



Southern California Coastal Ocean Observing System (SCCOOS) HF Radar Operations

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Personnel

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High Frequency Radar



- Remote Sensing technique to measure ocean surface currents.
- 5-25MHz radio waves transmitted from station, Bragg scatter off of ocean waves ½ radar wavelength.
- Surface current creates Doppler shift of sm wavelength waves, which is measured in th backscatter spectrum.
- Range 40-200 km
- Resolution 1-5 km



HF Radar Equipment









Network Usage



- Each radar site produces ~ 100 GB/year
- Only processed data is sent to SIO servers
- Radial currents transmitted hourly ~ 5 MB/hr (25 GB/yr)
- Occasional maintenance with Timbuktu/VNC
- Low bandwidth operation



http://www.sccoos.org/data/hfrnet/showplots.php?lat=32.9470&Jon=-117.6795&mask=6km&time=1191549600&avgs=1





TJ River Plume Tracking





TJ River Plume Tracking





National Network Realtime Data page

San Diego, Point Loma (SDPL) Network: SIO Latitude: 32.6658 Longitude: -117.2396 Arrival Time: 2006-08-17 17:11:03 Center Frequency: 25.27 MHz Beampattern: Measured Most Recent File: Rad_m_SDPL_06-08-17_1600.hfrss10lluv File Format: hfrss10lluv Nolumes/DataDrive: Used: 18.2 GB, Free: 23.0 GB /: Used: 5.8 GB, Free: 8.5 GB Receiver Temp.: 43 C AWG 3-Module Temp.: 50 C Tx Drive: Pulse Tx Forward Power: 32.3 W Tx Forward Reflected: 3.4 W More Plots Age: 2:16 (H:MM) Page Generated: 2006-08-17 18:16:44 GMT





