

Forecast Policy for Queensland

13 November 2012 to 19 November 2012

IDQ10000

BUREAU OF METEOROLOGY

Queensland Region

Brisbane Office

FORECAST POLICY FOR QUEENSLAND

Issued at 2:30am EST on Tuesday the 13th of November 2012

OVERVIEW: High over the Tasman Sea to move slowly eastwards and weaken during the week, allowing the firm ridge along the tropical east coast to relax. Showers about the tropical coast to become generally less widespread from mid-week and contract a little further north. Surface trough near the southwest and southern Qld border to produce some high based cloud in the coming days, with isolated showers and storms over the southeast on Wednesday. High and associated shortwave troughs move east from Friday, accompanied by increasing cloud and showers and storms. Hot, windy conditions over parts of western and southern Qld during Thursday and Friday to increase fire danger.

MEDIA - Solar Eclipse early Wednesday. Latest North Tropical Coast and Tablelands forecasts is fairly detailed. See recent talking points from MACR. See http://www.astronomy.org.au/ngn/media/client/factsheet_23revx.pdf for info relating to the Eclipse itself.

TODAY: The high over the Tasman Sea continues to weaken with the ridge and winds along the east coast weakening in the south. Latest models indicate that winds should decrease between Mackay and St Laurence early this morning, but most likely remain strong between Bowen and Mackay for the remainder of the morning and possibly into early afternoon [mainly to account for Hamilton Island]. Otherwise, strong winds between Torres Strait and Bowen and over far northeast Gulf waters. Isolated showers to continue about the tropical coast and nearby inland, tending scattered about the NTC and HLB north of Rollingstone as observed during the night. More isolated showers affecting the coast to the south, though these should be confined to the morning south of Mackay but could persist about the Whitsundays and near Proserpine into the PM. Gulf line has moved off western Qld during the night with showers spreading across the Gulf which are likely to affect NTC and southern Gulf coast this morning, with isolated showers and storms inland over the western Gulf Country during the day. Latest ACCESS picks this area well. Otherwise, mid level ridging continues to dominate most parts of the state. A weak shortwave perturbation will move across NSW and near the southern Qld border, however it is unlikely to have any significant impact given pre-existing stability and relatively dry air. The surface trough over NSW will approach the southwest and southern border and extend/develop some high based convective cloud in these areas as indicated on the policy map but no rainfall expected in Qld. NSW have indicated TS south of the border. Otherwise, some high cloud patches will move over southern Qld. Moisture boundary has spread into the eastern interior overnight, with some lower cloud expected early this morning - particularly about the Gregory and Carnarvon Ranges. A cool morning in most of eastern Qld.

WEDNESDAY: The ridge continues to weaken along the tropical east coast with any strong winds north of about Cooktown easing in the early morning. Isolated showers continuing along the tropical coast otherwise, though looks like there will be some enhancement of shower activity on the NTC early in the morning between Cairns and Townsville due to a weak mid level trough and a lifting of the inversion. Some morning drizzle about the southern Tablelands. So it looks like inland near/northwest of Mareeba may have the least amount of cloud but not nil. Elsewhere away from the tropical coast, conditions clearer though some remnant high based cloud may be present over the southeast, particularly near

the border, though expect more cloud in the PM. The surface trough lingers near the southwest and southern border, as cooler mid level air remains over northeast NSW and southeast Qld in the wake of the shortwave trough. This combined with some moisture return into the southeast and convergence about the ranges should see at least isolated showers and storms develop about the southeast Darling Downs and particularly the ranges in the PM. There is sufficient steering to see these come into the coastal plain [where a cap is in place] - most likely affecting Ipswich and the Gold Coast in a weaker form. Could not rule out southern/western parts of Brisbane seeing a shower either, depending on how much develops. The Gulf line/sea breeze convergence area appears to be a little closer to the southern Gulf coast with isolated showers and storms. Remaining cool in the morning over the tropics and central to southeast Qld - though a warmer day expected in the south due to the N to NE winds [which are fresher in the morning over the interior].

THURSDAY: The ridge continues to weaken in the north with generally isolated showers about the tropical coast and northern CYP. The surface trough continues to linger near the southwest and southern Qld border, merging with a stronger feature moving north from NSW late in the day. Winds turn hotter NE to NW over the interior, fresh to strong and gusty over the west and southern interior, particularly during the morning and early PM max. This will lead to an increase in fire danger over most of the interior, particularly in the west and south. Will also see fresh N'y winds along the southern coast, becoming strong south of about Noosa Heads in the evening. The NE flow will also spread some moisture further south over the western Gulf Country on the tail of the Gulf line, extending isolated showers and storms a little further south in this area once again. PM cloud likely once again over southern and southeast Qld but with a temporary stabilisation in the mid levels should remain fine.

FRIDAY: The ridge persists along the north tropical coast with isolated showers. Increased moisture and convergence about western CYP to result in isolated PM showers, with isolated showers and storms persisting about the Gulf Country. The new surface trough will move over the west and southern interior during the day, accompanied by some high based cloud [currently slowest on ACCESS-G]. Conditions become thermally more unstable in the south due to another shortwave trough, with chance of isolated high based showers and storms over the southern interior but with little rainfall [generally dry underneath cloud level]. Ahead of the trough, over southeast districts expect isolated PM showers and storms where slightly better moisture but particularly about the ranges and southern border/NSW. Steering is weaker at 700 hpa level and more W to NW at 500 hPa so may struggle to reach much of the coast with Brisbane southward best bet. Windy conditions ahead of, with and behind the trough to maintain elevated fire danger in the west and south - with hot max temperatures expected in the southeast too. Strong N'y winds persist south of about Double Island Point.

SATURDAY: The surface trough moves a little further eastwards but models begin to diverge in the varying speed/amplitude of a second accompanying mid/upper trough. By far the quickest though has slowed in most recent run. The EC takes the surface trough through the southeast and north to Double Island Point as a fresh to strong S'y change - other model delay the trough further south and west over the interior and NSW. In any case, most indicate increased convection with showers and storms in a band from the northwest to the southeast, more widespread in the latter area due to the more unstable conditions. Isolated showers continuing about the far northeast tropics.

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BUREAU OF METEOROLOGY
Queensland Region
Brisbane Office

FORECAST POLICY FOR QUEENSLAND

Issued at 10:01am EST on Tuesday the 13th of November 2012

AM UPDATE: Nil sig changes to policy.

Forecasts still on track for cloud cover during eclipse in tropics - with more cloud expected along the Cassowary coast [Cairns to Cardwell] than further north [best conditions still look inland NW of Mareeba]. Likely to see similar conditions in Cairns tomorrow AM to what has occurred this morning - intermittent light shower activity and broken cloud cover. Cheers tropics team and I hope it all goes well.

Winds remain strong at Hamilton Island but still expected to decrease late morning/early afternoon.

Will maintain strong winds through Gulf waters near Torres Strait into early hours of Wednesday as indicated by latest guidance.

Storms look unlikely on southern interior border this PM unless steered in from NSW - more likely to just be some virga out of the developing mid level cloud.

Latest guidance shifts drier low levels even further east through the Downs tomorrow so possible shower or storm area very skinny through the southeast Wednesday PM - should mostly be on southern border ranges though with the W/SW steering could still see a late shower on the coast Brisbane and south.

EC has slowed trough movement on Friday further on latest run. ACCESS-G and JMA have also slowed. Have contracted storms areas little south out of Wide Bay and Burnett and Central Highlands to account for this.

Have briefed QFRS about enhanced fire dangers through southern districts [southwest Thursday, extending towards southeast Friday]. Exact warning area of course difficult to forecast given uncertainty with trough movement though given the temps expected likely to see much of the southeast at least Very High if not warning criteria Friday.

OVERVIEW: High over the Tasman Sea to move slowly eastwards and weaken during the week, allowing the firm ridge along the tropical east coast to relax. Showers about the tropical coast to become generally less widespread from mid-week and contract a little further north. Surface trough near the southwest and southern Old border to produce some high based cloud in the coming days, with isolated showers and storms over the southeast on Wednesday. Trough and associated short wave troughs move east from Friday, accompanied by increasing cloud and showers and storms. Hot, windy conditions over parts of western and southern Old during Thursday and Friday to increase fire danger.

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Tablelands forecasts is fairly detailed. See recent talking points from MACR. See http://www.astronomy.org.au/ngn/media/client/factsheet_23revx.pdf for info relating to the Eclipse itself.

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moved off western CYP during the night with showers spreading across the Gulf which are likely to affect MTI and southern Gulf coast this morning, with isolated showers and storms inland over the western Gulf Country during the day. Latest ACCESS-R picks this area well. Otherwise, mid level ridging continues to dominate most parts of the state. A weak shortwave perturbation will move across NSW and near the southern Qld border, however it is unlikely to have any significant impact given pre-existing stability and relatively dry air. The surface trough over NSW will approach the southwest and southern border and extend/develop some high based convective cloud in these areas as indicated on the policy map but no rainfall expected in Qld. NSW have indicated TS south of the border. Otherwise, some high cloud patches will move over southern Qld. Moisture boundary has spread into the eastern interior overnight, with some lower cloud expected early this morning - particularly about the Gregory and Carnarvon Ranges. A cool morning in most of eastern Qld.

WEDNESDAY: The ridge continues to weaken along the tropical east coast with any strong winds north of about Cooktown easing in the early morning. Isolated showers continuing along the tropical coast otherwise, though looks like there will be some enhancement of shower activity on the NTC early in the morning between Cairns and Townsville due to a weak mid level trough and lifting of the inversion. Some morning drizzle about the southern Tablelands. So it looks like inland near/northwest of Mareeba may have the least amount of cloud but not nil. Elsewhere away from the tropical coast, conditions clearer though some remnant high based cloud may be present over the southeast, particularly near the border, though expect more cloud in the PM. The surface trough lingers near the southwest and southern border, as cooler mid level air remains over northeast NSW and southeast Qld in the wake of the short wave trough. This combined with some moisture return into the southeast and convergence about the ranges should see at least isolated showers and storms develop about the southeast Darling Downs and particularly the ranges in the PM. There is sufficient steering to see these come into the coastal plain [where a cap is in place] - most likely affecting Ipswich and the Gold Coast in a weaker form. Could not rule out southern/western parts of Brisbane seeing a shower either, depending on how much develops. The Gulf line/sea breeze convergence area appears to be a little closer to the southern Gulf coast with isolated showers and storms. Remaining cool in the morning over the tropics and central to southeast Qld - though a warmer day expected in the south due to the N to NE winds [which are fresher in the morning over the interior].

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may struggle to reach much of the coast with Brisbane southward best bet. Windy conditions ahead of, with and behind the trough to maintain elevated fire danger in the west and south - with hot max temperatures expected in the southeast too. Strong N'ly winds persist south of about Double Island Point.

SATURDAY: The surface trough moves a little further eastwards but models begin to diverge due to varying speed/amplitude of a second accompanying mid/upper trough. EC by far the quickest though has slowed in most recent run. The EC takes the surface trough through the southeast and north to Double island Point as a fresh to strong S'ly change - other model delay the trough further south and west over the interior and NSW. In any case, most indicate increased convection with showers and storms in a band from the northwest to the southeast, more widespread in the latter area due to the more unstable conditions. Isolated showers continuing about the far northeast tropics.

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FORECAST POLICY FOR QUEENSLAND

Issued at 2:30pm EST on Tuesday the 13th of November 2011

PM UPDATE: Nil changes to policy. Latest ACFES guidance does shift some shower/storm activity from NSW just on to the southern inland border [mostly Granite Belt] late this afternoon/evening. A shallow Cu field has developed over northern NSW but is still well to the south of our border, as is the surface trough which currently lies near Port Kembla. Something to watch but not conclusive enough to update forecasts.

Winds at Hamilton Island have dropped a bit, as have winds at Creal Reef so warning strategy looks to be on track.

High to Very High fire danger through western Queensland the northern Goldfields due to increasing temps and/or low level jet.

AM UPDATE: Nil sig changes to policy.

Forecasts still on track for cloud cover during eclipse in tropics - with more cloud expected along the Cassowary coast [Cairns to Cardwell] than further north [best conditions still look inland NW of Mareeba]. Likely to see similar conditions in Cairns tomorrow AM to what has occurred this morning - intermittent light shower activity and broken cloud cover. Cheers tropics team and I hope it all goes well.

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Storms look unlikely on southern interior border this PM unless steered in from NSW - more likely to just be some virga out of the developing mid level cloud.

Latest guidance shifts drier low levels even further east through the Downs tomorrow so possible shower or storm area very skinny through the southeast Wednesday PM - should mostly be on southern border ranges though with the W/SW steering could still see a late shower on the coast Brisbane and south.

EC has slowed trough movement on Friday further on latest run. ACCESS-G and JMA have also slowed. Have contracted storms area a little south out of Wide Bay and Burnett and Central Highlands to account for this.

Have briefed QFRS about enhanced fire dangers through southern districts [southwest Thursday, extending towards southeast Friday]. Exact warning area of course difficult to forecast given uncertainty with trough movement though given the temps expected likely to see much of the southeast at least Very High if not warning criteria Friday.

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WEDNESDAY: The ridge continues to weaken along the tropical east coast with any strong winds north of about Cooktown easing in the early morning. Isolated showers continuing along the tropical coast otherwise, though looks like there will be some enhancement of shower activity on the NTC early in the morning between Cairns and Townsville due to a weak mid level trough and a lifting of the inversion. Some morning drizzle about the southern Tablelands. So it looks like inland near/northwest of Mareeba may have the least amount of cloud but not nil. Elsewhere away from the tropical coast, conditions clearer though some remnant high based cloud may be present over the southeast, particularly near the border, though expect more cloud in the PM. The surface trough lingers near the southwest and southern border, as cooler mid level air remains over northeast NSW and southeast Qld in the wake of the shortwave trough. This

combined with some moisture return into the southeast and convergence about the ranges should see at least isolated showers and storms develop about the southeast Darling Downs and particularly the ranges in the PM. There is sufficient steering to see these come into the coastal plain [where a cap is in place] - most likely affecting Ipswich and the Gold Coast in a weaker form. Could not rule out southern/western parts of Brisbane seeing a shower either, depending on how much develops. The Gulf line/sea breeze convergence area appears to be a little closer to the southern Gulf coast with isolated showers and storms. Remaining cool in the morning over the tropics and central to southeast Qld - though a warmer day expected in the south due to the N to NE winds [which are fresher in the morning over the interior].

THURSDAY: The ridge continues to weaken in the north with generally isolated showers about the tropical coast and northern CYP. The surface trough continues to linger near the southwest and southern Qld border, merging with a stronger feature moving north from NSW late in the day. Winds turn hot from NE to NW over the interior, fresh to strong and gusty over the west and southern interior, particularly during the morning and early PM max. This will lead to an increase in fire danger over most of the interior, particularly in the west and south. Will also see fresh N'ly winds along the southern coast, becoming strong south of about Noosa Heads in the evening. The NE flow will also spread some moisture further south over the western Gulf Country on the tail of the Gulf line, extending isolated showers and storms a little further south in this area once again. PM cloud likely once again over southern and southeast Qld but with a temporary stabilisation in the mid levels should remain fine.

FRIDAY: The ridge persists along the north tropical coast with isolated showers. Increased moisture and convergence about western CYP to result in isolated PM showers, with isolated showers and storms persisting about the Gulf Country. The new surface trough will move over the west and southern interior during the day, accompanied by some high based cloud [currently slowest on ACCESS-G]. Conditions become thermally more unstable in the south due to another shortwave trough, with chance of isolated high based showers and storms over the southern interior but with little rainfall [generally dry underneath cloud level]. Ahead of the trough, over southeast districts expect isolated PM showers and storms where slightly better moisture but particularly about the ranges and southern border/NSW. Steering is weaker at 700 hpa level and more W to NW at 500 hpa so may struggle to reach much of the coast with Brisbane southward best bet. Windy conditions ahead of, with rain behind the trough to maintain elevated fire danger in the west and south - with hot max temperatures expected in the southeast too. Strong N'ly winds persist south of about Double Island Point.

SATURDAY: The surface trough moves a little further eastwards but models begin to diverge due to varying speed/amplitude of a second accompanying mid/upper trough. EC has the quickest though has slowed in most recent run. The EC takes the surface trough through the southeast and north to Double Island Point as a fresh to strong S'ly change - other model delay the trough further south and west over the interior and NSW. In any case, most indicate increased convection with showers and storms in a band from the northwest to the southeast, more widespread in the latter area due to the more unstable conditions. Isolated showers continuing about the far northeast tropics.

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FORECAST POLICY FOR QUEENSLAND

Issued at 2:30am EST on Wednesday the 14th of November 2012

OVERVIEW: High over the Tasman Sea to move slowly eastwards and weaken during the week, allowing the firm ridge along the tropical east coast to relax. Stream showers about the tropical coast to become generally less widespread by Friday and contract north. Surface trough near the southwest and southern Qld border to produce some high based cloud in the coming days, with isolated showers and storms over the southeast today. Trough and associated shortwave troughs move east from Friday, accompanied by more cloud and showers and storms - peaking over southeast and central Qld Saturday and Sunday. Hot, windy conditions over western and southern Qld during Thursday and Friday to increase fire danger ratings, with a Fire Weather Warning likely for Severe to Extreme fire danger.

MEDIA - Solar Eclipse early today. Latest North Tropical Coast and Tablelands forecast is fairly detailed. See recent talking points from MACR. See http://www.astronomy.org.au/ngn/media/client/factsheet_23revx.pdf for info relating to the Eclipse itself.

TODAY: The ridge continues to weaken along the tropical east coast with strong winds north of Cooktown and over far NE Gulf waters having basically eased and the warning to be cancelled. Isolated showers continuing along the tropical coast otherwise, though these are enhanced on the NTC [particularly south of about Cairns] due to a mid level trough which is depicted well on the latest 12Z ACCESS-R using rel vort fields. Some morning drizzle about the Atherton Tablelands too, with sat pics indicating cloud across the region. So it still looks like inland northwest of Mareeba may have the least amount of cloud/pcpn but not nil. Models seems to suggest that the showers become more isolated south of Cairns during the PM and head northwards. To the south, Townsville generally clearer. There may also be isolated early showers about the Whitsundays.

Elsewhere away from the tropical coast, conditions clearer though some remnant high based cloud is over southern Qld, particularly near the border, though expect more convective cloud in the PM. The surface trough lingers near the southwest and southern border, as cooler mid level air remains over northeast NSW and southeast Qld in the wake of a shortwave trough. This combined with some moisture return into the southeast and convergence about the ranges should see at least isolated showers and storms develop about the southeast Darling Downs and particularly the ranges in the PM. There is sufficient steering to see these come into the coastal plain [where a cap is in place] - most likely affecting Ipswich and the Gold Coast in weaker form. Could not rule out southern/western parts of Brisbane seeing a shower either, depending on how much develops, though very latest ACCESS-R/A/C models a little less ambitious. The Gulf line/sea breeze convergence area appears to be a little closer to the southern Gulf coast with isolated showers and storms. Remaining cool in the morning over the tropics and central to southeast Qld - though a warmer day expected in the south due to the N to NE line which are fresher in the morning over the interior].

THURSDAY: The ridge continues to weaken in the north with generally isolated showers about the tropical coast. These may be a little more scattered about northern CYR and through Torres Strait due to the presence of the shear zone [see model low level rel vort]. The surface trough continues to linger near the southwest and southern Qld border, merging with a stronger feature moving north from NSW late in the day. Winds turn hotter NE to NW over the interior, fresh and gusty over the west and southern interior, particularly during the morning and early PM max. This will lead to an increase in fire danger over most of the interior, particularly in the west and south - with the likelihood of a severe FDR for the Channel Country, Maranoa/Warrego and western Darling Downs [see new policy map for 2am]. SDCC have been briefed. Will also see fresh N'ly winds along the southern coast, becoming strong south of about Noosa Heads late afternoon or evening, including Moreton Bay. The NE flow will also spread some moisture further south over the western Gulf Country on the tail of the Gulf line, extending isolated showers and storms a little further south in this area once again. PM cloud likely once again over southern and southeast Qld but with a temporary stabilisation in the mid levels should remain fine.

FRIDAY: The weaker ridge persists along the north tropical coast with isolated showers. Increased moisture and convergence about western CYP to result in isolated PM showers, with isolated showers and storms persisting about the Gulf Country. The new surface trough will move over the west and into the southern interior during the day, accompanied by some high based cloud. More recent model runs have been a little slower, including the EC. Conditions become thermally more unstable in the south due to another shortwave trough, with chance of isolated high based showers and storms over the southern interior but with little rainfall [generally dry underneath cloud level]. Ahead of the trough, over southeast districts expect isolated PM showers and storms where slightly better moisture but particularly about the ranges and southern border/NSW. Steering is weaker at 700 hPa level and more W to NW at 500 hPa so may struggle to reach much of the coast with Brisbane southward best bet. Windy conditions ahead of, with and behind the trough to maintain a likely Severe to Extreme fire danger in the west and south [more likely to be potentially Extreme outright in the Channel Country and western Warrego with stronger winds than Thursday] - with hot max temperatures expected in the southeast too and at least a Very High fire danger. Strong N'yly winds persist south of about Double Island Point.

SATURDAY: The surface trough moves a little further eastward but models begin to diverge due to varying speed/amplitude of a second accompanying mid/upper trough. Latest trend has been to slow the troughs, and delay the S'yly change over southeast Qld to just south of the border by 12Z. EC still a little faster than the GFS and ACCESS-G [GFS now the slowest]. In any case, the available guidance currently suggests that there is likely to be some early showers or storms over the southern interior and southeast [partic early near the border], with a convectively driven increase during the day near and east of the surface trough in a band from the northwest to the southeast of the state. Models indicate that the activity is likely to be more widespread in the latter area due to the more unstable conditions and higher moisture. Depending on how far east the trough moves to, showers and storms may be steered towards the tropical coast - but given the 700 hPa flow is less defined may struggle to get past the inland areas/ranges for now [particularly if the trough is well back over the interior]. Isolated showers continuing about the far northeast tropics. N'yly winds may still be strong over southern waters - complicated by the close proximity of the trough near the border.

SUNDAY: EC and ACCESS-G currently support the previous 12Z JMA in taking the surface trough and S'yly change north towards the Capricornia region during the day, possibly with strong S'yly winds but not conclusive this far out. Cooler with showers over the far southeast corner and an outbreak of scattered showers and storms focused on and ahead of the trough itself, converging back into the inland section of the trough over the western Darling Downs. Strong steering winds likely to bring some of these back east towards the coast, particularly the Brisbane Valley, Sunshine Coast and Wide Bay/Burnett depending on the initiation areas. Isolated showers and storms over the northern and eastern tropics due to the unstable conditions north and east of the trough. Fine over the west and southern interior in the drier air post trough.

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FORECAST POLICY FOR QUEENSLAND
Issued at 12:44pm EST on Wednesday the 14th of November 2012

OVERVIEW at 11am: Trough approaching western border, but no weather. Showers

continuing on NE tropical coast but gradually contracting north a little associated with an "old SE Surge". Gulf line impacts on western Gulf coast may lead to isolated showers and thunderstorms. Instability on the southern border of the Darling Downs may lead to some thunderstorm activity this afternoon.

TODAY: Local convergence and heating along the ranges to the south this afternoon should lead to some shower and thunderstorm activity that may reach the Gold Coast this evening. Isolated showers continuing along the tropical coast associated with the old surge. The western trough enters the western border today and reaches almost Goodooga late in the day. No weather expected on trough but rising temperatures ahead with the NW winds. Better moisture near the southern Darling Downs region and instability with local convergence should lead to isolated showers and thunderstorms along the ranges in the PM. There is sufficient steering to see these come into the coastal plain [where a cap is in place] - most likely affecting Ipswich or the Gold Coast as an old cell. Gulf line impacts will prove a semi permanent convergence zone in the western Gulf coastal district. This combined with the sea breezes front may lead to thunderstorm activity this afternoon. Fine and sunny over the remainder of the state.

THURSDAY: The ridge continues to weaken in the north with isolated showers about the NE tropical coast. The western trough stalls then sinks south, eventually reorganizing into a east west configuration near the southern border. Latest calculations indicate freshen NW winds over the southwest of the state with temps 40C and over. This will lead to a fire weather warning across many southern districts including the southern Darling Downs. Further east, freshening N'y winds about the SE coast will lead to a strong wind warning. Again Gulf line impacts about the western Gulf may lead to showers and thunderstorms at any time. Instability decreases over the southern Darling Downs leading to an end of the thunderstorm activity.

FRIDAY: The weaker ridge persists along the north tropical coast with isolated showers. Once again showers and thunderstorms about the western Gulf coast. Increasing instability generally over Queensland with the movement of the 500hpa trough into the state will extend the thunderstorm activity about the rest of the Gulf coast. Further south the western trough now jumps NE after a merger from a more vigorous trough from S.A. Again freshening, hot NW winds in the west will lead to a fire weather warning over many districts. Some mid level moisture in the upslip behind the wind change may produce Altocumulus Castellanus clouds that may produce isolated showers or even thunder. Or if this does not happen thermal activity will eventually reach the cloud level with "thermal nudging" this might generate isolated thunderstorms with little precipitation. Further east in the higher moisture zone "air mass" thunderstorms and showers are expected in the afternoon, reaching the SE coast. Fine and sunny over the remainder of the state. Strong winds continuing on the SE coast. Hot daytime max temperatures are expected in the southeast as well with a Very High fire danger.

SATURDAY: The surface trough slows over the Gulf region, while progressing east across the Darling Downs district. The coastal component of the trough moves north through the SE coast first, creating the classic "V" over the eastern Darling Downs. This will be the main convergence maximum for possible severe thunderstorm cells. Showers and thunderstorms generally over the SE of the state, extending north and west into the Gulf region in the afternoon. Becoming dry and sunny over western districts. Depending on how far east the trough moves to, showers and storms may be steered towards the tropical coast - but given the 700 hPa flow is less defined may struggle to get past the inland areas/ranges for now [particularly if the trough is well back over the interior]. Isolated showers continuing about the far northeast tropics. N'y winds may still be strong near the SE coast early.

SUNDAY: Looks like from modelling that the coastal trough reaches the Capricorn district then stalls. The inland trough becomes stationary near with a V near

Taroom. The occluded trough also extends south into the southern Darling Downs. Showers and thunderstorms generally north and east of the trough. Thunderstorm activity increasing into the Wide Bay/Burnett region then decreasing south into the Darling Downs. Some of these thunderstorm cells may drift east into the SE coastal district, otherwise isolated showers for this part of the world. Fine over the west and southern interior in the drier air post trough.

IDQ10000

BUREAU OF METEOROLOGY
Queensland Region
Brisbane Office

FORECAST POLICY FOR QUEENSLAND

Issued at 2:30pm EST on Wednesday the 14th of November 2002

OVERVIEW at 2pm: So far isolated showers have occurred near the N.S.W border otherwise fine over the remainder of the state. No change in overall policy.

11am: Trough approaching western border, but no weather. Showers continuing on NE tropical coast but gradually contracting north a little associated with an "old SE Surge". Gulf line impacts on western Gulf coast may lead to isolated showers and thunderstorms. Instability on the southern border of the Darling Downs may lead to some thunderstorm activity this afternoon.

TODAY: Local convergence and heating along the ranges to the south this afternoon should lead to some shower and thunderstorm activity that may reach the Gold Coast this evening. Isolated showers continuing along the tropical coast associated with the old surge. The western trough enters the western border today and reaches almostoodooga late in the day. No weather expected on trough but rising temperatures ahead with the NW winds. Better moisture near the southern Darling Downs region and instability with local convergence should lead to isolated showers and thunderstorms along the ranges in the PM. There is sufficient steering to see these come into the coastal plain [where a cap is in place] - most likely affecting Ipswich or the Gold Coast as an old cell. Gulf line impacts will prove a semi permanent convergence zone in the western Gulf coastal district. This combined with the sea breezes front may lead to thunderstorm activity this afternoon. Fine and sunny over the remainder of the state.

THURSDAY: The ridge continues to weaken in the north with isolated showers about the NE tropical coast. The western trough stalls then sinks south, eventually reorganizing into a east west configuration near the southern border. Latest calculations indicate freshen NW winds over the southwest of the state with temps 40C and over. This will lead to a fire weather warning across many southern districts including the southern Darling Downs. Further east, freshening N'ly winds about the SE coast will lead to a strong wind warning. Again Gulf line impacts about the western Gulf may lead to showers and thunderstorms at any time. Instability decreases over the southern Darling Downs leading to an end of the thunderstorm activity.

FRIDAY: The weaker ridge persists along the north tropical coast with isolated showers. Once again showers and thunderstorms about the western Gulf coast. Increasing instability generally over Queensland with the movement of the 500hpa trough into the state will extend the thunderstorm activity about the rest of the Gulf coast. Further south the western trough now jumps NE after a merger from a more vigorous trough from S.A. Again freshening, hot NW winds in the west will lead to a fire weather warning over many districts. Some mid level moisture in the upslide behind the wind change may produce Altocumulus

Castellanus clouds that may produce isolated showers or even thunder. Or if this does not happen thermal activity will eventually reach the cloud level with "thermal nudging" this might generate isolated thunderstorms with little precipitation. Further east in the higher moisture zone "air mass" thunderstorms and showers are expected in the afternoon, reaching the SE coast. Fine and sunny over the remainder of the state. Strong winds continuing on the SE coast. Hot daytime max temperatures are expected in the southeast as well with a Very High fire danger.

SATURDAY: The surface trough slows over the Gulf region, while progressing east across the Darling Downs district. The coastal component of the trough moves north through the SE coast first, creating the classic "V" over the eastern Darling Downs. This will be the main convergence maximum for possible severe thunderstorm cells. Showers and thunderstorms generally over the SE of the state, extending north and west into the Gulf region in the afternoon. Becoming dry and sunny over western districts. Depending on how far east the trough moves to, showers and storms may be steered towards the tropical coast - but given the 700 hPa flow is less defined may struggle to get past the inland areas. Ranges for now [particularly if the trough is well back over the interior] isolated showers continuing about the far northeast tropics. N'ly winds may still be strong near the SE coast early.

SUNDAY: Looks like from modelling that the coastal trough reaches the Capricorn district then stalls. The inland trough becomes stationary near with a V near Taroom. The occluded trough also extends south into the southern Darling Downs. Showers and thunderstorms generally north and east of the trough. Thunderstorm activity increasing into the Wide Bay/Burnet region then decreasing south into the Darling Downs. Some of these thunderstorm cells may drift east into the SE coastal district, otherwise isolated showers for this part of the world. Fine over the west and southern interior in the drier air post trough.

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BUREAU OF METEOROLOGY
Queensland Region
Brisbane Office

FORECAST POLICY FOR QUEENSLAND

Issued at 2:30 pm AEST Wednesday the 14th of November 2012

SITUATION SUMMARY: A weak high over the Tasman Sea extends a ridge along the east tropical Queensland coast. An east to west oriented surface trough extends through the southern interior and will slip southeast while weakening today. A deepening trough extends through WA and is expected to shift east through central Australia today. Freshening N'ly winds ahead of the trough will result in hot conditions through southern Qld today, with a Fire Weather Warning current for areas southwest of a line from Mount Isa to Windorah to Blackall to Charleville to Inglewood.

Strong Wind Warning current for waters south of Noosa Heads [including Moreton Bay].

Temperatures remain well above average over central and southern districts ahead of the trough Friday and Saturday.

Still some uncertainty with trough timing Friday and Saturday - EC and US faster than ACCESS.

TODAY: The ridge continues to weaken in the north, with the isolated showers about the northeast tropical coast contracting to areas north of Cairns. The

trough through the far southern interior sinks south, extending hot, fresh and gusty NW'ly winds to the southern inland border. The wind max focuses through the far southwest near Birdsville and Ballera and combined with temps in excess of 40 degrees and dry conditions results in Extreme fire dangers. Severe fire dangers elsewhere over much of western Queensland and the southwestern Downs [refer to Fire Weather Warning]. N'ly winds also strengthen over waters south of Noosa Heads late afternoon and evening, [including Moreton Bay]. High cloud will increase through the far southwest of the state late at night ahead of the main trough moving east over central Australia, with possible isolated high based showers or gusty storms though little or no rain due to dry low levels. Again shower and storm activity expected about the western Gulf Country due to Gulf line - with some shower activity also about the western Peninsula coast PM.

FRIDAY: The ridge weakens further along the northeast tropical coast with only isolated morning showers north of Cooktown. Isolated showers and storms will extend a little further south through the Gulf Country as moisture increases under NE'ly winds. Increased moisture and convergence also results in PM showers and storms near the west Peninsula coast. The main trough moves east over southwestern Qld, extending mid to high level cloud east through southern Qld. The cloud should not be thick enough to significantly affect temperatures so still expecting hot conditions ahead of the trough through western and southern Qld. N'ly winds increase further through southern districts and combine with the hot temps to increase FDRs significantly - preliminary calculations show Severe to Extreme FDRs through western districts and the Darling Downs and Granite Belt [could be Catastrophic under the wind max near Thargomindah/Cunnamulla]. Inland parts of the Southeast Coast district will also be marginally Severe and the severe weather team will assess these values further today. Temperatures cool aloft through southern Qld, increasing instability with isol high based showers and gusty TS over the interior - little or no rain expected due to dry low levels. Isolated airmass PM showers and gusty storms expected over the southeast interior [particularly over the southern border ranges]. Given decent W'ly steering this activity could reach the Gold Coast late at night and possibly even Brisbane - particularly the southern suburbs. Strong N'ly winds extend from Double Island Point to Point Danger including Moreton Bay.

SATURDAY: The southern section of the surface trough moves a little further eastwards but models begin to diverge due to varying speed/amplitude of a second accompanying mid/upper trough stall the inland trough over the Downs. The EC is currently an outlier as it progresses a coastal trough and S'ly wind change north toward Double Island Point, while the US and ACCESS stall this near the Gold Coast. Will maintain EC scenario with a moderate to fresh and cool S'ly change extending north through PM over far southern waters. The upper cold pool shifts into southeastern Qld, greatly increasing instability. This combined with convergence near the surface trough and a humid low level airmass leads to isolated showers and storms increasing to scattered during PM. There is a high likelihood of severe storms given unidirectional wind profile through sufficient depth, significant shear [including in low levels] and low level dry slot with gusts and large hail the biggest contenders. Can start mentioning possibility on Downs and Southeast Coast district forecasts given consistency with instability profile across guidance. EC's S'ly wind change complicates matters further, providing added lift to activity near the coast during PM. The inland trough marches a little further east. Again timing varies across guidance so using an ensemble approach to forecast dry line, with isol PM showers and storms to its east [could be any time near the Gulf and Peninsula coast]. This activity could reach the Capricorn and tropical coast south of Townsville late in the day given sufficient steering. Cooler, dry S'ly winds will extend through western Qld.

SUNDAY: Most model guidance now supports the low level trough and focus for shower and storm activity contracting further north to the Wide Bay and Capricornia, with showers and storms [possibly severe] increasing through these parts through decreasing further south to isolated showers through the Downs and Southeast Coast during the day. The inland trough shifts further east into the eastern interior with isolated showers and PM storms expected, most likely

reaching the coast south of about Cairns given sufficient steering. Isolated showers and storms persist through the Gulf Country and western Peninsula, aided by Gulf line activity.

MONDAY: Models indicate inland trough persisting through the eastern tropical interior to the central interior, with isolated showers and storms to its east, more scattered through central districts given sufficient low to mid level moisture and near the greatest convergence. Another trough moves east off the NSW coast, increasing instability again through southeastern Qld with isolated showers and possible storms, particularly about the southern border ranges. EC again extends a fresh S'yly change north towards Double Island Point while other guidance stalls this change near the border.

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BUREAU OF METEOROLOGY
Queensland Region
Brisbane Office

FORECAST POLICY FOR QUEENSLAND

Issued at 12:31pm EST on Thursday the 15th of November 2012

SITUATION SUMMARY 1030am: Inland trough has now had no orientated east west as expected from Wednesday and is now weaker. Expected A trough to move east and merge with Queensland trough tomorrow. Warning through the mid levels over the SE region today should prevent any afternoon shower or thunderstorm activity. The usual shower activity about the NE tropical coast north of Cairns. Fire Weather Warning to continue today through the southern and western interior, expanding east tomorrow. Temperatures will remain well above average over central and southern districts ahead of the trough into Friday and Saturday. There is uncertainty with trough timing Friday and Saturday with the various models but EC has been consistent, will stick with the EC.

TODAY: The ridge weakens further along the northeast tropical coast with only isolated showers north of about Cooktown. Isolated showers and thunderstorms near western Gulf coast and possible late shower or storm near Weipa. Fine and sunny over the remainder of the state, particularly hot and dry in the west and south with freshening N to NW winds. This will maintain the a severe fire danger through most of the west and south and a extreme fire danger in the far SW of the state. Although there is mid level cloud over the SW over the state its probably too high for precipitation. Model temp traces look too weak for even thunderstorm. Strong N'yly winds developing about the SE coast.

FRIDAY: With the movement of the 500hpa trough into western QLD instability will generally increase across the state. This will extend the shower and thunderstorm activity about the Gulf coast up to the Weipa zone. A new western trough enters the Channel Country and reaches the western edge of the Darling Downs late in the day. Fresh and gusty hot NW winds ahead of this change will maintain the fire weather warning over much of the west, south and central parts of the state. The fire weather warning will also extend into the Darling Downs district. Increasing instability will lead to possible isolated mid level showers or thunderstorms across southern districts. This is probably due to "thermal nudging" that is thermals reaching near the mid level cloud late in the day and providing a extra condensation level for deeper convection. Over the SE region hot drier 850hpa winds will mix down reducing surface dew points and creating a sharp dry line near the coast. This will reduce the thunderstorm activity but better air mass thunderstorms may eventuall form with this zone late in the day. Otherwise mid level weak thunderstorms or showers will eventual reach the SE coastal region in the south, late in the day. Isolated showers north of about Cooktown again and fine and sunny over the remainder of the

state. Strong N'ly winds extend from Double Island Point to Point Danger, including Moreton Bay.

SATURDAY: This is the point where modelling differs greatly, but EC has been consistant compared to the erratic jumps of the ACCESS MODEL. Going with this plan the western trough stalls over the Darling Downs while the coastal component moves through the SE coast first with a SE'ly wind change. This will create the classic "V" as the troughs merge over the eastern Darling Downs. All this this will produce scattered showers and thunderstorms generally over the SE region with possible severe cells with strong wind gust and hail through the eastern Darling Downs, Wide Bay Burrnet and the SE coast. Elsewhere isolated showers and thunderstorms generally in a band from the SE to the Gulf region ahead of the inland trough. Thunderstorm activity will also develop over the southern tropics and may reach the coast south of Bowen. The inland trough moves further east but slows down generally. Cooler, dry S'ly winds will extend through western Qld.

SUNDAY: With the 500hpa and 700hpa troughs passing through the SE region, the activity remains intense. Rain areas left over from thunderstorms will persist over the SE region from Saturday night into Sunday morning, clearing by late morning or the middle of the day. Isolated showers and thunderstorms to follow in the afternoon over SE region mainly inland near the trough over the Darling Downs. The maximum weather will occur further north in the afternoon over the Capricorn, Wide Bay and Burnett regions. This will be in the zone of the "V" with maximum convergence. The old coastal trough, now near Fraser Island. Once again possible severe thunderstorms cells will most likely occur in the "V". Elsewhere isolated showers and thunderstorms generally ahead of the trough into the tropics. A secondary SE'ly change moves through the SE coast late in the day.

MONDAY: The inland trough now moves west with the "V" over the Central Highlands. Scattered showers and thunderstorms over the Central Highlands, isolated showers and thunderstorms elsewhere NE of the trough. Dry and sunny further west.

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BUREAU OF METEOROLOGY
Queensland Region
Brisbane Office

FORECAST POLICY FOR QUEENSLAND

Issue at 2:30pm EST on Thursday the 15th of November 2012

SITUATION SUMMARY 2pm: All fine over the state at present, apart from isolated showers near the coast north of Cooktown. Winds along SE coast in 15 to 20 knot range at present but expect stronger winds this evening, will continue with warning. No change to overall policy.

1030am: Inland trough has now has now orientated east west as expected from Wednesday and is now weaker. Expected W.A trough to move east and merge with Queensland trough tomorrow. Warming through the mid levels over the SE region today should prevent any afternoon shower or thunderstorm activity. The usual shower activity about the NE tropical coast north of Cairns. Fire Weather Warning to continue today through the southern and western interior, expanding east tomorrow. Temperatures will remain well above average over central and southern districts ahead of the trough into Friday and Saturday. There is uncertainty with trough timing Friday and Saturday with the various models but EC has been consistent, will stick with the EC.

TODAY: The ridge weakens further along the northeast tropical coast with only

isolated showers north of about Cooktown. Isolated showers and thunderstorms near western Gulf coast and possible late shower or storm near Weipa. Fine and sunny over the remainder of the state, particularly hot and dry in the west and south with freshening N to NW winds. This will maintain the a severe fire danger through most of the west and south and a extreme fire danger in the far SW of the state. Although there is mid level cloud over the SW over the state its probably too high for precipitation. Model temp traces look too weak for even thunderstorms. Strong N'ly winds developing about the SE coast.

FRIDAY: With the movement of the 500hpa trough into western QLD instability will generally increase across the state. This will extend the shower and thunderstorm activity about the Gulf coast up to the Weipa zone. A new western trough enters the Channel Country and reaches the western edge of the Darling Downs late in the day. Fresh and gusty hot NW winds ahead of this change will maintain the fire weather warning over much of the west, south and central parts of the state. The fire weather warning will also extend into the Darling Downs district. Increasing instability will lead to possible isolated mid level showers or thunderstorms across southern districts. This is probably due to "thermal nudging" that is thermals reaching near the mid level cloud late in the day and providing a extra condensation level for deeper convection. Over the SE region hot drier 850hpa winds will mix down reducing surface dew points and creating a sharp dry line near the coast. This will reduce the thunderstorm activity but better air mass thunderstorms may eventually form with this zone late in the day. Otherwise mid level weak thunderstorms or showers will eventual reach the SE coastal region in the south, late in the day. Isolated showers north of about Cooktown again and fine and sunny over the remainder of the state. Strong N'ly winds extend from Double Island Point to Point Danger, including Moreton Bay.

SATURDAY: This is the point where modelling differs greatly, but EC has been consistant compared to the erratic jumps of the ACCESS MODEL. Going with this plan the western trough stalls over the Darling Downs while the coastal component moves through the SE coast first with a SE'ly wind change. This will create the classic "V" as the trough merge over the eastern Darling Downs. All this this will produce scattered showers and thunderstorms generally over the SE region with possible severe cells with strong wind gust and hail through the eastern Darling Downs, Wide Bay Burnett and the SE coast. Elsewhere isolated showers and thunderstorms generally in a band from the SE to the Gulf region ahead of the inland trough. Thunderstorm activity will also develop over the southern tropics and may reach the coast south of Bowen. The inland trough moves further east but slows down generally. Cooler, dry S'ly winds will extend through western Qld.

SUNDAY: With the 500hpa and 700hpa troughs passing through the SE region, the activity remains intense. Rain areas left over from thunderstorms will persist over the SE region from Saturday night into Sunday morning then clear by late morning or the middle of the day. Isolated showers and thunderstorms to follow in the afternoon over SE region mainly inland near the trough over the Darling Downs. The maximum weather will occur further north in the afternoon over the Capricorn, Wide Bay and Burnett regions. This will be in the zone of the "V" with maximum convergence. The old coastal trough now near Fraser Island. Once again possible severe thunderstorms cells will most likley occur in the "V". Elsewhere isolated showers and thunderstorms generally NE of the trough into the tropics. A secondary SE'ly change moves trough the SE coast late in the day.

MONDAY: The inland trough now moves west with the "V" over the Central Highlands. Scattered showers and thunderstorms over the Central Highlands, isolated showers and thunderstorms elsewhere NE of the trough. Dry and sunny further west.

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BUREAU OF METEOROLOGY
Queensland Region
Brisbane Office

FORECAST POLICY FOR QUEENSLAND

Issued at 2:30am EST on Friday the 16th of November 2012

SITUATION SUMMARY: A weakening ridge extends along the east tropical Queensland coast. A surface trough lies near the southwestern border of the state and will shift east into western Qld today. An upper level trough will enter NSW today, with mid to high cloud and an upper cold pool extending east through far southern Queensland.

Hot, fresh to strong and gusty N'ly winds ahead of the trough will result in elevated fire dangers through southern and western Qld today with a Fire Weather Warning current for much of western districts and the Darling Downs and Granite Belt.

Strong Wind Warning is current for waters south of Noosa Heads [including Moreton Bay], extending north to Double Island Point this PM.

The persistent fresh to strong N'ly wind flow has resulted in tidal heights exceeding HAT by about 0.4m on the high tide at Brisbane City alert - likely a bit more in Moreton Bay - SDCC have been briefed.

A great deal of uncertainty persists with trough movement. ACCESS has consistently shown the slowest trough movement while EC and US are more consistent so hedging more towards their guidance.

High likelihood of severe storms over the southeast on Saturday - emphasised on public weather forecasts.

TODAY: The ridge weakens further along the northeast tropical coast with only isolated light showers north of Cooktown, clearing during PM. Isolated showers and storms will extend a little further south through the Gulf Country as moisture increases under NE'ly winds. Increased moisture and convergence also results in PM showers and storms near the west Peninsula coast. The low level trough moves east over southern Qld, extending mid to high level cloud east through southern Qld. The cloud should not be thick enough to significantly affect temperatures so still expecting hot conditions through western and southern Qld. N'ly winds increase further through southern districts and combine with the hot temps to increase FDRs significantly - Severe to Extreme FDRs through western districts and the Darling Downs and Granite Belt [could be near Catastrophic under the wind max near Thargomindah/Cunnamulla]. Temperatures cool aloft through southern Qld, increasing mid level instability with isol high based showers and gusty storms over the interior - little or no rain expected due to dry levels. Moisture advects into the southeast during the afternoon and evening with isolated PM showers and gusty storms developing over the southeast interior [particularly over the southern border ranges]. Given decent W'ly steering and the trough moving north along the NSW coast this activity could reach the Gold Coast at night and possibly even Brisbane - particularly the southern suburbs. Strong N'ly winds extend from Noosa Heads to Point Danger, including Moreton Bay, extending north to Double Island Point during PM.

SATURDAY: The southern section of the surface trough moves a little further eastwards but models begin to diverge due to varying speed/amplitude of a second accompanying mid/upper trough entering western Qld. All guidance stall the inland trough over the Downs. Past runs of the EC have extended the coastal trough and S'ly wind change north towards the Sunshine Coast, while the US and ACCESS stall this near the Gold Coast. Will maintain EC scenario with a moderate to fresh and cooler S'ly change extending north through PM over far southern waters and will emphasise the uncertainty on marine forecasts. The upper cold pool shifts into southeastern Qld, greatly increasing instability. This combined

with convergence near the surface trough and a humid low level airmass leads to isol showers and storms increasing to scattered during PM. There is a high likelihood of severe storms [mentioned on districts] given unidirectional wind profile through sufficient depth, significant shear [including in low levels] and low level dry slot with wind gusts and large hail the biggest contenders. Cloud cover should not be an inhibiting factor as most guidance shows this clearing AM with the first pulse of the upper trough. EC's S'ly wind change complicates matters further, providing added lift to activity near the coast during PM. The inland trough marches a little further east. Again timing varies across guidance so using an ensemble approach to forecast dry line, with isol showers and storms to its east, mostly PM. This activity could reach the Capricorn and tropical coast south of Townsville late at night given sufficient steering. Cooler, dry S'ly winds will extend through western Qld. Could still be Very High fire dangers out west in the gusty S'ly winds [also through the central west under the N'ly jet ahead of the trough].

SUNDAY: Again large differences in model guidance - using US and EC which have a fairly consistent movement of the next mid to upper trough. This system should enter the southeast Sunday morning before contracting off the far southern coast into the Coral Sea in the afternoon. The upper system, along with the 850hPa trough, continue to slope back towards the Fraser coast PM, expect the focus for shower and storm activity to contract north to the Wide Bay and Capricornia, with showers and storms [possibly severe] increasing through these parts though decreasing through the Downs and Southeast Coast to isolated showers from the west during the day. The EC extends a S'ly wind change north from NSW into southern Qld waters. The inland trough shifts further east into the eastern interior with isolated showers and storms expected, mostly PM. This activity could reach the coast south of about Cooktown given sufficient steering. Given the vicinity of the trough storms could also develop quite close to the east tropical/central coast. Isolated showers and storms persist through the Gulf Country and western Peninsula, aided by Gulf line activity.

MONDAY: Models indicate the inland trough persisting through the eastern tropical interior to the central interior, with isolated showers and storms to its east, more scattered through central districts given sufficient low to mid level moisture and near the greatest convergence [EC shifts the surface trough and associated S/SE change north to the Capricorn Coast]. Conditions remain thermally unstable over the southeast though given a dry W'ly wind flow through depth in the wake of the trough expect to see only isol showers and possible PM storms at best.

TUESDAY: A second upper trough rotates off the NSW coast well south of our border. The inland trough shifts west in response to increasing ridging in the east from a high in the Tasman. A new trough sweeps east through central Australia and approaches our southwest border late at night [good consistency amongst guidance with this movement]. Moisture advects inland, with isolated showers and storms expected to the east of the dry line, mostly inland apart from near the convergence line on the Capricorn/central coast. Temperatures again increase significantly in the far west ahead of the new trough.

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BUREAU OF METEOROLOGY
Queensland Region
Brisbane Office

FORECAST POLICY FOR QUEENSLAND
Issued at 10:03am EST on Friday the 16th of November 2012

AM update: no changes to overall strategy. Just reworded "TODAY" a bit, and

will go through the rest by the PM issue. I've been kept busy with calls about the weekend's storms, with EMQ and media outlets noticing various blogs about the situation, and our forecast of "possibly severe" for the SE for tomorrow. Severe storms are certainly possible. More later.

TODAY: A ridge along the east coast should weaken, keeping the eastern districts mainly fine. NE winds over the Gulf Country will increase moisture in the region, leading to SH/TS near the coast. Meanwhile a low level trough should move east over SW QLD, and instability and cloud is increasing above it due to an upper trough over NSW. Still hot though beneath the cloud in northerlies, and a fire weather warning is current in the southern interior. The troughs should cause isol SH/gusty TS over the southern interior, but little or no rain due to dry low levels. The upper trough should extend over the SE late in the day, and may bring some late SH/TS with it due to its firm mid level winds, but it should be too dry to get much north of about Brisbane. Strong N'y winds extend from Noosa Heads to Point Danger, including Moreton Bay extending north to Double Island Point during PM [warning out]. The persistent fresh to strong N'y wind flow has resulted in tidal heights exceeding HAT by about 0.4m on the high tide at Brisbane City alert - likely to be more in the southern bay due to waves, but only very marginally higher than yesterday's high tide. S'EC have been briefed and higher than normal tides added to coastal.

SATURDAY: The southern section of the surface trough moves a little further eastwards but models begin to diverge due to varying speed/amplitude of a second accompanying mid/upper trough entering western Qld. All guidance stall the inland trough over the Downs. Past runs of the EC have extended the coastal trough and S'y wind change north towards the Sunshine Coast, while the US and ACCESS stall this near the Gold Coast. Will maintain EC scenario with a moderate to fresh and cooler S'y change extending north through PM over far southern waters and will emphasise the uncertainty on marine forecasts. The upper cold pool shifts into southeastern Qld, greatly increasing instability. This combined with convergence near the surface trough and a humid low level airmass leads to isol showers and storms increasing to scattered during PM. There is a high likelihood of severe storms [mentioned on districts] given unidirectional wind profile through sufficient depth, significant shear [including in low levels] and low level dry slot with wind gusts and large hail the biggest contenders. Cloud cover should not be an inhibiting factor as most guidance shows this clearing AM with the first pulse of the upper trough. EC's S'y wind change complicates matters further providing added lift to activity near the coast during PM. The inland trough marches a little further east. Again timing varies across guidance so using an ensemble approach to forecast dry line, with isol showers and storms to the east, mostly PM. This activity could reach the Capricorn and tropical coast south of Townsville late at night given sufficient steering. Cooler, dry S'y winds will extend through western Qld. Could still be Very High fire dangers out west in the gusty S'y winds [also through the central west under the N'y jet ahead of the trough].

SUNDAY: A fair large differences in model guidance - using US and EC which have a fairly consistent movement of the next mid to upper trough. This system should enter the southeast Sunday morning before contracting off the far southern coast into the Coral Sea in the afternoon. The upper system, along with the 850hPa trough, continue to slope back towards the Fraser coast PM, so expect the focus for shower and storm activity to contract north to the Wide Bay and Capricornia, with showers and storms [possibly severe] increasing through these parts though decreasing through the Downs and Southeast Coast to isolated showers from the west during the day. The EC extends a S'y wind change north from NSW into southern Qld waters. The inland trough shifts further east into the eastern interior with isolated showers and storms expected, mostly PM. This activity could reach the coast south of about Cooktown given sufficient steering. Given the vicinity of the trough storms could also develop quite close to the east tropical/central coast. Isolated showers and storms persist through the Gulf Country and western Peninsula, aided by Gulf line activity.

MONDAY: Models indicate the inland trough persisting through the eastern

tropical interior to the central interior, with isolated showers and storms to its east, more scattered through central districts given sufficient low to mid level moisture and near the greatest convergence [EC shifts the surface trough and associated S/SE change north to the Capricorn Coast]. Conditions remain thermally unstable over the southeast though given a dry W'ly wind flow through depth in the wake of the trough expect to see only isol showers and possible PM storms at best.

TUESDAY: A second upper trough rotates off the NSW coast well south of our border. The inland trough shifts west in response to increasing ridging in the east from a high in the Tasman. A new trough sweeps east through central Australia and approaches our southwest border late at night [good consistency amongst guidance with this movement]. Moisture advects inland, with isolated showers and storms expected to the east of the dry line, mostly inland apart from near the convergence line on the Capricorn/central coast. Temperatures again increase significantly in the far west ahead of the new trough.

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BUREAU OF METEOROLOGY
Queensland Region
Brisbane Office

FORECAST POLICY FOR QUEENSLAND
Issued at 2:46pm EST on Friday the 16th of November 2012

AM update: no changes to overall strategy. Just reworded "TODAY" a bit, and will go through the rest by the PM issue. I've been kept busy with calls about the weekend's storms, with EMQ and media outlets noticing various blogs about the situation, and our forecast of "possibly severe" for the SE for tomorrow. Severe storms are certainly possible. More later.

TODAY: A ridge along the east coast should weaken, keeping the eastern districts mainly fine. NE winds over the Inland Country will increase moisture in the region, leading to SH near the coast. Meanwhile a low level trough should move east over SW QLD, and instability and cloud is increasing above it due to an upper trough over NSW. Still hot though beneath the cloud in northerlies, and a fire weather warning is current in the southern interior. The troughs should cause isolated gusty TS over the southern interior, but little or no rain due to dry low levels. The upper trough should extend over the SE late in the day, and may bring some late SH/TS with it due to its firm mid level winds, but it should be too dry to get much north of about Brisbane. Strong N'ly winds extend from Noosa Heads to Point Danger, including Moreton Bay, extending north to Double Island Point during PM [warning out]. The persistent fresh to strong N'ly wind flow has resulted in tidal heights exceeding HAT by about 0.4m on the high tide at Brisbane City alert - likely to be more in the southern bay due to waves, but only very marginally higher than yesterday's high tide - SDCC have been briefed and higher than normal tides added to coastal.

SATURDAY: The sfc trough seems likely to focus on the Darling Downs area, and will extend as a broader feature to the NW. There should be an infed of northerlies ahead of the trough that should get TS going, assisted by a new upper trough well to the west. The sfc trough should stay in the region, possibly leading to a "training" of the TS about the eastern Downs despite the brisk mid level winds. Plenty of instability there too with mid level air cooling, so severity is likely [gusts/hail mainly]. On the SE coast itself, marginal instability and then cooler low level air after a SE change may inhibit TS/SH development on the change, though we should see activity get to the coast later in the day [moving across from the Downs]. The latest ACCESS isn't very unstable on the SE coast even late in the day, suggesting more thundery rain

than supercells, but severity is still possible on the coast nonetheless even in that model. The edges of this activity could reach as far north as Rocky late at night given sufficient steering. Cooler, dry S'yly winds will extend through western Qld. Could still be Very High fire dangers out west in the gusty S'yly winds [also through the central west under the N'yly jet ahead of the trough].

SUNDAY: The upper trough should enter the southeast Sunday morning before contracting off the far southern coast late in the day. Although there will still be a sfc trough over the SE/central interior, it will be overrun by drier SW winds not far above [e.g. at 5000ft], and so the RA/SH/TS activity will contract northeast with this drier air. Further north, a weak inland trough may trigger some SH/TS. This activity could reach the coast south of about Cooktown given sufficient steering. Given the vicinity of the trough storms could also develop quite close to the east tropical/central coast. Isolated showers and storms persist through the Gulf Country and western Peninsula, aided by Gulf line activity.

MONDAY: Models indicate the inland trough should persist through the eastern tropical interior to the central interior, with isolated showers and storms to its east, more scattered through central districts given sufficient low to mid level moisture. Conditions should remain unstable over the southeast though given a dry W'yly wind flow through depth in the wake of the trough expect to see only isol showers and possible PM storms at best.

TUESDAY: Another upper trough should pass over NSW, while a high in the Tasman pushes the sfc trough, moisture and SH/TS inland over QLD. Temperatures should increase in the far west with the northerlies.

IDQ10000

BUREAU OF METEOROLOGY
Queensland Region
Brisbane Office

FORECAST POLICY FOR QUEENSLAND
Issued at 2:41am EST on Saturday the 17th of November 2012

2AM update: Mid level cloud persisting across southern QLD but weakening. Some remaining mid level thunderstorms on the southern edge of this mid level cloud band. Surface trough has already moved into Moreton Bay, this has eased the winds speeds about the SE coast, hence the cancelled strong wind warning.

TODAY:

- . Surface trough near stationary on SE coast, becoming a convergence line and curves back into the Darling Downs to the SW. This trough then merges with western trough over the Darling Downs as a "V".
- . Maximum instability over the SE region with the convergence and heating will lead to early thunderstorm build up and will increase into the afternoon with possible severe cells.
- . General afternoon showers and thunderstorms over the interior NE of the western trough in a band from the SE to the Gulf region.
- . Possible early showers about the NE tropical coast north of Cooktown.
- . Dry and sunny over western QLD.
- . Strong upper level divergence over the SE region will allow for the thunderstorm cells to merge into thundery rain overnight. This rain will persist into the morning hours of Sunday.

SUNDAY:

- . Western trough moving slowly into the eastern interior.
- . Coastal trough somewhere on the Sunshine coast and extending back into the

western trough on the Darling Downs as the "V" again.

- . Short wave 700 and 500hpa troughs moving through the SE region.
- . Early rain areas clearing then afternoon showers and thunderstorms for the SE region.
- . Maximum thunderstorm activity expected north of the trough or convergence zone over the Sunshine Coast, Wide Bay, Burnett and possibly the Capricorn regions, again with possible severe cells.
- . Further south thunderstorms are still possible, generated on the trough over the Darling Downs and drifting east across the SE coastal district but less numerous.
- . Elsewhere the usual showers and thunderstorms NE of the inland trough over eastern districts and extending into the tropics.
- . Dry and sunny through the west and south.

MONDAY:

- . The inland trough now stalls while the coastal trough moves a little north into the Wide Bay zone.
- . Isolated showers and thunderstorms generally in the afternoon NE of the inland trough from the tropics, through eastern districts to the Burnett region.
- . A maximum of thunderstorm activity over the Capricorn, Wide Bay, Burnett districts in the afternoon.
- . The weather actually clears on the SE coast before another surge of SE'lies arrives with late showers and thunderstorms near the southern border.
- . Dry and sunny over the remainder of QLD.

TUESDAY:

- . Not much change over the tropics and near the east coast with isolated showers and thunderstorms in the afternoon, NE of the inland stalled trough, now a dry line.
- . The 500hpa trough now off the east coast intensifies.
- . Once again another maximum of thunderstorm activity over the Capricorn region. Early showers about the SE coast clearing during the day.
- . Dry and sunny over most of the interior.

WEDNESDAY:

- . A new trough enters the Channel Country with no weather.
- . Little change NE of the dry line in the north and east with isolated afternoon showers and thunderstorms south to the Capricorn district.
- . The old trough or coastal convergence zone still on the Capricorn coast.

IDQ100
BUREAU OF METEOROLOGY
Queensland Region
Brisbane Office

FORECAST POLICY FOR QUEENSLAND

Issued at 10:32am EST on Saturday the 17th of November 2012

AM UPDATE:

System failures and SAR requests have been a big distraction this morning, so this is a brief update. For today, elevated convection is ongoing over the SE corner, which should weaken and move offshore in the next hour or two. Unfortunately, it looks like no BBN sonde this morning due to technical issues. Boundary layer should recover this afternoon, with dew points in the mid to high teens beneath relatively steep mid level lapse rates yielding 1500 to 2000 J/Kg of CAPE. Moderate low level cap should be overcome this afternoon with sfc based tstms developing from mid afternoon. Wind fields will be supportive of a few supercells, with very large hail and damaging/destructive winds. Main initiating

boundary lying almost parallel to the deep layer shear vector will favour discrete cells for at least a few hours this afternoon. Weaker instability lies north and west along and east of the inland trough. Convection is likely to persist pretty much through the night, particularly in the far south, becoming elevated during the evening, being supported by warm advection associated with the development of a low level jet into far southern Qld. This will complicate matters into tomorrow, with ACC-R in particular developing an MCC off the northern NSW coast. However, the current policy is looking okay, with moderate to strongly unstable airmass remaining in place over the SE, and moderate instability extending into the tropics east of the inland trough/dryline.

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TODAY:

- . Surface trough near stationary on SE coast, becoming a convergence line and curves back into the Darling Downs to the SW. This trough then merges with western trough over the Darling Downs as a "V".
- . Maximum instability over the SE region with the convergence and heating will lead to early thunderstorm build up and will increase into the afternoon with possible severe cells.
- . General afternoon showers and thunderstorms over the interior NE of the western trough in a band from the SE to the Gulf region.
- . Possible early showers about the NE tropical coast north of Cooktown.
- . Dry and sunny over western QLD.
- . Strong upper level divergence over the SE region will allow for the thunderstorm cells to merge into thundery rain overnight. This rain will persist into the morning hours of Sunday.

SUNDAY:

- . Western trough moving slowly into the eastern interior.
- . Coastal trough somewhere on the Sunshine coast and extending back into the western trough on the Darling Downs as the "V" again.
- . Short wave 700 and 500hpa troughs moving through the SE region.
- . Early rain areas clearing then afternoon showers and thunderstorms for the SE region.
- . Maximum thunderstorm activity expected north of the trough or convergence zone over the Sunshine Coast, Wide Bay, Burnett and possibly the Capricorn regions, again with possible severe cells.
- . Further south thunderstorms are still possible, generated on the trough over the Darling Downs and drift in east across the SE coastal district but less numerous.
- . Elsewhere the usual showers and thunderstorms NE of the inland trough over eastern districts and extending into the tropics.
- . Dry and sunny through the west and south.

MONDAY:

- . The inland trough now stalls while the coastal trough moves a little north into the Wide Bay zone.
- . Isolated showers and thunderstorms generally in the afternoon NE of the inland trough from the tropics, through eastern districts to the Burnett region.
- . A maximum of thunderstorm activity over the Capricorn, Wide Bay, Burnett districts in the afternoon.
- . The weather actually clears on the SE coast before another surge of SE'lies arrives with late showers and thunderstorms near the southern border.
- . Dry and sunny over the remainder of QLD.

TUESDAY:

- . Not much change over the tropics and near the east coast with isolated showers and thunderstorms in the afternoon, NE of the inland stalled trough, now a dry line.
- . The 500hpa trough now off the east coast intensifies.

- . Once again another maximum of thunderstorm activity over the Capricorn region.
- . Early showers about the SE coast clearing during the day.
- . Dry and sunny over most of the interior.

WEDNESDAY:

- . A new trough enters the Channel Country with no weather.
- . Little change NE of the dry line in the north and east with isolated afternoon showers and thunderstorms, south to the Capricorn district.
- . The old trough or coastal convergence zone still on the Capricorn coast.

IDQ10000

BUREAU OF METEOROLOGY
Queensland Region
Brisbane Office

FORECAST POLICY FOR QUEENSLAND

Issued at 3:08pm EST on Saturday the 17th of November 2012

PM UPDATE: Tstms a little more sct than expected through the central west, "watch" type of warning issued for this area for the possibility of some strong gusts. Retrospective fire wx warning also issued for the central west. Lull period in the SE, but fresh convection just beginning to develop over the Downs area. Will go with the possibility of some good falls about the SEC overnight into Sunday. Little time to consider past day 2, brief look seems to indicate that few changes are required.

AM UPDATE:

System failures and SAR requests have been a big distraction this morning, so this is a brief update. For today, elevated convection is ongoing over the SE corner, which should weaken and move offshore in the next hour or two. Unfortunately, it looks like no BBN sonde this morning due to technical issues. Boundary layer should recede this afternoon, with dew points in the mid to high teens beneath relatively steep mid level lapse rates yielding 1500 to 2000 J/Kg of CAPE. Moderate low level cap should be overcome this afternoon with sfc based tstms developing from mid afternoon. Wind fields will be supportive of a few supercells, with very large hail and damaging/destructive winds. Main initiating boundary lying almost parallel to the deep layer shear vector will favour discrete cells for at least a few hours this afternoon. Weaker instability lies north and west along and east of the inland trough. Convection is likely to persist pretty much through the night, particularly in the far south, becoming elevated during the evening, being supported by warm advection associated with the development of a low level jet into far southern Qld. This will complicate matters into tomorrow, with ACC-R in particular developing an MCC off the northern NSW coast. However, the current policy is looking okay, with moderate to strongly unstable airmass remaining in place over the SE, and moderate instability extending into the tropics east of the inland trough/dryline.

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western trough in a band from the SE to the Gulf region.

- . Possible early showers about the NE tropical coast north of Cooktown.
- . Dry and sunny over western QLD.
- . Strong upper level divergence over the SE region will allow for the

thunderstorm cells to merge into thundery rain overnight. This rain will persist into the morning hours of Sunday.

SUNDAY:

- . Western trough moving slowly into the eastern interior.
- . Coastal trough somewhere on the Sunshine coast and extending back into the western trough on the Darling Downs as the "V" again.
- . Short wave 700 and 500hpa troughs moving through the SE region.
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. Elsewhere the usual showers and thunderstorms NE of the inland trough over eastern districts and extending into the tropics.

. Dry and sunny through the west and south.

MONDAY:

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. Isolated showers and thunderstorms generally in the afternoon NE of the inland trough from the tropics, through eastern districts to the Burnett region.

. A maximum of thunderstorm activity over the Capricorn, Wide Bay, Burnett districts in the afternoon.

. The weather actually clears on the SE coast before another surge of SE'lies arrives with late showers and thunderstorms near the southern border.

. Dry and sunny over the remainder of QLD.

TUESDAY:

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. The 500hpa trough now off the east coast intensifies.

. Once again another maximum of thunderstorm activity over the Capricorn region.

. Early showers about the SE coast clearing during the day.

. Dry and sunny over most of the interior.

WEDNESDAY:

. A new trough enters the Channel Country with no weather.

. Little change NE of the dry line in the north and east with isolated afternoon showers and thunderstorms, south to the Capricorn district.

. The old trough or coastal convergence zone still on the Capricorn coast.

IDQ10000

BUREAU OF METEOROLOGY

Queensland Region

Brisbane Office

FORECAST POLICY FOR QUEENSLAND

Issued at 2:30am EST on Sunday the 18th of November 2012

TODAY: A surface trough stretches from NW QLD to the SE interior, and down to a low over NSW. A moist low level jet ahead of the trough is currently producing TS over the Downs. Converging W/NW'lies ahead of the trough a bit above the surface [e.g. at 5000ft] will work with an upper trough over eastern QLD to produce more strong storms over the SE [possibly severe]. The instability associated with the trough will extend to northern QLD too, with the NE coast even a chance of seeing storms steer off the Tablelands [see mid level instability there - e.g. US/AccA]. Dry and sunny through the west and southern interior.

MONDAY:

Another weak mid level trough [700] should come across from the west recharging instability over the eastern and far northern districts. This activity is likely to lie along the zone just inland of the east coast where winds from a weak high in the Coral Sea meet drier SW'lies from over QLD. Again there is potential for the mid level instability to allow TS to move to the NE coast, but I suggest it be reviewed after the new model runs. A southerly wind change along the SE coast may flick showers onshore, though the air over the land will be quite dry, preventing activity getting very far inland at all. Dry and sunny over the remainder of QLD.

TUESDAY and WEDNESDAY:

Not much change with the Coral Sea high still pushing some moisture over the eastern districts, but the upper levels should be more stable given upper ridging, so storms should be fairly isolated. Fine in the west. Early showers on Tuesday about Fraser Island in onshore SE'lies [too southerly further south for activity on the coast, but the islands are a chance].

THURSDAY:

The high should persist over the Coral Sea, and the sfc trough should drift back inland, allowing the storm area to spread into the central parts of the state. Fine in the west.

IDQ10000

BUREAU OF METEOROLOGY

Queensland Region

Brisbane Office

FORECAST POLICY FOR QUEENSLAND

Issued at 10:15am EST on Sunday the 18th of November 2012

AM UPDATE: Upper trough moving through southern Qld has a double structure, with leading shortwave associated with this morning's convection moving offshore, and the trailing impulse arriving in phase with maximum heating during the day. Deep layer shear is maximised about the Wide Bay today under the mid level jet, however outflow from previous convection is providing N'ly flow over the SE coast, which will lead to a move favourable wind structure and stronger shear to go with moderate to strong instability this afternoon. Potential is in place for a few supercells, and given steep lapse rates, these would be capable of very large hail and destructive winds. Activity is likely to merge into an MCS north of Brisbane after dark, with damaging winds and heavy rainfall the main features.

Dryer air mixing to the coast tomorrow should prevent tstms about the southern coast, but this will be a close thing too.

From Wednesday, winds tending easterly as pressures rise along the east coast may lead to some showers returning to the east coast.

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TODAY: A surface trough stretches from NW QLD to the SE interior, and down to a low over NSW. A moist low level jet ahead of the trough is currently producing TS over the Downs. Converging W/NW'lies ahead of the trough a bit above the surface [e.g. at 5000ft] will work with an upper trough over eastern QLD to produce more strong storms over the SE [possibly severe]. The instability associated with the trough will extend to northern QLD too, with the NE coast even a chance of seeing storms steer off the Tablelands [see mid level instability there - e.g. US/AccA]. Dry and sunny through the west and southern interior.

MONDAY:

Another weak mid level trough [700] should come across from the west, recharging instability over the eastern and far northern districts. This activity is likely to lie along the zone just inland of the east coast where winds from a weak high in the Coral Sea meet drier SW'lies from over QLD. Again there is the potential for the mid level instability to allow TS to move to the NE coast, but I suggest it be reviewed after the new model runs. A southerly wind change along the SE coast may flick showers onshore, though the air over the land will be quite dry, preventing activity getting very far inland at all. Dry and sunny over the remainder of QLD.

TUESDAY and WEDNESDAY:

Not much change with the Coral Sea high still pushing some moisture over the eastern districts, but the upper levels should be more stable given upper ridging, so storms should be fairly isolated. Fine in the west. Early showers on Tuesday about Fraser Island in onshore SE'lies [too southerly further south for activity on the coast, but the islands are a chance].

THURSDAY:

The high should persist over the Coral Sea, and the sfc trough should drift back inland, allowing the storm area to also spread into the central parts of the state. Fine in the west.

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BUREAU OF METEOROLOGY
Queensland Region
Brisbane Office

FORECAST POLICY FOR QUEENSLAND

Issued at 2:49pm EST on Sunday the 18th of November 2012

PM UPDATE: No major changes. Storms between Caboolture and southern Sunshine Coast are beginning to train along an old outflow boundary, some heavy falls possible with this activity in the next few hours.

Some tricky coastals for the far south again given convective outflow boundaries and meso-lows. ACC-R develops p-falls under persistent convection off the south coast during Monday, which enhances the S'lies to above 25 knots. This seems possible, but will just increase winds to 20/25 at present, in line with other models.

AM UPDATE: Upper trough moving through southern Qld has a double structure, with leading shortwave associated with this morning's convection moving offshore, and

the trailing impulse arriving in phase with maximum heating during the day. Deep layer shear is maximised about the Wide Bay today under the mid level jet, however outflow from previous convection is providing N'ly flow over the SE coast, which will lead to a more favourable wind structure and stronger shear to go with moderate to strong instability this afternoon. Potential is in place for a few supercells, and given steep lapse rates, these would be capable of very large hail and destructive winds. Activity is likely to merge into an MCS north of Brisbane after dark, with damaging winds and heavy rainfall the main features.

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MONDAY:

Another weak mid level trough [700] should come across from the west, recharging instability over the eastern and far northern districts. This activity is likely to lie along the zone just inland of the east coast where winds from a weak high in the Coral Sea meet drier SW'lies from over QLD. Again there is the potential for the mid level instability to allow TS to move to the NE coast, but I suggest it be reviewed after the new model runs. A westerly wind change along the SE coast may flick showers onshore, though the air over the land will be quite dry, preventing activity getting very far inland at all. Dry and sunny over the remainder of QLD.

TUESDAY and WEDNESDAY:

Not much change with the Coral Sea high still pushing some moisture over the eastern districts, but the upper levels should be more stable given upper ridging, so storms should be fairly isolated. Fine in the west. Early showers on Tuesday about Fraser Island in onshore SE'lies [too southerly further south for activity on the coast, but the islands are a chance].

THURSDAY:

The high should persist over the Coral Sea, and the sfc trough should drift back inland, leaving the storm area to also spread into the central parts of the state. Fine in the west.

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BUREAU OF METEOROLOGY
Queensland Region
Brisbane Office

FORECAST POLICY FOR QUEENSLAND

Issued at 1:18am EST on Monday the 19th of November 2012

TODAY: A weak mid level trough [700] should come across from the west,

recharging instability over the eastern and far northern districts. This activity is likely to lie along the zone just inland of the east coast where winds from a weak ridge in the Coral Sea meet drier SW'lies from over QLD. There is the potential for the mid level instability to allow TS to move to the NE coast, but the low levels will be relatively dry and so it's just a chance. A southerly wind change along the SE coast may flick storms over the SE islands, though the air over the land will be quite dry, preventing activity getting going on the mainland. Dry and sunny over the remainder of QLD.

TUESDAY and WEDNESDAY: Not much change with the Coral Sea high still pushing some moisture over the eastern districts, but the upper levels should be more stable given upper ridging extending from the NT, so storms should be fairly isolated and mostly near the coast where the moisture will be higher and a mid level trough just offshore will assist development. Fine in the west. Early showers on Tuesday about Fraser Island in onshore SE'lies [too southerly further south for activity on the coast, but the islands are a chance]. These southerlies could be strong over southern waters on Tuesday. Getting well above average in the west.

THURSDAY: The high should persist over the Coral Sea, and the surface trough should drift back inland, allowing the storm area to also spread into the central parts of the state however the upper levels will still be ridgy so don't expect phenomenal outbreaks. The upper level trough should remain off the east coast, and may yield some storms in the SE, but the low levels should still be fairly dry, so just a chance. Fine and hot in the west.

FRIDAY: A high east of Victoria may push some low level moisture and SH along the SE coast, whilst the rest of the state should be dry as we get a low level high over the southern interior. Just some moisture penetrating into the Gulf Country might produce storms in the NW, but again limited due to upper level ridging.

Have a great week, Peter.

IDQ10000

BUREAU OF METEOROLOGY
Queensland Region
Brisbane Office

FORECAST POLICY FOR QUEENSLAND

Issue at 10:00 am EST on Monday the 19th of November 2012

AM additions. Inland trough attempting to mix towards the coast, however low level moisture is not drying as rapidly as forecast by models. Added complication of trough on far northern NSW coast moving north faster than on most models [EC and GFS best here], likely to reach Gold Coast next hour or two and then move northwards during the PM. With moisture not drying as fast, slight cooling in middle levels and convergence between the inland trough and the S to SE change, there is an increased chance of storms about the SE Coast today, mainly near the coast and about the southern border ranges. Latest YBBN trace indicates the significant drying above the lower atmosphere with the W'lys - however, this may easily be overcome given the synoptic set-up. Latest models also indicate that winds more likely to reach strong in open waters south of Double Island Point during the evening, reaching Sandy Cape early Tuesday before re-strengthening over southern waters during the PM. Will issue a Strong Wind Warning. Also expect scattered showers sea/coast with the change.

Elsewhere, expect scattered showers and storms over central districts today with the higher moisture and with some shear in place expect potential for severity -

particularly with respect to wind gusts and hail. Storms already over southwest CYP, another area where expect scattered activity today - see latest policy map.

Outlooks are similar, though some differences with the dry line position over the interior but looks like the trough shifts west with more enhanced showers and storms about the central districts again on Tuesday before shifting north with the SE surge into the southeast tropics on Wednesday. Isolated showers clearing about the southeast coast on Wednesday, before some showers and storms again on Thursday with the next trough moving east and from the south.

Fire weather - need to monitor, particularly to the west of the dryline in the coming days and also over the tropical interior with the AM/early PM wind max. Southeast interior one to watch today with the drying and gusty S to SW winds. Birdsville currently Very High too. Will have a look at outlooks with the Fire Weather Forecasts today.

TODAY: A weak mid level trough [700] should come across from the west recharging instability over the eastern and far northern districts. This activity is likely to lie along the zone just inland of the east coast where winds from a weak ridge in the Coral Sea meet drier SW'lies from over QLD. There is the potential for the mid level instability to allow S to move to the NE coast, but the low levels will be relatively dry and so it's just a chance. A southerly wind change along the SE coast may flick storms over the SE islands, though the air over the land will be quite dry, preventing activity getting going on the mainland. Dry and sunny over the remainder of QLD.

TUESDAY and WEDNESDAY: Not much change with the Coral Sea high still pushing some moisture over the eastern districts, but the upper levels should be more stable given upper ridging extending from the NW, so storms should be fairly isolated and mostly near the coast where the moisture will be higher and a mid level trough just offshore will assist development. Fine in the west. Early showers on Tuesday about Fraser Island in onshore SE'lies [too southerly further south for activity on the coast, but the islands are a chance]. These southerlies could be strong over southern waters on Tuesday. Getting well above average in the west.

THURSDAY: The high should persist over the Coral Sea, and the sfc trough should drift back inland, allowing the storm area to also spread into the central parts of the state however the upper levels will still be ridgy so don't expect phenomenal outbreaks. The upper level trough should remain off the east coast, and may yield some storms in the SE, but the low levels should still be fairly dry, so just a chance. Fine and hot in the west.

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Have a great week, Peter.

IDQ10000
BUREAU OF METEOROLOGY
Queensland Region
Brisbane Office

FORECAST POLICY FOR QUEENSLAND

Issued at 2:38pm EST on Monday the 19th of November 2012

PM update: Cloud tried to become better developed over the SE Coast but looks as though the W'lys have won out, despite the sea breeze and SE change moving along the coast. Will maintain some showers about the coast, with a focus on the change as it moves north towards FSI tonight. Further north, storms have occurred over the Wide Bay/Burnett and also over central districts, where a little more intense and a Severe TS warning has been issued. Storms near Mackay currently a little more pulse-like but being monitored. Storms also over the northern tropics, including near Cairns. Latest ACCESS not too different from previous.

AM additions: Inland trough attempting to mix towards the coast, however low level moisture is not drying as rapidly as forecast by models. Added complication of trough on far northern NSW coast moving north faster than on most models [EC and GFS best here], likely to reach Gold Coast next hour or two and then move northwards during the PM. With moisture not drying as fast, slight cooling in middle levels and convergence between the inland trough and the S to SE change, there is an increased chance of storms about the SE Coast today, mainly near the coast and about the southern border ranges. Latest IBBN trace indicates the significant drying above the lower atmosphere with the W'lys - however, this may easily be overcome given the synoptic set-up. Latest models also indicate that winds more likely to reach strong in open waters south of Double Island Point during the evening, reaching Sandy Tap early Tuesday before re-strengthening over southern waters during the PM. Will issue a Strong Wind Warning. Also expect scattered showers sea/coast with the change.

Elsewhere, expect scattered showers and storms over central districts today with the higher moisture and with some shear in place expect potential for severity - particularly with respect to wind gusts and hail. Storms already over southwest CYP, another area where expect scattered activity today - see latest policy map.

Outlooks are similar, though some differences with the dry line position over the interior but looks like the trough shifts west with more enhanced showers and storms about the central districts again on Tuesday before shifting north with the SE surge into the southeast tropics on Wednesday. Isolated showers clearing about the southeast coast on Wednesday, before some showers and storms again on Thursday with the next trough moving east and from the south.

Fire weather needs to monitor, particularly to the west of the dryline in the coming days and also over the tropical interior with the AM/early PM wind max. Southeast interior one to watch today with the drying and gusty S to SW winds. Birdsville currently Very High too. Will have a look at outlooks with the Fire Weather releases today.

TODAY: A weak mid level trough [700] should come across from the west, recharging instability over the eastern and far northern districts. This activity is likely to lie along the zone just inland of the east coast where winds from a weak ridge in the Coral Sea meet drier SW'lies from over QLD. There is the potential for the mid level instability to allow TS to move to the NE coast, but the low levels will be relatively dry and so it's just a chance. A southerly wind change along the SE coast may flick storms over the SE islands, though the air over the land will be quite dry, preventing activity getting going on the mainland. Dry and sunny over the remainder of QLD.

TUESDAY and WEDNESDAY: Not much change with the Coral Sea high still pushing some moisture over the eastern districts, but the upper levels should be more

stable given upper ridging extending from the NT, so storms should be fairly isolated and mostly near the coast where the moisture will be higher and a mid level trough just offshore will assist development. Fine in the west. Early showers on Tuesday about Fraser Island in onshore SE'lies [too southerly further south for activity on the coast, but the islands are a chance]. These southerlies could be strong over southern waters on Tuesday. Getting well above average in the west.

THURSDAY: The high should persist over the Coral Sea, and the sfc trough should drift back inland, allowing the storm area to also spread into the central parts of the state however the upper levels will still be ridgy so don't expect phenomenal outbreaks. The upper level trough should remain off the east coast, and may yield some storms in the SE, but the low levels should still be fairly dry, so just a chance. Fine an hot in the west.

FRIDAY: A high east of Victoria may push some low level moisture and FH along the SE coast, whilst the rest of the state should be dry as we get a low level high over the southern interior. Just some moisture penetrating into the Gulf Country might produce storms in the NW, but again limited due to upper level ridging.

Have a great week, Peter.

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2014

RFC ROSTERS

Date of Issue: 16/08/2012, Effective 16/08/2012

SPOC ROSTER

| | 1 | 2 | 3 | 4 | 5 |
|-----|-------|-------|-------|-------|-------|
| Thu | D | P2 | ~~~ | ~~~ | N/N |
| Fri | N | D | ~~~ | ~~~ | N |
| Sat | N | N | D | ~~~ | ~~~ |
| Sun | ~~~ | N/N | D | ~~~ | ~~~ |
| Mon | ~~~ | N | N | D | ~~~ |
| Tue | ~~~ | ~~~ | N/N | D | ~~~ |
| Wed | P1 | ~~~ | N | N | D |
| | 31.75 | 44.25 | 48.00 | 28.75 | 31.00 |

SPOC SHIFTS

D ... 0645 - 1930 (11.75h)
 N ... 1845 - 2400 (5.25h)
 0001 - 0730 (7.00h)
 P1 ... 0830 - 1645 (7.75h)
 P2 ... 0830 - 1700 (8h)

PO2 ROSTER

| | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 |
|-----|---------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-----|-------|-------|
| Thu | P2 | ~~~ | ~~~ | N3 | N2/N2 | D3 | D2 | D1 | ~~~ | ~~~ | ~~~ | N1/N3 | N1 |
| Fri | D3 | ~~~ | ~~~ | ~~~ | N2 | N2 | N1 | ~~~ | D1 | ~~~ | ~~~ | N3 | N1/N3 |
| Sat | N2 | D1 | ~~~ | ~~~ | ~~~ | N2 | N1/N3 | N1 | D2 | D3 | ~~~ | ~~~ | N3 |
| Sun | N2/N2 | D2 | D1 | ~~~ | ~~~ | ~~~ | ~~~ | N1/N3 | N1 | D3 | ~~~ | ~~~ | ~~~ |
| Mon | N2 | N1 | D2 | D3 | ~~~ | ~~~ | ~~~ | N3 | N1/N3 | N2 | D1 | ~~~ | ~~~ |
| Tue | ~~~ | N1/N3 | N1 | D3 | ~~~ | ~~~ | ~~~ | ~~~ | N3 | N2/N2 | D2 | D1 | ~~~ |
| Wed | ~~~ | N3 | N1/N3 | N2 | D3 | D2 | ~~~ | ~~~ | ~~~ | N2 | N1 | D2 | P1 |
| | 43.25 | 42.50 | 34.50 | 35.50 | 31.00 | 33.50 | 32.00 | 42.50 | 42.5 | 47 | 26 | 38 | 29 |
| | 477.75 | | | | | | | | | | | | |

PO2 SHIFTS

D1... 0730 - 1830 (10h)
 D2... 0730 - 2000 (11.5h)
 D3... 0730 - 2000 (11.5h)
 N1... 1930 - 2400 (4.5h)
 0001 - 0800 (7.5h)
 N2... 1830 - 2400 (5.5h)
 0001 - 0800 (7.5h)
 N3... 2400 - 2400 (1h)
 0001 - 0800 (8h)
 P1... 0730 - 1600 (8h)
 P2... 0730 - 1545 (7.75h)

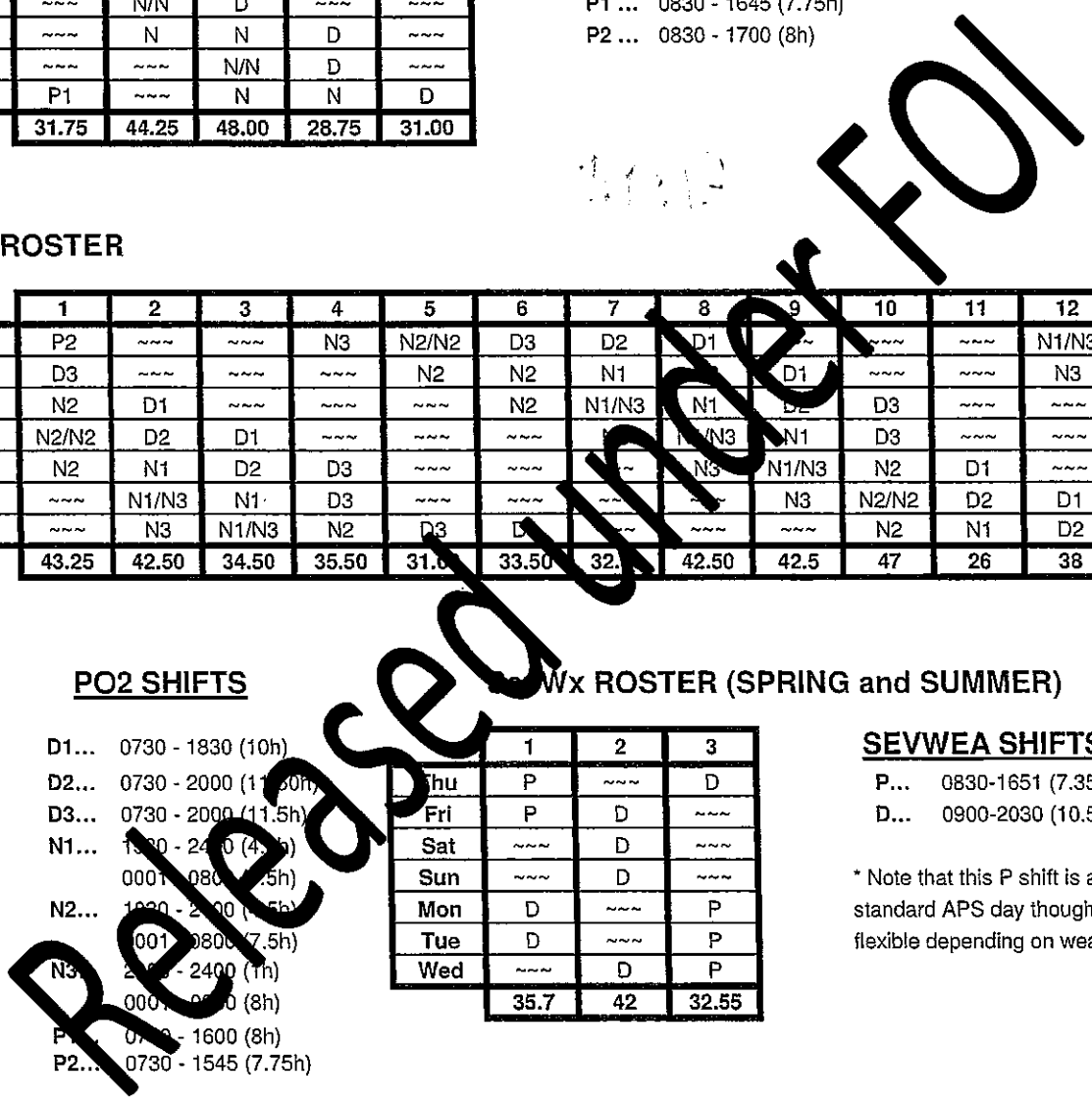
Wx ROSTER (SPRING and SUMMER)

| | 1 | 2 | 3 |
|-----|------|-----|-------|
| Thu | P | ~~~ | D |
| Fri | P | D | ~~~ |
| Sat | ~~~ | D | ~~~ |
| Sun | ~~~ | D | ~~~ |
| Mon | D | ~~~ | P |
| Tue | D | ~~~ | P |
| Wed | ~~~ | D | P |
| | 35.7 | 42 | 32.55 |

SEVWEA SHIFTS

P... 0830-1651 (7.35) *
 D... 0900-2030 (10.5)

* Note that this P shift is a standard APS day though is flexible depending on weather



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OAKY 2 PERSON ROSTER*Jan 2011*

| | PERSON 1 | PERSON 2 |
|------------------|--------------------|--------------------|
| Thursday | 0515 – 1300 (7.25) | 1230 – 2030 (7.5) |
| Friday | 0515 – 1645 (11) | ROD |
| Saturday | ROD | ROD |
| Sunday | ROD | ROD |
| Monday | 1230 – 2030 (7.5) | 0515 – 1300 (7.25) |
| Tuesday | 1230 – 2215 (9.25) | 0515 – 1300 (7.25) |
| Wednesday | 1230 – 2215 (9.25) | 0515 – 1300 (7.25) |
| | 44.25 Hours | 29.25 Hours |

Total = 73.5h = 2 x 36.75 weeks

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Released under FOI

AMBERLEY 2 PERSON ROSTER*Jan 2011*

| | PERSON 1 | PERSON 2 |
|------------------|--------------------|--------------------|
| Thursday | 0500 – 1330 (8.00) | 1300 – 2130 (8.00) |
| Friday | 0500 – 1500 (9.5) | ROD |
| Saturday | ROD | ROD |
| Sunday | ROD | ROD |
| Monday | 1300 – 2130 (8.00) | 0500 – 1330 (8.00) |
| Tuesday | 1300 – 2130 (8.00) | 0500 – 1330 (8.00) |
| Wednesday | 1300 – 2130 (8.00) | 0500 – 1330 (8.00) |
| | 41.5 Hours | 32.0 Hours |

Total = 73.5h = 2 x 36.75 weeks

Released under FOI

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