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Prelims PYQ, Mains model answers, and copy evaluation. Write to the desk for this paper, a doubt, or the AI waitlist.

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Q4

## **Why is Indian Regional Navigational Satellite System (IRNSS) needed? How does it help in navigation?**

UPSC Civil Services Mains 2018 · GS I · 10 marks · World's Physical Geography

Salient features of world's physical geography.

Facts & figures for this PYQ only.

Numbers move. Confirm the latest Budget, Economic Survey or census round. This sheet is for revision, not a substitute for the model answer.

<https://wrapexams.com/upsc/mains-answers/gs-1/2018/why-is-indian-regional-navigational-satellite-system-irns-s-needed-how-does-it-help-in-navigation/>

### **NavIC / IRNSS**

Indian Regional Navigation Satellite System, India's independent regional GNSS.

### **Coverage belt**

Primary service over India and roughly 1,500 km beyond its borders.

### **SPS and restricted service**

Open civilian Standard Positioning Service and a restricted service for authorised users.

### **GEO and GSO mix**

Geostationary and geosynchronous satellites that keep the Indian region in continuous view.

### **S-band plus L-band**

Frequency design that helps fight ionospheric delay over tropical India.

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