



2017 SINGAPORE GRAND PRIX

From	The FIA Formula One Race Director	Document	2
To	All Teams, All Officials	Date	14 September 2017
		Time	12:00

Title Race Director's Note

Description Event Notes

Enclosed 1-2017_09_14_SINGAPORE_GP_EVENT_NOTES.pdf

Charlie Whiting

The FIA Formula One Race Director



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To	Formula One Team Managers	Date	14 September 2017
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EVENT NOTES

14 SEPTEMBER 2017

1) Issues arising from the Italian Grand Prix

2) Changes to the circuit

- 2.1 The track has been resurfaced around turns 1 and 2, a 100m section after turn 5, some parts between turns 12 and 13 and a section around turns 15, 16 and 17.
- 2.2 The pit wall has been moved further from the garages by some 275mm and the fast lane markings moved by the same amount to ensure cars in the fast lane are further from the working lane.
- 2.3 Additional TecPro barriers have been installed in parts of the barriers at turns 1, 5, 7, 8, 10, 14, 16 and 22.

3) Pit lane map

- 3.1 Safety Car lines.
- 3.2 The location of the pit entry and the pit exit.
- 3.3 Designated garage areas.
- 3.4 Safety Car position for first lap and rest of race.
- 3.5 Blue flag marshal at the pit exit.
- 3.6 Track light panels displaying pit entry status.

4) Pirelli Event Preview

- 4.1 With reference to Article 24.4(a) of the Sporting Regulations see the attached document provided by the official tyre supplier.

5) Weighing and weighing platform

- 5.1 The FIA weighing platform will be available for teams to use at the following times, however, no more than 10 team personnel may be present during any visit. Each visit should last no more than 10 minutes unless no other team is waiting in the pit lane :
- a) From 12.00 Thursday until 20.30 on Saturday (between 19.00 and 20.30 each visit will be restricted to five minutes).
 - b) From when the cars are returned to the teams after qualifying until 01.30 on Sunday.
 - c) From 15.00 until 18.30 on Sunday.

Any team found to be abusing the time limits set out above, which we will be enforced by FIA security personnel and our own CCTV, will not be permitted to use the weighbridge again during the Event.

6) Red zones for photographers in the pit lane during practice sessions

- 6.1 See the attached drawing.

7) Practice starts during practice sessions

- 7.1 Practice starts may only be carried out at the pit exit on the left hand side and, for the avoidance of doubt, this includes any time the pit exit is open for the race.

- 7.2 Reminder about Article 36.1 :

"All drivers going to the pit exit at this time must do so at a constant speed and with constant throttle. This applies over the whole of the pit lane whether a driver is going to the pit exit from his garage or travelling through the pit lane between reconnaissance laps."

This paragraph prohibits practice starts, bite point checks and burn outs during these times. In order to ensure that this requirement is respected cars leaving the pit lane at this time may only do so directly from their garage, not from their pit stop position.

- 7.3 For reasons of safety and sporting equity, cars may not stop in the fast lane at any time the pit exit is open without a justifiable reason (a practice start is not considered a justifiable reason).

8) Lines and bollards at the pit entry and pit exit

- 8.1 In accordance with Chapter 4 (Section 5) of Appendix L to the ISC, drivers must keep to the left of the white line at the pit exit when leaving the pits, no part of any car leaving the pits may cross this line.
- 8.2 For safety reasons, when entering the pits drivers must stay to the left of the white line which starts 100 metres before turn 22, no part of any car entering the pits may cross this line.
- 8.3 For safety reasons, when driving in the first part of the pit lane (before reaching the first team garage) drivers must stay to the right of the two bollards on the edge of the safety zone.

9) Run-off area around turns 1, 2 and 3

Any driver who fails to negotiate turn 2 by using the track, and who passes completely to the right of the orange kerb element, must keep to the right of the red and white polystyrene block and re-join the track on the outside of turn 3.

Please see the photographs on pages 6 and 7.

10) DRS

- 10.1 DRS will be globally disabled if panels 1, 3, 4, 5, 17 or 18 are displaying yellow.
- 10.2 Detection will be automatically disabled if the light panels below are displaying yellow :
Zone 1 : Panel 2.
Zone 2 : Panel 16.
- 10.3 If automatic detection is not working, and permission has been given by race control to use manual detection, DRS must not be used in the relevant zone if panels 2 or 16 are displaying yellow.

11) Observing yellow flags during free practice and qualifying

- 11.1 Double waved : Any driver passing through a double waved yellow marshalling sector must reduce speed significantly and be prepared to change direction or stop. In order for the stewards to be satisfied that any such driver has complied with these requirements it must be clear that he has not attempted to set a meaningful lap time, for practical purposes this means the driver should abandon the lap (this does not necessarily mean he has to pit as the track could well be clear the following lap).
- 11.2 Single waved : Drivers should reduce their speed and be prepared to change direction. It must be clear that a driver has reduced speed and, in order for this to be clear, a driver would be expected to have braked earlier and/or discernibly reduced speed in the relevant marshalling sector.

Drivers should not overtake any car in a single waved yellow marshalling sector unless it is clear that a car is slowing with a completely obvious problem, e.g. obvious accident damage or a deflated tyre.

12) Track light panels

- 12.1 The FIA light panels have been installed in the positions shown on the circuit map. In accordance with Appendix H to the ISC the light signals have the same meaning as flag signals.

13) Drivers leaving their pit stop position in the pit lane

- 13.1 For safety reasons, no car should be driven from its pit stop position at any time unless :
 - a) It has first been driven into the pit stop position having just entered the pit lane from the track, and ;
 - b) It is then driven immediately back onto the track from the pit stop position.

14) Fire extinguishers around the circuit

- 14.1 Indicated by white boards with red letter 'F' on the walls or debris fences.

15) Places where drivers may leave the track

- 15.1 Indicated by small fluorescent orange boards on the debris fences.

16) Places to remove cars from the track

- 16.1 Indicated by fluorescent orange panels on the walls or guardrails.

17) Support races

17.1 The Ferrari and Porsche teams will be operating from the F1 pit lane for all their practice sessions and races, would you therefore set up your barriers in order that they have enough room to work comfortably, we suggest one metre from your garages would suffice.

14.2 It is essential that you are out of the pit lane by 16.25 at the latest on Saturday as the Porsche teams will be moving in to prepare for their first race scheduled to start at 16.40.

17) In laps and reconnaissance laps

17.1 In order to ensure that cars are not driven unnecessarily slowly on in laps during and after the end of qualifying or during reconnaissance laps when the pit exit is opened for the race, drivers must stay below the maximum time set by the FIA between the Safety Car lines shown on the pit lane map.

You will be informed of the maximum time after the first day of practice.

18) Post qualifying parc fermé

18.1 The cameras should be installed and operated in the same way as usual.

19) Operational personnel curfew

19.1 Boards warning anyone attempting to enter the paddock that the curfew is in operation will be placed immediately before the entry turnstiles at the appropriate times.

20) Removing cars from the grid

20.1 Through one of the two gates in the pit wall, one beside pole position and one beside grid position 12.

21) Car number light panels for the start

21.1 On the right hand side of the grid.

22) Track light panel displaying pit entry status

22.1 The light panels indicated on the pit lane map will display flashing yellow arrows if cars are required to use the pit lane once the Safety Car has been deployed during the race.

22.2 The light panels indicated on the pit lane map will display flashing red crosses if the pit lane is closed at any point during the race.

23) Lapping during the race

23.1 The ISC requires drivers who are caught by another car about to lap him to allow the faster driver past at the first available opportunity. The F1 Marshalling System has been developed in order to ensure that the point at which a driver is shown blue flags is consistent, rather than trusting the ability of marshals to identify situations that require blue flags.

As it was at the end of last season the system will be set to give a pre-warning when the faster car is within 3.0s of the car about to be lapped, this should be used by the team of the slower car to warn their driver he is soon going to be lapped and that allowing the faster car through should be considered a priority. When the faster car is within 1.2s of the car about to be lapped blue flags will be shown to the slower car (in addition to blue light panels, blue cockpit lights and a message on the timing monitors) and the driver must allow the following driver to overtake at the first available opportunity.

It should be noted that the aim of using F1MS is ensure consistent application of the rules, additional instructions may also be given by race control when necessary.

24) Post race parc fermé

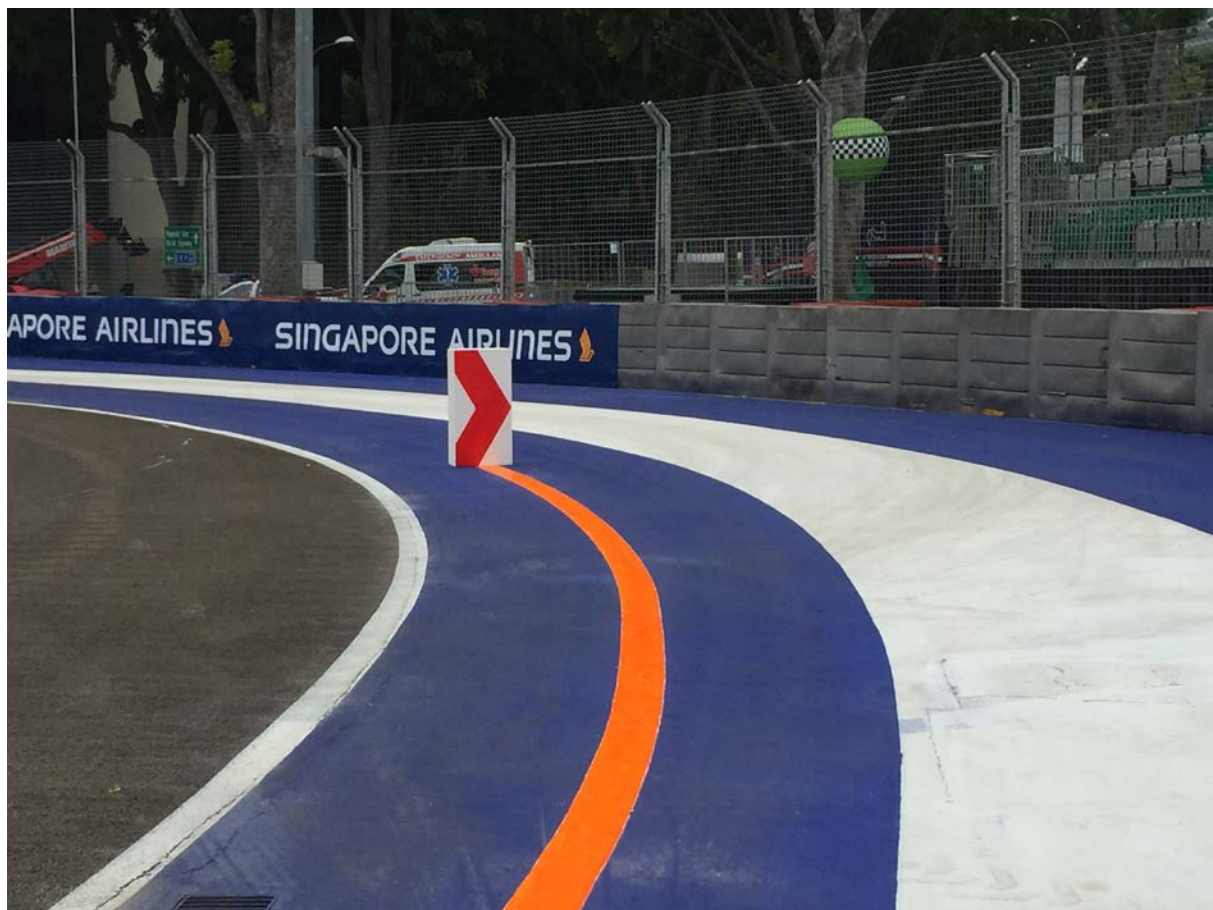
24.1 All cars should complete a full slowing down lap and enter the pits normally, all cars will then be stopped in the weighing area.

25) Any other business



Charlie Whiting
FIA Formula One Race Director





Singapore GP 15-17/09/2017 (17R14SIN)

Compound	FL	FR	RL	RR
SOFT	60S	62S	70S	72S
SUPERSOFT	60X	62X	70X	72X
ULTRASOFT	60U	62U	70U	72U
INTERMEDIATE	37I	38I	39I	40I
XWET (base)	37R	38R	39R	40R

Mandatory race tyres
SOFT
SUPERSOFT
Q3 tyre
ULTRASOFT

MINIMUM STARTING PRESSURE, BLISTERING SENSITIVITY, CAMBER LIMIT

	Front (psi)	Rear (psi)
Slicks	18.5	17.0
Intermediate	17.0	16.0
XWet	16.0	16.0

FE EOS Camber limit

-3.75 °

RE EOS Camber limit

-2.00 °

FE Blistering sensitivity

Low

RE Blistering sensitivity

Low



TYRE HEATING STRATEGY

<p>Storage temperature: 60°C</p> <p>Optimum time in blanket (@80°): 2h</p> <p>SLICKS</p> <p>Maximum boost temperature: 1h @ 110°C</p> <p>Blanket time window (@80°): 1h to 3h</p>	<p>Storage temperature: 40°C</p> <p>Optimum time in blanket (@60°): 1h</p> <p>INTER</p> <p>Maximum boost temperature: 30min @ 80°C</p> <p>Blanket time window (@60°): 30 min to 2h</p>
<p>Storage temperature: 40°C</p> <p>Optimum time in blanket (@60°): 1h</p> <p>XWET</p> <p>NO BOOST</p> <p>Blanket time window (@60°): 30 min to 2h</p>	

GENERAL NOTES

Teams are kindly reminded that the following parameters will be subjected to FIA checks during the event:

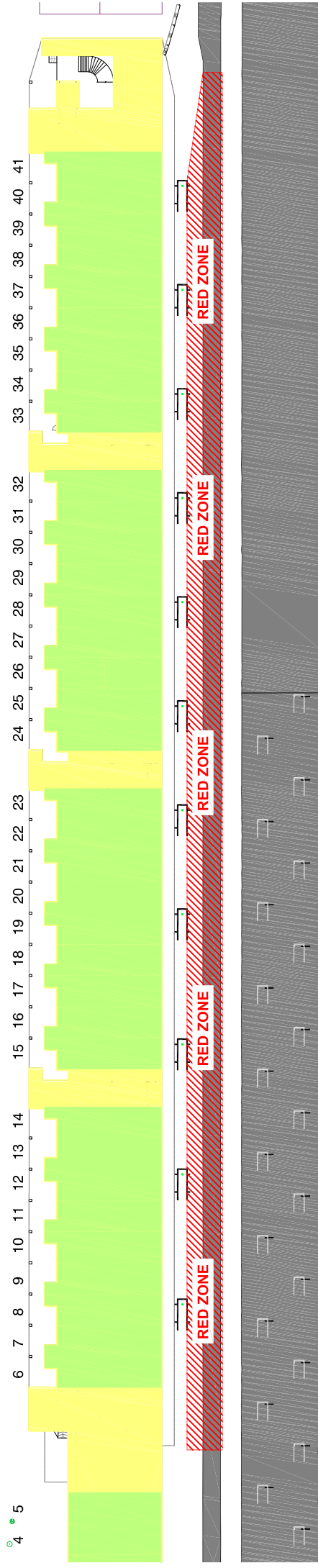
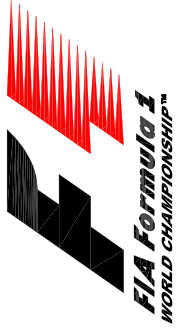
- Starting pressure.
- Camber at maximum speed.
- Maximum blanket temperature.
- Tyre swapping.

Tyre Notes

- Not permitted to switch tyres from their originally allocated position.
- Do not subject tyres to large deformation or heavy impact.
- Do not leave fitted tyres exposed at an air temperature lower than 15°C and/or any UV emission.
- Revised prescriptions could be issued during the race weekend in accordance with TD/007-16.

Storage Temp°C is the recommended temperature the tyre can stay in blankets without time limit. All temperature limits apply to the actual tyre surface temperature, measured with the IR gun detailed in TD029-15.

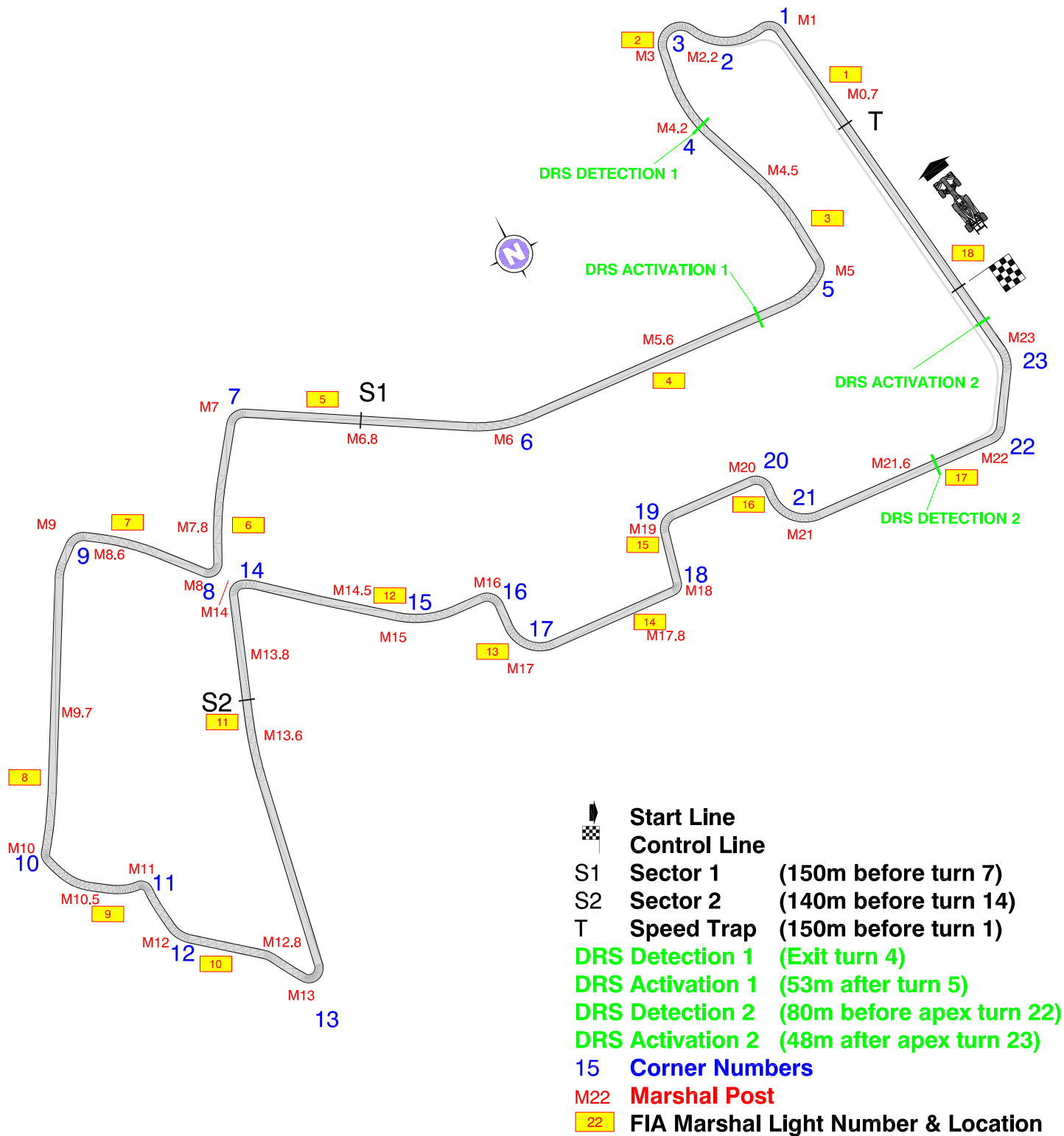
SIDEWALLS HEATING CLARIFICATION (ALL PRODUCTS): you are allowed to apply a max. temperature of 100 °C for max. 1 hr to the sidewalls as long as the max. temp/time at any part of the tread is the one described in the corresponding section above.



 PHOTOGRAPHERS EXCLUSION
RED ZONE

2017 FORMULA 1 SINGAPORE AIRLINES SINGAPORE GRAND PRIX - Singapore

Circuit Map



Circuit Centreline Length = 5.065 km

2017 FORMULA 1 SINGAPORE AIRLINES SINGAPORE GRAND PRIX - Singapore

