

Stages 1-16

# Defending the Yellow Jersey

During the first **16 stages** covering **2,922 km**, the riders were affected by severe wind gusts of up to **80 km/h** and have conquered **45 climbs** so far in this year's Tour de France. Here's a look at some of the stories powered by data we've collected on their journey so far.

**Stages 1-16**  
2-18 July 2016

**607 km**  
to finish line in Paris

**83%**  
race distance covered

**183 km**  
average distance travelled each day (stages 1-16)

**37.5 km**  
(stage 13)  
shortest distance travelled in one day - individual time trial

**237.5 km**  
(stage 4)  
longest distance travelled in one day

**44.78 km/h**  
fastest average speed on the stage  
Dumoulin (TGA)

**43.38 km/h**  
average speed of stage winner  
Marcel Kittel (EQS)

**47.0 km/h**  
highest average speed on a stage  
(stage 10)

**05h 59' 54"**  
longest time on the saddle  
(stage 3)

**39.16 km/h**  
average speed of riders across 16 stages

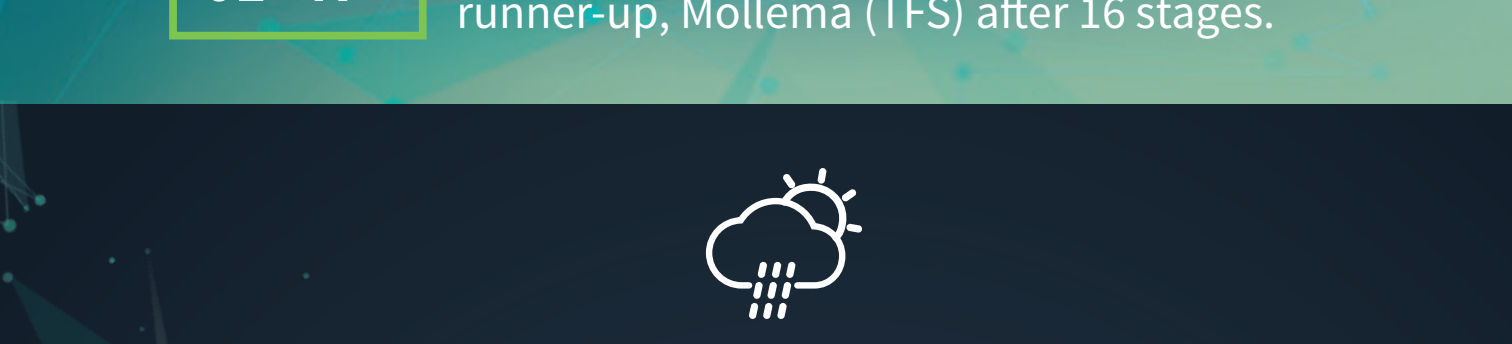
**15**  
abandons

## Defending the Yellow Jersey

**40.21 km/h** average speed of race leader Christopher Froome (SKY) over 16 stages

Team Sky dominated stage 9, with 7 riders out of 34 in the lead at the top of the penultimate climb.

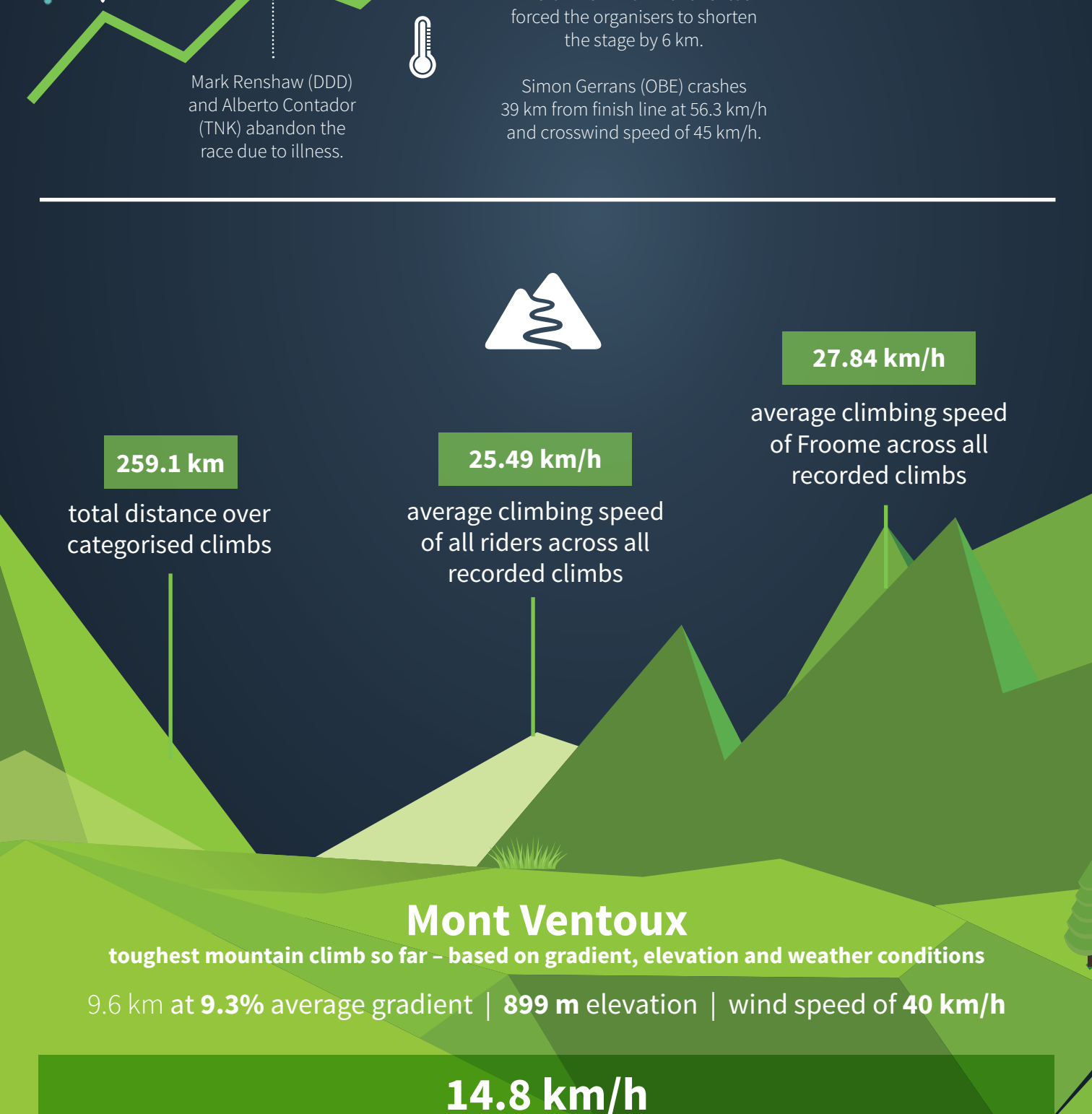
Team Sky and Froome dominated on Mont Ventoux until incident with motor bike.



**01' 47"** time difference between Froome and runner-up, Mollema (TFS) after 16 stages.

## Battling the elements

This is the first year in which we tracked weather information.



**259.1 km**  
total distance over categorised climbs

**25.49 km/h**  
average climbing speed of all riders across all recorded climbs

**27.84 km/h**  
average climbing speed of Froome across all recorded climbs

## Mont Ventoux

toughest mountain climb so far - based on gradient, elevation and weather conditions

9.6 km at **9.3%** average gradient | **899 m** elevation | wind speed of **40 km/h**

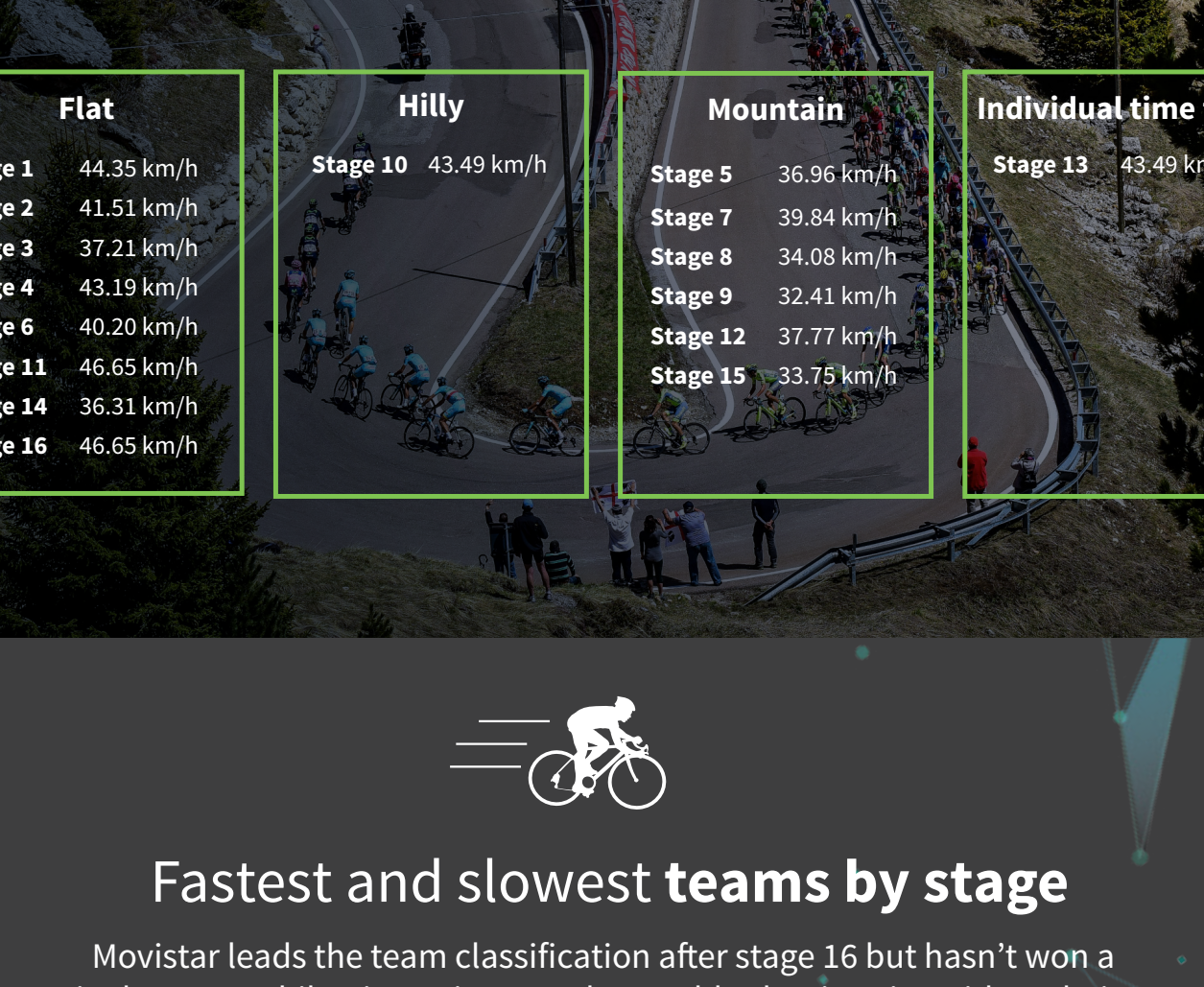
**14.8 km/h**  
average climbing speed of stage winner  
Thomas DeGendt (LTS)

**12.72 km/h** lowest recorded average climbing speed

## Fastest speed in the individual time trial

**44.78 km/h**  
Tom Dumoulin (TGA)

Individual time trial speed difference between stage winner Tom Dumoulin (TGA) and Christopher Froome (SKY)



## Average speed on each stage by Amaury Sport Organisation (A.S.O.) classification

Stages 1-16

Stage	Flat	Hilly	Mountain	Individual time trial
Stage 1	44.35 km/h			
Stage 2	41.51 km/h			
Stage 3	37.21 km/h			
Stage 4	43.19 km/h			
Stage 6	40.20 km/h			
Stage 11	46.65 km/h			
Stage 14	36.31 km/h			
Stage 16	46.65 km/h			
Stage 10		43.49 km/h		
Stage 5			36.96 km/h	
Stage 7			39.84 km/h	
Stage 8			34.08 km/h	
Stage 9			32.41 km/h	
Stage 12			37.77 km/h	
Stage 15			33.75 km/h	
Stage 13				43.49 km/h

## Fastest and slowest teams by stage

Movistar leads the team classification after stage 16 but hasn't won a single stage, while Dimension Data has grabbed 5 victories without being the fastest team on any stage.

Stage	Fastest on the stage	Average speed km/h	Slowest on the stage	Average speed km/h
1	Lotto-Soudal (LTS)	44.4	Bora-Argon (BOA)	44.4
2	Orica-BikeExchange (OBE)	42.1	Lotto-Soudal (LTS)	41.7
3	Lotto-Soudal (LTS)	37.3	AG2R-La Mondiale (ALM)	37.3
4	Team Lotto NL - Jumbo (TLJ)	39.5	Lotto-Soudal (LTS)	39.4
5	BMC Racing Team (BMC)	38.7	Team Dimension Data (DDD)	37.0
6	Etixx - Quick Step (EQS)	40.3	FDJ (FDJ)	40.3
7	Astana (AST)	42.2	Lotto-Soudal (LTS)	40.3
8	Team Sky (SKY)	37.0	Dimension Data (DDD)	33.5
9	Movistar (MOV)	34.4	Direct Energie (DEN)	32.7
10	Orica-BikeExchange (OBE)	44.9	Cofidis (COF)	43.4
11	Tinkoff (TINK)	47.2	Cannondale-Drapac (CDT)	46.7
12	Movistar (MOV)	38.4	Tinkoff (TINK)	36.8
13	Movistar (MOV)	43.0	Cofidis (COF)	39.9
14	Orica-BikeExchange (OBE)	36.4	Cannondale-Drapac (CDT)	36.2
15	AG2R-La Mondiale (ALM)	35.9	Lotto Soudal (LTS)	34.4
16	BMC Racing Team (BMC)	47.14	Direct Energie (DEN)	46.72

## Social media engagements

Top 3 data visualisations on @letourdata powered by Dimension Data

1. The 187 riders will have to contend with wind again today - gusts of up to 60km/h expected. #TDFdata #TDF2016-#6
2. #MaillotVert vs. #MaillotJaune in the sprint incredible stage finish in Montpelier! #TDFdata #TDF2016-#6
3. With perfect timing and placement, @MarkCavendish sprints to his 30th #TDF-#6 stage win! Top speed: 66.3km/h. #TDFdata

## Our mobile office on the road

Our big data truck is parked in the Tour de France technical zone and is where our technical and social media teams work every day of the event.

Watch this video to see what it takes to operate as part of a global team in an office that moves every day.

<b>22 people</b> in our on-the-ground technical, social and support teams	Total distance travelled so far <b>3,858.5 km</b>	Total hours spent on the road so far <b>60.5 hours</b>	Weight of our mobile data centre and office <b>39.2 tonnes</b>
<b>2 hours</b> to set up and take down each day	<b>12</b> number of collaboration tools used in the truck to bring our teams together while they work across different geographies, time zones and environments	<b>10</b> number of screens to follow the race	
<b>24 hours</b> daily development and testing cycle to ensure our solution adapts and thrives in the erratic landscape that is the Tour de France			

## It's all in the cloud when it comes to big data analytics at the Tour de France

Instant computing power and scalability to deal with unpredictable race environment

**100.7 million**  
total data records processed so far

**3x more data**  
being processed than 2015

Watch this video to find out more about how we use Dimension Data's cloud platform to deliver the analytics solution.

## Daily life in the technical zone at the finish line

<b>5,000 m<sup>2</sup></b> of space needed to set up the technical zone	<b>500 people</b> from the TV production teams	<b>2 video</b> helicopters
<b>60 km</b> of cable rolled out on average	<b>5 video</b> motorcycles	<b>1 HF</b> relay helicopter
<b>120</b> trucks	<b>2 sound</b> motorcycles	<b>2 HF</b> airplanes

**90 commentators** from 10 different nationalities in the grandstands

Source: A.S.O.

## For more information

Learn more about making the world's first digital Tour de France on our microsite | Subscribe to receive the daily Analytics in Action blog | Follow @letourdata for live race data