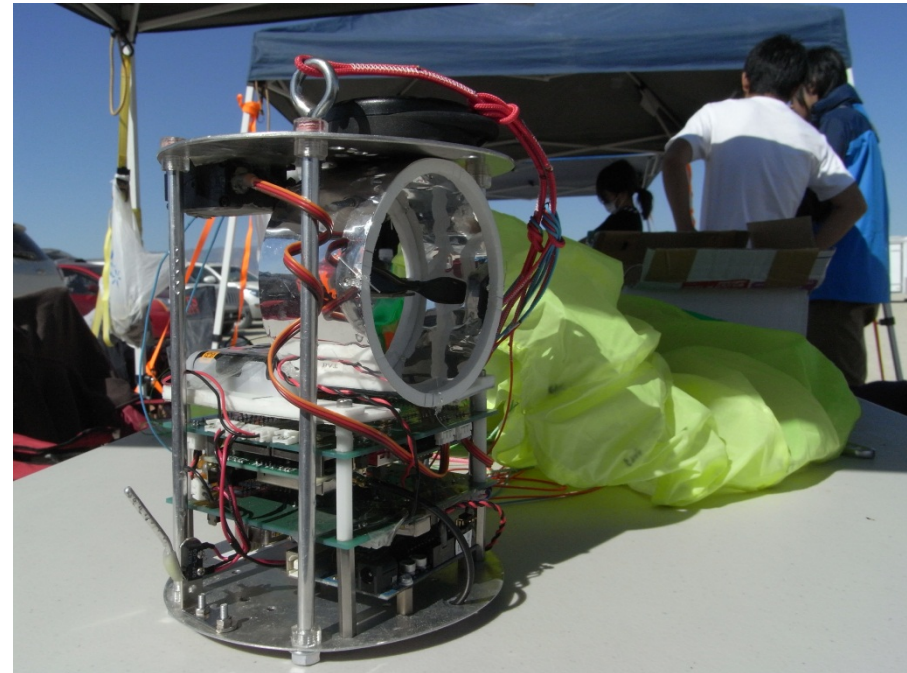


# Tokyo Metropolitan University

# **SSL WIND**

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Arliss2011 Mission result



# About Our CanSat

Our CanSat is parafoil type to do the come back flight.

We aimed to land within 2.5 km radius from the target.  
It is our laboratory's record last year.

It has wind anemometer to get wind velocity above  
*Black Rock Desert* .

The come back flight is very affected by wind.  
Many teams want to know how strong wind is at Black Rock.

# Trouble !!

We wanted the fastest flight at first day to report wind velocity other teams.

But we faced the trouble!!

Wind anemometer got out of order.  
We have never got this case at many tests in Japan.

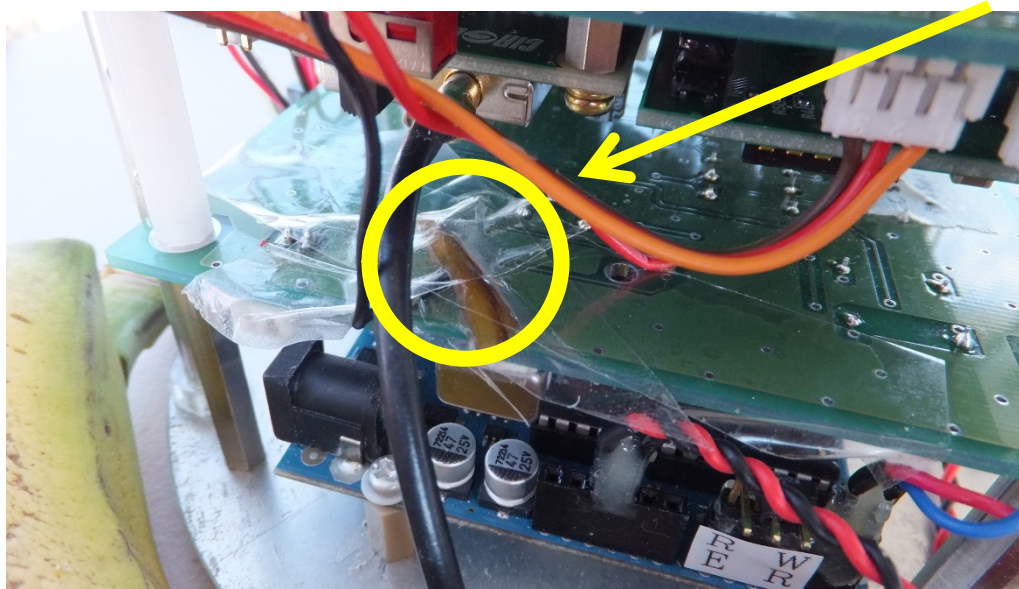
So, first day's flight was canceled for repairing.

Tried Soldering, Alternate resistor and so on.

# First flight at second day

And we found!!

CanSat got repaired by putting banana's peel.



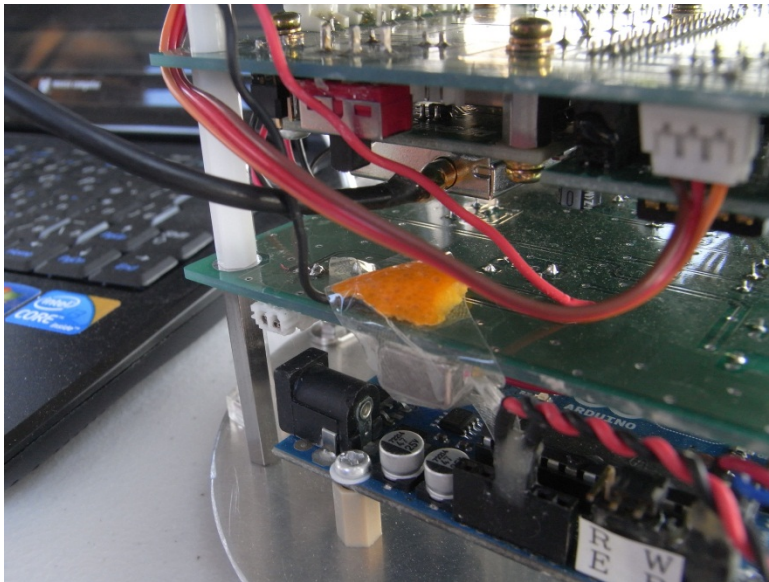
Why did CanSat become good condition again?

We don't know reason.

Banana Sat went to about 3km above.  
But we couldn't get enough data at this flight and come back mission was failed.

## Second flight at forth day

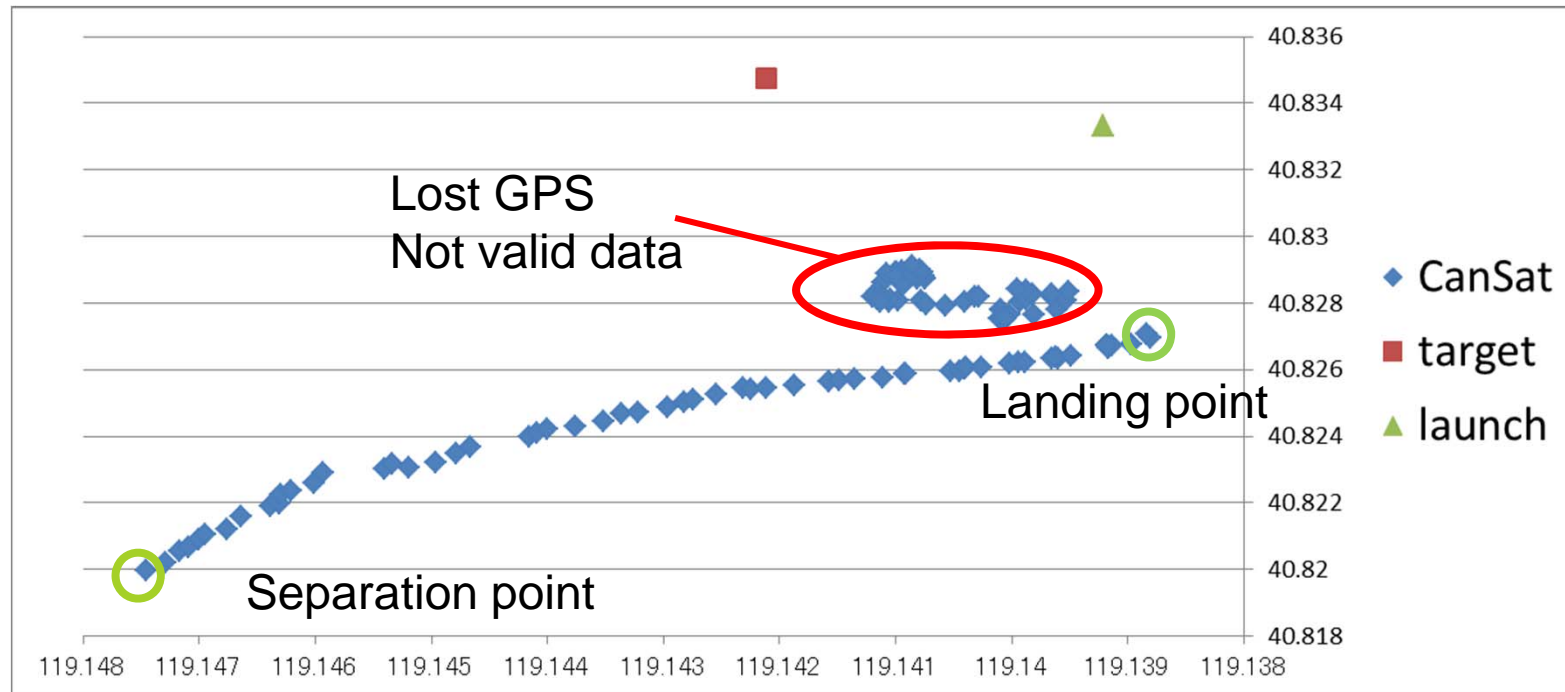
In second flight, orange's peel was used.



Orange Sat flied **successfully!!**

It was able to get wind anemometer data and land within 820m with saving control record

## CanSat trajectory



## Wind anemometer data

### **Under analyzing**

Orange peel made anemometer voltage value changed.  
We must check detail after going back to Japan.



Peter & Allen are our flyers.



We could get success because of their kindness.  
Thank you very much!!