

大氣熱力學

作業繳交規定、CA1說明

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作業繳交規定

- CA:
 - NTU COOL 線上繳交
 - 公布後下週三23:59
- HW:
 - 實體紙本繳交
 - 公布後下週上課時間繳交（課後助教離開教室前）
- 繳交期限過後24 hr內打八折，48 hr內打六折，後以零分計算。

評分標準

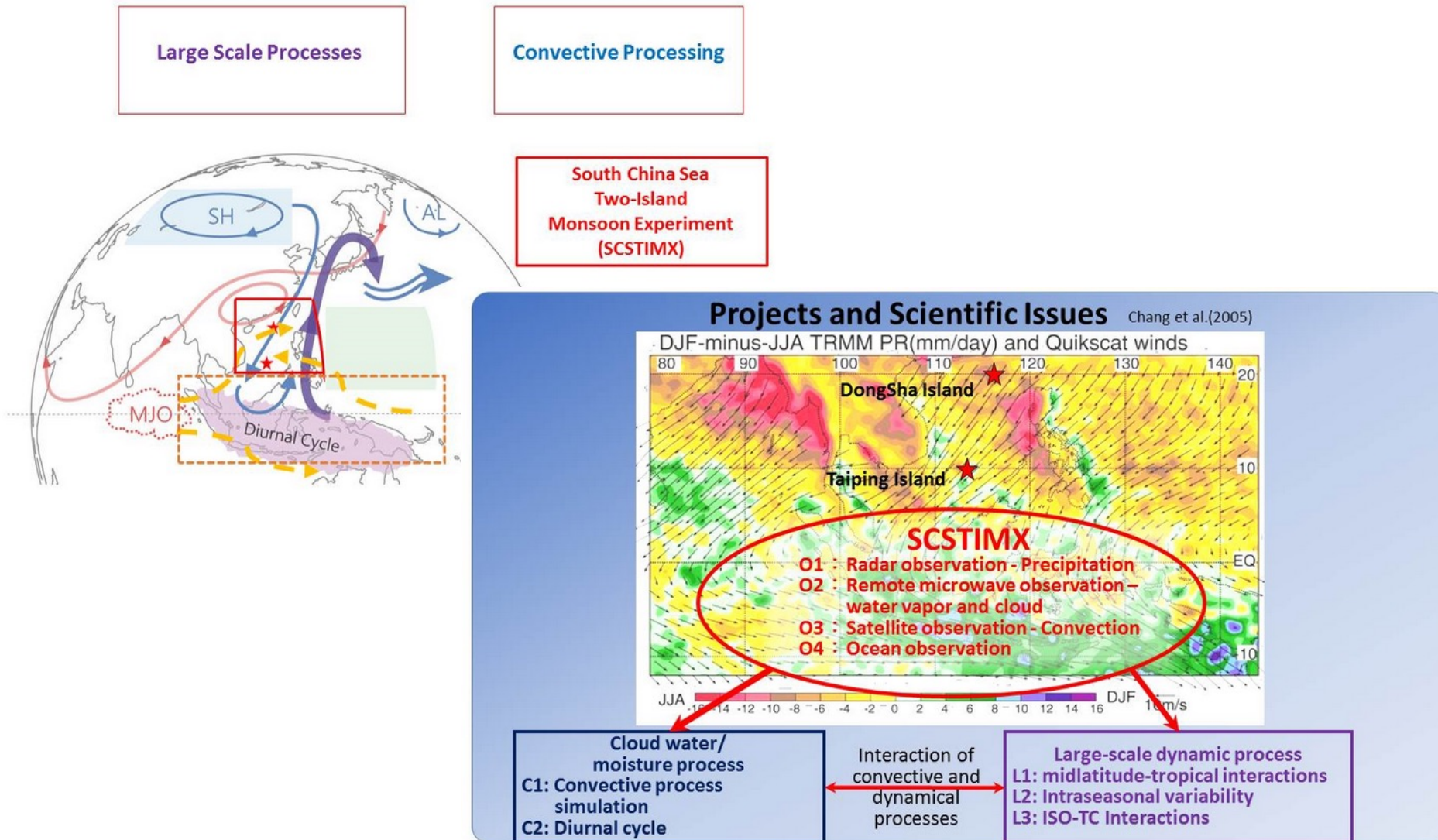
- 評分以圖與討論（中文、英文均可）為主
- 題目若無特別說明，均無需附程式碼
- 圖片保持清楚，單位、圖中文字請標明。造成助教閱讀困難酌量扣分。

Class Activity 1

- Please plot the vertical profiles of temperature and relative humidity in both height and pressure coordinates and discuss the difference and any interesting features in your figures.

Class Activity 1 – 資料説明

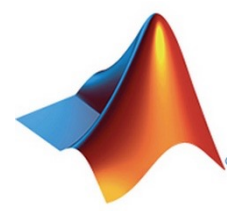
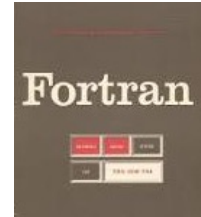
SCSMITX 2018 sounding data



Class Activity 1 – 資料說明

SCSMITX 2018 sounding data

- 如何打開檔案?



- 打開之後如下：

```
Start time: 27/08/2018 23:37:24
```

Time	Height	P	T	U	WS	WD	Ascent
0.0,	4,	1004.5,	25.5,	96.0,	6.5,	210.0,	0
1.4,	19,	1002.8,	25.9,	95.7,	6.6,	201.7,	654
2.4,	21,	1002.6,	26.0,	95.1,	6.9,	199.8,	106
3.4,	22,	1002.5,	26.0,	94.2,	7.3,	199.7,	72
4.4,	25,	1002.2,	26.0,	93.5,	7.8,	200.3,	163
5.4,	27,	1001.9,	26.0,	93.1,	8.3,	201.1,	159
6.4,	30,	1001.3,	26.0,	92.9,	8.8,	201.7,	167
7.4,	34,	1000.9,	26.0,	92.9,	9.2,	202.3,	222
8.4,	40,	1000.5,	26.0,	93.1,	9.6,	202.7,	357
9.4,	44,	1000.0,	25.9,	93.3,	10.0,	203.2,	231
10.4,	47,	999.5,	25.9,	93.7,	10.4,	203.6,	200
11.4,	54,	999.1,	25.9,	94.1,	10.8,	204.0,	410
12.4,	57,	998.6,	25.8,	94.1,	11.1,	204.4,	193
13.4,	60,	998.2,	25.8,	93.9,	11.4,	204.7,	193
14.4,	64,	997.7,	25.7,	94.0,	11.7,	205.0,	224
15.4,	68,	997.3,	25.7,	94.4,	11.9,	205.3,	217

Class Activity 1 – 資料説明

SCSMITX 2018 sounding data

Start time: 27/08/2018 23:37:24

Time	Height	P	T	U	WS	WD	Ascent
0.0,	4,	1004.5,	25.5,	96.0,	6.5,	210.0,	0
1.4,	19,	1002.3,	25.9,	95.7,	6.6,	201.7,	654
2.4,	21,	1002.6,	26.0,	95.1,	6.9,	199.8,	106
3.4,	22,	1002.5,	26.0,	94.2,	7.3,	199.7,	72
4.4,	25,	1002.2,	26.0,	93.5,	7.8,	200.3,	163

Altitude
[m]

Pressure
[hPa]

Temperature
[°C]

Relative Humidity
[%]

Wind Speed
[m/s]

Wind Direction
[°]

Ascent Speed
[m]

Class Activity 1

- 檔案位置：
<https://drive.google.com/drive/folders/1ha5h-7-gNpheWjrPCKg2fdyGm990aQ2q>
- 資料分配：
<https://www.dropbox.com/s/pq6sxlegivqc3wu/%E5%AD%B8%E7%94%9F%E5%90%8D%E5%86%8A%E8%88%87data.xlsx?dl=0>