Cassini Radio Science Operations Archive

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bout This Archive						
The Cassini Radio Science Non-Science Archive contains data, docum nission at Saturn from 2004 to 2017. This data set does not contain so ather contains information that was collected in support of the real-tim Radio Science are available on the <u>PDS Atmospheres Node</u> . A descrip	cience data (such as open-loop le operations and analysis to co	recordings) or ancil lect the science da	lary supporting ta. Science dat	products (such as n	nedia calibratio	n files), but
bout the RSS Subsystem						
Cassini's Radio Science Subsystem (RSS) is designed to take measur ilometers (more than 621 million miles).	rements using radio waves bear	ned to Earth that ex	plore similar co	oncepts at a distance	e of more than a	a billion
he largest instrument on the mission, RSS is split in two parts: one re Deep Space Network complexes.	sides on the spacecraft, the oth	er at stations equip	ped to receive	very stable radio sig	nals at each of	the three
The instrument's split personality allows it to measure the forces acting also measures how radio signals are affected by whatever material con ings and atmosphere.						
The Radio Science instrument can measure changes in velocity less the planet and its many natural satellites.	nan a micron per second at enor	mous distances all	owing scientists	s to gain information	on the interior	structure of
Cassini is the only deep space mission to transmit to Earth at three rac lesignated Ka-band) simultaneously.	dio wavelengths (approximately	14 cm wavelength,	designated S-t	oand; 4 cm, designa	ted X-band; and	d 1 cm,
 Mass (current best estimate) = 14.38 kg Peak Operating Power (current best estimate) = 80.70 W Peak Data Rate (current best estimate) = not applicable: carrier 	r only (the RSS sensing devices	are on Earth at the	Deep Space S	Stations in California	, Spain and Au	stralia)
For more information, visit the RSS page at the offical Cassini site here	-					

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