















Po	larization with dipo	ble
<ul> <li>Since GPS s circular polar receive RCP</li> </ul>	ignals are transmitte rization, ideally an ar radiation	d with right- itenna should
<ul> <li>This can be on (horizontal) of other and ad 90° phase sh</li> </ul>	done with dipoles by dipoles perpendicular ding the output with hift (sets RCP or LCF	having two r to each the correct ?)
<ul> <li>Macrometer worked this v to get L1 and</li> </ul>	(early MIT GPS rece way. (Set height dipo d L2 tracking).	viver) antenna le was tricky
04/16/03	12.540 Lec 17	9















Ρ	hase center models	S
<ul> <li>First phase of data from a signals were to measure transmitted a</li> </ul>	center models were m chamber in which L1 a transmitted and ante phase difference betw and received signal.	ade using and L2 nna rotated reen
antenna car like sin²(θ) b plane gain).	y in also measured so h be measured (expect out with response for θ	t it to behave >90 (back-
04/16/03	12.540 Lec 17	17

Relat	ive phase center mod	lels
<ul> <li>If an antenn available, th antenna car measureme monuments</li> </ul>	a with 0 phase center va en phase center of anot be found by making dif nts between antenna on with known locations.	ariation is her ferential 1
<ul> <li>National Ge setup: <u>http:/</u></li> </ul>	odetic Survey (NGS) ha /www.ngs.noaa.gov:80//	s largest ANTCAL/
04/16/03	12.540 Lec 17	18























