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How can we do that?

As you move east you are adding. It would be 5 pm, 6 pm, 7 pm, 8 pm, 9 pm, 10 pm, 11 pm, 12 (noon) . Then 12 (noon) that would be shifting in the day. So if it is 4<sup>th</sup> June at 4 pm and then 12 (noon) that would be shifting a day, so 5<sup>th</sup> June at 12 (midnight) , and that again 12 (midnight) , 1 am, 2 am, 3 am, 4 am, 5 am, 6 am so it would be here. So if the time is 4 pm at 120° degree west and would be comes 6 am at 90° degree east. So that a very kind of simple calculation is here.

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I include the flight time suppose the I am boarding flight from  $120^{\circ}$  degree west at same location and at the same time 4 pm. My flight duration is 6 hours, at what time I will reach  $0^{\circ}$  degree that a London or the Greenwich meridian.

How do I calculate that?

I am stating at 4 pm, my flight time is 6 hours that means that 6 hours lost in air, so you would have a starting point as 10 pm. Now when I move till  $0^\circ$  degree what would be the time? It would be a 10 pm, 11 pm, 12 midnight then 1 am, 2 am, 3 am, 4 am, 5 am, and 6 am. So I will reach  $0^\circ$  degree London at 6 pm. So if I am boarding today I will reach tomorrow at 6 am. So that is one concept you need understand.



Now that next important concept is a concept of date line. When we talk about date line is important to understand how we move around the date line. So when we move around to west of date line and to the east of date line there is a difference. So let's say I start at  $105^\circ$  degree west and you have 5 pm so you have  $105^\circ$  degree, 5 pm is local time here and that date is same 8 august. Now what would happen? Now let's calculate what would happen, we cross to east to west and then will see what would happen when we cross west to east. Now this is International Date Line. And again the same international date line. We are drawing to in different location and then we will see how it's works around crossing the International Date Line.

Now when I am crossing the date line, I am starting with 5 pm, it becomes 4 pm I am going back so as I moving west I'm losing time. So you have 5 pm, 4 pm, 3 pm, 2 pm, 1 pm and 12 noon. So  $180^\circ$  degree date line at 12 noon. I try to understand as I said we are taking this as

between  $7.5^\circ$  degree east and  $7.5^\circ$  degree west. And those all region would be  $0^\circ$  degree and 0 (Zero) time zone, then what would have been next time which would start from here to here would be + 1.

So here again this point it would be 12 noon. And seen day here is 8<sup>th</sup> august and what would happen. Soon as I cross this half of the section here, it would be 12 noon. As soon as I cross it become 9<sup>th</sup> august so you would have day that added as I move there. Because let's move this way, then you will understand why we are adjusting a day, why this is important to adjust the day at the International Date Line.

Now same example let's go east. So I have 5 pm, 6 pm, 7 pm, 8 pm, 9 pm, 10 pm, 11 pm and 12 midnight. At 12 midnight we automatically change the day. So 8<sup>th</sup> august here would become 9<sup>th</sup> august. Now want I have 9<sup>th</sup> august. This region was 9<sup>th</sup> of august is a 12 midnight. Now I'm going further east. So it would be adding few mores so, 1 am, 2 am, 3 am, 4 am, 5 am, 6 am, 7 am, 8 am, 9 am, 10 am, 11 am and 12noon. Now this 12noon till the point I reach here. It would be 9<sup>th</sup> of august of 12<sup>th</sup> noon but as soon as I say cross the international date line towards east, I loss a day that means beyond  $180^\circ$  degree east it becomes 8<sup>th</sup> of august and that is true.

See I'm taking about globe. Now develop perspective of on the globe with self. So you have  $180^\circ$  degree. Let's see this is  $180^\circ$  degree and this is  $0^\circ$  degree. I'm starting from the back. Which 5 pm and I am trying to go east so it's  $105^\circ$  degree west which is here and I am trying to cross date line towards the east. This 8<sup>th</sup> of august I reach the meridian and make it 9<sup>th</sup> of August and as soon as I reach on other the side when I cross it would be 8<sup>th</sup> of august. Therefore, I maintain common date on the globe. Otherwise there would be no end to the expansion of the day. So in simple terms I can say half of the 8<sup>th</sup> of august and half of the 9<sup>th</sup> of august.



Now the next thing is very important as the time zone. That is spread across the country now if we just about mainland Russia has maximum number of time zone with 11 time zones. However if we talk about the mainland and territories French would top the list and French has 12<sup>th</sup> time zone. Because of territories that are spread throughout the world. So you have main French is UTC-1 then the

territory of the French and southern and Antarctic land and then towards the Mali nation island group so all this together has total 12 time zones. However if we talk about the mainland the maximum number of time zones are in Russia - 11 time zone.

Now there is another most important concept to understand that is latitude, longitude, time zone and Daylight saving Time.