



Mounting an unconventional challenge to the forces of nature

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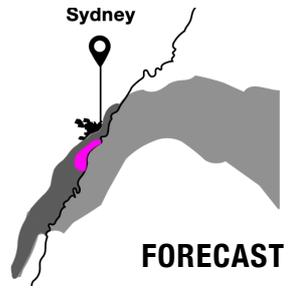
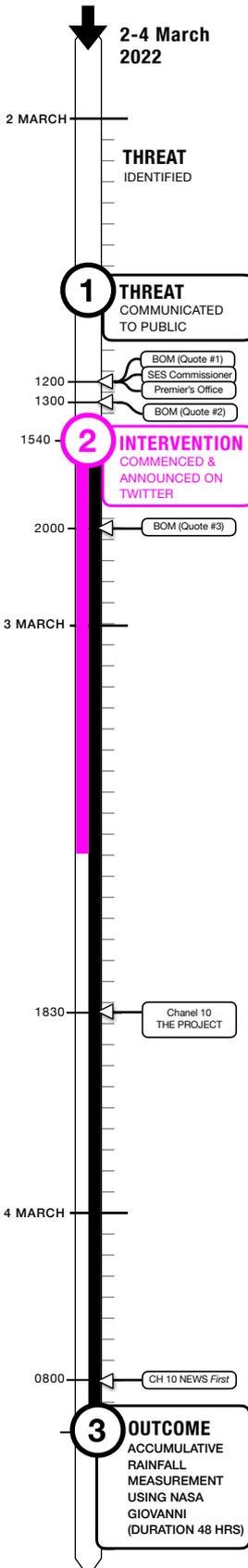
FLOODING RAINFALL - 220302/01FR

2-3 March 2022

EMERGENCY INTERVENTION

CLIENT	Humanitarian demonstrator		
TARGET / ASSET	Sydney, NSW (Population 5.312 million (2019))		
THREAT	Potentially life-threatening flooding caused by intense / extreme rainfall		
ANNOUNCED	BOM, SES, Premier's Office		
INTERVENTION	Miles Research undertook to downgrade the rainfall [event] for greater Sydney & east coast NSW.		
COMMENCED	15:40 02/03/2022 AEST		
OUTCOME	Forecast Flooding Rainfall failed to materialise 03/03/2022		
		AREA OF INTEREST	

TIMELINE



ABOVE: Bureau of Meteorology (BOM) forecast rainfall charted to show > 100mm rainfall reaching Sydney. Communications related to this official threat, the Miles Research publicly logged intervention, and the event outcome (detailed below), are referenced chronologically in the timeline (left). ABOVE RIGHT: Outcome born out by both BOM Data and NASA Giovanni satellite precipitation estimate, demonstrates significant deviation from forecast.



1 THREAT

BOM (Quote #1): "We could see widespread 50 to 150 millimetres in this part of the world, with isolated totals in excess of 200 millimetres. Now these totals particularly around the 200mm mark, can lead to life threatening and dangerous flash flooding"
Source: Dean Narramore, BOM, 12 NOON (1200), 2 MAR

SES Commissioner: "Some of the areas that we're looking at around the Hawkesbury Nepean floodplain are the same areas that were affected last year with substantial flooding, and we're expecting this might be as bad as we saw last year. These are devastating storms - an east coast Low brings thunderstorms and floods, which are life threatening. I can't emphasise that seriousness enough."
Source: Carlene York, 12 NOON (1200), 2 MAR

PREMIER'S OFFICE: "I want to stress that we are seeing the recent rainfall pattern still continuing to move south. Over the coming days, it is going to be tough here in the places of Sydney, and it's also going to be tough further in the south of the state. But today the focus is on Sydney."
Source: Deputy Premier Paul Toole, 12 NOON, 2 MAR

BOM (Quote #2): "Major flooding is ongoing. A Severe Weather Warning extends from north of Newcastle to south of Wollongong, carrying with it heavy to intense rainfall. Now, intense rainfall, we could see six hourly totals approach or exceed 200 millimetres. That's likely to lead to flash flooding. Summing it all up, we can see the emergence of pink to purple colours over the Sydney basin. Now that's hinting at 100 to 200 millimetres of rain"
Source: Jackson Browne, BOM, 1 PM (1300), 2 MAR

BOM (Quote #3): "A dangerous and life threatening weather situation is unfolding for the central New South Wales coast, including the Sydney Metropolitan and the Illawarra. At the moment, an East Coast low lies off the New South Wales coast and we're forecasting it to approach the Central Coast overnight tonight. The major impacts would be on the southern flank of the eye, and we're expecting heavy to intense rainfall that's likely to lead to life threatening river rain and flash flooding. We're expecting this event to be similar, if not worse, than the March 2021 event,"
Source: Sarah Scully, BOM, 8 PM (2000), 2 MAR

2 INTERVENTION

Announcement on TWITTER:
On Wednesday (2/3/2022), Mr Miles announced via Twitter that the company had "engaged a service to downgrade the forecast 150mm – 400mm rainfall for greater Sydney & east coast NSW. Project commenced: 15:40 02/03/2022 AEST."
Source: TWITTER <https://twitter.com/milesresearch/status/1498908533173022721?s=27>

Project commenced: 15:40 02/03/2022 AEST

3 OUTCOME

Rainfall Outcome (48 hours): Based on recorded rainfall across greater Sydney, the heavy rainfall failed to materialise on 3rd March, when it was expected, and the severe flooding rainfall warnings were subsequently all cancelled by authorities. The chart (above) demonstrates, using a 3D visualisation of raw NASA Accumulated Precipitation data, that the bulk 48 hours (total) rainfall >50mm and < 450mm was delivered into the Tasman Sea instead of Sydney where it was predicted to fall. Source: Miles Research Data Visualisation

Assorted Media:
Hamish McDonald, The Project, Channel 10, 6.30PM, 3 March: "It's been another big day of flooding in New South Wales, but perhaps not as bad as what was expected. In Sydney the Bureau says that we missed the worst of it. The forecast was something like 200 mm of rain, it ended up being only 10 mm of rain in some places."

Natasha Exelby, 10 News First, 8 AM, 4 March: "Parts of Western Sydney have been spared after less rain than expected fell in the area. Ten News First's Taylor Ryan joins us now from Windsor. Good morning to you, Taylor. Residents there are breathing a sigh of relief this morning."

Reporter Taylor Ryan, 8 AM, 4 March: "Yes, the community here at Windsor, I would say, is cautiously optimistic that they've dodged the worst of this severe flooding event."