



板橋氣象站探空儀飛行軌 季節差異與掉落點分析

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Met Office apologises after weather balloon crashes into conservatory

It angered millions by wrongly predicting a “barbecue summer” last year, before helping to close British airspace for a week due to the Icelandic volcano ash cloud.

By Jon Swaine
7:30AM BST 21 Jun 2010

Now the Met Office has been forced to apologise to members of the public whose windows were smashed when its weather balloons fell out of the sky.

Figures released under Freedom of Information laws disclose that the publicly-owned forecaster has paid out more than £25,000 in compensation since October 2007.

This included bills for the damage caused when three of its weather balloons separately crashed into a car window, a conservatory and some overhead power lines.

Thousands more were paid out after Met Office staff were involved in road accidents.

UK News
News »
How about that? »

In UK News



• 板橋氣象站探空資料

2011/01~2014/12 Vaisala RS-92

2015/10~2018/12 Vaisala RS-41

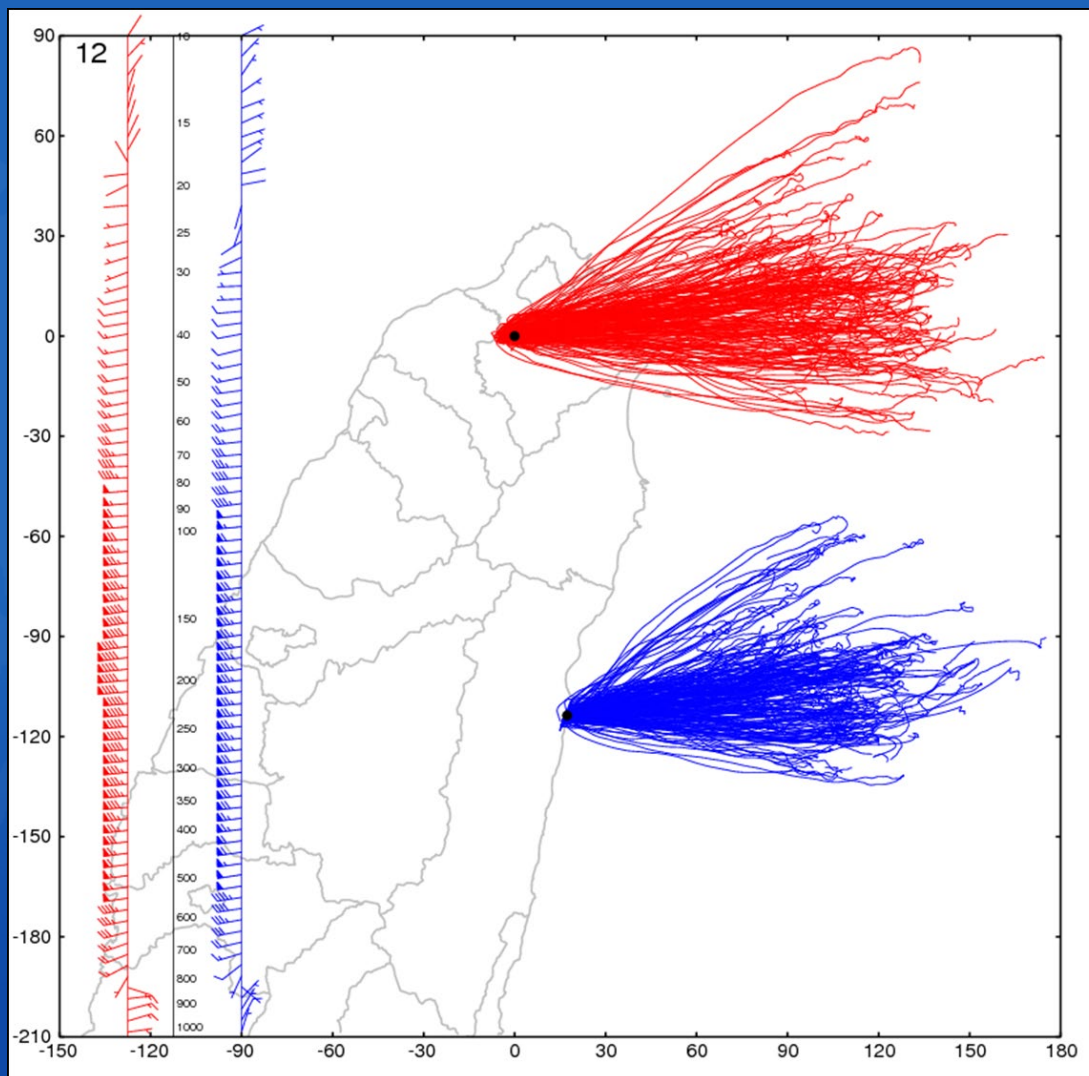


• 板橋 花蓮探空資料

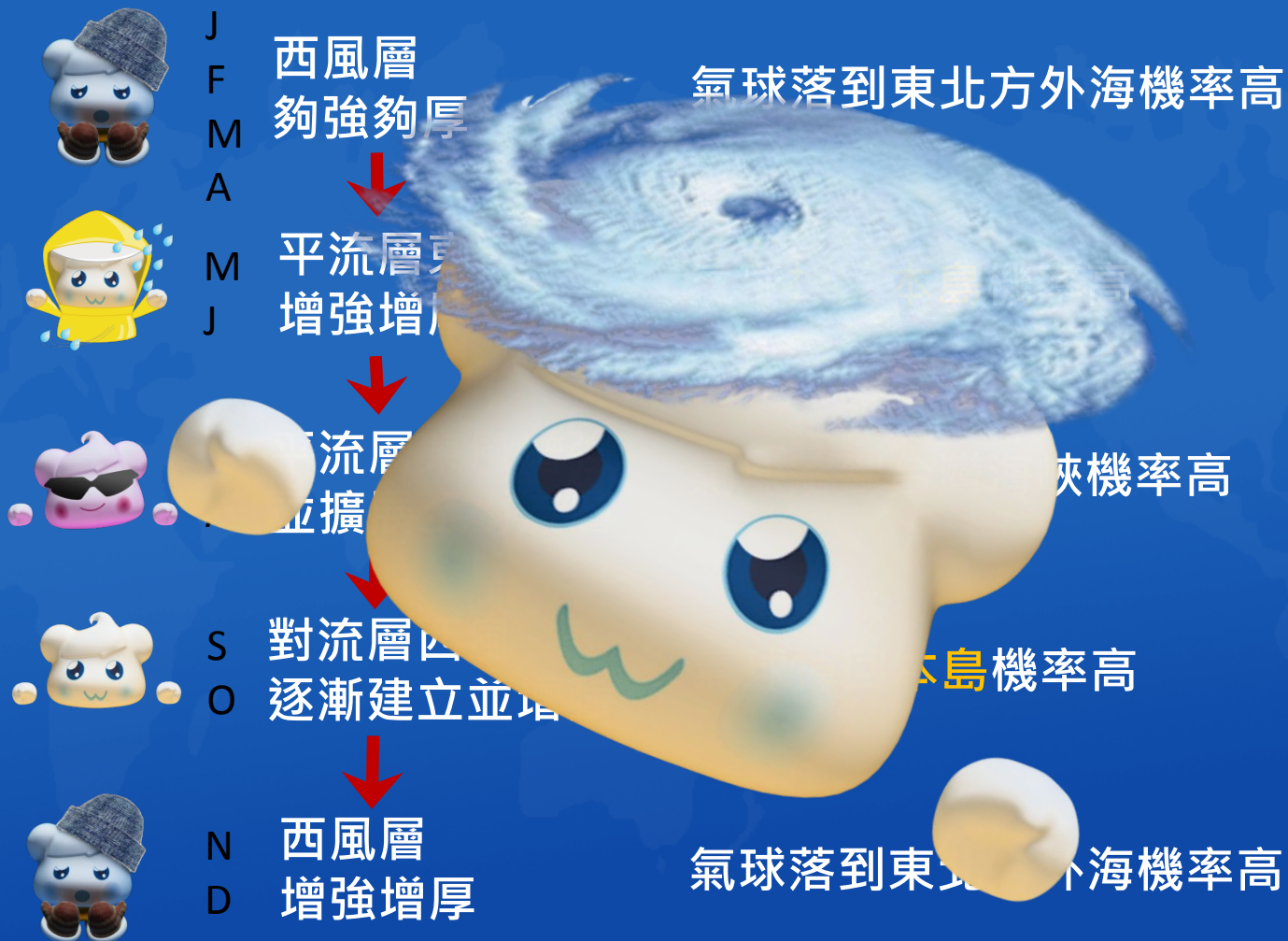
板橋探空儀於 5、6、10月易掉回本島

7/15~30 Vaisala RS-92

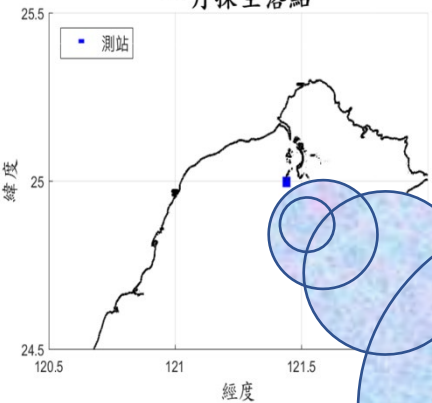
環境風場統計 (劉與黃, 104)



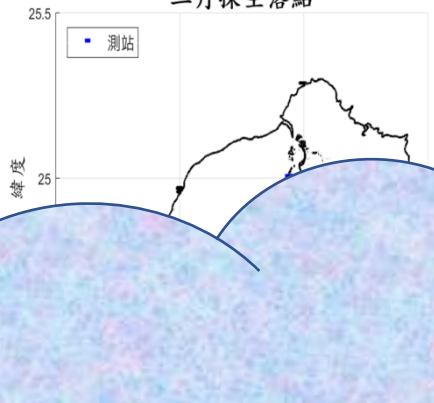
環境風場統計分析



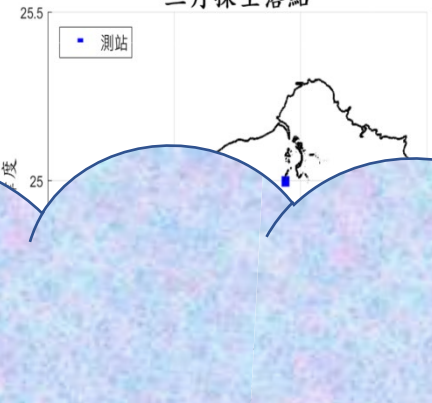
一月探空落點



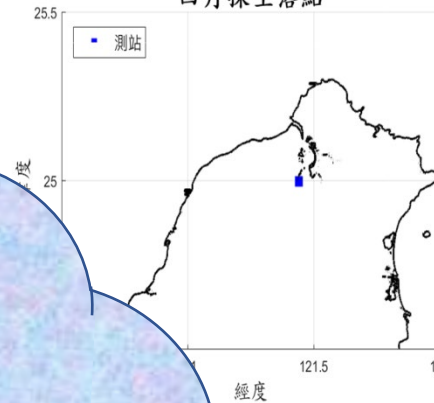
二月探空落點



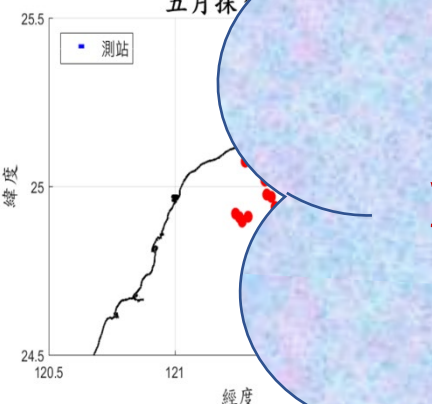
三月探空落點



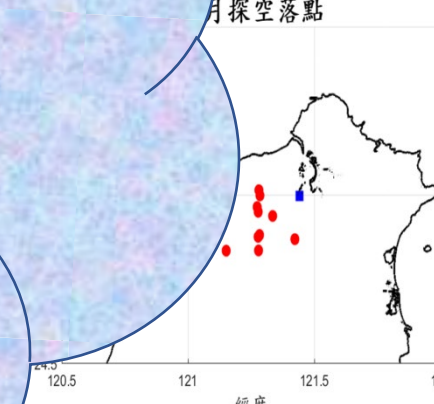
四月探空落點



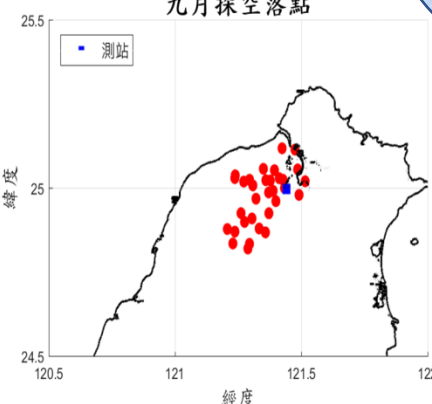
五月探空落點



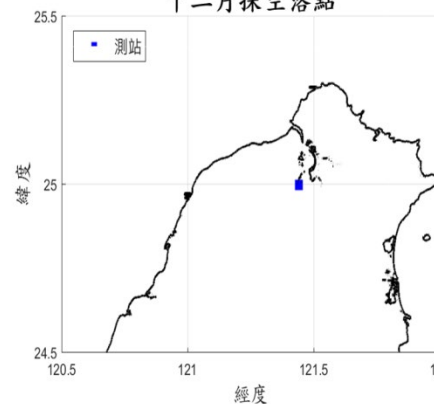
六月探空落點



九月探空落點

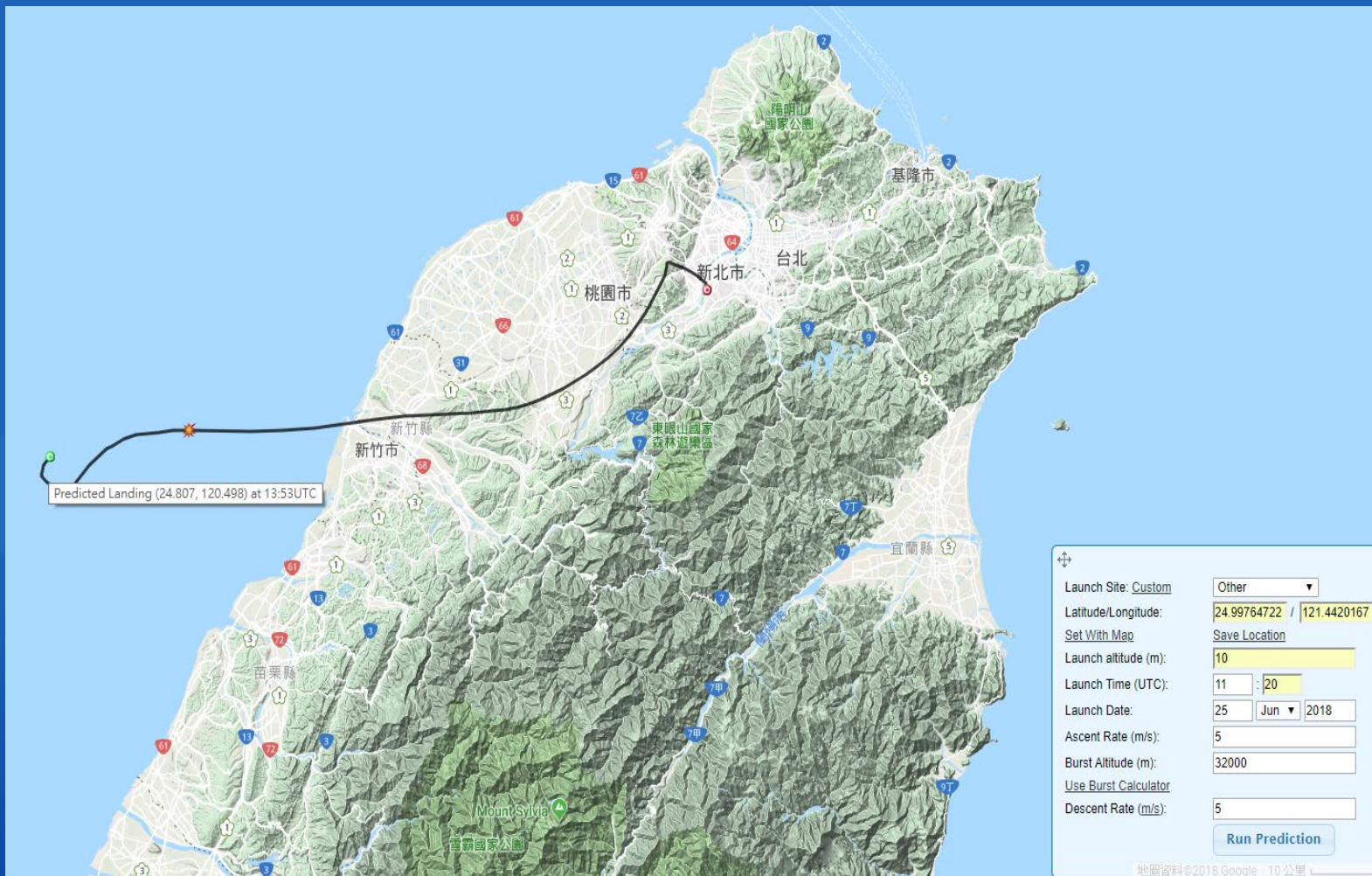


十二月探空落點



流程變更之決策標準？
 預測工具其誤差忍受度？

輔助決策工具



CUSF 測試



Launch Site: Custom

Other ▼

Latitude/Longitude:

24.99764 / 121.4420

Set With Map

Save Location

Launch altitude (m):

10

Launch Time (UTC):

11 : 30

Launch Date:

10 May ▼ 2019

Ascent Rate (m/s):

5

Burst Altitude (m):

30000

Use Burst Calculator

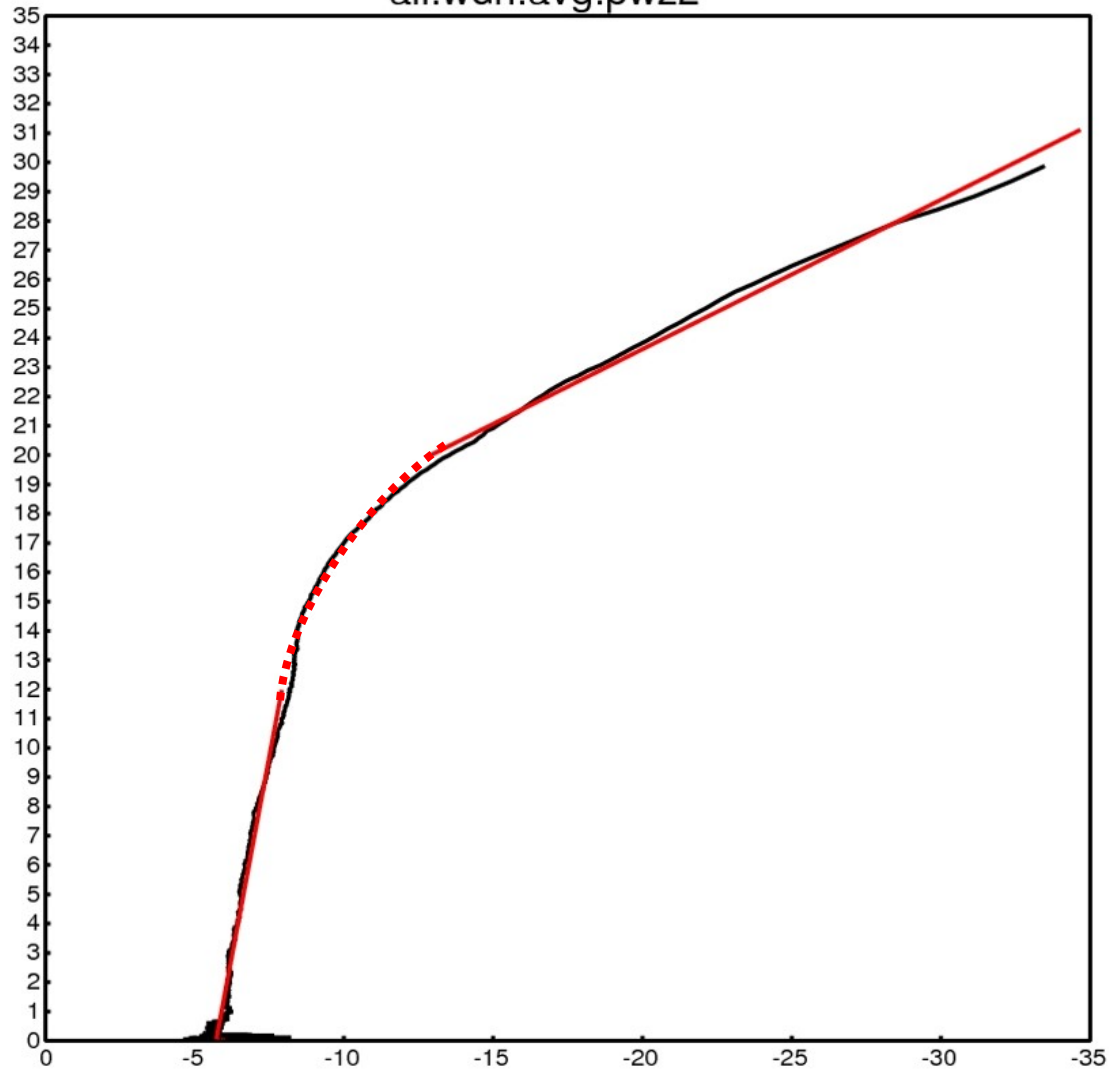
Descent Rate (m/s):

5

Run Prediction



all.wdn.avg.pwz2





春季過後應觀察平流層東風增強增厚的時機
盛夏過後則是留意對流層西風建立的狀況



利用探空儀掉回本島的不同背景條件而採取
相應之解決方案→開發決策輔助工具



擬合落速曲線仍須進一步驗證用以開發
決策輔助工具與落點即時預測程式



篩選出掉回本島個案
研究其背景環境並分類之



擬合落速比對(P、Z、統計值)
找出較合適之落速以帶入落點預測程式



事先預測落點並採取因應措施
即時落點預測作業化



微波輻射儀、衛星觀測資料技術成熟



謝謝指導

