Near-Earth-Asteroid Radar at Goldstone, Aug 1996 - Jun 1998

S.J. Ostro, L.A.M. Benner, D. Choate, C.R. Franck, R. Frye, J.D. Giorgini, R.F. Jurgens, D. Kelley, R. Rose, K.D. Rosema, M.A. Slade, M.L. Thomas, R. Winkler, D.K. Yeomans (JPL-Caltech), R.S. Hudson (Wash. State)

We obtained echoes from nine NEAs during this period. The following table presents some of our our astrometric results. Each entry gives the time delay or Doppler frequency for echoes from the target's center of mass, received at the specified UTC epoch. Stated errors incorporate uncertainties in target dimensions. Observations used 8510-MHz transmissions from DSS-14 and reception at DSS-14 or DSS-13, as indicated. Each antenna's reference point is the intersection of the elevation and azimuthal axes. Here 1 us corresponds to 150 m in range and 1 Hz corresponds to 1.76 cm/s in radial velocity.

Target	UTC Epoch yyyy/mm/dd	hh:mm:ss	Type	Measurement	+/-	RCV
7822 (1991CS)	1996/08/26	14:10:00	DOP	491117.6 Hz	0.5 Hz	14
4197 (1982TA)	1996/10/23	07:10:00	DOP	488339 Hz	5 Hz	14
4197 (1982TA)	1996/10/23	11:10:00	DEL	89.601609 s	13 us	14
4197 (1982TA)	1996/10/24	06:50:00	DEL	86.425022 s	13 us	14
4197 (1982TA)	1996/10/28	17:00:00	DEL	94.450116 s	13 us	14
4179 Toutatis	1996/11/26	18:00:00	DEL	40.12841509 s	0.3 us	13
4179 Toutatis	1996/12/01	13:20:00	DEL	36.57292418 s	0.3 us	13
7341 (1991VK)	1997/01/10	18:20:00	DOP	3731.0 Hz	5 Hz	14
7341 (1991VK)	1997/01/11	19:10:00	DEL	75.008124 s	5 us	14
7482 (1994PC1)	1997/01/20	05:10:00	DEL	65.524897 s	4 us	14
7482 (1994PC1)	1997/01/23	04:50:00	DEL	69.2846055 s	10 us	13
1997BR	1997/07/01	20:40:00	DOP	375473.1 Hz	0.5 Hz	14
1998BY7	1998/02/21	05:30:00	DOP	-25905 Hz	10 Hz	14
6037 (1988EG)	1998/02/27	01:30:00	DEL	35.7262935 s	2.0 us	14
6037 (1988EG)	1998/03/03	05:30:00	DOP	-485452.20 Hz	0.2 Hz	14
6037 (1988EG)	1998/03/04	05:10:00	DEL	43.2599250 s	2.0 us	14
1998KY26	1998/06/06	03:40:00	DOP	201145.6 Hz	3.0 Hz	13
1998KY26	1998/06/07	14:00:00	DEL	5.61737824 s	0.2 us	13
1998KY26	1998/06/08	12:30:00	DEL	5.3867641 s	10.0 us	13
1998KY26	1998/06/08	12:30:00	DOP	-37379.439 Hz	3.0 Hz	13

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Paper presented by Steven J. Ostro
300-233
Jet Propulsion Laboratory
Pasadena, CA 91109-8099
Phone: 818-354-3173
Fax: 818-354-9476
Email: ostro@echo.jpl.nasa.gov
Point to URL:
Send email inquiries to: ostro@echo.jpl.nasa.gov

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