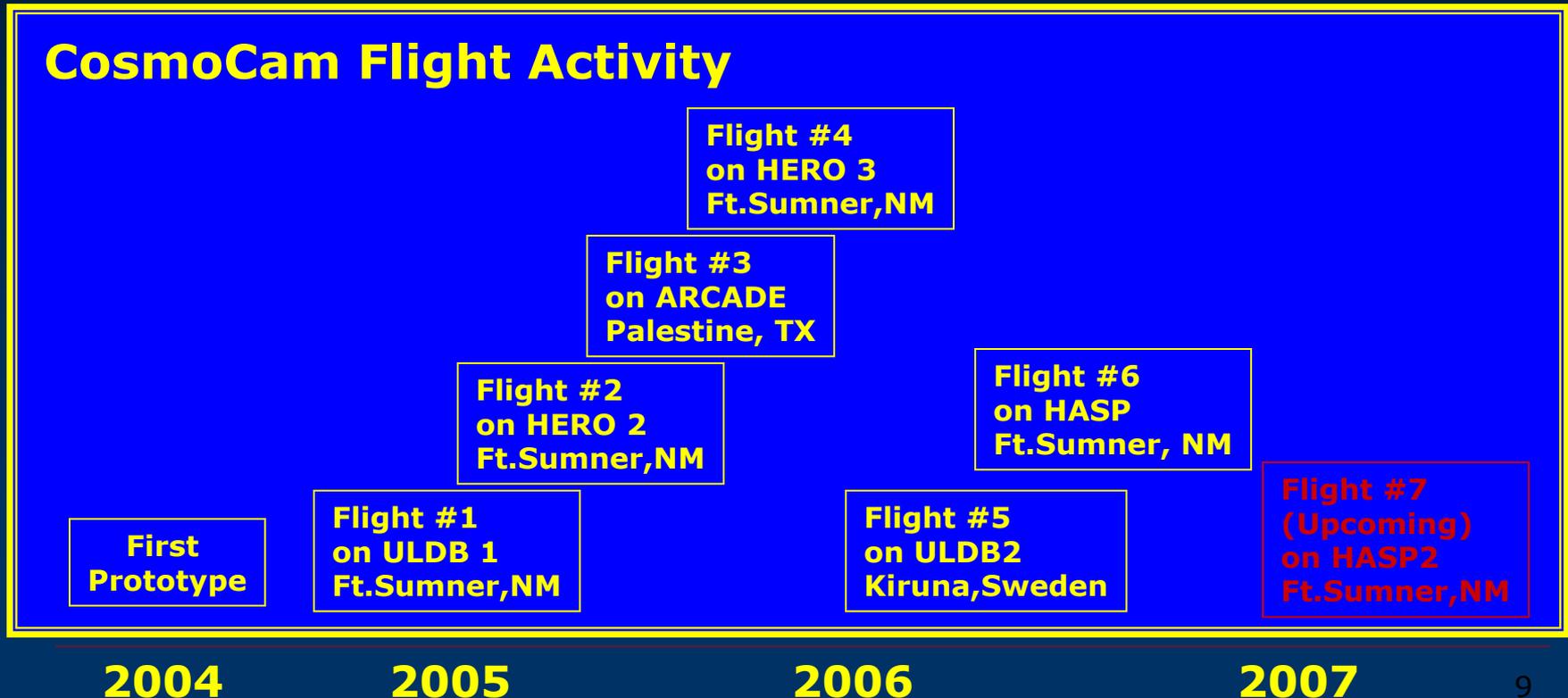
- **Payload Team**
 - Inflight monitoring of Payload
 - Education and Public Outreach
- **Balloon Program**
 - Inflight monitoring of Payload and Flight Equipment
 - Public Outreach
 - Minimal investment
- **Public**
 - Gets exposure to relatively unknown NASA endeavor
 - Participates in near spaceflight...live!
- **CosmoCam**
 - Ready made launch platforms
 - Low cost access to Balloon "laboratory"
 - PR exposure

CosmoCam's History-Part 1



CosmoCam's History-Part 2

- Originally conceived for spaceflight around 2001
- Balloon experience made piggybacking a developmental step





CosmoCam's View...



CosmoCam's Future...

- **Continue LSU/HASP collaboration**
- **More Balloon missions...**
 - **Multiple Balloon flights per campaign**
 - **NASA Balloon Program Office**
 - **University PI**
- **Spaceflight?**
 - **Utilize Balloon program for spaceflight development**
 - **Bridge University sub-orbital with orbital programs**
 - **Other NASA or Commercial space activities**

Guestbook Comments for CosmoCam

The following comments were entered in the CosmoCam.com guestbook. There were many more like them. They are presented here unedited.

■ "I think that our Nasa program is the best in the world.I am proud that we have the resources and the mind's that can do these kind of missions.goodluck and "GOD BLESS THE USA"..."-Charles Ray Sanner

■ "Hi,my dream was to always be apart of space in which I feel we all are in one way or another. I live for the stars, galaxies, space and the universe, it's always been my hopes, dreams,and my life to be able to access even a little part of the universe. Thank you for letting me try to be a part of the CosmoCam."
-Dorthea Shye

■ "Holy crap!!!! I got so excited i spilled my drink on the keyboard and had to take it apart and clean the thing out. working better now. Hope i get to take part in the next flight." -Kurt Ferdinand

■ "I realy love the cosmo camera i am a big fan of space i am realy interested in those kind of staff and i hope i be someday working in nasa everyday i watch discovery science i am 13 years old and its my plesure to thank you for this kind of super thing - Thank you" -Lukasz Minklejn [Poland]

■ "I truly look forward to seeing CosmoCam TAKE OFF !!! As an amateur stargazer I love taking my Meade ETX 90-EC to the outer limits, and to do this from my pc with CosmoCam would truly be an incredible journey that until recently I only DREAMED POSSIBLE !!! I am counting the days with great anticipation !!! God's speed and good luck with this mission, Shawn" -Shawn A. Beaupre

■ "I think this is truly amazing. To allow the general public to become a part of this awesome experience is so greatly appreciated. Thank You so very much!" -Amy Nicole Sturgeon

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