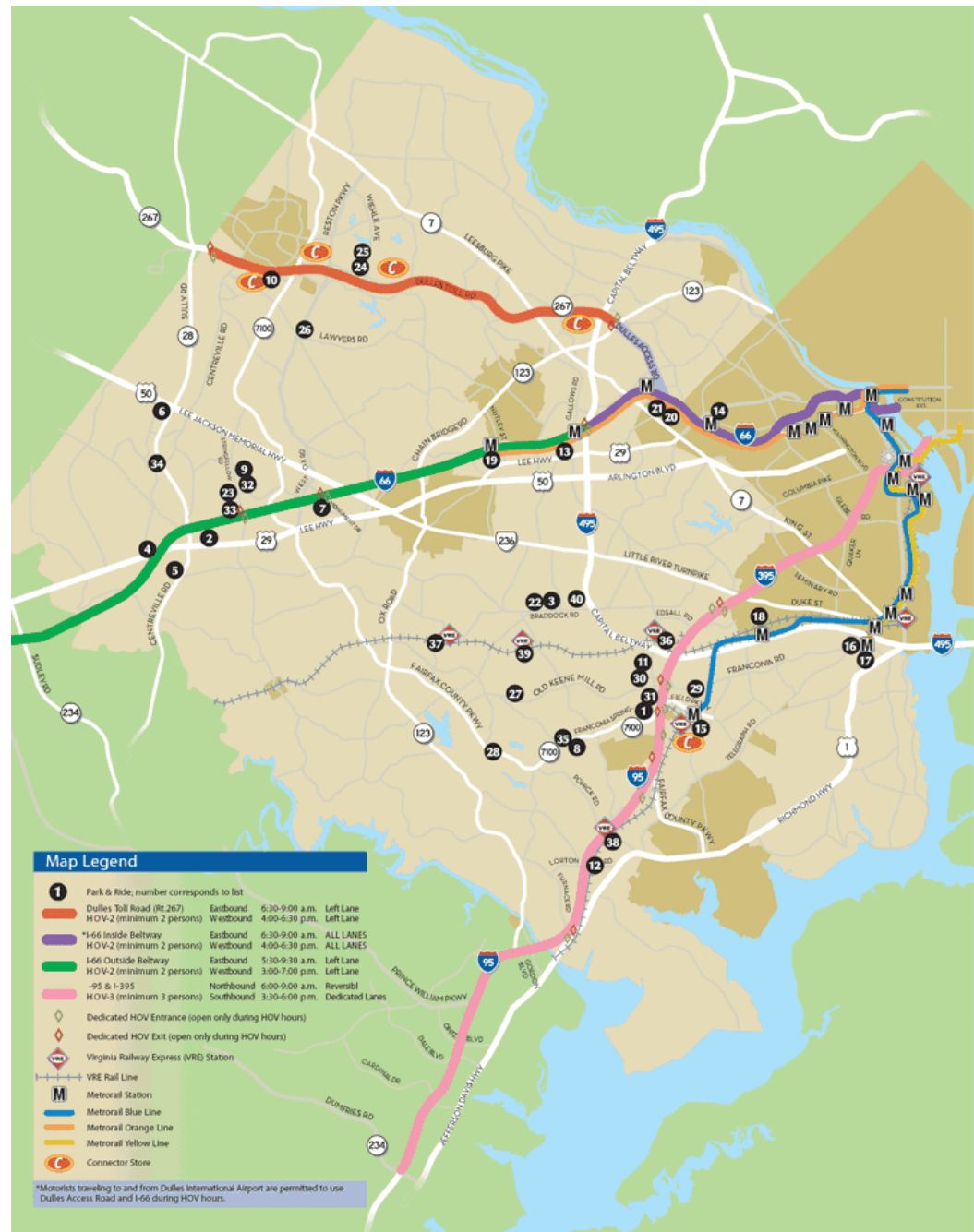


# Map terminology and map symbols



# Map

- Definition of a map:  
picture or representation of the earth's surface. How places are related to each other in distance, direction and size.



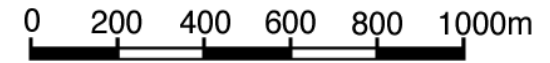
# 1 Map symbols

- Why map symbols? To be able to interpret the information on the map. These symbols are shown in a legend on the map.

# Example of a legend and line scale




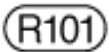












## LEGEND

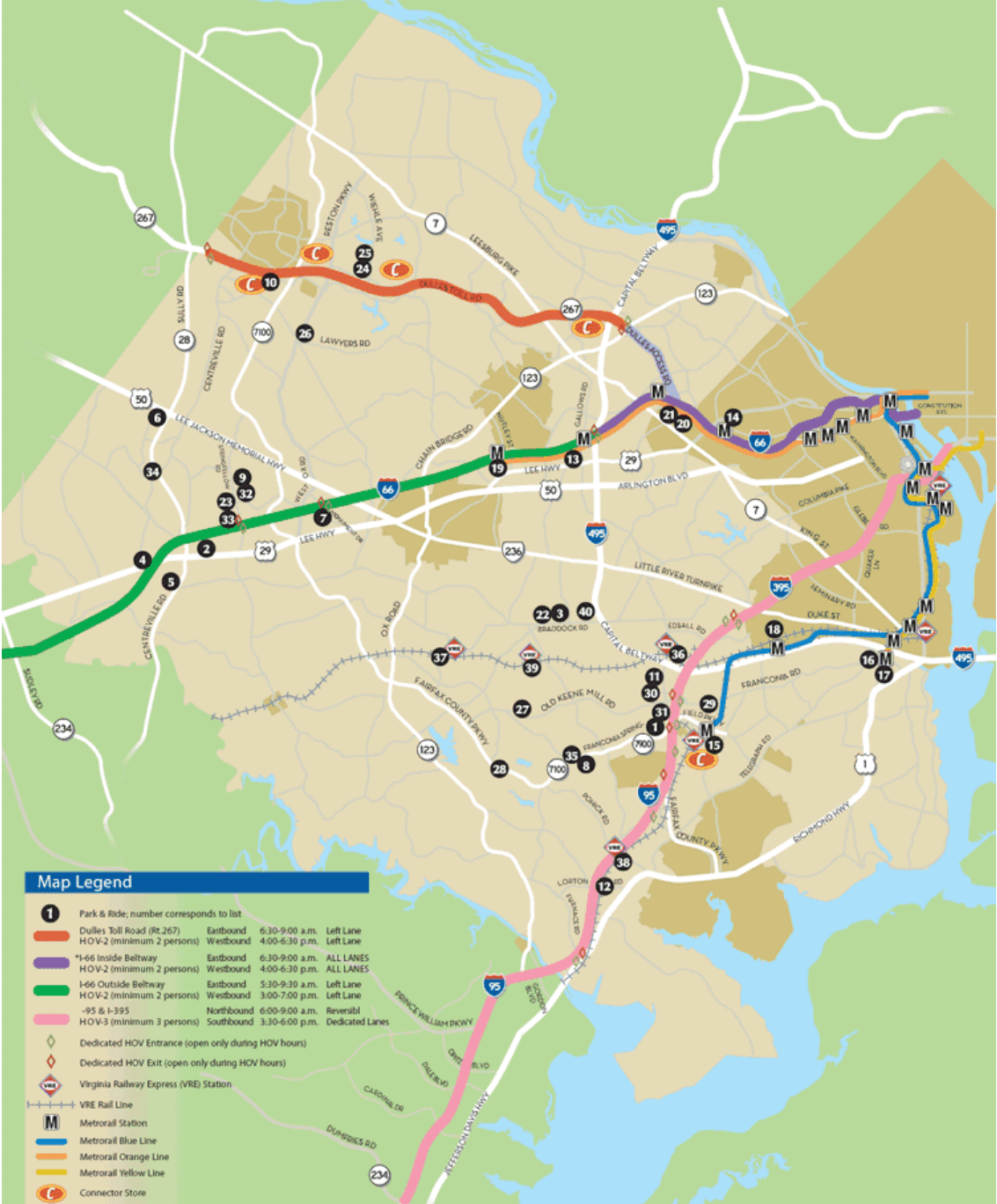
1 : 20 000



Motorway	Railway Station	Tourist Information	Conference Centre	Internet Access	Garden / Landscape
Main Road	Water Fill	Place of Interest	Embassy	Viewpoint	Fun Fair
Other	Built up Area	Provincial Heritage Site	Post Office	Bus / Taxi Rank	Aquarium
Railway Line	Park	Historical Monument	Light House	Car Hire	Caves
Provincial Boundary	Industrial Area	Museum	Police Station	Cycle Hire	Natural Reserve
Hiking Trail	Retail Area	Theatre	Fire Station	Petrol Station	Zoo
Coastline / Main River	Service Station	Cinema / Drive-in	Bank / Foreign Exchange	Athletics	Bird Sanctuary
Other River	Controlled Access	Shopping	Municipal Clinic	Motor Racing	Picnic Area
CAPITAL	Traffic Light	Parking	Hospital	Golf	Winery
City	Toll Plaza	Cemetery	Caravan Park	Horse Riding	Pub
Town	International Airport	Art Gallery	Camp Site	Hiking Trail	Bar / wine bar
Route Number	Airport / Airfield	Library	Hotel	Skiing	Café
Road Number	Helipad	Toilet	Youth Hostel	Water Skiing	Restaurant

# Symbols you must know

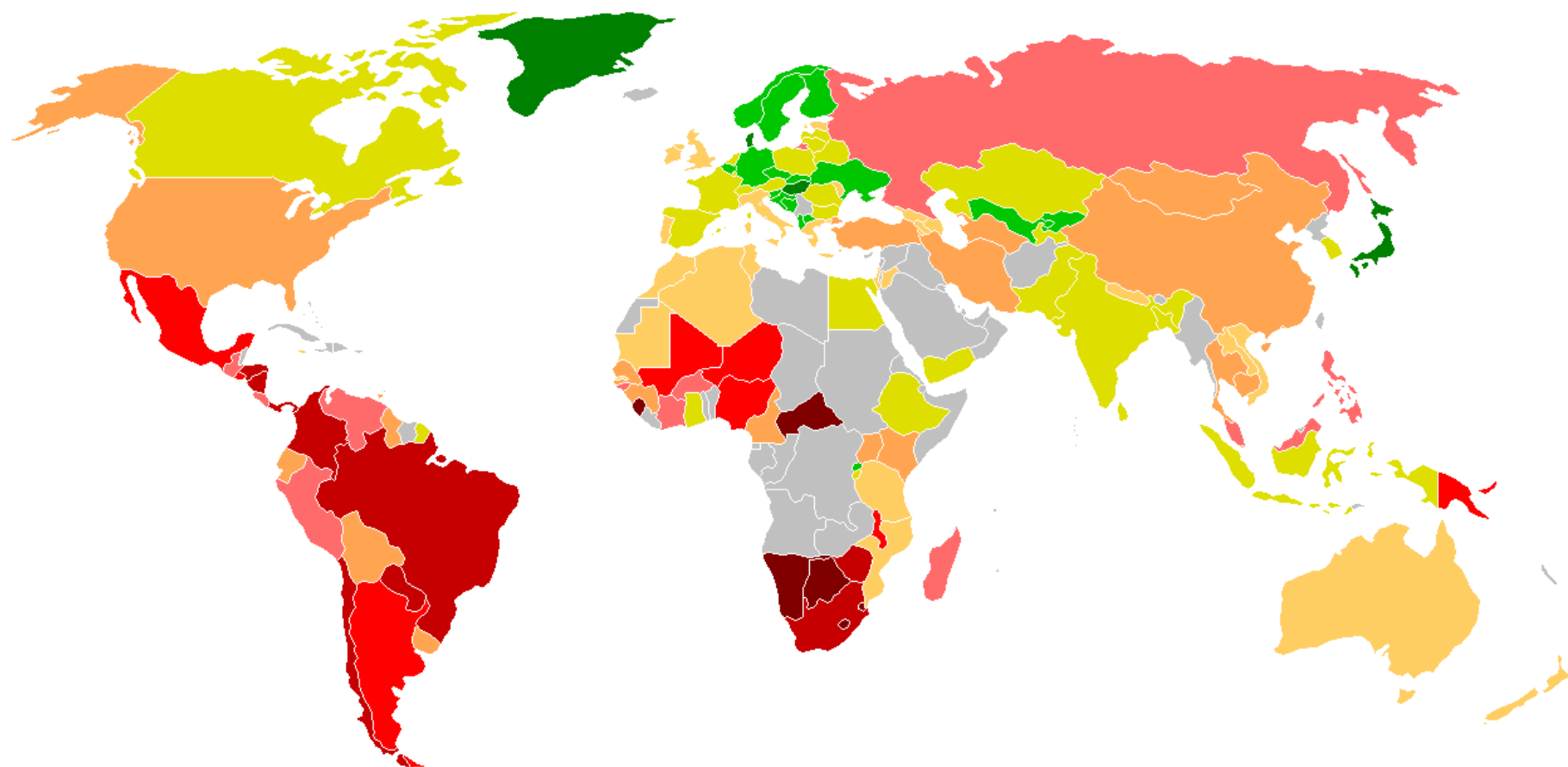
 Route Number	 Toilet	 Hiking Trail
 Road Number	 Hospital	 Natural Reserve
 Service Station	 Hotel	 Zoo
 Toll Plaza	 Embassy	 Restaurant
 Tourist Information	 Post Office	
 Shopping	 Bus / Taxi Rank	













**Map Legend**

- 1** Park & Ride; number corresponds to list
- Dulles Toll Road (Rt. 267)**
  - Eastbound 6:30-9:00 a.m. Left Lane
  - HOV-2 (minimum 2 persons) Westbound 4:00-6:30 p.m. Left Lane
- I-66 Inside Beltway**
  - Eastbound 6:30-9:00 a.m. ALL LANES
  - HOV-2 (minimum 2 persons) Westbound 4:00-6:30 p.m. ALL LANES
- I-66 Outside Beltway**
  - Eastbound 5:30-9:30 a.m. Left Lane
  - HOV-2 (minimum 2 persons) Westbound 3:00-7:00 p.m. Left Lane
- I-95 & I-395**
  - Northbound 6:00-9:00 a.m. Reversible
  - HOV-3 (minimum 3 persons) Southbound 3:30-6:00 p.m. Dedicated Lanes
- Diamond** Dedicated HOV Entrance (open only during HOV hours)
- Reverse Diamond** Dedicated HOV Exit (open only during HOV hours)
- VRX** Virginia Railway Express (VRE) Station
- VRX Line** VRE Rail Line
- M** Metrorail Station
- Blue Line** Metrorail Blue Line
- Orange Line** Metrorail Orange Line
- Yellow Line** Metrorail Yellow Line
- C** Connector Store

\*Motorists traveling to and from Dulles International Airport are permitted to use Dulles Access Road and I-66 during HOV hours.

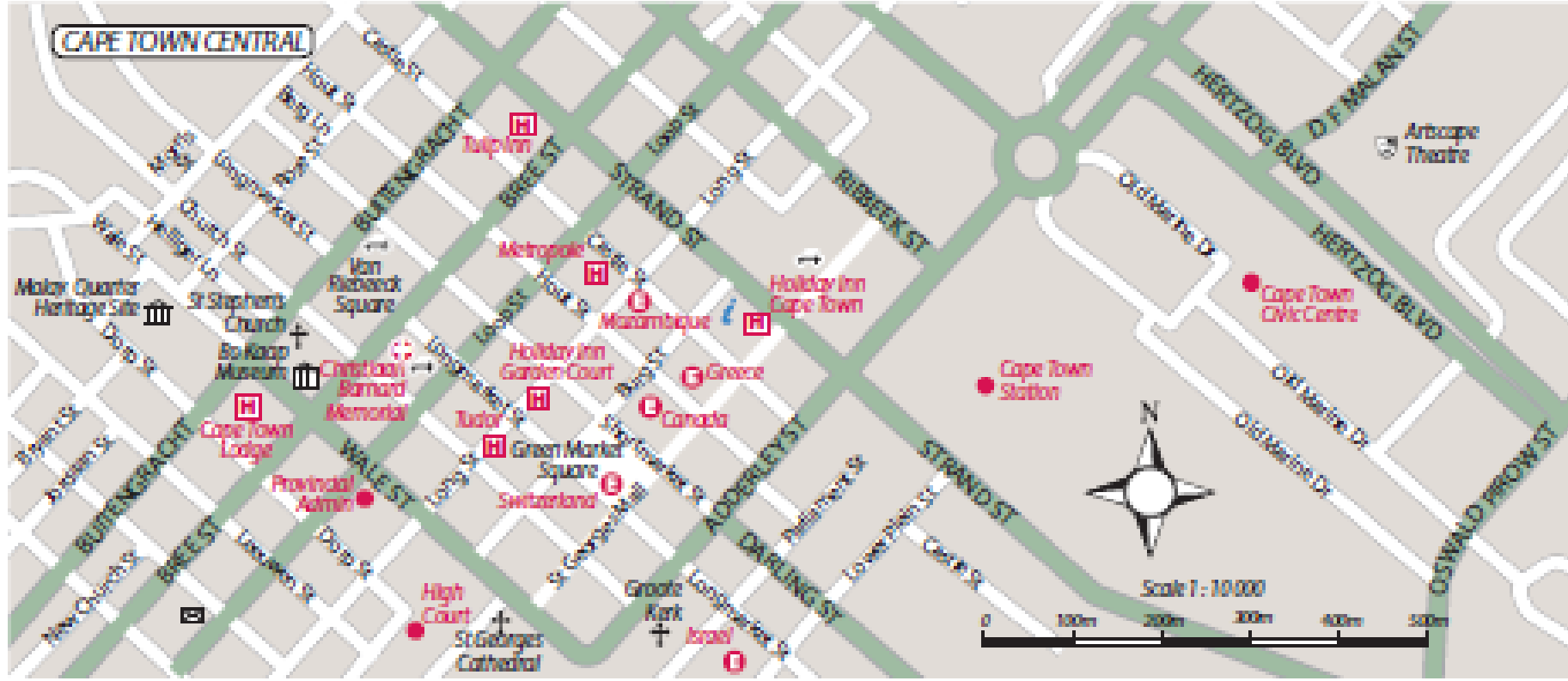


<b>Color</b>	<b>Gini coefficient</b>		0,35 - 0,39		0,55 - 0,59
	< 0,25		0,40 - 0,44		> 0,60
	0,25 - 0,29		0,45 - 0,49		NA
	0,30 - 0,34		0,50 - 0,54		

## 2 Scale

- Definition of scale: it represents the ratio of a distance on the map to the actual distance on the ground. This is important when we plan a tour.
- Example: 1:50 000 means 1cm represents 50 000cm or 0,5km in reality. Ratio is usually indicated on a line scale.





CAPE TOWN CENTRAL

Artscape Theatre

Cape Town Civic Centre

Cape Town Station

Scale 1 : 10 000

0 100m 200m 300m 400m 500m

Malay Quarter Heritage Site

St Stephen's Church  
Bo-Kaap Museum

Christian Barnard Memorial

Cape Town Lodge

Provincial Admin

High Court

St Georges Cathedral

Tulipen

Metropole

Holiday Inn Garden Court

Green Market Square

Switzerland

Holiday Inn Cape Town

Manambique

Greece

Canada

Israel

Groote Kerk

# 3 Distance indicators

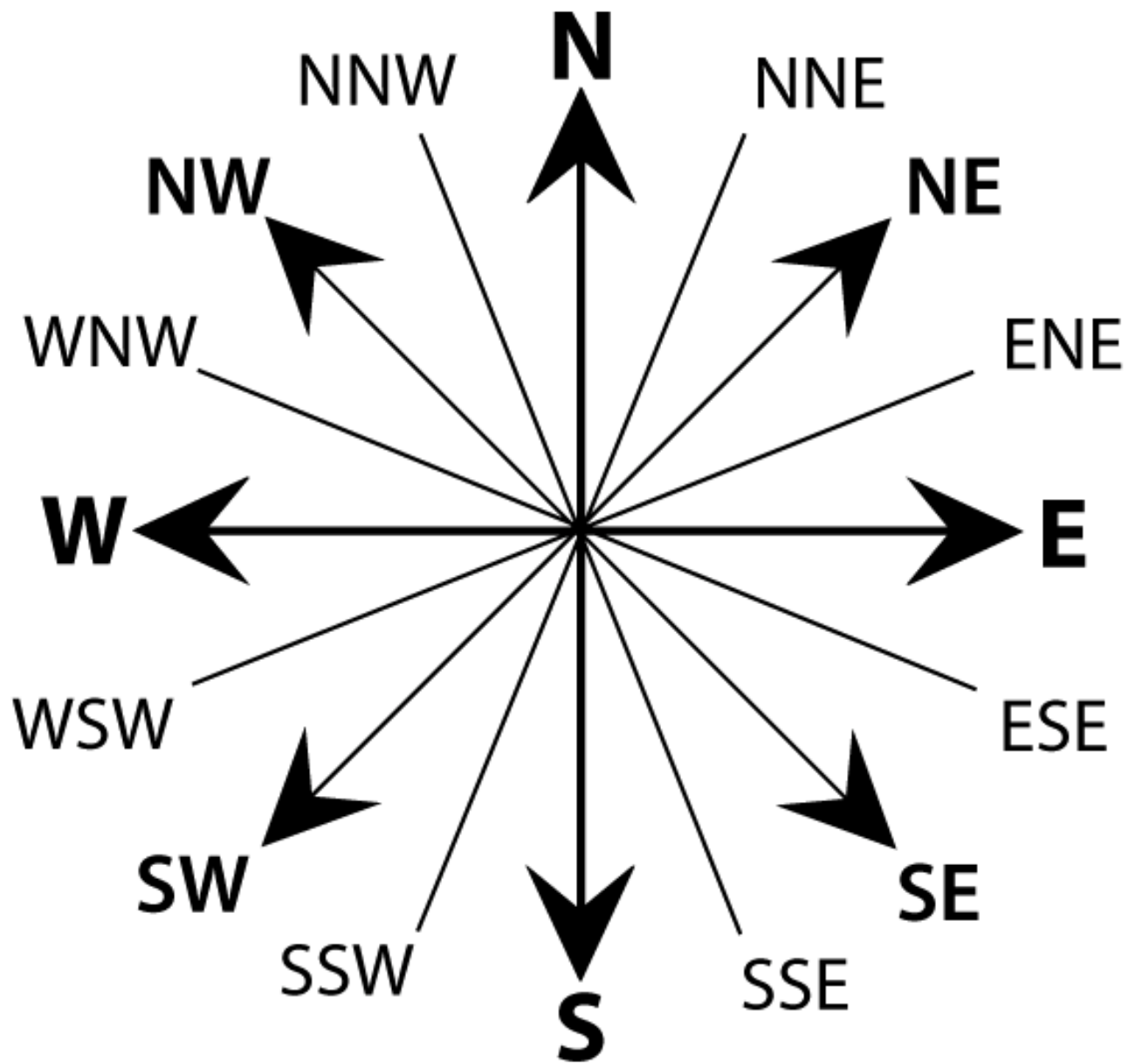
- Distance indicators on a map show the distances between places on the routes connecting towns.
- Usually used on tourist maps, then they can calculate the distances between destinations.

Distance in Kilometres



# 4 Direction

- Direction is the way to describe the position of one place in relation to another. There are 16 different points of directions. Four main points are known as the cardinal points namely North, East, South and West.

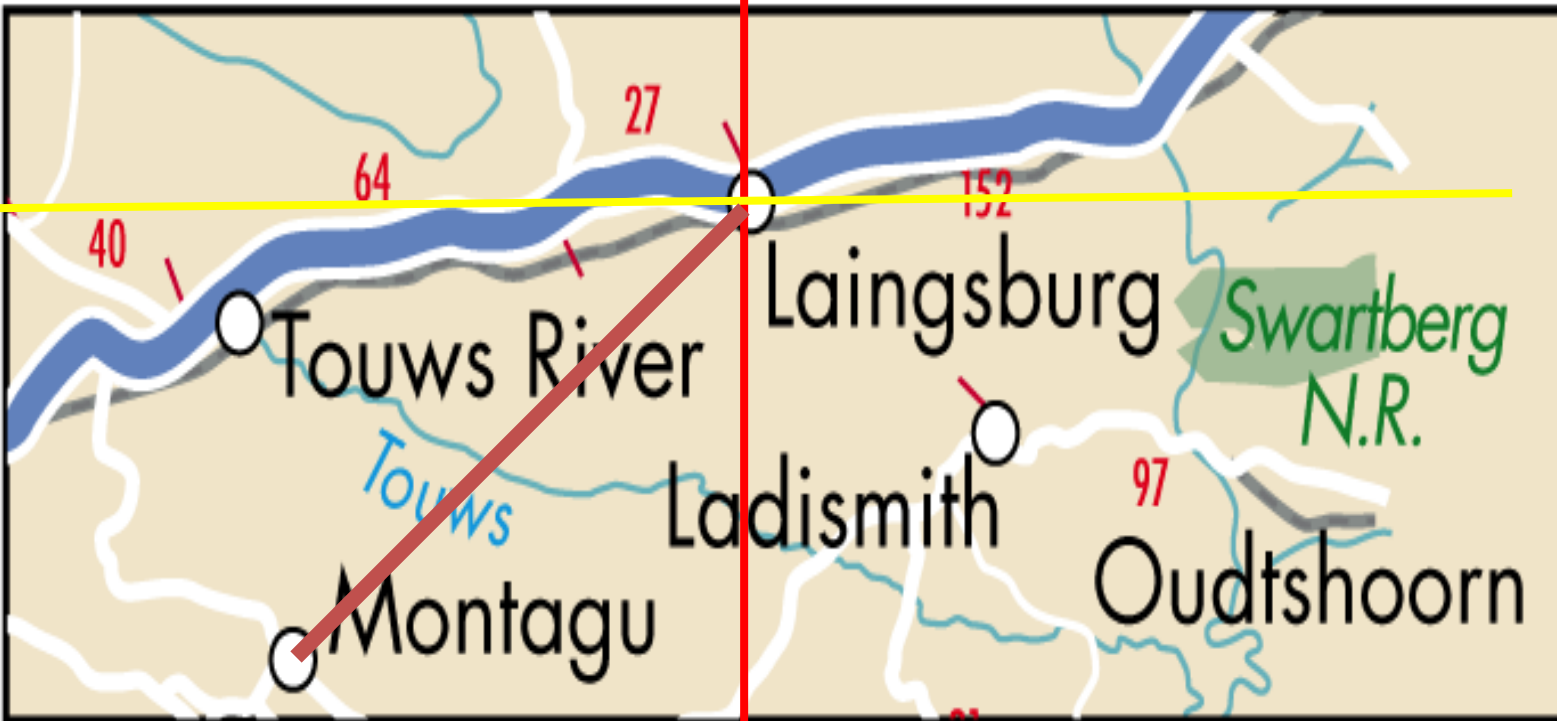


# 4 Direction

- Draw a vertical line through the point where the direction is being taken: North-South line. Then draw a horizontal line through the same point: West-East line. Draw a line joining the two places – the place where the direction is being measured to the place to which direction is being measured.

**North-South line**

**West-East line**



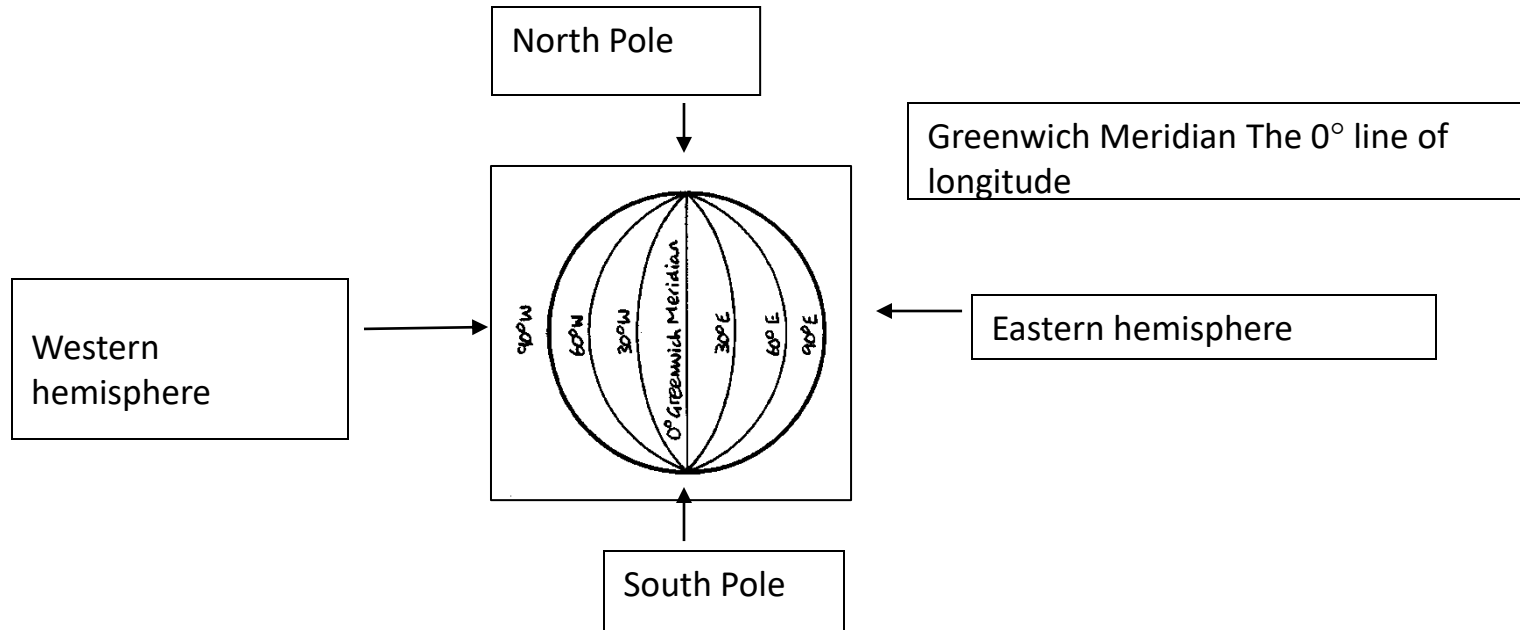
**SSW or SW**

# Terminology relevant to time zones

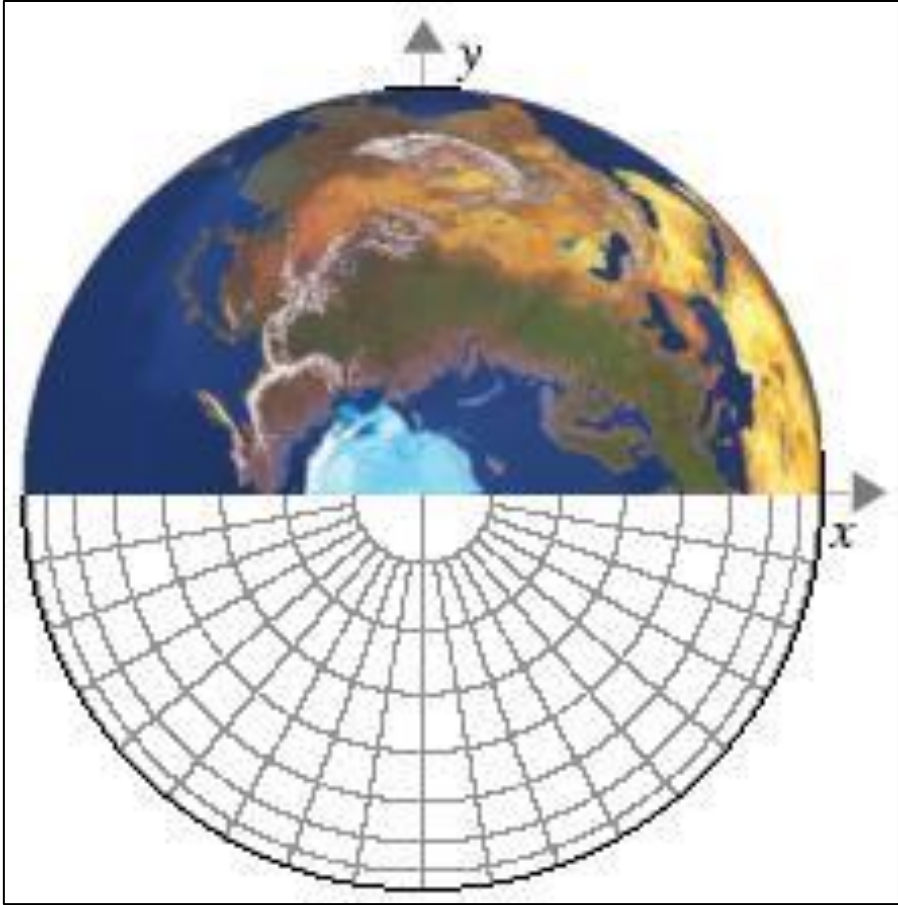
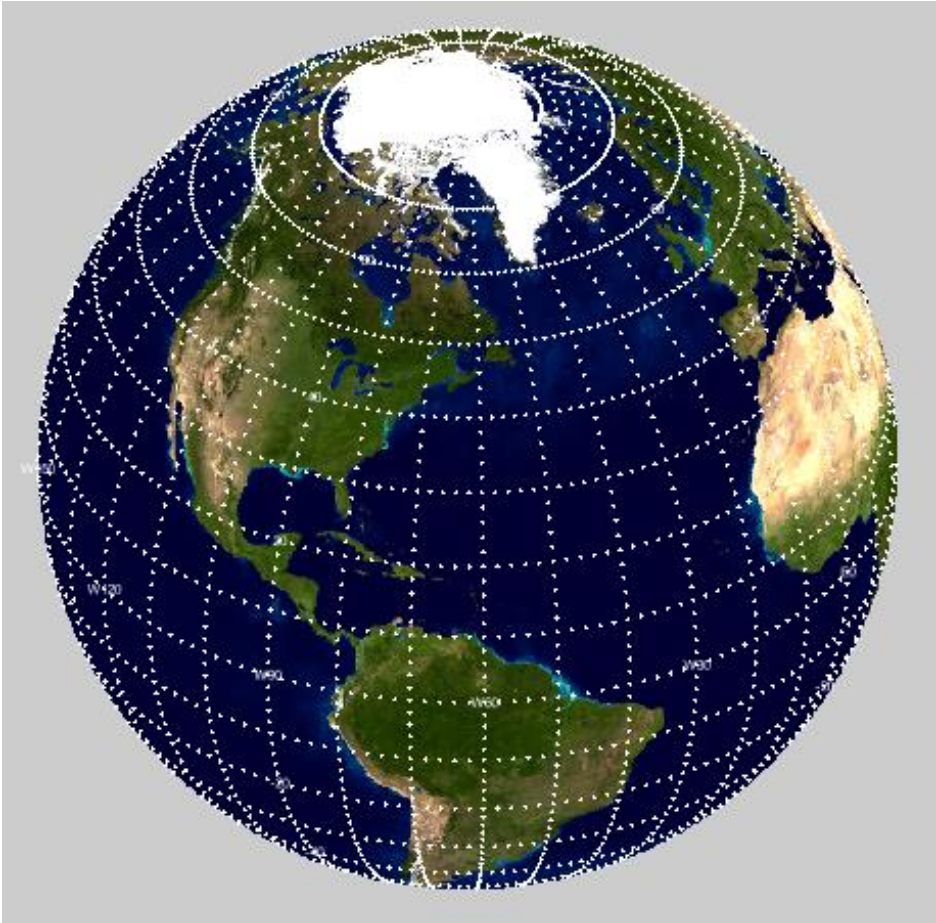
- Countries are located in different **time zones** thus travel agents consider **time differences** when working out suitable travel times for tourists.



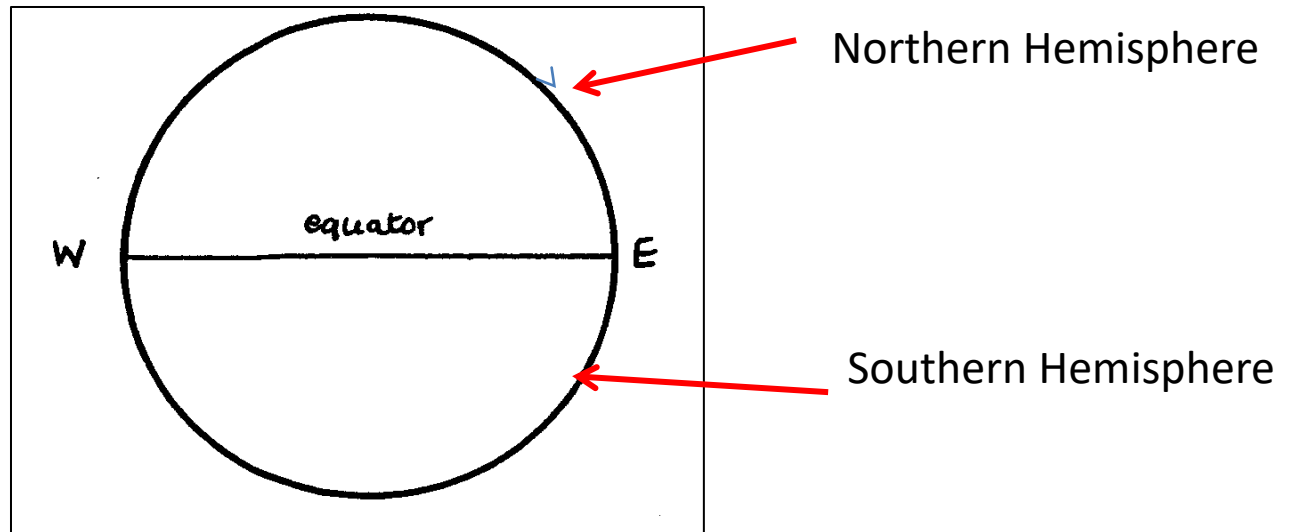
# Lines of Longitude



All Meridian runs from the North Pole to the South Pole and divides the earth into 24 time zones. Each  $15^\circ$  line = one hour in time. Because it takes 24 hours for the earth to rotate from west to east.



# Line of Latitude



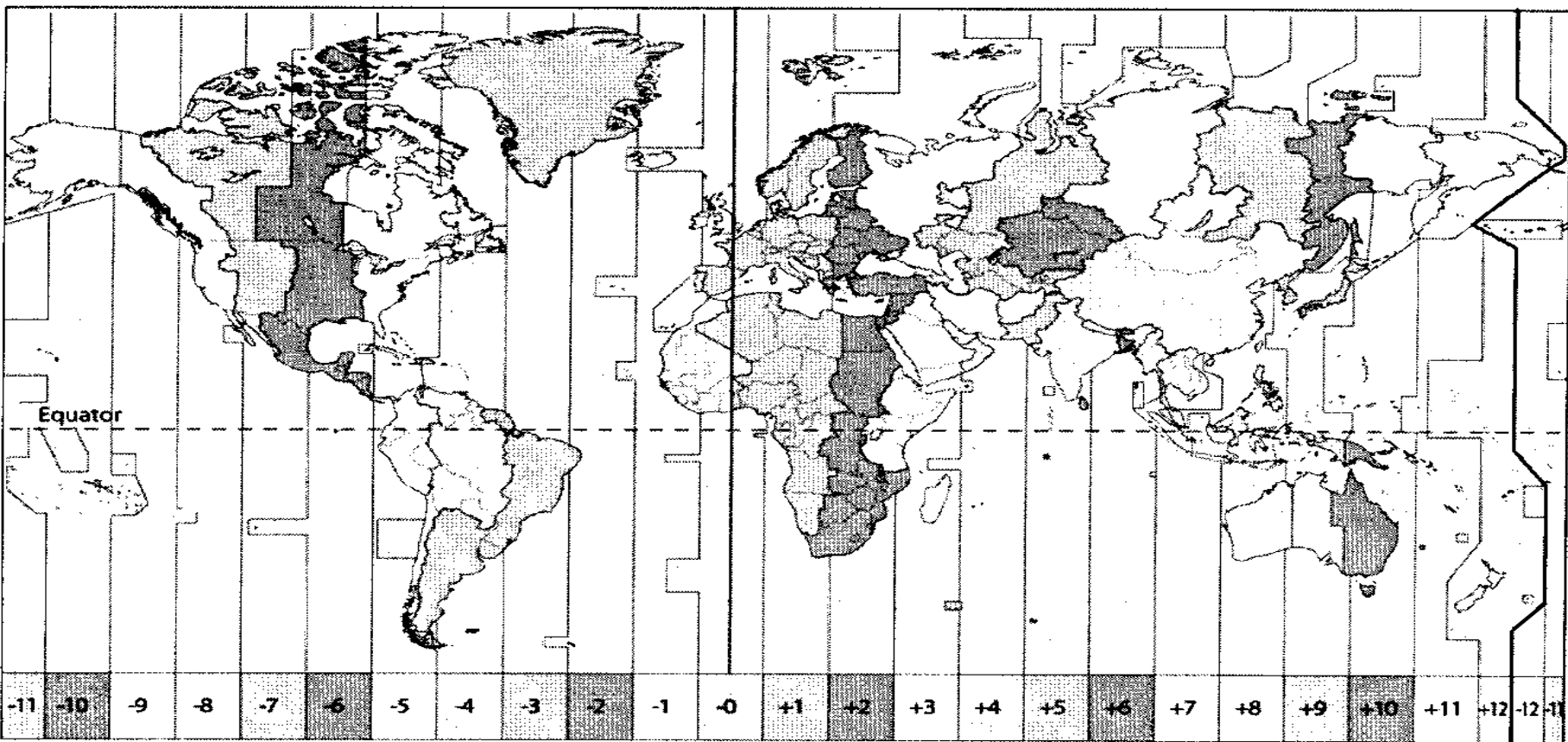
Lines of Latitude runs parallel with the equator, the 0° line of latitude

# Grid lines

- We use grid lines to locate a place or feature on a map.
- A grid = coordinate system, that consist of vertical and horizontal lines, which is placed on a map.
- The commonly used grid system is a numbered square grid seen on page 76

# Time Zones

- The time zone of a country is calculated in relation to the Universal Time Coordinate (UTC) that is based on the local standard time of the Greenwich Meridian  $0^{\circ}$  line.
- Time Zones is based on the line of longitude that runs through the country. SAST – South African Standard Time is determined by the  $30^{\circ}\text{E}$  line of longitude.



Greenwich Meridian

International Date Line

Equator

-11 -10 -9 -8 -7 -6 -5 -4 -3 -2 -1 0 +1 +2 +3 +4 +5 +6 +7 +8 +9 +10 +11 +12 -12 -13

Day 1, 01h00  
Day 1, 02h00  
Day 1, 03h00  
Day 1, 04h00  
Day 1, 05h00  
Day 1, 06h00  
Day 1, 07h00  
Day 1, 08h00  
Day 1, 09h00  
Day 1, 10h00  
Day 1, 11h00  
Day 1, 12h00  
Day 1, 13h00  
Day 1, 14h00  
Day 1, 15h00  
Day 1, 16h00  
Day 1, 17h00  
Day 1, 18h00  
Day 1, 19h00  
Day 1, 20h00  
Day 1, 21h00  
Day 1, 22h00  
Day 1, 23h00  
Day 2, 00h00  
Day 1, 00h00  
Day 1, 01h00

Scale 1:85 000 000 at Equator  
0 500 1000 Kilometres

Greenwich Mean Time (GMT)

▲ International time zones

# STANDARD TIME ZONES OF THE WORLD



IDL

Scale 1:85,000,000 at 0°  
Miller Cylindrical Projection

0 50 100 Kilometers  
0 100 200 Miles  
Boundary positions not necessarily authoritative

Coordinated Universal Time (UTC)  
formerly  
Greenwich Mean Time (GMT)

French Sahara and Chad Lands  
FRANCE  
110°E  
115°E  
120°E  
125°E  
130°E  
135°E  
140°E  
145°E  
150°E  
155°E  
160°E  
165°E  
170°E  
175°E  
180°E  
185°E  
190°E  
195°E  
200°E  
205°E  
210°E  
215°E  
220°E  
225°E  
230°E  
235°E  
240°E  
245°E  
250°E  
255°E  
260°E  
265°E  
270°E  
275°E  
280°E  
285°E  
290°E  
295°E  
300°E  
305°E  
310°E  
315°E  
320°E  
325°E  
330°E  
335°E  
340°E  
345°E  
350°E  
355°E  
360°E

UTC-12	UTC-11	UTC-10	UTC-9	UTC-8	UTC-7	UTC-6	UTC-5	UTC-4	UTC-3	UTC-2	UTC-1	UTC+0	UTC+1	UTC+2	UTC+3	UTC+4	UTC+5	UTC+6	UTC+7	UTC+8	UTC+9	UTC+10	UTC+11	UTC+12
Sun 1:00	Sun 2:00	Sun 3:00	Sun 4:00	Sun 5:00	Sun 6:00	Sun 7:00	Sun 8:00	Sun 9:00	Sun 10:00	Sun 11:00	Sun 12:00	Sun 13:00	Sun 14:00	Sun 15:00	Sun 16:00	Sun 17:00	Sun 18:00	Sun 19:00	Sun 20:00	Sun 21:00	Sun 22:00	Sun 23:00	Sun 24:00	Sun 1:00

WEST EAST Add or subtract number local time when UTC. Subtract or add number UTC to obtain local time.

# International Date Line (IDL)

- This is an imaginary line on the earth's surface at 180° longitude.
- The time on both sides are the same but the dates differ.