

Document 1						
Date and Time	State or territory	Title	Agency	To	Briefing Details & Key Messages	Customer Intelligence
2/12/2025 15:41	TAS	TFS █████ brief 02/12/2025	TFS	█████	Looking at doing a hazard reduction burn near the Go-Kart track south near Turners Marsh on Friday. Interested in RH and winds. Gave him NW by 10-20 km/h mid afternoon with RH possibly lowering to 50%, maybe 45% if his lucky. Will call again at 9am tomorrow for an update.	
3/12/2025 8:43	TAS	TFS █████ Northern Tas brief 03/12/2025	TFS	█████ Northern Tas	█████ is planning as burn near Turners Marsh on Friday/Saturday. Asked about RH and wind from Friday onwards. RH lower on Friday as are winds. RH slightly higher on Sat, but winds also higher. Showers developing.	
3/12/2025 10:02	TAS	TFS █████ brief 03/12/2025	TFS	█████	Advised █████ about the conditions tomorrow. Covered winds, precip and TS risk (EC only and a low percentage chance). Summary of the week ahead	
3/12/2025 14:00	TAS	TFS PWS Weekly Fire Brief brief 03/12/2025	TFS, #PWS	Weekly Fire Brief	•High Fire Danger expected about eastern and central districts on Thursday •Damaging winds with gusts to 100 km/h about parts of eastern and central Tasmania on Thursday •Ridge dominated on Friday •Cold fronts on Saturday and Monday will bring more cold weather	
4/12/2025 14:19	TAS	TFS - FBAN █████ brief 04/12/2025	TFS	█████	Called to confirm briefing requirements for an emergency warning fire to the NW of Hobart. Damaging NW winds are likely to continue all afternoon and into this evening, with a dry change overnight. No additional briefing requests yet.	Dan will call back if there is any requests for extended coverage into this evening.
4/12/2025 9:40	TAS	TFS - BRU █████ brief 04/12/2025	TFS	█████	Burn at Turners Marsh on Friday. Wanted info on wind speeds and RH for the burn location on Friday. 15-25 km/h in the afternoon and RH 35-40%	
4/12/2025 14:30	TAS	TFS █████ brief 04/12/2025	TFS	█████	Briefing about aviation conditions in SE and E Tas and likely easing in the damaging winds. Currently TFS cannot get aircraft to the incidents.	
4/12/2025 20:40	TAS	TFS - Dolphin Sands Rd █████ brief 04/12/2025	TFS	█████	Called █████ to advised that we had observed the S'y change moving through Swansea on Wunderground obs between 8:20-8:30pm EDT and it should be moving through the fire ground imminently. This was in line with the IWF which had the change at 8pm.	
7/12/2025 13:00	TAS	TFS SES Statewide - SOC █████ brief 07/12/2025	TFS, #SES Statewide	█████	Briefing about the weather expected Monday and Tuesday mostly East coast, wrt winds (gusts included), humidity, FBI.	
8/12/2025 18:06	TAS	TFS - Dolphin Sands Rd █████ brief 08/12/2025	TFS	█████	Rang █████ to let him know that there is a risk winds and gusts may remain elevated at the fire ground for the next 2-3 hours (2000 EDT to 2100 EDT). Most likely scenario is still what is indicated on the IWF (winds diurnally reducing), although topographic mixing to the west may keep winds and gusts elevated for a little longer.	Thanks was given for the heads up
9/12/2025 9:07	TAS	TFS - Duty FBAn █████ brief 09/12/2025	TFS	█████	Briefing state FBAn █████ about today. Told here RH may be lower that forecast across the east/southeast, possibly lowering to ~15%. There would likely be a rapid onset of low RH and gusty winds (80-90km/hr) from around 11-- to 1200. Abundant sunshine likely which may affect fire behaviour. Noted that although the East Coast district FB is 43, forest fuels have FBIs in the high 40s.	
9/12/2025 15:20	TAS	TFS - State FBAn █████ brief 09/12/2025	TFS	█████	█████ called for intel about a fire near St-Helens (NE Tas). She reported observed with were more NW'y than what grids were suggesting and she wanted a forecast. I told her "winds are likely to remain mostly W'y over the next hour or so, tending WSW'y later this afternoon. A SE'y sea breeze is expected to arrive early this evening, possibly as early as 5PM but more likely around 7 or 8PM, with speeds around 20 to 30 km/hr. Winds will ease late this evening."	
3/12/2025 14:00	TAS	TFS PWS Weekly Fire Brief brief 03/12/2025	TFS, #PWS	Weekly Fire Brief	•High Fire Danger expected about eastern and central districts on Thursday •Damaging winds with gusts to 100 km/h about parts of eastern and central Tasmania on Thursday •Ridge dominated on Friday •Cold fronts on Saturday and Monday will bring more cold weather	

From	Agency department	Briefing Material Link	CRM	Content Type	Phenomena	Type of briefing	Category	To type	Item Type	Path
Mark Anolak			FALSE	Item		Verbal / phone	IWF / Prescribed Burn	Emergency Services	Item	sites/CSGroup/Lists/DSS HPR Tracker and Log
Matthew Thomas			FALSE	Item		Verbal / phone	Event briefing / update	Emergency Services	Item	sites/CSGroup/Lists/DSS HPR Tracker and Log
Matthew Thomas			FALSE	Item		Verbal / phone	Event briefing / update	Emergency Services	Item	sites/CSGroup/Lists/DSS HPR Tracker and Log
Matthew Thomas			FALSE	Item		Video / screen share	Routine briefing	Emergency Services	Item	sites/CSGroup/Lists/DSS HPR Tracker and Log
Luke Johnston	FBA		FALSE	Item		Verbal / phone	Event briefing / update	Emergency Services	Item	sites/CSGroup/Lists/DSS HPR Tracker and Log
Matthew Thomas	BRU		FALSE	Item		Verbal / phone	IWF / Prescribed Burn	Emergency Services	Item	sites/CSGroup/Lists/DSS HPR Tracker and Log
Matthew Thomas			FALSE	Item		Verbal / phone	Event briefing / update	Emergency Services	Item	sites/CSGroup/Lists/DSS HPR Tracker and Log
Thomas Delamotte	Dolphin Sands Rd		FALSE	Item	Fire	Verbal / phone	IWF / Prescribed Burn	Emergency Services	Item	sites/CSGroup/Lists/DSS HPR Tracker and Log
Matthew Thomas	SOC		FALSE	Item		Video / screen share	Event briefing / update	Emergency Services	Item	sites/CSGroup/Lists/DSS HPR Tracker and Log
Phoebe de Wilt	Dolphin Sands Rd		FALSE	Item	Fire	Verbal / phone	IWF / Prescribed Burn	Emergency Services	Item	sites/CSGroup/Lists/DSS HPR Tracker and Log
Alex Melitsis	Duty FBA		FALSE	Item	Fire	Verbal / phone	Event briefing / update	Emergency Services	Item	sites/CSGroup/Lists/DSS HPR Tracker and Log
Alex Melitsis	State FBA		FALSE	Item	Fire	Verbal / phone	Event briefing / update	Emergency Services	Item	sites/CSGroup/Lists/DSS HPR Tracker and Log
Matthew Thomas			FALSE	Item		Video / screen share	Routine briefing	Emergency Services	Item	sites/CSGroup/Lists/DSS HPR Tracker and Log

RELEASED UNDER FREEDOM OF INFORMATION

Document 2

From: [Tas Duty Officer](#)
To: [fban; Fire.DutyOfficer@parks.tas.gov.au; \[REDACTED\]@sttas.com.au; \[REDACTED\]@sttas.com.au;](#)
[\[REDACTED\]@sttas.com.au](#)
Cc: [Tas Duty Officer](#)
Subject: BoM Probabilistic Lightning Brief - 01-12-2025, 10:08 AM [SEC=OFFICIAL]
Date: Monday, 1 December 2025 10:08:59 AM
Attachments: [BoM Probabilistic Lightning Brief - 2025-12-01_10_08.pdf](#)

Hello,

Please find attached today's lightning brief. A [short training video is available here](#).

If you find the brief useful or have any feedback, please if fill out [this short survey](#).

If you have any questions about the lightning forecast, please call the duty meteorologist on [\[REDACTED\]](#) or email TasDutyOfficer@bom.gov.au.

Tasmania Duty [Officer](#)

Bureau of Meteorology

Hobart

Probabilistic Lightning Forecast Trial

Issued Monday, 1 December 2025 - 10:08 AM

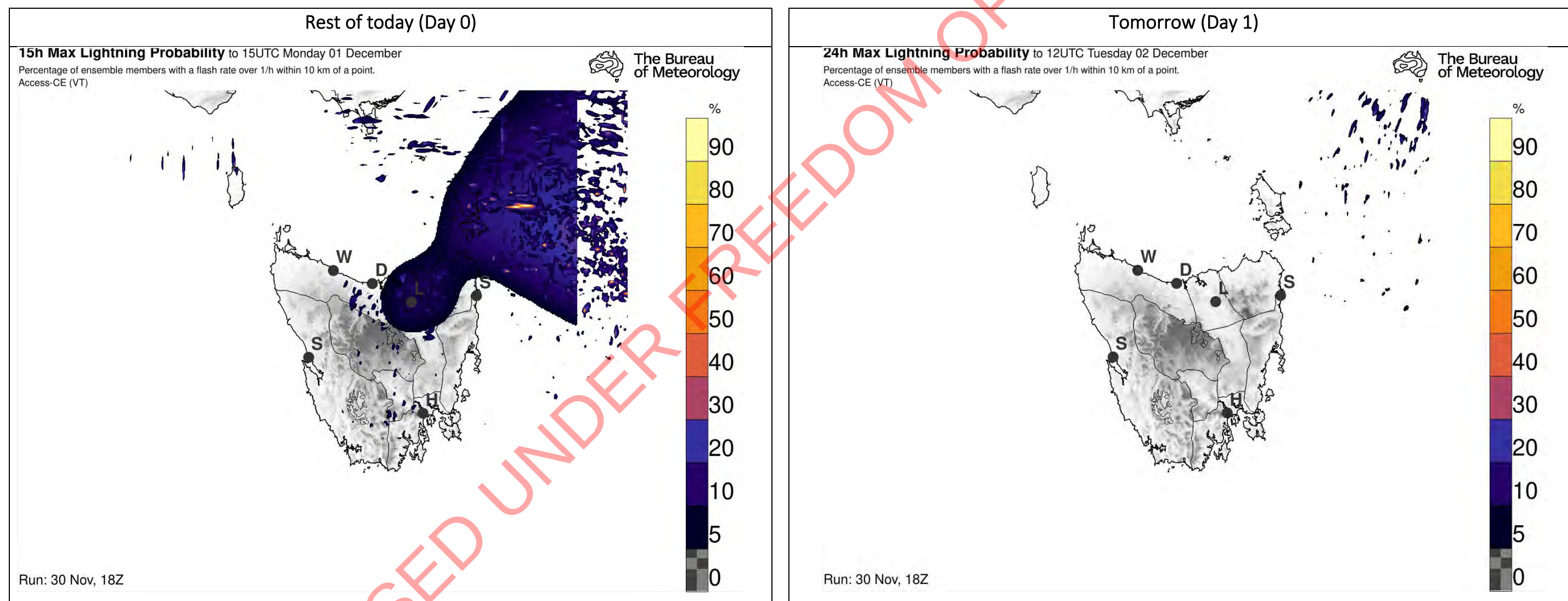
DO NOT DISTRIBUTE. Experimental briefing aide only – use [official thunderstorm forecasts](#) for operational decisions

The purpose of this trial is to provide a small group of technical Tasmania fire agency personnel with various state-of-the-art lightning forecast data. Three different lightning forecast systems are provided, each will their own advantages and limitations. During the trial, we'll collaboratively assess how useful each system is for operational preparedness and decision making, with the results informing future lightning services. This brief will be issued daily around 9 AM.

There are three types of lightning data provided; the high spatial resolution **ACCESS City Ensemble**, the European Centre for Midrange Weather Forecasting (**ECMWF**) **Ensemble**, and **ACCESS Calibrated Thunder**. The data is visualised as a 'daily probability of lightning within 10 km of a point' image, where warmer colours indicate higher probabilities. This broadly represents the areas that are most likely to get lightning. Note that the data does not discern between cloud-to-ground or intercloud lightning, and does not indicate how much lightning will occur; only the likelihood of getting at least 1 strike within 10 km of a point (although often there will be more lightning coincident with higher probabilities).

For more information, watch the [15-minute training video](#) here. Feel free to call or email the duty meteorologist if you'd like to discuss or clarify any of the data you see; [REDACTED]

High Resolution ACCESS City Ensemble – Probability of lightning within 10km of a point

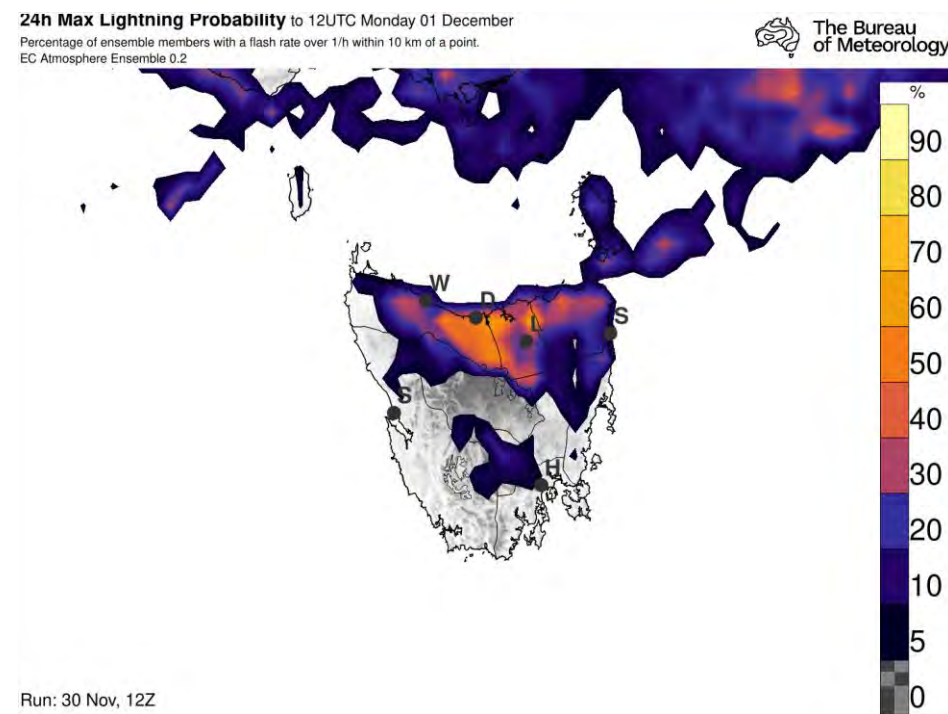


Notes: The ACCESS-City Ensemble is a high-resolution model that forecasts the lightning flash rate at every 2.2km point across Tasmania. The model is run 12 times to come up with an ensemble of 12 possible forecasts. The percentage colour scheme represents the percentage of those 12 models that are forecasting at least 1 lightning strike within 10 km of a point during that day. The warmer colours mean that more models are forecasting lightning, which implies that the probability of lightning is higher. The percentage contours are based on smoothed model data and give a broader idea of the probability of lightning.

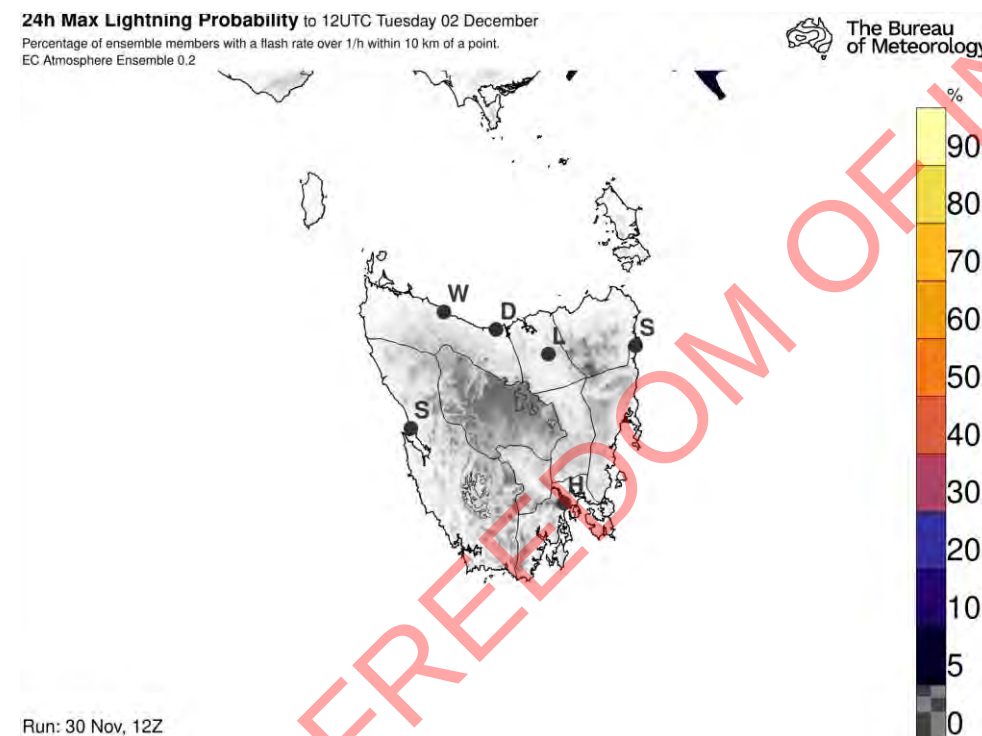


ECMWF Ensemble 14-day forecast – Probability of a lightning strike within 10km of a point

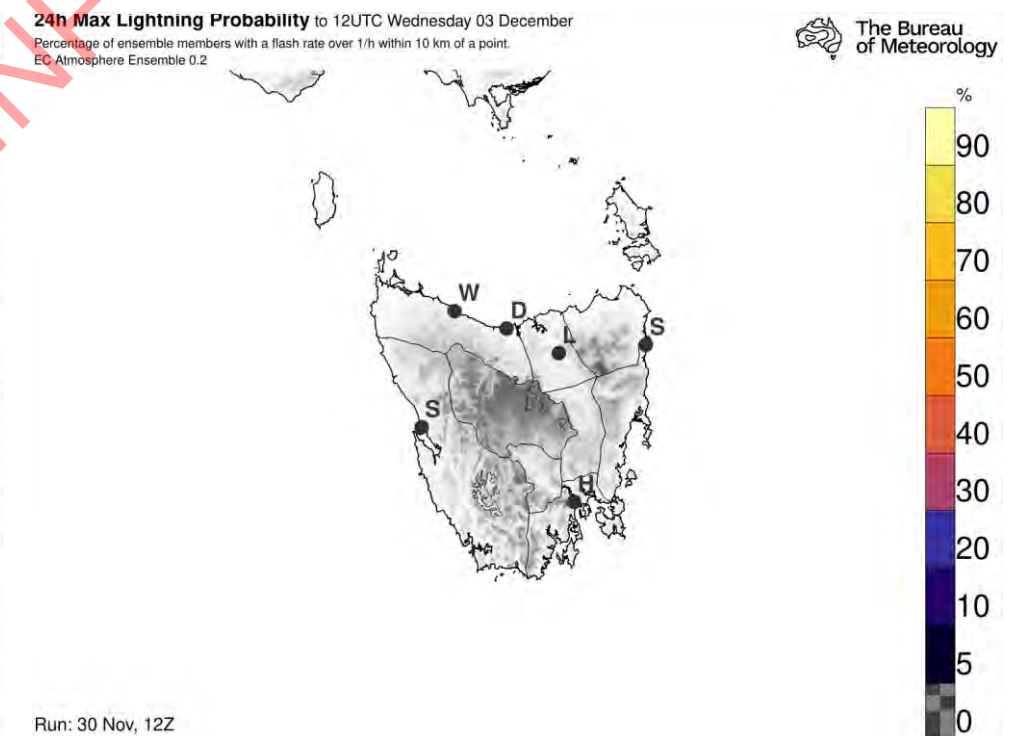
Today (Day 0)



Tomorrow (Day 1)



Day 2



Notes: The ECMWF Ensemble is run 51 times to come up with an ensemble of 51 possible forecasts. The percentage colour scheme represents the percentage of those models that are forecasting at least 1 lightning strike within 10 km of a point during that day. The warmer colours mean that more models are forecasting lightning, which implies that the probability of lightning is higher. The percentage contours are based on smoothed model data and give a broader idea of the probability of lightning.

This system forecasts lightning for the following two weeks. The full two-week forecast is provided in this brief, however it is expected that the forecast from Day 8 onwards will be very 'noisy' and will rarely show a clear lightning signal – treat it with caution.



ECMWF Ensemble 14-day forecast – Probability of a lightning strike within 10km of a point

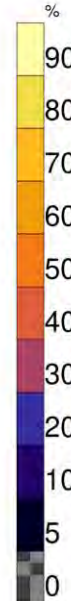
Day 3

24h Max Lightning Probability to 12UTC Thursday 04 December
Percentage of ensemble members with a flash rate over 1/h within 10 km of a point.
EC Atmosphere Ensemble 0.2



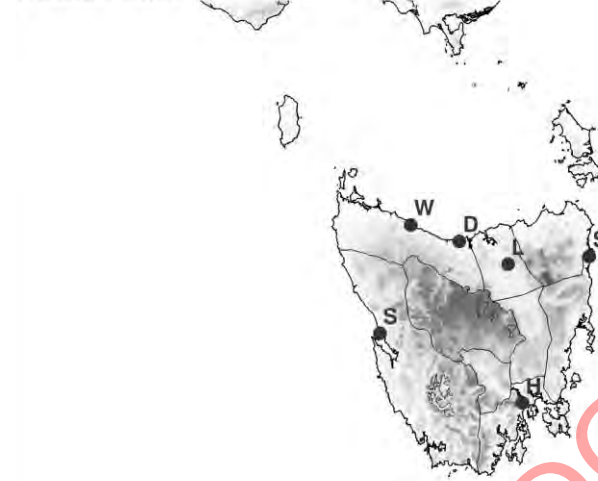
Run: 30 Nov, 12Z

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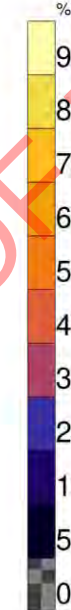
Day 4

24h Max Lightning Probability to 12UTC Friday 05 December
Percentage of ensemble members with a flash rate over 1/h within 10 km of a point.
EC Atmosphere Ensemble 0.2



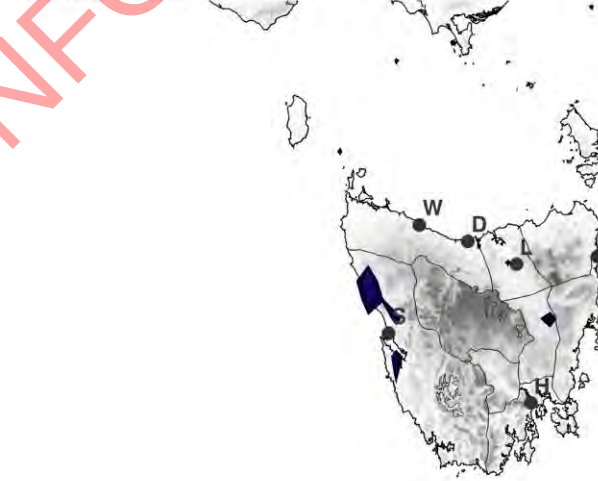
Run: 30 Nov, 12Z

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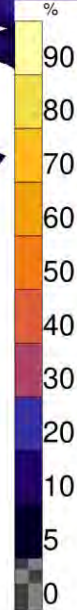
Day 5

24h Max Lightning Probability to 12UTC Saturday 06 December
Percentage of ensemble members with a flash rate over 1/h within 10 km of a point.
EC Atmosphere Ensemble 0.2



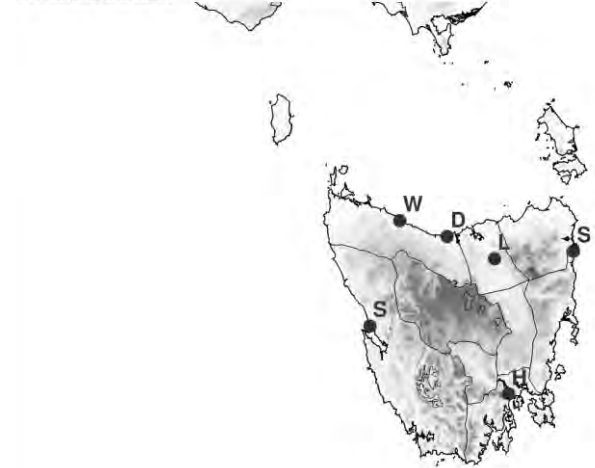
Run: 30 Nov, 12Z

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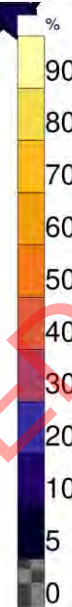
Day 6

24h Max Lightning Probability to 12UTC Sunday 07 December
Percentage of ensemble members with a flash rate over 1/h within 10 km of a point.
EC Atmosphere Ensemble 0.2



Run: 30 Nov, 12Z

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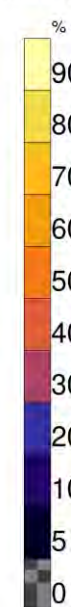
Day 7

24h Max Lightning Probability to 12UTC Monday 08 December
Percentage of ensemble members with a flash rate over 1/h within 10 km of a point.
EC Atmosphere Ensemble 0.2



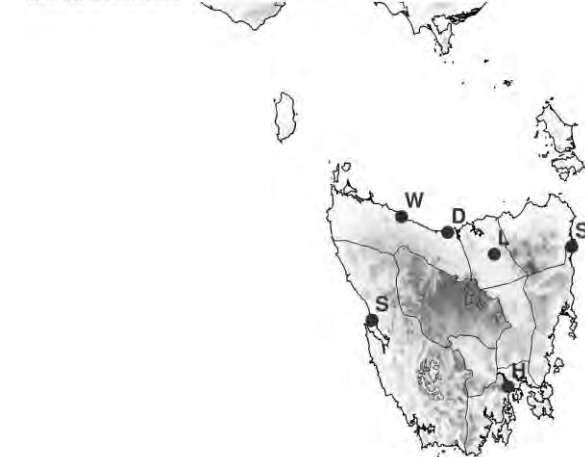
Run: 30 Nov, 12Z

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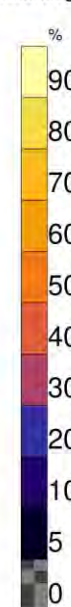
Day 8

24h Max Lightning Probability to 12UTC Tuesday 09 December
Percentage of ensemble members with a flash rate over 1/h within 10 km of a point.
EC Atmosphere Ensemble 0.2



Run: 30 Nov, 12Z

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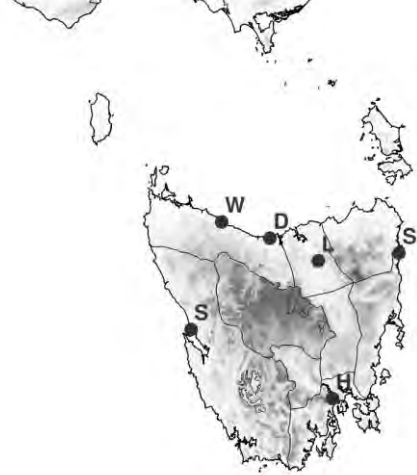




ECMWF Ensemble 14-day forecast – Probability of a lightning within 10km of a point

Day 9

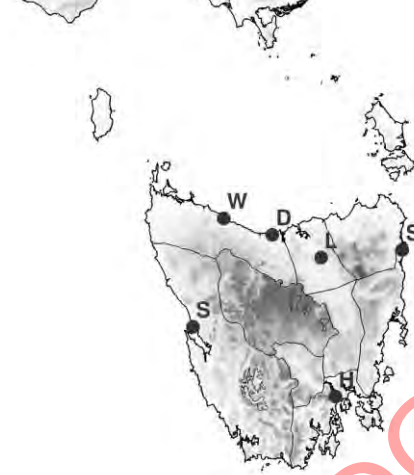
24h Max Lightning Probability to 12UTC Wednesday 10 December
Percentage of ensemble members with a flash rate over 1/h within 10 km of a point.
EC Atmosphere Ensemble 0.2



Run: 30 Nov, 12Z

Day 10

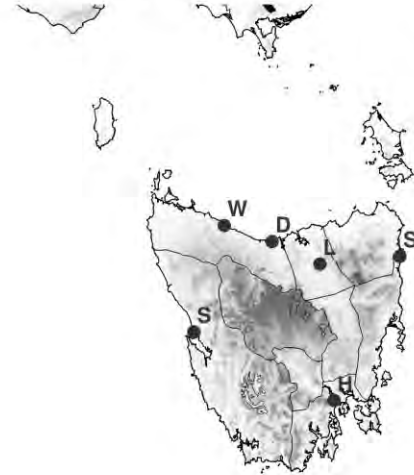
24h Max Lightning Probability to 12UTC Thursday 11 December
Percentage of ensemble members with a flash rate over 1/h within 10 km of a point.
EC Atmosphere Ensemble 0.2



Run: 30 Nov, 12Z

Day 11

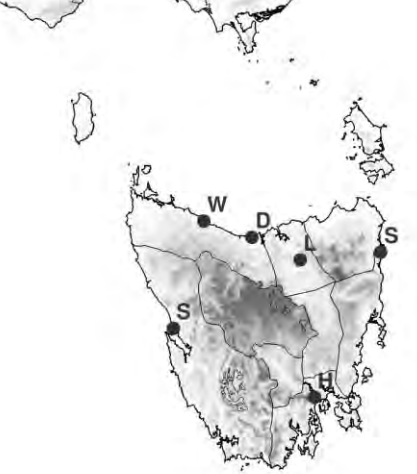
24h Max Lightning Probability to 12UTC Friday 12 December
Percentage of ensemble members with a flash rate over 1/h within 10 km of a point.
EC Atmosphere Ensemble 0.2



Run: 30 Nov, 12Z

Day 12

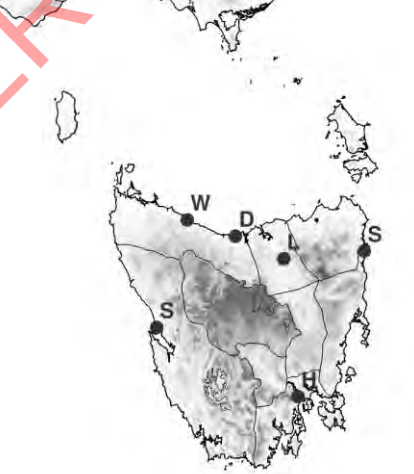
24h Max Lightning Probability to 12UTC Saturday 13 December
Percentage of ensemble members with a flash rate over 1/h within 10 km of a point.
EC Atmosphere Ensemble 0.2



Run: 30 Nov, 12Z

Day 13

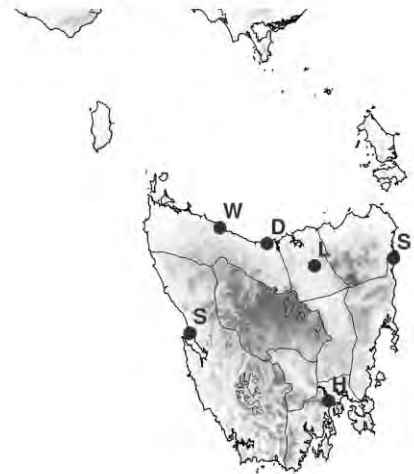
24h Max Lightning Probability to 12UTC Sunday 14 December
Percentage of ensemble members with a flash rate over 1/h within 10 km of a point.
EC Atmosphere Ensemble 0.2



Run: 30 Nov, 12Z

Day 14

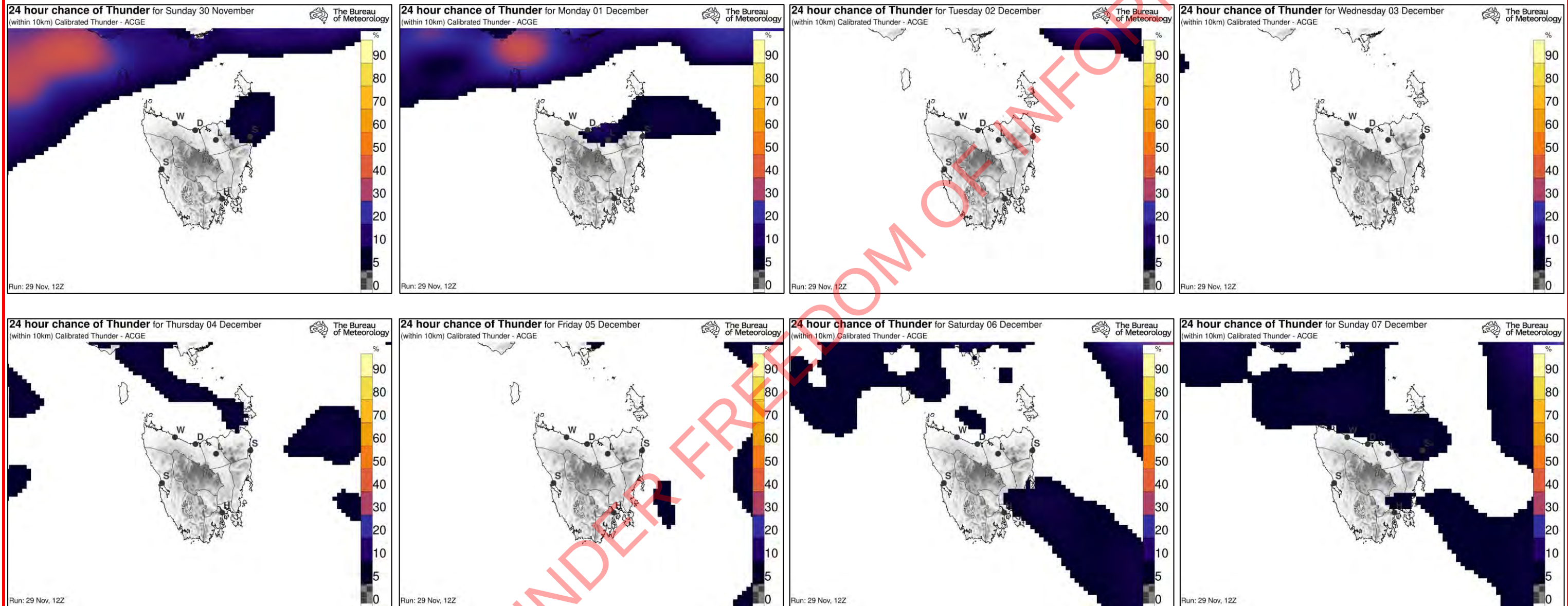
24h Max Lightning Probability to 12UTC Monday 15 December
Percentage of ensemble members with a flash rate over 1/h within 10 km of a point.
EC Atmosphere Ensemble 0.2



Run: 30 Nov, 12Z



ACCESS Global Ensemble - Calibrated Thunder – Probability of a lightning within 10km of a point

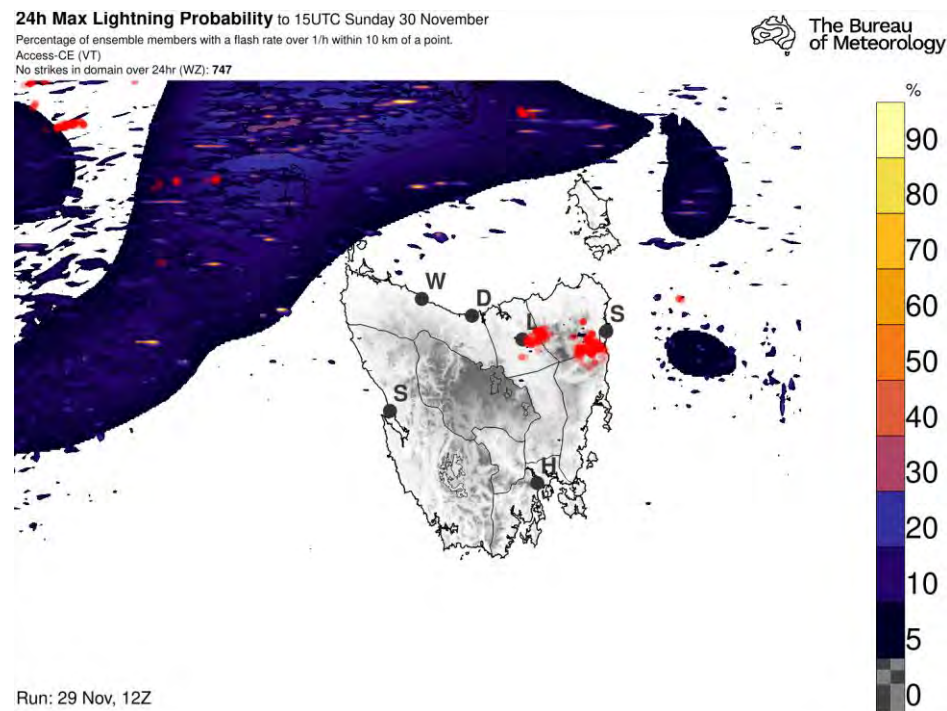


Notes: ACCESS Global Ensemble is a lower resolution model that is run 18 times to derive an ensemble of 18 possible forecasts. Calibrated Thunder is a thunderstorm forecast method whereby a sophisticated algorithm is run using the ACCESS Global Ensemble models to derive and probability of lightning. This lightning forecast is then 'calibrated' against a climatology of observed lightning strike to help bias correct the lightning forecast, resulting in more realistic probabilities. The percentage colour scheme represents the probability of at least 1 lightning strike within 10 km of a point during that day.

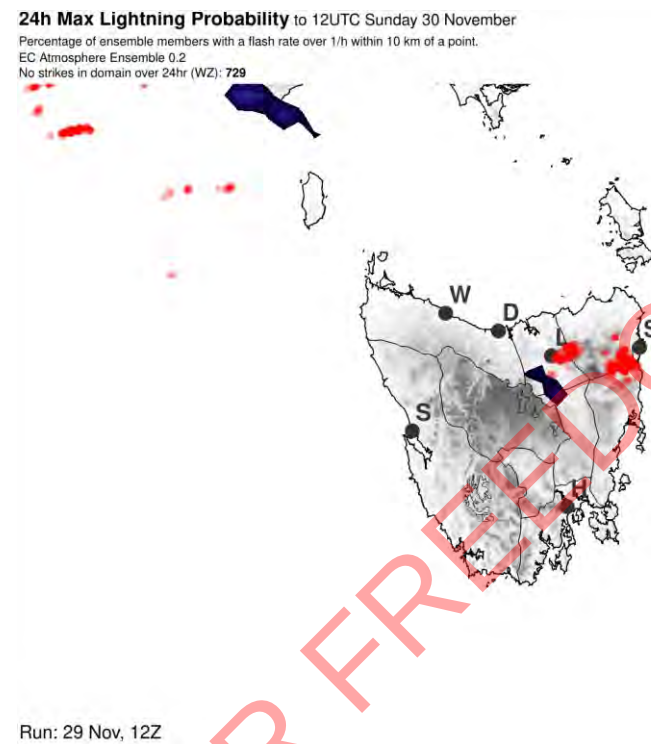


Visual Verification – Yesterday's lightning modeling overlaid with detected lightning strikes

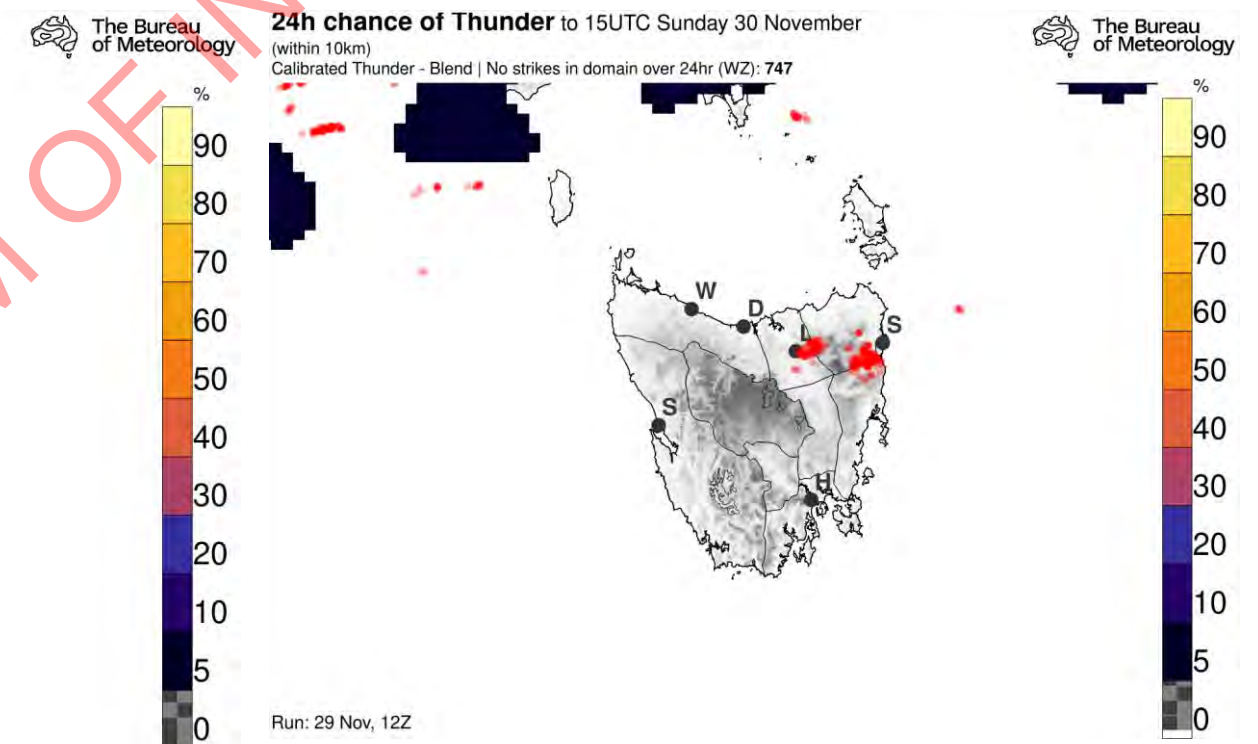
High Resolution ACCESS City Ensemble



ECMWF Ensemble



ACCESS Global Ensemble Calibrated Thunder



Notes: Here, yesterday's lightning forecasts are overlaid with yesterday's detected lightning strikes (red dots). Inspecting this verification each day will help us understand the strengths and limitations of each system, and how we might be able to use them in operations.

From: [Tas Duty Officer](#)
To: [fban; Fire.DutyOfficer@parks.tas.gov.au; \[REDACTED\]@sttas.com.au; \[REDACTED\]@sttas.com.au;](#)
[\[REDACTED\]@sttas.com.au](#)
Cc: [Tas Duty Officer](#)
Subject: BoM Probabilistic Lightning Brief - 02-12-2025, 11:26 AM [SEC=OFFICIAL]
Date: Tuesday, 2 December 2025 11:26:17 AM
Attachments: [BoM Probabilistic Lightning Brief - 2025-12-02 11_26.pdf](#)

Hello,

Please find attached today's lightning brief. A [short training video is available here](#).

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If you have any questions about the lightning forecast, please call the duty meteorologist on [\[REDACTED\]](#) or email TasDutyOfficer@bom.gov.au.

Tasmania Duty [Officer](#)

Bureau of Meteorology

Hobart

Probabilistic Lightning Forecast Trial

Issued Tuesday, 2 December 2025 - 11:25 AM

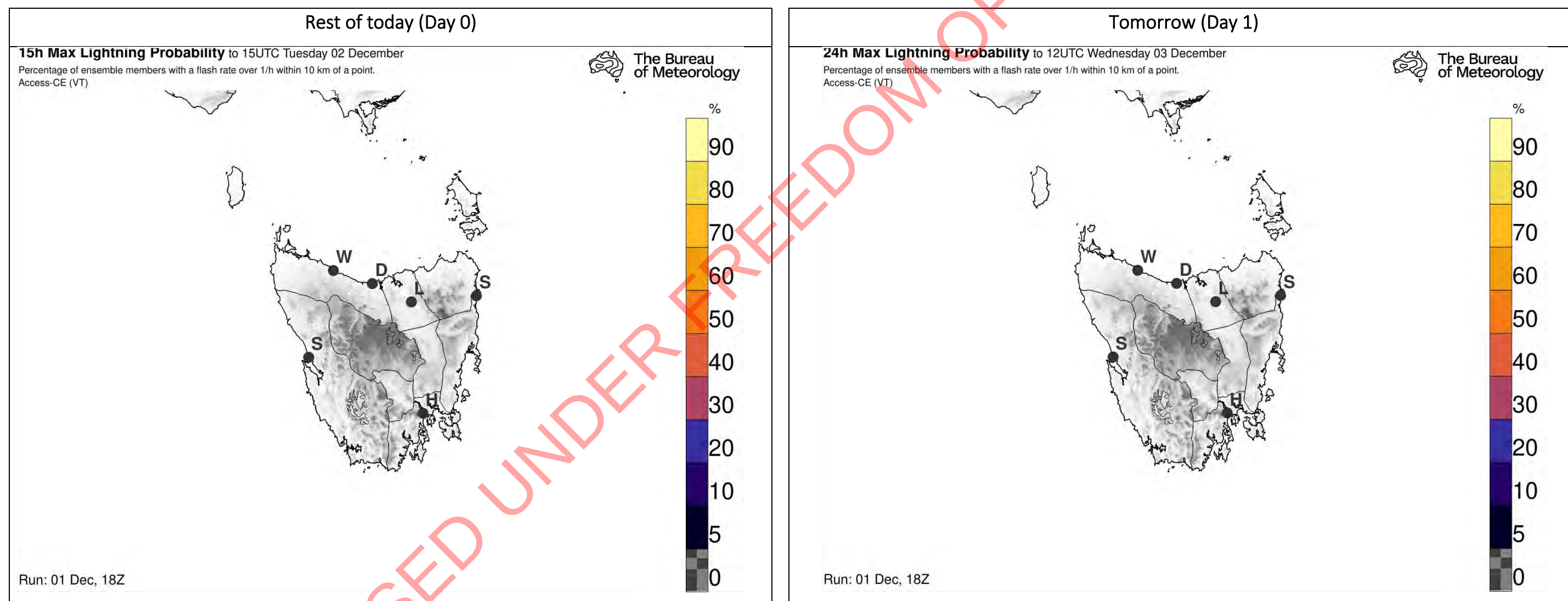
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High Resolution ACCESS City Ensemble – Probability of lightning within 10km of a point

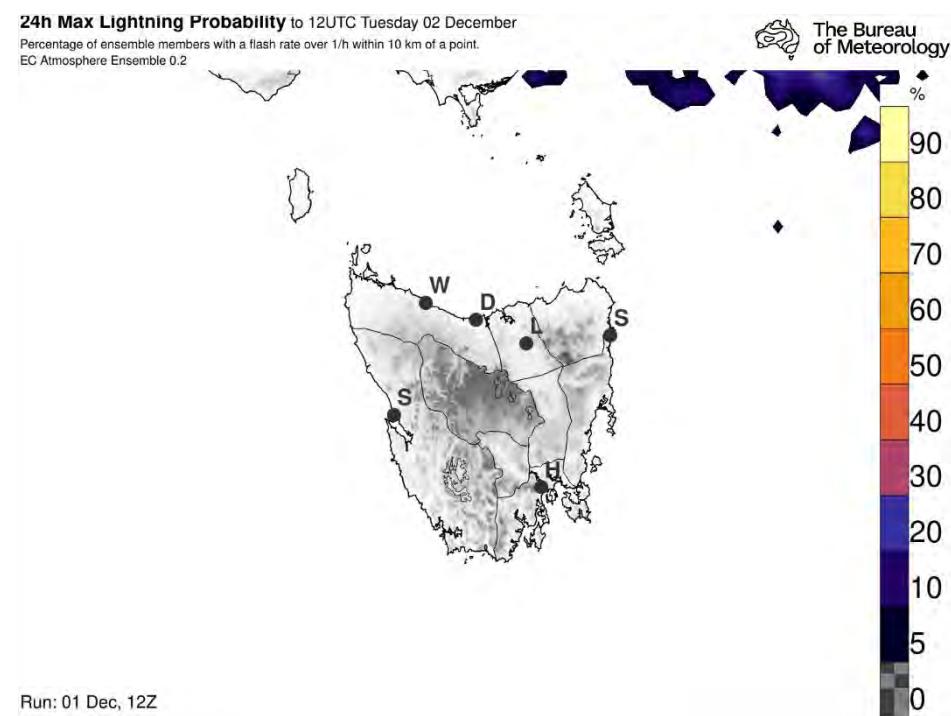


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ECMWF Ensemble 14-day forecast – Probability of a lightning strike within 10km of a point

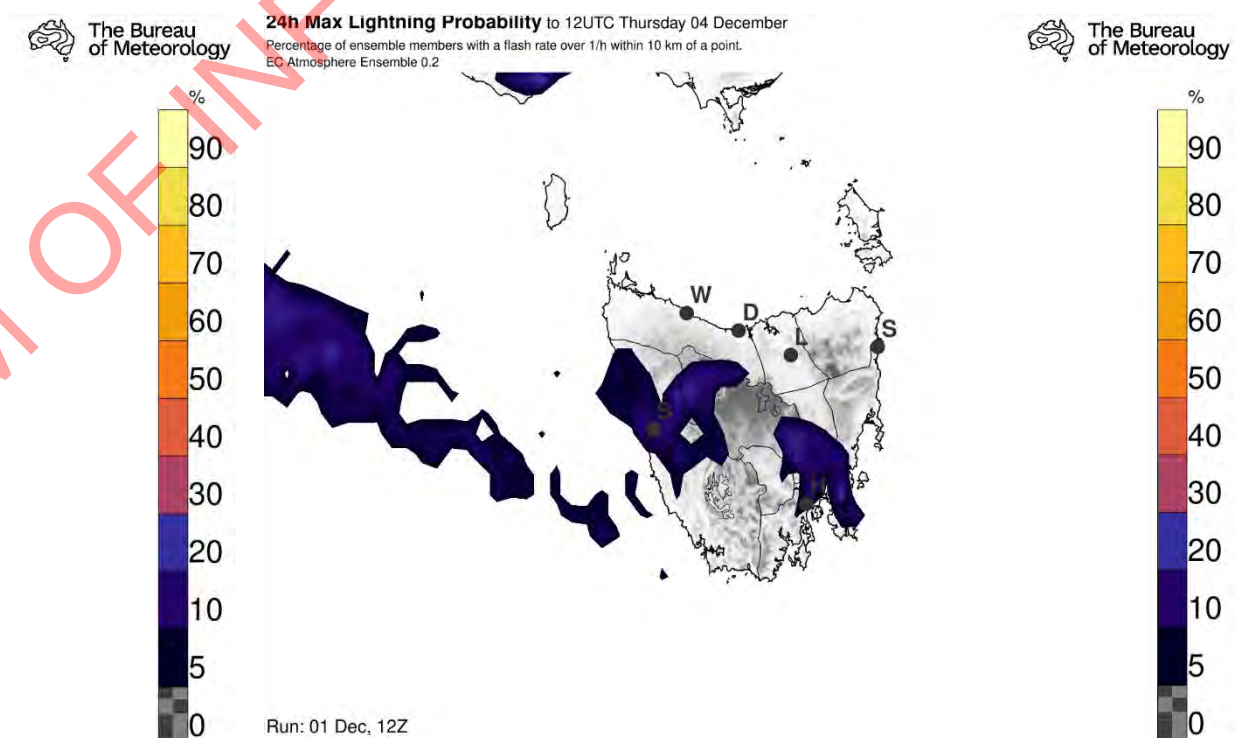
Today (Day 0)



Tomorrow (Day 1)



Day 2



Notes: The ECMWF Ensemble is run 51 times to come up with an ensemble of 51 possible forecasts. The percentage colour scheme represents the percentage of those models that are forecasting at least 1 lightning strike within 10 km of a point during that day. The warmer colours mean that more models are forecasting lightning, which implies that the probability of lightning is higher. The percentage contours are based on smoothed model data and give a broader idea of the probability of lightning.

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ECMWF Ensemble 14-day forecast – Probability of a lightning strike within 10km of a point

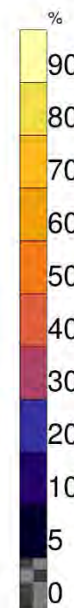
Day 3

24h Max Lightning Probability to 12UTC Friday 05 December
Percentage of ensemble members with a flash rate over 1/h within 10 km of a point.
EC Atmosphere Ensemble 0.2



Run: 01 Dec, 12Z

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Day 4

24h Max Lightning Probability to 12UTC Saturday 06 December
Percentage of ensemble members with a flash rate over 1/h within 10 km of a point.
EC Atmosphere Ensemble 0.2



Run: 01 Dec, 12Z

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of Meteorology



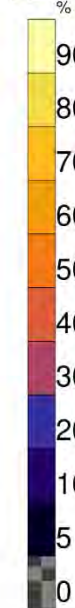
Day 5

24h Max Lightning Probability to 12UTC Sunday 07 December
Percentage of ensemble members with a flash rate over 1/h within 10 km of a point.
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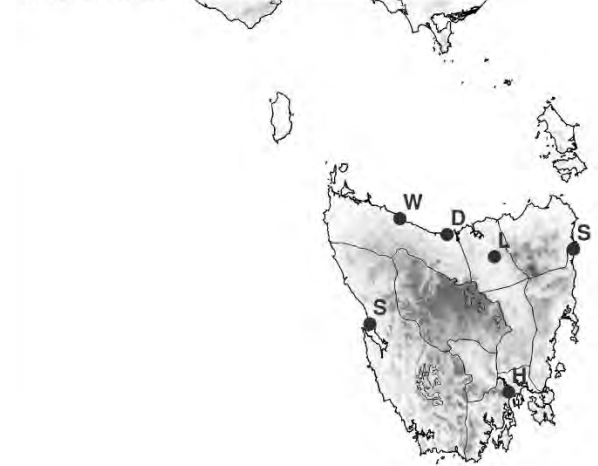
Run: 01 Dec, 12Z

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Day 6

24h Max Lightning Probability to 12UTC Monday 08 December
Percentage of ensemble members with a flash rate over 1/h within 10 km of a point.
EC Atmosphere Ensemble 0.2



Run: 01 Dec, 12Z

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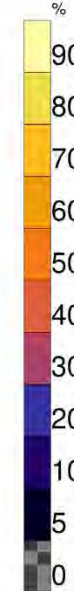
Day 7

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Percentage of ensemble members with a flash rate over 1/h within 10 km of a point.
EC Atmosphere Ensemble 0.2



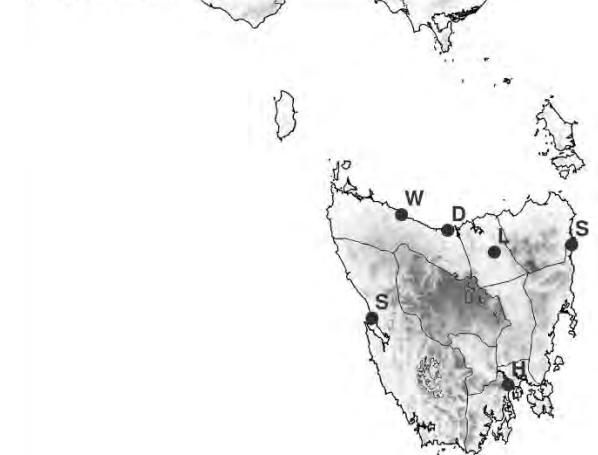
Run: 01 Dec, 12Z

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of Meteorology



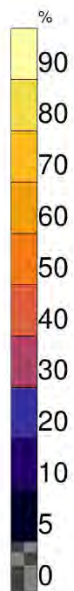
Day 8

24h Max Lightning Probability to 12UTC Wednesday 10 December
Percentage of ensemble members with a flash rate over 1/h within 10 km of a point.
EC Atmosphere Ensemble 0.2



Run: 01 Dec, 12Z

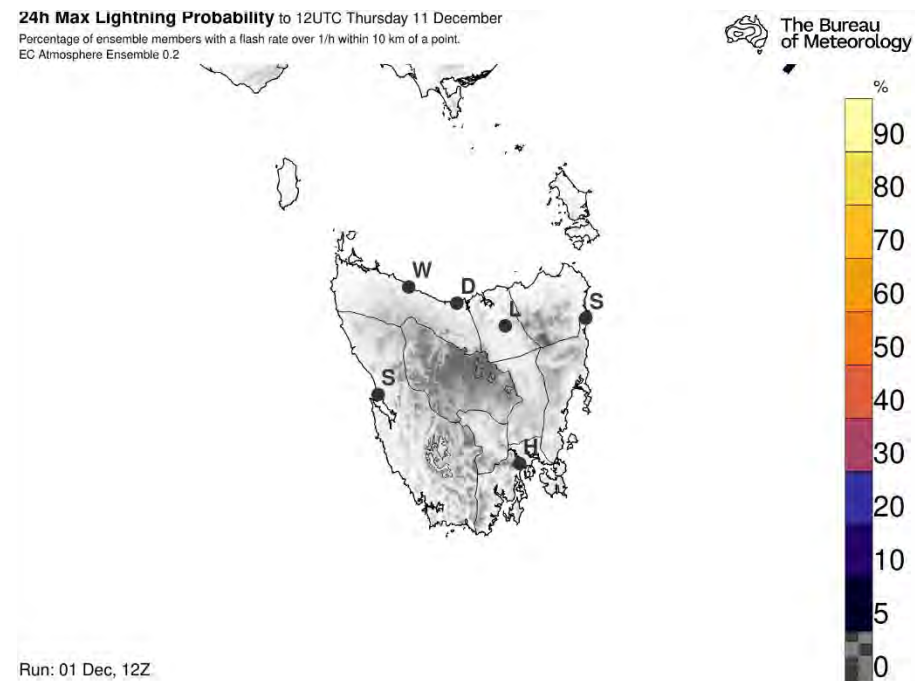
The Bureau
of Meteorology



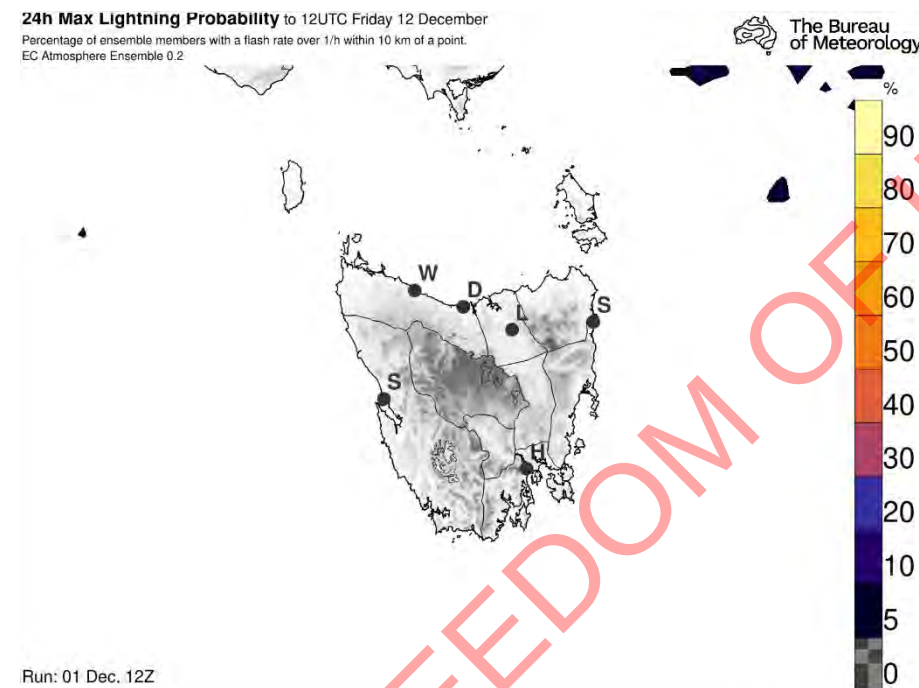


ECMWF Ensemble 14-day forecast – Probability of a lightning within 10km of a point

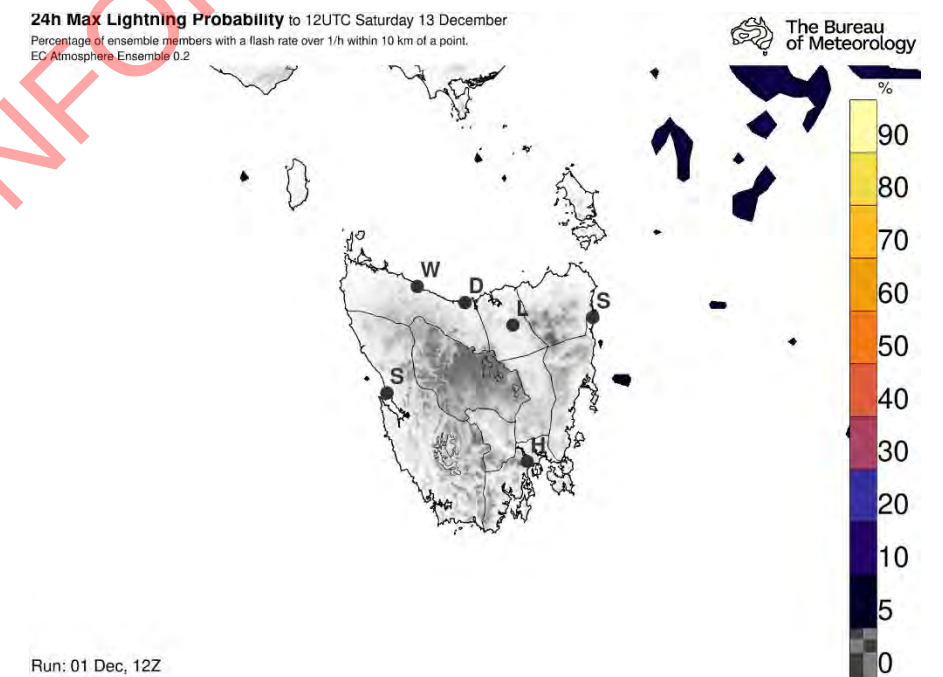
Day 9



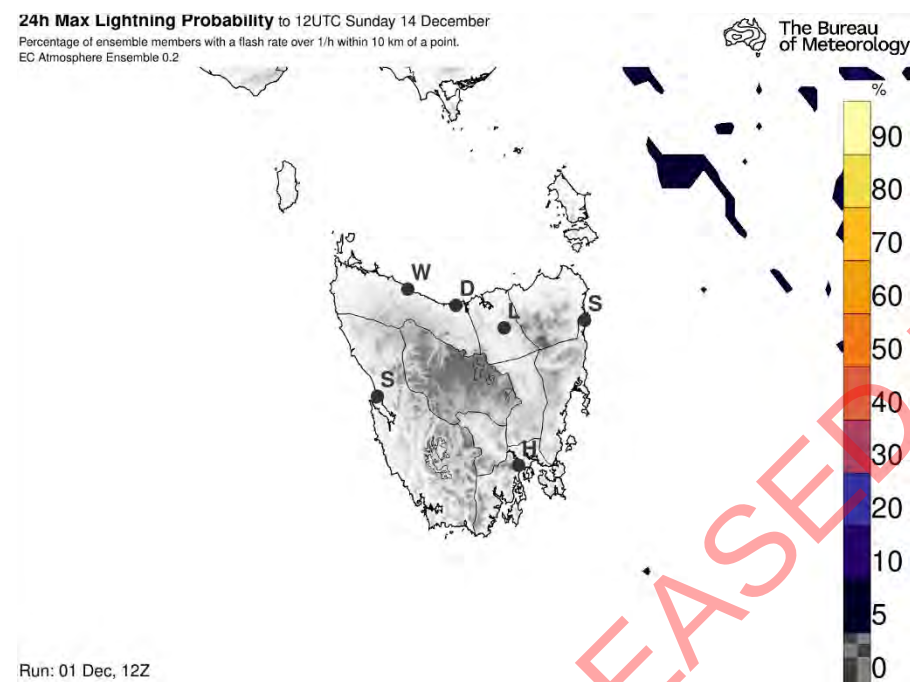
Day 10



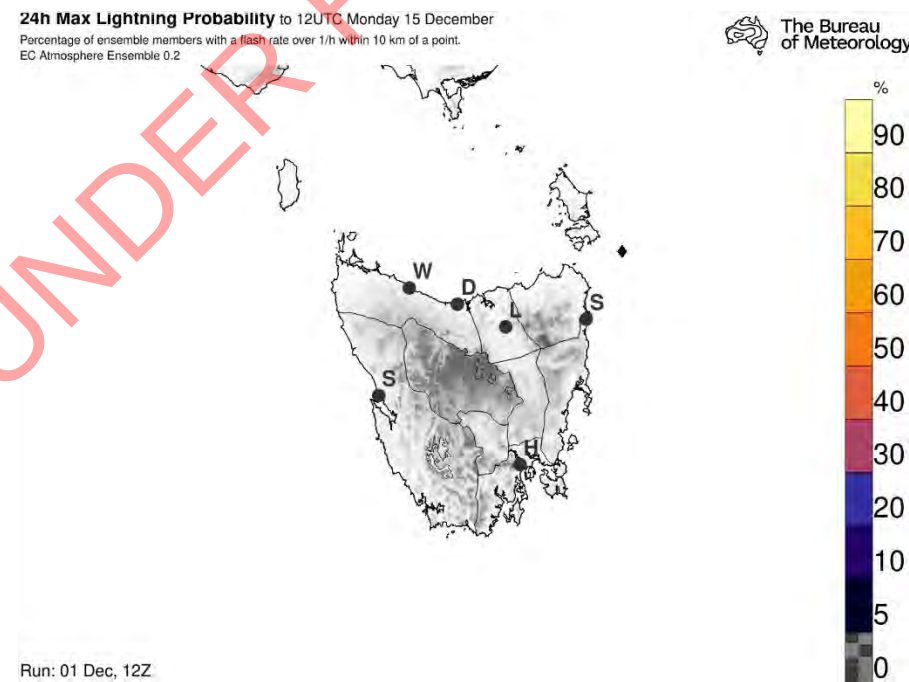
Day 11



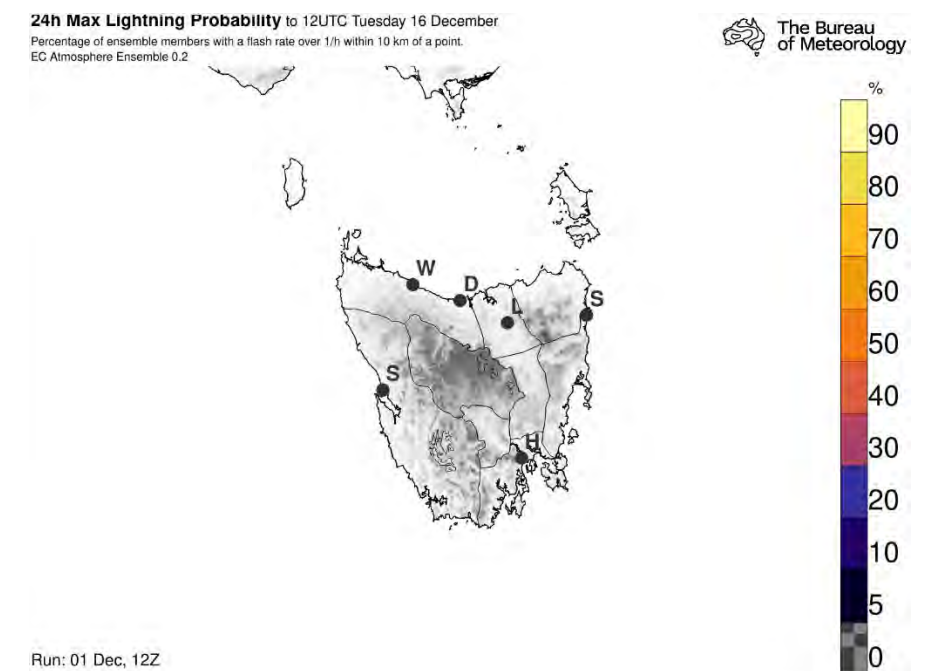
Day 12



Day 13

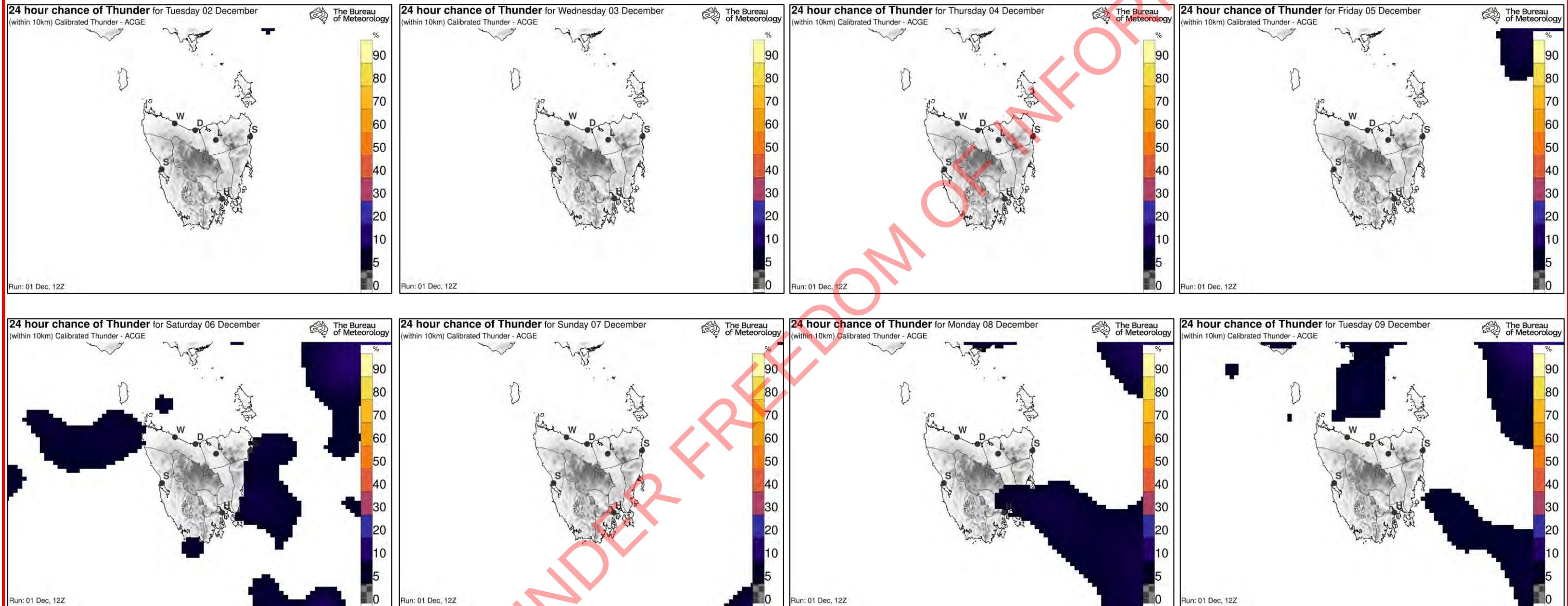


Day 14





ACCESS Global Ensemble - Calibrated Thunder – Probability of a lightning within 10km of a point

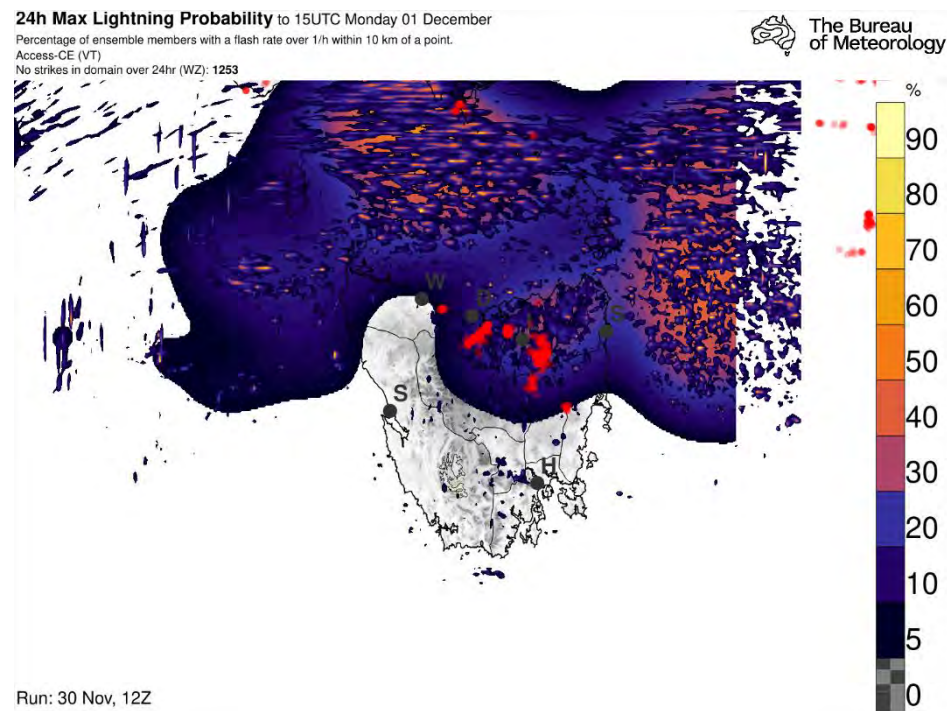


Notes: ACCESS Global Ensemble is a lower resolution model that is run 18 times to derive an ensemble of 18 possible forecasts. Calibrated Thunder is a thunderstorm forecast method whereby a sophisticated algorithm is run using the ACCESS Global Ensemble models to derive and probability of lightning. This lightning forecast is then 'calibrated' against a climatology of observed lightning strike to help bias correct the lightning forecast, resulting in more realistic probabilities. The percentage colour scheme represents the probability of at least 1 lightning strike within 10 km of a point during that day.

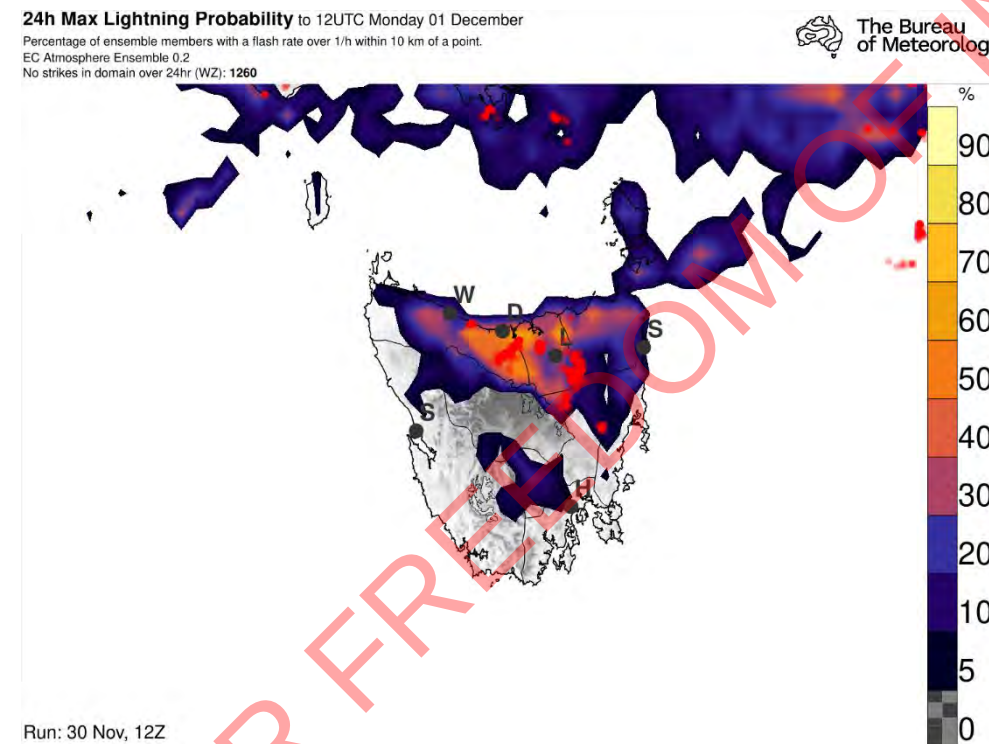


Visual Verification – Yesterday's lightning modeling overlaid with detected lightning strikes

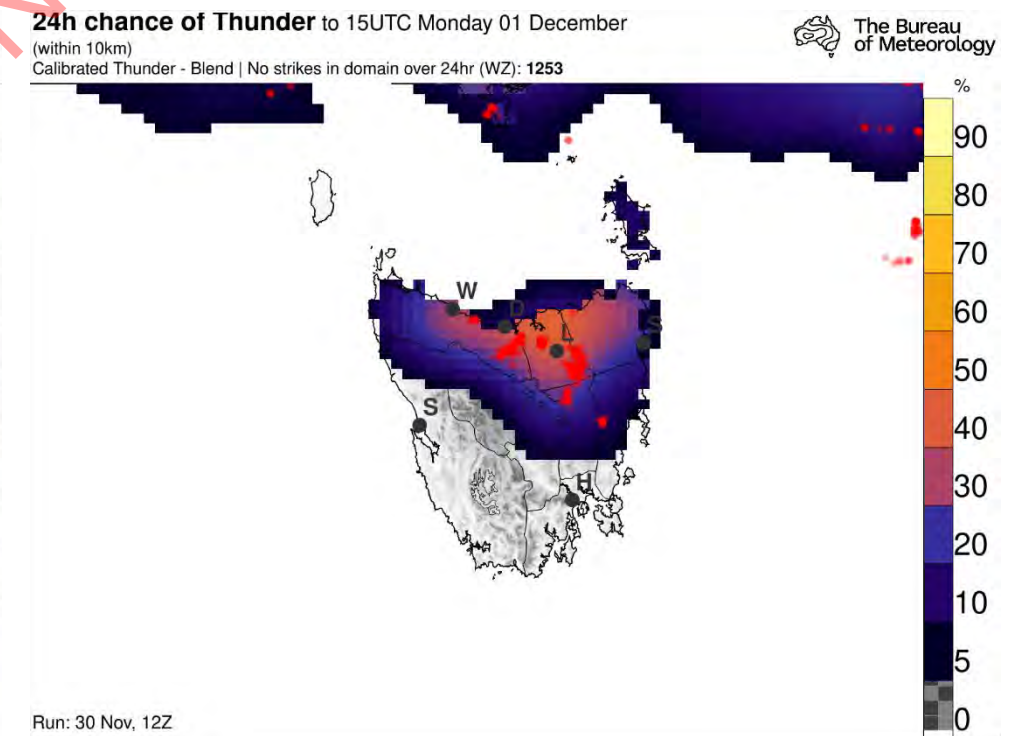
High Resolution ACCESS City Ensemble



ECMWF Ensemble



ACCESS Global Ensemble Calibrated Thunder



Notes: Here, yesterday's lightning forecasts are overlaid with yesterday's detected lightning strikes (red dots). Inspecting this verification each day will help us understand the strengths and limitations of each system, and how we might be able to use them in operations.

Document 4

From: [Tas Duty Officer](#)
To: [fban; Fire.DutyOfficer@parks.tas.gov.au; \[REDACTED\]@sttas.com.au; \[REDACTED\]@sttas.com.au;](#)
[\[REDACTED\]@sttas.com.au](#)
Cc: [Tas Duty Officer](#)
Subject: BoM Probabilistic Lightning Brief - 03-12-2025, 09:54 AM [SEC=OFFICIAL]
Date: Wednesday, 3 December 2025 9:54:53 AM
Attachments: [BoM Probabilistic Lightning Brief - 2025-12-03_09_54.pdf](#)

Hello,

Please find attached today's lightning brief. A [short training video is available here](#).

If you find the brief useful or have any feedback, please fill out [this short survey](#).

If you have any questions about the lightning forecast, please call the duty meteorologist on [\[REDACTED\]](#) or email TasDutyOfficer@bom.gov.au.

Tasmania Duty [Officer](#)

Bureau of Meteorology

Hobart

Probabilistic Lightning Forecast Trial

Issued Wednesday, 3 December 2025 - 9:54 AM

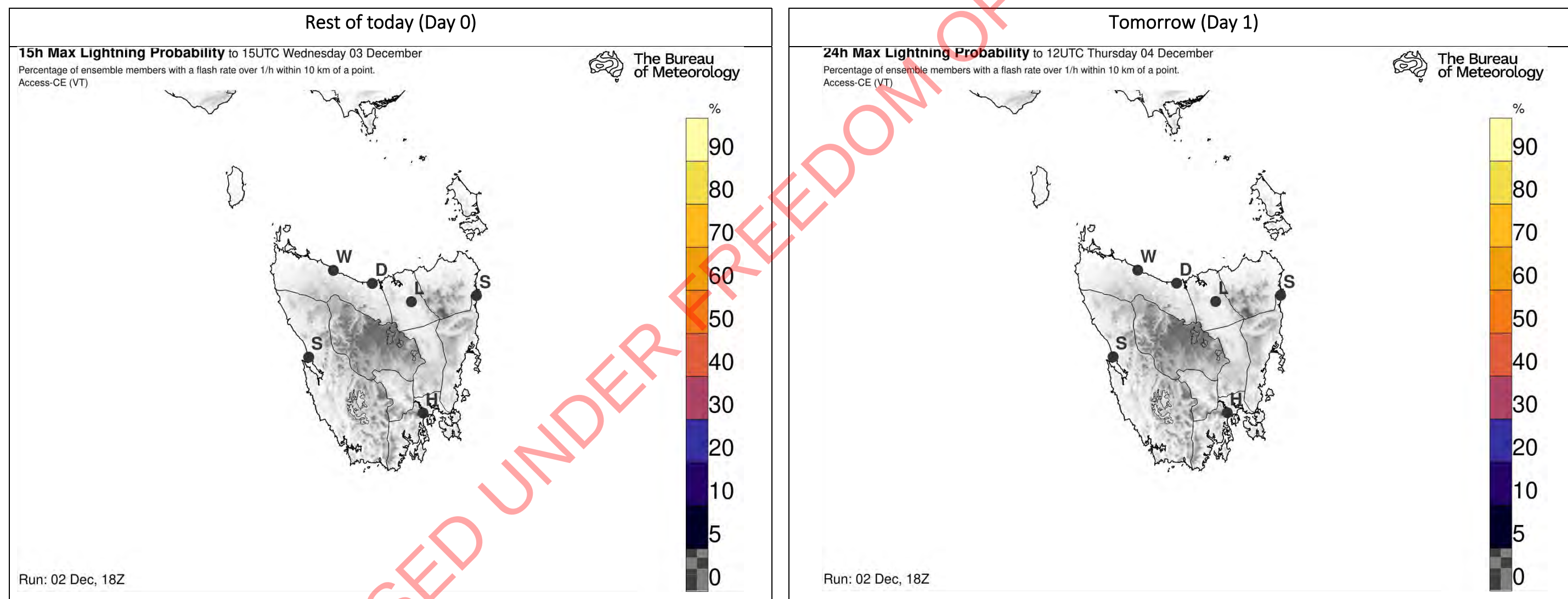
DO NOT DISTRIBUTE. Experimental briefing aide only – use [official thunderstorm forecasts](#) for operational decisions

The purpose of this trial is to provide a small group of technical Tasmania fire agency personnel with various state-of-the-art lightning forecast data. Three different lightning forecast systems are provided, each will their own advantages and limitations. During the trial, we'll collaboratively assess how useful each system is for operational preparedness and decision making, with the results informing future lightning services. This brief will be issued daily around 9 AM.

There are three types of lightning data provided; the high spatial resolution **ACCESS City Ensemble**, the European Centre for Midrange Weather Forecasting (**ECMWF**) **Ensemble**, and **ACCESS Calibrated Thunder**. The data is visualised as a 'daily probability of lightning within 10 km of a point' image, where warmer colours indicate higher probabilities. This broadly represents the areas that are most likely to get lightning. Note that the data does not discern between cloud-to-ground or intercloud lightning, and does not indicate how much lightning will occur; only the likelihood of getting at least 1 strike within 10 km of a point (although often there will be more lightning coincident with higher probabilities).

For more information, watch the [15-minute training video](#) here. Feel free to call or email the duty meteorologist if you'd like to discuss or clarify any of the data you see; [\[redacted\]](#)

High Resolution ACCESS City Ensemble – Probability of lightning within 10km of a point



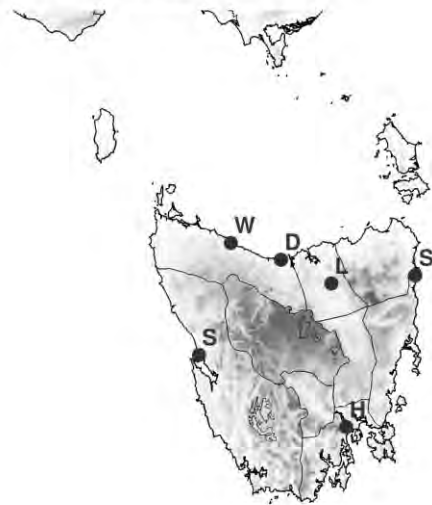
Notes: The ACCESS-City Ensemble is a high-resolution model that forecasts the lightning flash rate at every 2.2km point across Tasmania. The model is run 12 times to come up with an ensemble of 12 possible forecasts. The percentage colour scheme represents the percentage of those 12 models that are forecasting at least 1 lightning strike within 10 km of a point during that day. The warmer colours mean that more models are forecasting lightning, which implies that the probability of lightning is higher. The percentage contours are based on smoothed model data and give a broader idea of the probability of lightning.



ECMWF Ensemble 14-day forecast – Probability of a lightning strike within 10km of a point

Today (Day 0)

24h Max Lightning Probability to 12UTC Wednesday 03 December
Percentage of ensemble members with a flash rate over 1/h within 10 km of a point.
EC Atmosphere Ensemble 0.2

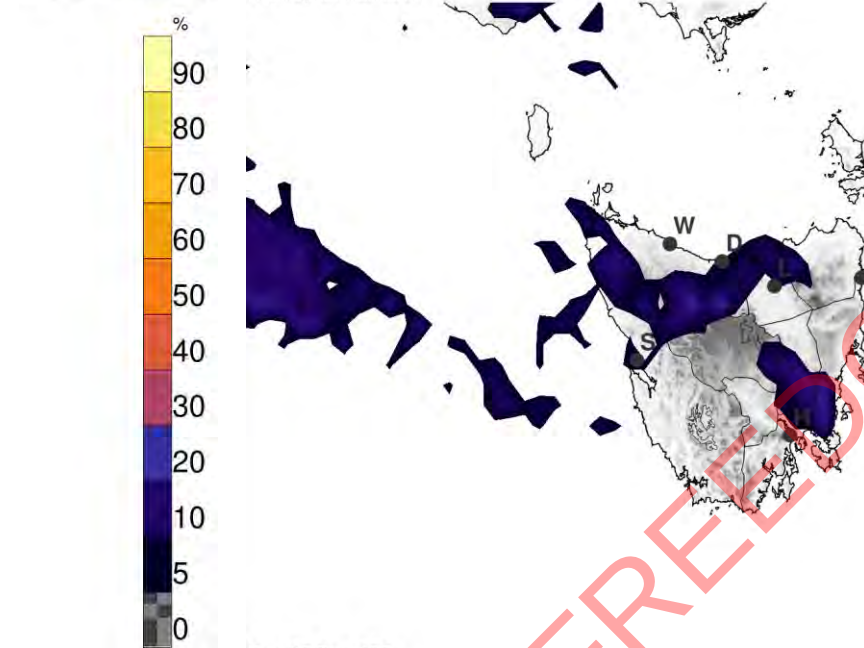


Run: 02 Dec, 12Z

Tomorrow (Day 1)

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24h Max Lightning Probability to 12UTC Thursday 04 December
Percentage of ensemble members with a flash rate over 1/h within 10 km of a point.
EC Atmosphere Ensemble 0.2

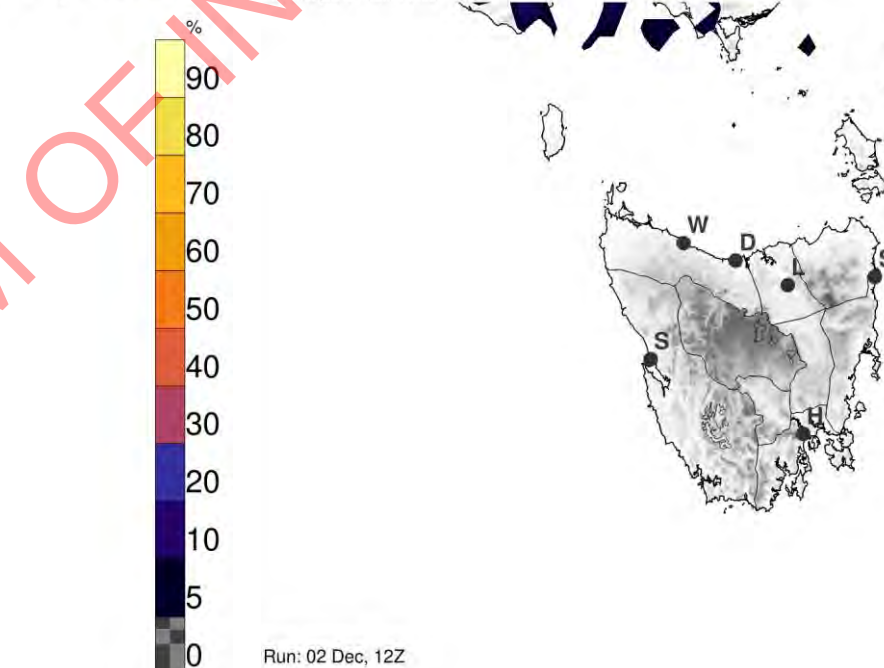


Run: 02 Dec, 12Z

Day 2

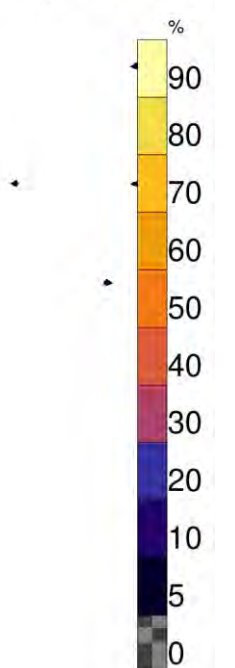
The Bureau
of Meteorology

24h Max Lightning Probability to 12UTC Friday 05 December
Percentage of ensemble members with a flash rate over 1/h within 10 km of a point.
EC Atmosphere Ensemble 0.2



Run: 02 Dec, 12Z

The Bureau
of Meteorology



Notes: The ECMWF Ensemble is run 51 times to come up with an ensemble of 51 possible forecasts. The percentage colour scheme represents the percentage of those models that are forecasting at least 1 lightning strike within 10 km of a point during that day. The warmer colours mean that more models are forecasting lightning, which implies that the probability of lightning is higher. The percentage contours are based on smoothed model data and give a broader idea of the probability of lightning.

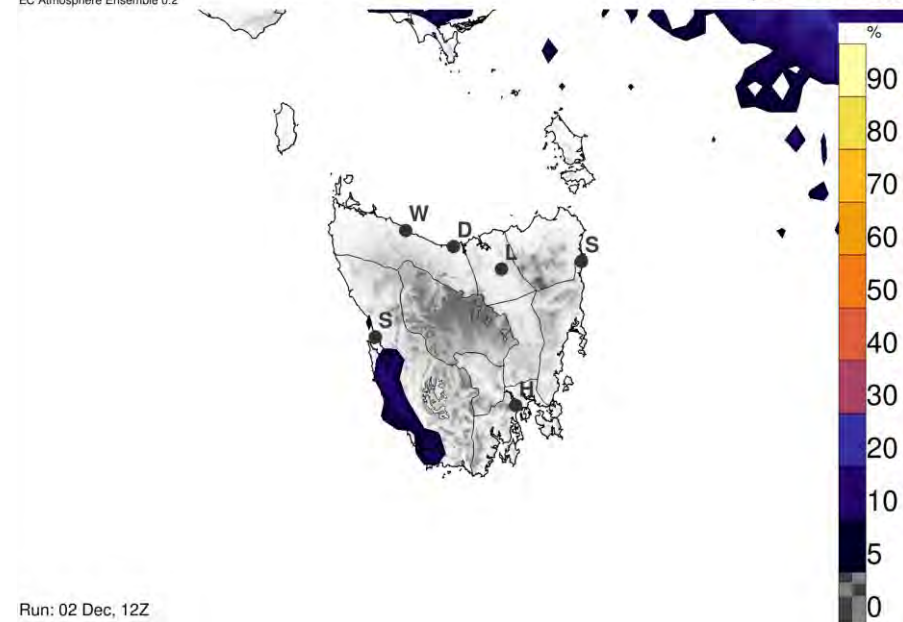
This system forecasts lightning for the following two weeks. The full two-week forecast is provided in this brief, however it is expected that the forecast from Day 8 onwards will be very 'noisy' and will rarely show a clear lightning signal – treat it with caution.



ECMWF Ensemble 14-day forecast – Probability of a lightning strike within 10km of a point

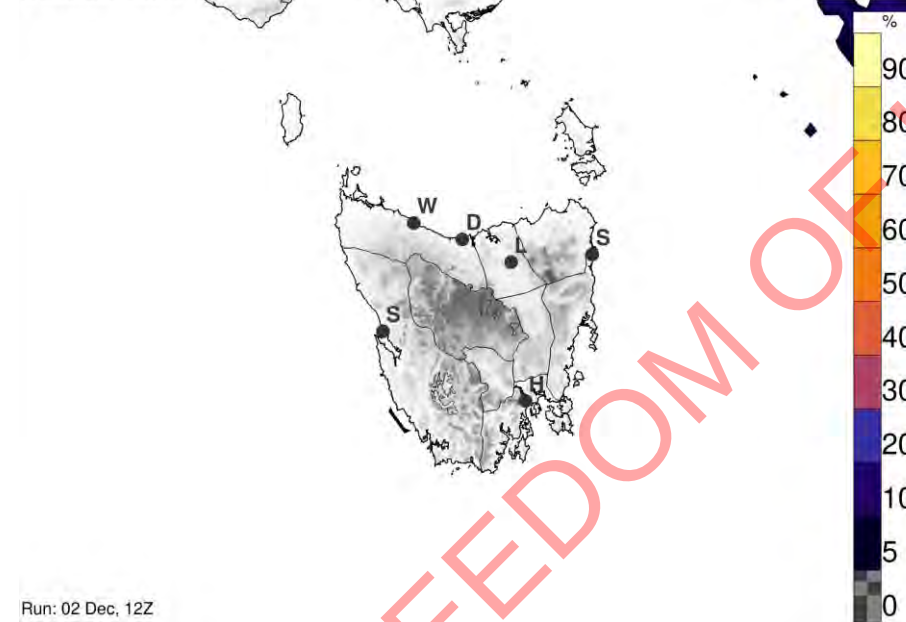
Day 3

24h Max Lightning Probability to 12UTC Saturday 06 December
Percentage of ensemble members with a flash rate over 1/h within 10 km of a point.
EC Atmosphere Ensemble 0.2



Day 4

24h Max Lightning Probability to 12UTC Sunday 07 December
Percentage of ensemble members with a flash rate over 1/h within 10 km of a point.
EC Atmosphere Ensemble 0.2



Day 5

24h Max Lightning Probability to 12UTC Monday 08 December
Percentage of ensemble members with a flash rate over 1/h within 10 km of a point.
EC Atmosphere Ensemble 0.2



Day 6

24h Max Lightning Probability to 12UTC Tuesday 09 December
Percentage of ensemble members with a flash rate over 1/h within 10 km of a point.
EC Atmosphere Ensemble 0.2



Day 7

24h Max Lightning Probability to 12UTC Wednesday 10 December
Percentage of ensemble members with a flash rate over 1/h within 10 km of a point.
EC Atmosphere Ensemble 0.2



Day 8

24h Max Lightning Probability to 12UTC Thursday 11 December
Percentage of ensemble members with a flash rate over 1/h within 10 km of a point.
EC Atmosphere Ensemble 0.2

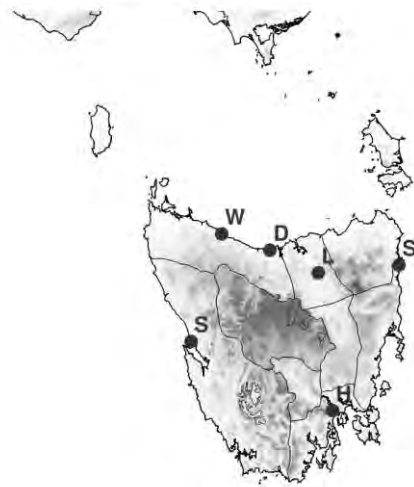




ECMWF Ensemble 14-day forecast – Probability of a lightning within 10km of a point

Day 9

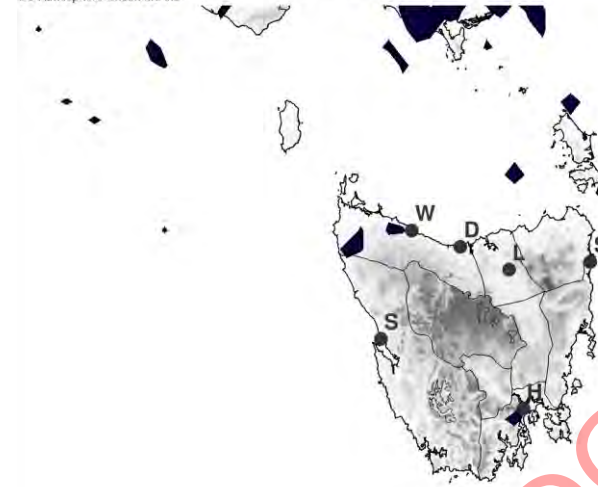
24h Max Lightning Probability to 12UTC Friday 12 December
Percentage of ensemble members with a flash rate over 1/h within 10 km of a point.
EC Atmosphere Ensemble 0.2



Run: 02 Dec, 12Z

Day 10

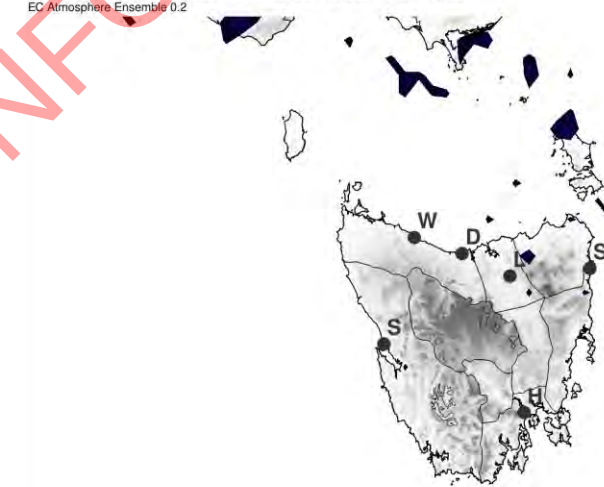
24h Max Lightning Probability to 12UTC Saturday 13 December
Percentage of ensemble members with a flash rate over 1/h within 10 km of a point.
EC Atmosphere Ensemble 0.2



Run: 02 Dec, 12Z

Day 11

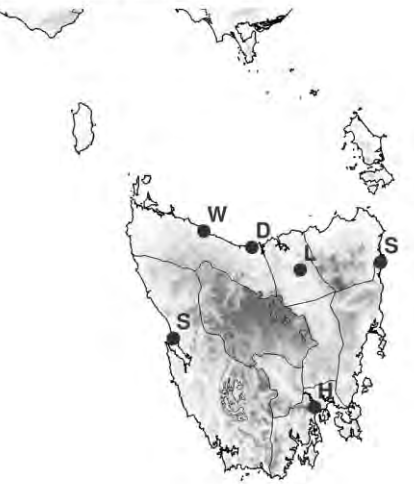
24h Max Lightning Probability to 12UTC Sunday 14 December
Percentage of ensemble members with a flash rate over 1/h within 10 km of a point.
EC Atmosphere Ensemble 0.2



Run: 02 Dec, 12Z

Day 12

24h Max Lightning Probability to 12UTC Monday 15 December
Percentage of ensemble members with a flash rate over 1/h within 10 km of a point.
EC Atmosphere Ensemble 0.2



Run: 02 Dec, 12Z

Day 13

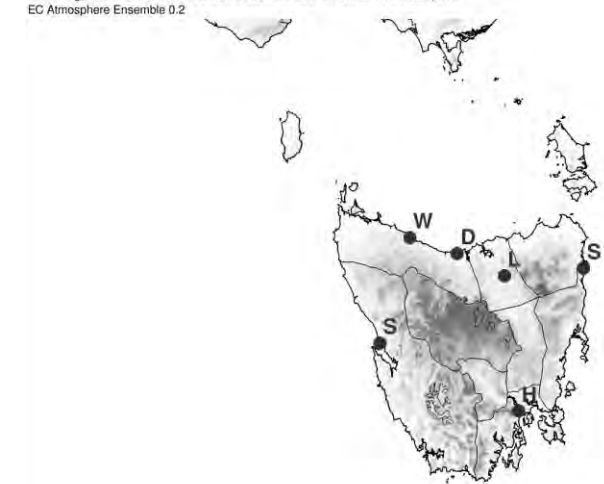
24h Max Lightning Probability to 12UTC Tuesday 16 December
Percentage of ensemble members with a flash rate over 1/h within 10 km of a point.
EC Atmosphere Ensemble 0.2



Run: 02 Dec, 12Z

Day 14

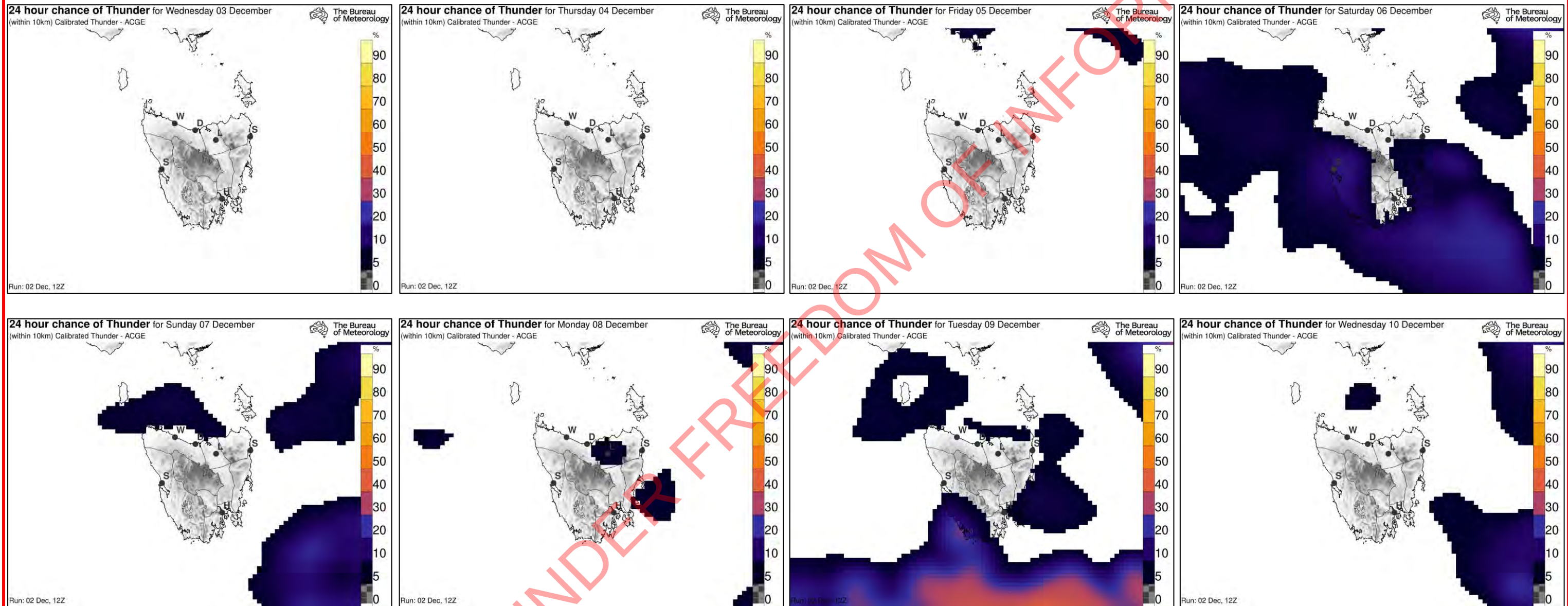
24h Max Lightning Probability to 12UTC Wednesday 17 December
Percentage of ensemble members with a flash rate over 1/h within 10 km of a point.
EC Atmosphere Ensemble 0.2



Run: 02 Dec, 12Z



ACCESS Global Ensemble - Calibrated Thunder – Probability of a lightning within 10km of a point

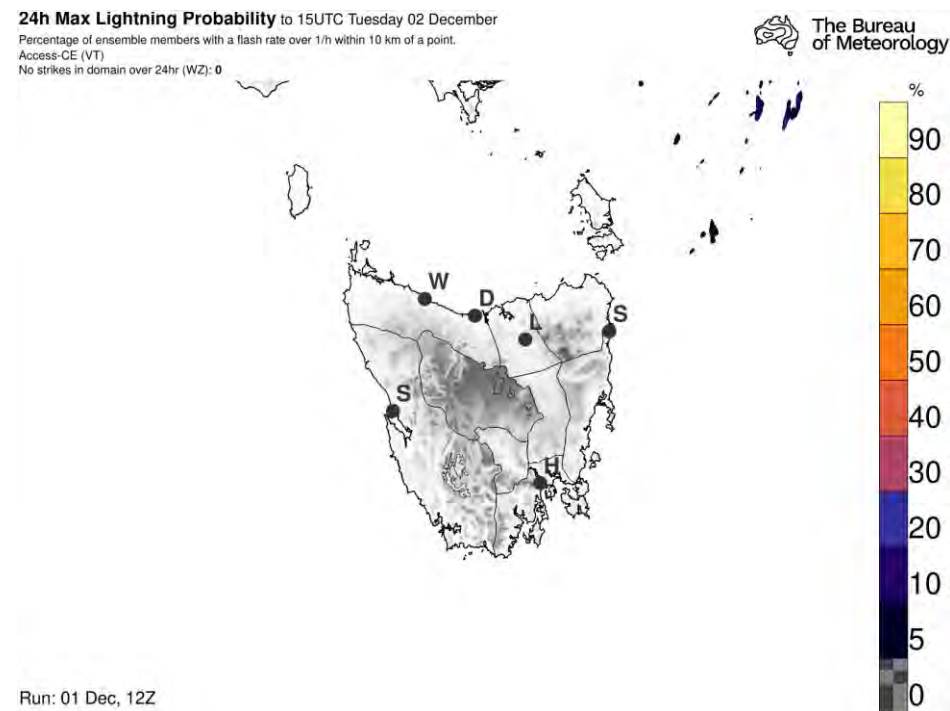


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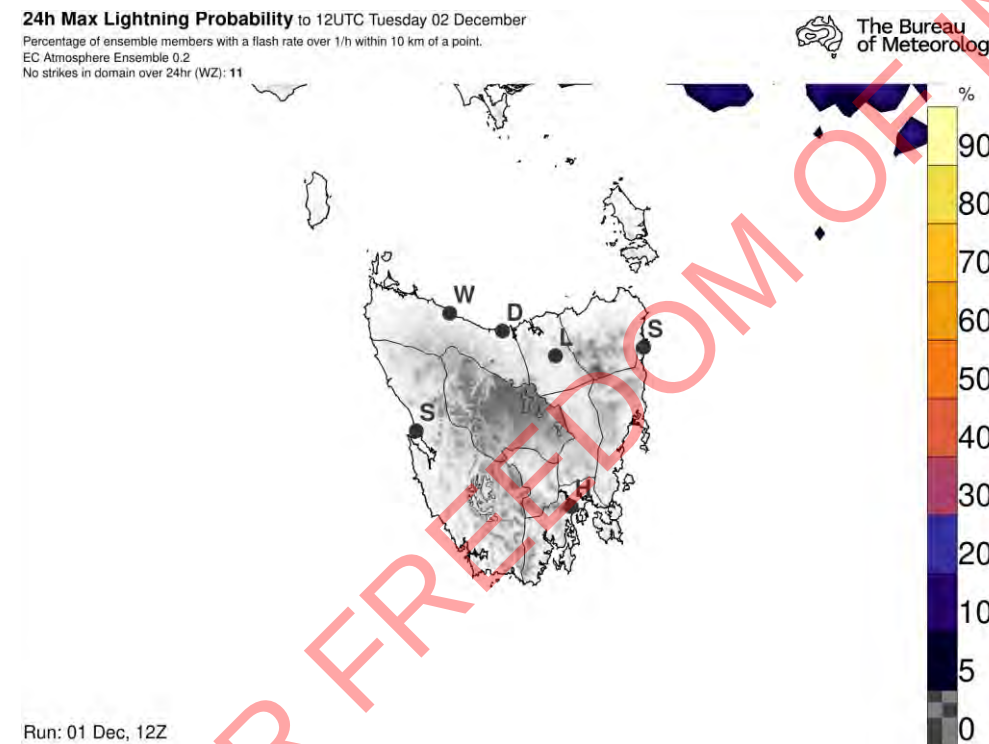


Visual Verification – Yesterday's lightning modeling overlaid with detected lightning strikes

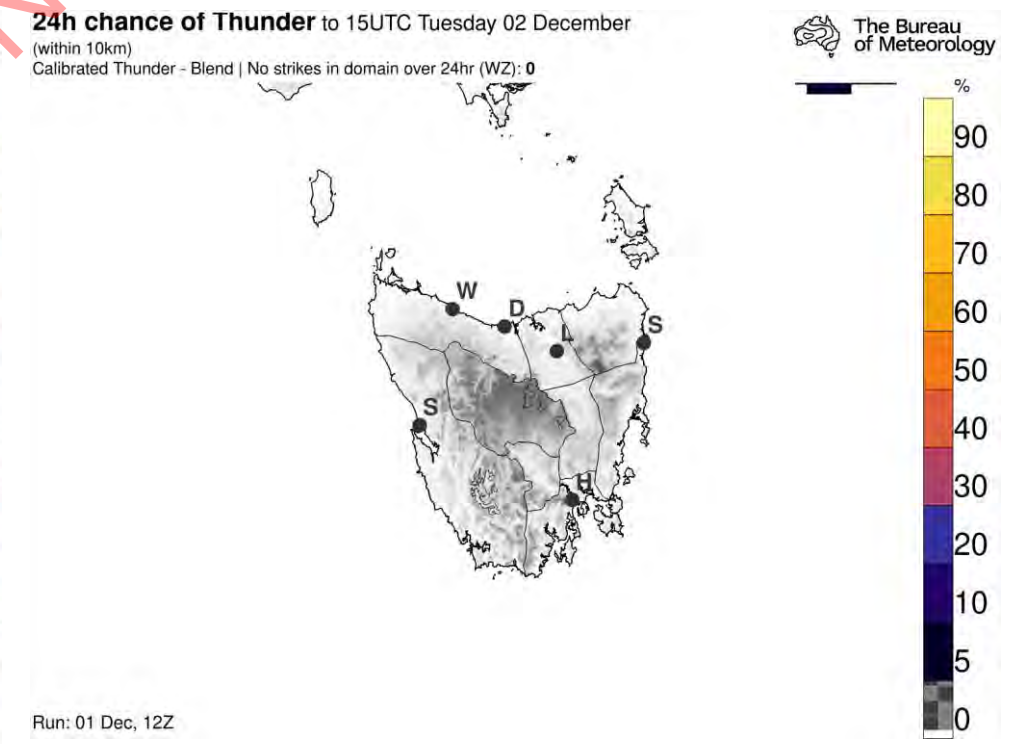
High Resolution ACCESS City Ensemble



ECMWF Ensemble



ACCESS Global Ensemble Calibrated Thunder



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