

# Testing the P1-P2 Satellite DCB Results Produced by the IGS Ionosphere ACs for Systematics

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- Three months (GPS weeks 1065–1077) of daily P1-P2 satellite DCB sets were extracted from the IONEX files provided by COD, EMR, ESA, JPL, and UPC and combined to AC-specific sets. These five mean DCB sets were then compared with respect to each other and also with respect to an overall mean set. Note that “All” and “All(-UPC)” were computed without considering “CO2,” a test solution which we are generating in parallel.

- The following matrix contains the thus obtained rms errors (in nanoseconds):

	EMR	ESA	JPL	UPC	CO2	All	All(-UPC)
COD	0.122	0.106	0.110	0.370	0.043	0.094	0.065
EMR		0.109	0.144	0.371	0.126	0.104	0.081
ESA			0.118	0.373	0.093	0.095	0.063
JPL				0.393	0.086	0.117	0.080
UPC					0.369	0.296	0.370
CO2						0.088	0.056