

Instruction Worksheet Case study: Genesis

1. Getting started: systems and briefing

1.2 Open a web browser:

1.3 Identify a potential circulation in the Pacific:

Location: _____

2. Analysis of broadscale pattern

2.1 Tropical Waves

Q. What is the status of the MJO?

Are there any other tropical waves evident that might influence development in this area?

What does this mean for development potential

2.2 Broadscale pattern

View the appropriate information to gain an understanding of the broadscale environment.

Q. Describe the low level, mid-upper environment (inc. shear and RH), ocean patterns.

What are the main synoptic features that might influence the cyclone/potential cyclone?

3. Circulation

3.1 Imagery

Q. Describe convective patterns in the area (amount, persistence, organisation and rotation). What does scatterometry show?

Is the circulation developing/weakening and at what rate?

3.2 Official policy and NWP

Q. How does the official policy compare with your assessment?

Q. Advanced option: What does NWP suggest?

What likelihood would you give for this circulation to reach TC intensity (probability and Low/Moderate/High chance)?

3.2 Outlook

Q. Advanced option:

What does NWP suggest?

What likelihood would you give for this circulation to reach TC intensity (probability and Low/Moderate/High chance)?

4. Learnings

What have you learned from this exercise?
