NASA Technical Memorandum 100689

Crustal Dynamics Project Data Analysis—1987

Volume 2—Mobile Site
VLBI Geodetic Results
1979-86

C. Ma and J. W. Ryan
Goddard Space Flight Center
Greenbelt, Maryland

National Aeronautics and
Space Administration

Goddard Space Flight Center
Greenbelt, Maryland 20771

1987

Table of Contents

CRUSTAL DYNAMICS PROJECT DATA ANALYSIS - 1987

Volume 2. Mobile Site VLBI Geodetic Results

I. INTRODUCTION

This report to the Crustal Dynamics Project Data Information System (CDP-DIS) documents the results obtained by the Goddard VLBI Data Analysis Team in analyzing the CDP VLBI observing sessions using mobile VLBI between Oct. 1982 and the end of 1986. Also included are results from the Venus station in the Deep Space Network Goldstone tracking complex (GOLDVENU), from MV-1 at the Vandenberg Air Force Base referred to its ground monument, and from six fixed station baselines used in mobile sessions.

The results presented here are the complete mobile data set for the stated period. Earlier single frequency experiments are considered unusable because of the inability to calibrate the ionosphere. The values presented were estimated by extending the GLB122 solution described in Volume 1 (NASA TM 100682). With the exception of two experiments involving GOLDVENU, the observations and data analysis methods are identical to those for fixed stations. All mobile results are referred to ground monuments using eccentricity data obtained during each observing session. The GLOBL analysis system described in Volume 1 was used.

II. OBSERVATIONS

Mark III instrumentation described in Volume 1 was used for all observations. In addition to VLBI observations, the vector from a ground geodetic monument to the VLBI reference point of the mobile antenna was recorded for each session by the observers. The method used to measure eccentricities was developed by the National Geodetic Survey. A single geodetic monument is used at each mobile site although the antenna may actually have been placed over different monuments for different site occupations. The eccentricity data are compiled by the National Geodetic Survey for the CDP in a file named ECCDAT and are not contained in this report. An error in the eccentricity of MV-1 at Vandenberg* discovered in September, 1987 is corrected in this report. Table 1 lists the CDP mobile site names, monument numbers, and approximate locations.

In two sessions, $84JAN07X and $84JAN14XP, phase delay data were used to determine the baseline between MOJAVE12 and GOLDVENU. No delay rate data were used. The intrinsic precision of phase delay is considerably better than group delay, but the small size of the phase delay ambiguity limits its geodetic applications to shorter baselines or special schedules.

* memo, M. Abell (NGS) to distribution, November 4, 1987.

III. DATA ANALYSIS RESULTS

The purpose of the GLB171 solution was to produce tables of baseline evolution from the complete CDP VLBI data set including both fixed stations and mobile sites in a manner that made no a priori assumptions about tectonic plate motion. The station coordinates were therefore treated as arc parameters, i.e., they were allowed to vary from session to session subject only to the constraint of being estimated with a global set of source coordinate values. The GLB171 solution used 221,775 delays and 221,594 rates to estimate 109 global parameters and 16,862 arc parameters. Included were 556 separate sessions. There were 50,307 data pairs and 97 sessions comprising the mobile data base. Table 2 lists the 101 sessions involving mobile sites and GOLDVENU. No experiment purpose comparable to that indicated in Volume 1 was defined for the mobile sessions listed in Table 2. The overall weighted rms fit of the solution was 75 ps for delay and 64 fs/s for delay rate, and the reduced chi-square was 0.98. The 109 global parameters are the coordinates of the observed extragalactic radio sources except for the right ascension of 3C273B, which was fixed to define the right ascension origin of the celestial frame. The source positions are given in Table 3. With the exception of two sources with known structure (3C84 and 3C279) observed almost entirely only in mobile schedules and three southern sources (1034-293, NRAO530 and 1921-293), the positions are insignificantly different from Volume 1. The arc parameters included the positions of the stations for each session (except for the reference station for that session), the parametrizations for the station clocks and atmospheres and daily offsets in obliquity and longitude.

Tables 4.1 - 4.131 present the baseline lengths and formal errors from the mobile, GOLDVENU, and VNDNBERG observing sessions. The number of observations used and the total number of observations acquired are also listed. Where the number of observations is blank, the observations on the baseline were not correlated and the baseline was inferred from closure of the observing network. The mobile baselines listed in Volume 1 are repeated here for convenience. The baselines from a mobile site or VNDNBERG run from the listed ground monument. The baselines from a fixed station run from the antenna VLBI reference point. For an antenna with intersecting axes, the VLBI reference point is the intersection. For an offset axis antenna, the VLBI reference point is the intersection of the fixed axis with the plane perpendicular to the fixed axis that contains the moving axis. All baseline lengths are chord distances.

Tables 4.1 - 4.131 also show the weighted mean baseline values, the weighted rms scatter about the mean values, and the rate of change of baseline length when a meaningful value can be computed. In general the rate of change is not presented if there are too few observing sessions or if the sessions do not span more than one year. The least-squares mean and rate

estimates are based on the formal standard errors of the individual baseline length values. The listed error for each mean and rate value was computed by scaling the formal error from the least-squares estimate by the reduced chi-square of the fit. The weighted rms fit of the data about the best-fit line is also given where relevant.

Tables 5.1 - 5.92 present the transverse components of the baselines observed during mobile sessions from 1984 - 1986 for baselines less than 1500 km in length. The transverse direction for a given baseline is defined by the cross product of the a priori baseline vector from station 1 to station 2 with the a priori geocentric vector to station 2. The transverse component is the adjustment from the a priori baseline vector in the direction perpendicular to the baseline vector and directed toward the horizon at either site, and is defined such that a clockwise rotation seen from above is positive in sign. Since the transverse component is strongly dependent on the orientation of the terrestrial frame, only the results after the beginning of 1984 are given using a VLBI earth orientation series derived from the CDP and IRIS data given in Volume 1 as a priori values. Weighted mean transverse values and weighted rms scatter about the means are also given as well as rates of change of the transverse and scatter about the best-fit lines where usable.

Tables 6.1 - 6.6 present the length information from baselines between fixed stations which were also used during mobile sessions. The tables contain results from all the sessions, both fixed and mobile.

As was indicated in Volume 1, tables of station positions by experiment and correlations between geocentric components are available in machine-readable form through the CDP-DIS.

This report covers much of the data used in Clark et al., Determination of Relative Site Motions in the Western United States Using Mark III Very Long Baseline Interferometry, Journal of Geophysical Research, vol. 92, no. B12, November 10, 1987. Several points should be noted in comparing these two sets of results. Clark et al. include data from 1987 not included here. The source and site positions used by Clark et al. to determine their earth orientation series are derived from 1979 - 1984 CDP and POLARIS data and no adjustment to the nutation model is estimated. The same source positions are used a priori to analyze each mobile experiment separately. This report uses the more recent earth orientation series given in Volume 1, which includes nutation offset estimates, and the source positions are adjusted globally.

Table 1

Mobile VLBI Sites

Site Name	Monument	Location	Lat.	Long.
BLKBUTTE	7269	Black Butte, CA	33°40′	244°17′
DEADMANL	7267	Deadman Lake, CA	34°15′	243°43′
ELY	7286	Ely, NV	39°18′	245°09′
FLAGSTAF	7261	Flagstaff, AZ	35°13′	248°22′
FORT ORD	7266	Sand City, CA	36°40′	238°14′
JPL MV1	7263	Pasadena, CA	34°12′	241°50′
KODIAK	7278	Kodiak, AK	57°44′	207°30′
MAMMOTHL	7259	Mammoth Lakes, CA	37°38′	241°04′
MON PEAK	7274	Monument Peak, CA	32°53′	243°35′
NOME	7279	Nome, AK	64°34′	194°38′
OCOTILLO	7270	Ocotillo, CA	32°47′	244°12′
PBLOSSOM	7254	Pearblossom, CA	34°31′	242°05′
PENTICTN	7283	Penticton, B. C.	49°19′	240°23′
PINFLATS	7256	Pinyon Flats, CA	33°37′	243°33′
PLATTVIL	7258	Platteville, CO	40°11′	255°16′
PRESIDIO	7283	San Francisco, CA	37°48′	237°33′
PT REYES	7251	Point Reyes, CA	38°06′	237°04′
PVERDES	7268	Palo Verdes, CA	33°45′	241°36′
QUINCY	7221	Quincy, CA	39°58′	239°04′
SANPAULA	7255	Santa Paula, CA	34°23′	241°00′
SNDPOINT	7280	Sand Point, AK	55°21′	199°31′
SOURDOGH	7281	Sourdough, AK	63°40′	214°31′
VNDNBERG	7111	Vandenberg AFB, CA	34°34′	239°30′
VERNAL	7290	Vernal, UT	40°20′	250°26′
WHTHORSE	7284	Whitehorse, Yuk. T.	60°43′	224°55′
YAKATAGA	7277	Cape Yakataga, AK	60°05′	217°31′
YELLOWKN	7285	Yellowknife, NWT	62°29′	245°32′
YUMA	7894	Yuma, AZ	32°54′	245°40′

TABLE 2

SUMMARY OF MOBILE VLBI EXPERIMENTS

STATIONS

DATABASE NAME	ALGOPARK	BLKBUTTE	DEADMAN	ELY	FLAGSTAF	FORT ORD	GILCREEK	GOLDVENU	HATCREEK	HAYSTACK	HRAS 085	JPL MV1	KODIAK	MAMMOTHL	MOJAVE12	MON PEAK	NOME	OCOTILLO	ONSALA60	OVRO 130	PBLOSSOM	PENTICTN	PINFLATS	PLATTVIL	PRESIDIO	PT REYES	PVERDES	QUINCY	SANPAULA	SNDPOINT	SOURDOGH	VERNAL	VNDNBERG	WESTFORD	WHTHORSE	YAKATAGA	YELLOWKN	YUMA
82JUN16X	.	.	.	.	.	.	.	+	.	.	.	.	.	.	.	.	.	.	+	+	.	.	.	.	.	.	.	.	.	.	.	.	+	.	.	.	.
82JUN21X	.	.	.	.	.	.	.	+	.	.	+	.	.	.	.	.	.	.	+	+	.	.	.	.	.	.	.	.	.	.	.	.	+	.	.	.	.
82OCT16XA	.	.	.	.	.	.	.	.	.	.	+	+	.	.	.	+	.	.	.	+	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
82OCT17XA	.	.	.	.	.	.	.	.	.	.	+	.	.	.	.	+	.	.	.	+	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
82OCT21XA	.	.	.	.	.	.	.	.	.	.	.	+	.	.	.	.	.	.	.	+	.	.	.	.	.	.	.	+	.	.	.	.	.	.	.	.	.
82OCT23XA	.	.	.	.	.	.	.	+	.	.	+	.	.	.	.	.	.	.	.	+	.	.	.	.	.	.	.	+	.	.	.	.	.	.	.	.	.
83FEB21X	.	.	.	.	.	.	.	.	.	.	.	+	.	.	.	.	.	.	.	+	+	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
83JUN06X	.	.	.	.	.	.	.	.	+	.	+	.	.	.	.	.	.	.	.	+	.	.	.	+	.	.	.	.	.	.	.	.	+	.	.	.	.
83JUN07X	.	.	.	.	.	.	.	.	+	.	.	.	.	.	.	.	.	.	.	+	.	.	.	+	.	.	.	.	.	.	.	.	.	.	.	.	.
83JUN09X	.	.	.	.	.	.	.	.	+	.	+	.	.	.	.	.	.	.	.	.	.	.	.	+	.	.	.	.	.	.	.	.	+	.	.	.	.
83JUN27XA	.	.	.	.	.	.	.	.	+	.	+	.	.	.	+	+	.	.	.	+	.	.	.	.	.	.	.	+	.	.	.	.	.	.	.	.	.
83JUN29X	.	.	.	.	.	.	.	.	+	.	+	+	.	+	+	.	.	.	.	+	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
83AUG22XJ	.	.	.	.	.	.	.	.	.	.	.	+	.	.	+	.	.	.	.	+	+	.	.	.	.	.	.	.	.	.	.	.	+	.	.	.	.
83AUG23X	.	.	.	.	.	.	.	.	.	.	+	.	.	.	+	.	.	.	.	+	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
83AUG25XJ	.	.	.	.	.	+	.	.	.	.	.	.	.	.	+	.	.	.	.	+	.	.	.	.	+	.	.	.	.	.	.	.	+	.	.	.	.
83AUG27X	.	.	.	.	.	.	.	+	.	.	.	.	.	.	+	.	.	.	.	+	.	.	.	.	+	+	.	.	.	.	.	.	+	.	.	.	.
83AUG31X	.	.	.	.	.	.	.	.	.	.	.	.	.	.	+	.	.	.	.	+	.	.	.	.	.	.	.	.	+	.	.	.	+	.	.	.	.
83OCT29X	.	.	.	.	.	.	.	.	.	.	.	+	.	.	+	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
83OCT31X	.	.	.	.	.	.	.	.	.	.	.	+	.	.	+	.	.	.	.	+	.	.	+	.	.	.	.	.	.	.	.	.	+	.	.	.	.
83NOV03X	.	.	.	.	.	.	.	.	.	.	.	.	.	.	+	.	.	.	.	.	.	.	+	.	.	.	.	.	.	.	.	.	+	.	.	.	+
83NOV05X	.	.	.	.	.	.	.	.	.	.	+	.	.	.	+	+	.	.	.	+	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	+
83NOV08X	.	+	.	.	.	.	.	.	.	.	+	.	.	.	+	+	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	+	.	.	.	.
83NOV10X	.	+	.	.	.	.	.	.	.	.	.	.	.	.	+	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	+	.	.	.	.
83NOV12X	.	.	.	.	.	.	.	.	.	.	.	.	.	.	+	.	.	.	.	+	.	.	.	.	.	.	+	.	.	.	.	.	+	.	.	.	.
84JAN07X	.	.	.	.	.	.	.	+	.	.	.	.	.	.	+	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
84JAN14XP	.	.	.	.	.	.	.	+	.	.	.	.	.	.	+	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
84FEB20X	.	.	.	.	.	.	.	.	.	.	.	+	.	.	+	.	.	.	.	+	+	.	.	.	.	.	.	.	.	.	.	.	+	.	.	.	.
84FEB23X	.	.	.	.	.	+	.	.	+	.	.	.	.	.	+	.	.	.	.	+	.	.	.	.	.	.	.	.	.	.	.	.	+	.	.	.	.
84FEB26X	.	.	.	.	.	.	.	.	+	.	.	.	.	.	+	.	.	.	.	+	.	.	.	.	+	+	.	.	.	.	.	.	+	.	.	.	.
84FEB29X	.	.	+	.	.	.	.	.	.	.	.	.	.	.	+	.	.	.	.	.	.	.	.	.	.	.	.	.	+	.	.	.	+	.	.	.	.
84MAR03X	.	+	.	.	.	.	.	.	.	.	.	.	.	.	+	.	.	+	.	.	.	.	.	.	.	.	.	.	.	.	.	.	+	.	.	.	.
84APR09X	.	.	.	.	.	.	.	.	.	.	.	+	.	+	+	.	.	.	.	+	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
84APR12X	.	.	.	.	.	.	.	.	+	.	+	.	.	.	+	+	.	.	.	+	.	.	.	.	.	.	.	+	.	.	.	.	+	.	.	.	.

(CONTINUED)

TABLE 2 (CONT'D)

STATIONS

DATABASE NAME	ALGOPARK	BLKBUTTE	DEADMANL	ELY	FLAGSTAF	FORT ORD	GILCREEK	GOLDVENU	HATCREEK	HAYSTACK	HRAS 085	JPL MV1	KODIAK	MAMMOTHL	MOJAVE12	MON PEAK	NOME	OCOTILLO	ONSALA60	OVRO 130	PBLOSSOM	PENTICTN	PINFLATS	PLATTVIL	PRESIDIO	PT REYES	PVERDES	QUINCY	SANPAULA	SNDPOINT	SOURDOGH	VERNAL	VNDNBERG	WESTFORD	WHTHORSE	YAKATAGA	YELLOWKN	YUMA
84APR17X	.	.	.	.	+	.	.	.	+	.	+	.	.	.	+	.	.	.	.	.	.	.	.	+	.	.	.	.	.	.	.	.	.	.	.	.	.
84APR22X	.	.	.	+	.	.	.	.	.	.	+	.	.	.	+	.	.	.	.	.	.	.	.	+	.	.	.	.	.	.	.	.	.	.	.	.	.
84APR25X	.	.	.	.	.	.	.	.	+	.	+	.	.	.	+	.	.	.	.	.	.	.	.	+	.	.	.	.	.	.	.	.	.	.	.	.	.
84APR26X	.	.	.	.	.	.	.	.	+	+	+	.	.	.	+	.	.	.	.	+	.	.	.	+	.	.	.	.	.	.	.	.	.	.	.	.	.
84JUL14X	.	.	.	.	.	.	+	.	.	.	.	.	.	.	.	.	+	.	.	.	.	.	.	.	.	.	.	.	+	.	.	+	.	.	.	.	.
84JUL23X	.	.	.	.	.	.	+	.	.	.	.	.	+	.	.	.	+	.	.	.	.	.	.	.	.	.	.	.	.	.	.	+	.	.	.	.	.
84JUL31X	.	.	.	.	.	.	+	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	+	+	.	.	.	.	.
84AUG07X	.	.	.	.	.	.	+	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	+	+	.	+	.	.	.
84AUG24X	+	.	.	.	.	.	+	.	.	.	+	.	.	.	.	.	.	.	.	.	.	.	+	.	.	.	.	.	.	.	.	.	.	.	+	.	.
84OCT22X	.	.	.	.	.	.	.	.	.	.	.	+	.	+	+	.	.	.	.	+	.	.	.	.	.	.	.	.	.	.	.	.	+	.	.	+	.
84OCT25X	.	.	.	.	.	.	.	.	.	.	.	+	.	.	+	.	.	.	.	+	+	.	.	.	.	.	.	.	.	.	.	.	+	.	.	.	.
84OCT28X	.	.	.	.	.	.	.	.	.	.	.	.	.	.	+	.	.	.	.	+	.	.	.	+	.	.	.	.	.	.	.	.	+	.	.	.	.
84OCT31X	.	.	.	.	.	.	.	.	.	.	.	.	.	.	+	.	.	.	.	.	.	.	.	+	.	.	.	.	.	.	.	.	+	.	.	.	+
85JAN09X	.	.	+	.	.	.	.	.	.	.	.	.	.	.	+	.	.	.	.	.	.	.	.	.	.	.	.	.	+	.	.	.	+	.	.	.	.
85JAN12X	.	+	.	.	.	.	.	.	.	.	.	.	.	.	+	+	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	+	.	.	.	.
85JAN15X	.	+	.	.	.	.	.	.	.	.	.	.	.	.	+	.	.	+	.	.	.	.	.	.	.	.	.	.	.	.	.	.	+	.	.	.	.
85JAN18X	.	.	.	.	.	.	.	.	.	.	.	+	.	.	+	.	.	.	.	.	.	.	.	+	.	.	.	.	.	.	.	.	+	.	.	.	.
85MAR01X	.	.	.	.	.	.	.	.	+	.	+	.	.	.	+	+	.	.	.	+	.	.	.	.	.	.	.	.	.	.	.	.	+	.	.	.	+
85MAR04X	.	.	.	.	.	.	.	.	.	.	.	.	.	.	+	.	.	+	.	+	.	.	.	.	.	.	+	.	.	.	.	.	+	.	.	.	.
85MAR07X	.	.	.	.	.	.	.	.	.	.	.	+	.	.	+	.	.	.	.	+	+	.	.	.	.	.	.	.	.	.	.	.	+	.	.	.	.
85MAR10X	.	.	.	.	.	+	.	.	+	.	+	.	.	.	+	.	.	.	.	+	.	.	.	.	+	.	.	.	.	.	.	.	+	.	.	.	.
85MAR13XR	.	.	.	.	.	.	.	.	.	.	+	.	.	.	+	.	.	.	.	+	.	.	.	.	+	+	.	.	.	.	.	.	+	.	.	.	.
85MAY02X	.	.	.	.	+	.	.	.	+	.	+	.	.	.	+	.	.	.	.	.	.	.	.	+	.	.	.	.	.	.	.	.	.	.	.	.	.
85MAY06X	.	.	.	+	.	.	.	.	+	.	+	.	.	.	+	.	.	.	.	.	.	.	.	+	.	.	.	.	.	.	.	.	.	.	.	.	.
85MAY07XA	.	.	.	.	.	.	+	.	+	.	+	.	.	.	+	.	.	.	.	+	.	.	.	+	.	.	.	.	.	.	.	.	.	+	.	.	.
85MAY12X	.	.	.	.	.	.	.	.	+	.	+	.	.	.	+	+	.	.	.	+	.	.	.	.	.	.	.	.	+	.	.	.	+	.	.	.	.
85MAY14X	.	.	.	.	.	.	.	.	.	.	+	.	.	.	+	+	.	.	.	+	.	.	.	.	.	.	.	.	+	.	.	.	.	.	.	.	.
85JUL18X	.	.	.	.	.	.	+	.	.	.	.	.	+	.	.	.	+	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	+	.	.	.	.
85JUL25X	.	.	.	.	.	.	+	.	.	.	.	.	.	.	.	.	+	.	.	.	.	.	.	.	.	.	.	.	.	+	.	.	+	.	.	.	.
85AUG05X	.	.	.	.	.	.	+	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	+	+	.	+	.	.	.
85AUG12X	.	.	.	.	.	.	+	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	+	+	.	.	.	.	.
85AUG28X	+	.	.	.	.	.	.	.	.	.	+	.	.	.	.	.	.	.	.	.	.	.	+	.	.	.	.	.	.	.	.	.	.	.	.	.	.
85SEP04X	+	.	.	.	.	.	+	.	.	.	+	.	.	.	.	.	.	.	.	.	.	.	+	.	.	.	.	.	.	.	.	.	.	.	.	+	.
85OCT19X	.	.	.	.	.	.	.	.	+	.	+	.	.	.	+	.	.	.	.	+	.	.	.	.	+	+	.	.	.	.	.	.	+	.	.	.	.
85OCT23X	.	.	.	.	.	+	.	.	+	.	+	.	.	.	+	.	.	.	.	+	.	.	.	.	+	.	.	.	.	.	.	.	+	.	.	.	.

TABLE 2 (CONT'D)

STATIONS

DATABASE NAME	ALGOPARK	BLKBUTTE	DEADMANL	ELY	FLAGSTAF	FORT ORD	GILCREEK	GOLDVENU	HATCREEK	HAYSTACK	HRAS 085	JPL MV1	KODIAK	MAMMOTHL	MOJAVE12	MON PEAK	NOME	OCOTILLO	ONSALA60	OVRO 130	PBLOSSOM	PENTICTN	PINFLATS	PLATTVIL	PRESIDIO	PT REYES	PVERDES	QUINCY	SANPAULA	SNDPOINT	SOURDOGH	VERNAL	VNDNBERG	WESTFORD	WHTHORSE	YAKATAGA	YELLOWKN	YUMA
85OCT27X	.	.	.	.	.	.	.	.	.	.	.	+	.	.	+	.	.	.	.	+	+	.	.	.	.	.	.	.	.	.	.	+	.	.	.	.	.
85OCT30X	.	.	.	.	.	.	.	.	.	.	.	+	.	.	+	.	.	.	.	+	.	.	+	.	.	.	.	.	.	.	.	+	.	.	.	.	.
85NOV02X	.	.	.	.	.	.	.	.	.	.	+	.	.	.	+	.	.	.	.	.	.	.	+	.	.	.	.	.	.	.	.	+	.	.	.	.	+
85NOV05X	.	.	.	.	.	.	.	.	.	.	+	.	.	.	+	+	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	+	.	.	.	.	+
85DEC12X	.	.	.	.	.	.	.	.	+	.	+	.	.	.	+	+	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	+	.	.	.	.	.
86JAN05X	.	.	.	.	.	.	.	.	.	.	+	.	.	.	+	+	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
86FEB23X	.	.	.	.	.	.	.	.	.	.	+	.	.	.	+	+	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
86FEB26X	.	.	.	.	.	.	.	.	.	.	+	.	.	.	+	.	.	.	.	.	.	.	+	.	.	.	.	.	.	.	.	.	.	.	.	.	.
86MAR26X	.	.	.	.	+	.	.	.	+	.	+	.	.	.	+	.	.	.	.	.	.	.	.	+	.	.	.	.	.	.	.	.	.	.	.	.	.
86MAR30X	.	.	.	.	.	.	.	.	+	.	+	.	.	.	+	.	.	.	.	.	.	.	.	+	.	.	.	.	.	.	.	+	.	.	.	.	.
86APR01X	.	.	.	.	.	.	+	.	+	.	+	.	.	.	+	.	.	.	.	+	.	.	.	+	.	.	.	.	.	.	.	.	+	.	.	.	.
86APR02X	.	.	.	+	.	.	.	.	+	.	+	.	.	.	+	.	.	.	.	+	.	.	.	+	.	.	.	.	.	.	.	.	.	.	.	.	.
86APR07X	.	.	.	.	.	.	.	.	+	.	+	.	.	.	+	+	.	.	.	+	.	.	.	.	.	.	.	.	.	.	.	+	.	.	.	.	.
86APR10X	.	.	.	.	.	.	.	.	.	.	+	.	.	.	+	.	.	.	.	+	.	.	+	.	.	.	.	.	.	.	.	+	.	.	.	.	+
86APR13X	.	.	.	.	.	.	.	.	.	.	.	+	.	.	+	.	.	.	.	+	.	.	+	.	.	.	.	.	.	.	.	+	.	.	.	.	.
86MAY18X	.	+	.	.	.	.	.	.	.	.	+	.	.	.	+	+	.	.	.	+	.	.	.	.	.	.	.	.	.	.	.	+	.	.	.	.	.
86MAY21X	.	.	.	.	.	.	.	.	+	.	+	.	.	.	+	+	.	.	.	+	.	.	.	.	.	.	.	.	.	.	.	+	.	.	.	.	+
86JUL22X	.	.	.	.	.	.	+	.	.	.	.	.	+	.	.	.	+	.	.	.	.	.	.	.	.	.	.	.	.	.	.	+	.	.	.	.	.
86JUL24X	.	.	.	.	.	.	+	.	.	.	.	.	+	.	.	.	+	.	.	.	.	.	.	.	.	.	.	.	.	.	.	+	.	.	.	.	.
86JUL31X	.	.	.	.	.	.	+	.	.	.	.	.	.	.	.	.	+	.	.	.	.	.	.	.	.	.	.	.	.	+	.	+	.	.	.	.	.
86AUG11X	.	.	.	.	.	.	+	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	+	+	.	.	+	.	.
86AUG13X	.	.	.	.	.	.	+	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	+	+	.	.	+	.	.
86AUG18X	.	.	.	.	.	.	+	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	+	+	.	.	.	.	.
86AUG20X	.	.	.	.	.	.	+	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	+	+	.	.	.	.	.
86OCT19X	.	.	.	.	.	.	.	.	+	.	+	.	.	.	+	+	.	.	.	+	.	.	.	.	.	.	.	+	.	.	.	+	.	.	.	.	.
86OCT22X	.	.	.	.	.	.	.	.	.	.	.	+	.	+	+	.	.	.	.	+	.	.	.	.	.	.	.	.	.	.	.	+	.	.	.	.	.
86OCT26X	.	+	.	.	.	.	.	.	.	.	+	.	.	.	+	+	.	.	.	+	.	.	.	.	.	.	.	.	.	.	.	+	.	.	.	.	.
86OCT29X	.	.	.	.	.	.	.	.	+	.	+	.	.	.	+	+	.	.	.	+	.	.	.	.	.	.	.	.	.	.	.	+	.	.	.	.	+
86NOV01X	.	.	.	.	.	.	.	.	.	.	+	.	.	.	+	.	.	.	.	+	.	.	+	.	.	.	.	.	.	.	.	+	.	.	.	.	+
86NOV04X	.	.	.	.	.	.	.	.	.	.	.	+	.	.	+	.	.	.	.	+	.	.	+	.	.	.	.	.	.	.	.	+	.	.	.	.	.
86DEC10X	.	.	.	.	.	.	.	.	+	.	+	.	.	.	+	+	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	+	.	.	.	.	+
86DEC13X	.	.	.	.	.	.	.	.	.	.	+	.	.	.	+	.	.	.	.	.	.	.	+	.	.	.	.	.	.	.	.	+	.	.	.	.	+
86DEC16X	.	.	.	.	.	.	.	.	.	.	.	+	.	.	+	.	.	.	.	.	.	.	+	.	.	.	.	.	.	.	.	+	.	.	.	.	.

Table 3

Source Coordinates from GLB171 Solution

Source Name	Right Ascension h	m	s	sigma s	Declination °	′	″	sigma ″
0106+013	1	8	38.77108	.00001	1	35	.3195	.0003
0212+735	2	17	30.81371	.00005	73	49	32.6222	.0003
4C67.05	2	28	50.05178	.00004	67	21	3.0299	.0003
0229+131	2	31	45.89410	.00001	13	22	54.7176	.0003
0234+285	2	37	52.40575	.00001	28	48	8.9906	.0003
0235+164	2	38	38.93014	.00001	16	36	59.2758	.0004
0300+470	3	3	35.24234	.00002	47	16	16.2764	.0003
3C84	3	19	48.16019	.00002	41	30	42.1023	.0003
NRAO150	3	59	29.74740	.00002	50	57	50.1616	.0002
0420-014	4	23	15.80073	.00001	-1	20	33.0642	.0003
3C120	4	33	11.09557	.00002	5	21	15.6167	.0007
0454-234	4	57	3.17926	.00003	-23	24	52.0188	.0005
0528+134	5	30	56.41678	.00001	13	31	55.1490	.0002
0552+398	5	55	30.80567	.00002	39	48	49.1642	.0002
0727-115	7	30	19.11250	.00001	-11	41	12.6007	.0003
0742+103	7	45	33.05953	.00010	10	11	12.6882	.0028
OJ287	8	54	48.87491	.00001	20	6	30.6396	.0002
4C39.25	9	27	3.01384	.00001	39	2	20.8506	.0002
OK290	9	56	49.87540	.00002	25	15	16.0475	.0008
1034-293	10	37	16.07990	.00004	-29	34	2.8108	.0006
1127-145	11	30	7.05230	.00196	-14	49	27.3844	.0245
1144+402	11	46	58.29782	.00001	39	58	34.3042	.0003
1219+285	12	21	31.69049	.00002	28	13	58.4992	.0008
3C273B	12	29	6.6997	*	2	3	8.5988	.0003
3C279	12	56	11.16650	.00002	-5	47	21.5245	.0006
1308+326	13	10	28.66378	.00001	32	20	43.7828	.0003
1354+195	13	57	4.43659	.00001	19	19	7.3726	.0003
OQ208	14	7	.39432	.00001	28	27	14.6900	.0003
1418+546	14	19	46.59719	.00003	54	23	14.7874	.0003
1502+106	15	4	24.97974	.00001	10	29	39.2005	.0003
1510-089	15	12	50.52619	.00261	-9	5	59.8302	.0117
1548+056	15	50	35.26920	.00001	5	27	10.4508	.0003
CTD93	16	9	13.32023	.00034	26	41	28.9579	.0092
1633+38	16	35	15.49283	.00004	38	8	4.5025	.0006
1637+574	16	38	13.45614	.00003	57	20	23.9807	.0003
1642+690	16	42	7.84825	.00005	68	56	39.7577	.0002
3C345	16	42	58.80985	.00001	39	48	36.9954	.0002
NRAO530	17	33	2.70576	.00001	-13	4	49.5448	.0003
1741-038	17	43	58.85614	.00001	-3	50	4.6128	.0003
1749+701	17	48	32.84029	.00020	70	5	50.7677	.0007
1749+096	17	51	32.81853	.00001	9	39	.7317	.0003
1803+784	18	0	45.68347	.00009	78	28	4.0198	.0002
3C390.3	18	42	8.98963	.00043	79	46	17.1282	.0009
1921-293	19	24	51.05591	.00002	-29	14	30.1170	.0004
1923+210	19	25	59.60535	.00002	21	6	26.1623	.0009

1928+738	19	27	48.49472	.00015	73	58	1.5726	.0009
3C418	20	38	37.03477	.00003	51	19	12.6655	.0003
2134+00	21	36	38.58632	.00001	0	41	54.2168	.0003
2145+067	21	48	5.45867	.00001	6	57	38.6071	.0003
VR422201	22	2	43.29139	.00002	42	16	39.9824	.0002
2201+315	22	3	14.97580	.00004	31	45	38.2735	.0008
2216-038	22	18	52.03773	.00001	-3	35	36.8759	.0003
2234+282	22	36	22.47090	.00001	28	28	57.4159	.0003
3C454.3	22	53	57.74796	.00001	16	8	53.5635	.0003
2345-167	23	48	2.60848	.00002	-16	31	12.0184	.0004

* The right ascension origin of the CDP celestial reference frame is fixed by the adopted value of 3C273B given above.

TABLE 4.1
VLBI BASELINE LENGTH EVOLUTION
ALGOPARK TO PENTICTN(7283)

DATE	LENGTH (cm)	FORMAL ERR	# OBSERVATIONS WEIGHTED	TOTAL
84 8 24	307423463.9	1.8	107	167
85 8 28	307423463.3	2.6	47	56
85 9 4	307423467.8	.6	160	184

LENGTH:
Mean = 307423467.2 ± 1.0 cm (scaled 1 sigma)
Weighted RMS scatter about the mean = 1.4 cm

TABLE 4.2
VLBI BASELINE LENGTH EVOLUTION
ALGOPARK TO YELLOWKN(7285)

DATE	LENGTH (cm)	FORMAL ERR	# OBSERVATIONS WEIGHTED	TOTAL
84 8 24	291229600.0	1.2	132	172
85 9 4	291229604.0	.9	164	180

LENGTH:
Mean = 291229602.4 ± 2.0 cm (scaled 1 sigma)
Weighted RMS scatter about the mean = 2.0 cm

TABLE 4.3
VLBI BASELINE LENGTH EVOLUTION
BLKBUTTE(7269) TO HRAS 085

DATE	LENGTH (cm)	FORMAL ERR	# OBSERVATIONS WEIGHTED	TOTAL
83 11 8	115801811.7	1.8	41	56
86 5 18	115801814.3	.3	70	72
86 10 26	115801813.0	.3		

LENGTH:
Mean = 115801813.6 ± .5 cm (scaled 1 sigma)
Weighted RMS scatter about the mean = .7 cm
Slope = -.3 ± 1.1 cm/yr (scaled 1 sigma)
Weighted RMS scatter about the line = .7 cm

TABLE 4.4
VLBI BASELINE LENGTH EVOLUTION
BLKBUTTE(7269) TO MOJAVE12

DATE	LENGTH (cm)	FORMAL ERR	# OBSERVATIONS WEIGHTED	TOTAL
83 11 8	21386883.0	2.3	39	55
83 11 10	21386882.7	2.0	47	60
84 3 3	21386884.5	.9	90	92
85 1 12	21386884.9	.9	79	96
85 1 15	21386883.4	.7	82	93
86 5 18	21386884.8	.3	83	84
86 10 26	21386885.0	.3	100	100

LENGTH:
Mean = 21386884.8 ± .2 cm (scaled 1 sigma)
Weighted RMS scatter about the mean = .5 cm
Slope = .5 ± .2 cm/yr (scaled 1 sigma)
Weighted RMS scatter about the line = .3 cm

TABLE 4.5
VLBI BASELINE LENGTH EVOLUTION
BLKBUTTE(7269) TO MON PEAK(7274)

DATE	LENGTH (cm)	FORMAL ERR	# OBSERVATIONS WEIGHTED	TOTAL
83 11 8	10782185.1	1.4	12	59
85 1 12	10782183.0	1.6	8	55
86 5 18	10782185.4	.4		
86 10 26	10782184.0	.4		

LENGTH:
Mean = 10782184.7 ± .4 cm (scaled 1 sigma)
Weighted RMS scatter about the mean = .7 cm
Slope = -.3 ± .6 cm/yr (scaled 1 sigma)
Weighted RMS scatter about the line = .7 cm

TABLE 4.6
VLBI BASELINE LENGTH EVOLUTION
BLKBUTTE(7269) TO OCOTILLO(7270)

DATE	LENGTH (cm)	FORMAL ERR	# OBSERVATIONS WEIGHTED	TOTAL
84 3 3	9716017.2	2.4	11	41
85 1 15	9716022.6	.9	16	91

LENGTH:
Mean = 9716021.9 ± 1.8 cm (scaled 1 sigma)
Weighted RMS scatter about the mean = 1.8 cm

TABLE 4.7
VLBI BASELINE LENGTH EVOLUTION
BLKBUTTE(7269) TO OVRO 130

DATE	LENGTH (cm)	FORMAL ERR	# OBSERVATIONS WEIGHTED	TOTAL
86 5 18	45906751.5	.3	37	40
86 10 26	45906751.9	.3	49	51

LENGTH:
Mean = 45906751.7 ± .2 cm (scaled 1 sigma)
Weighted RMS scatter about the mean = .2 cm

TABLE 4.8
VLBI BASELINE LENGTH EVOLUTION
BLKBUTTE(7269) TO VNDNBERG(7111)

DATE	LENGTH (cm)	FORMAL ERR	# OBSERVATIONS WEIGHTED	TOTAL
83 11 8	46236756.6	1.9	10	54
83 11 10	46236760.2	1.8	12	63
84 3 3	46236765.5	2.4	2	84
85 1 12	46236762.2	.7	48	83
85 1 15	46236761.0	.6	71	91
86 5 18	46236766.7	.3	79	83
86 10 26	46236767.0	.3	94	97

LENGTH:
Mean = 46236765.8 ± .9 cm (scaled 1 sigma)
Weighted RMS scatter about the mean = 2.2 cm
Slope = 3.0 ± .5 cm/yr (scaled 1 sigma)
Weighted RMS scatter about the line = .8 cm

TABLE 4.9
VLBI BASELINE LENGTH EVOLUTION
DEADMANL(7267) TO MOJAVE12

DATE	LENGTH (cm)	FORMAL ERR	# OBSERVATIONS WEIGHTED	TOTAL
84 2 29	13180679.1	2.5	65	79
85 1 9	13180680.6	1.7	42	94

LENGTH:
Mean = 13180680.1 ± .7 cm (scaled 1 sigma)
Weighted RMS scatter about the mean = .7 cm

TABLE 4.10
VLBI BASELINE LENGTH EVOLUTION
DEADMANL(7267) TO SANPAULA(7255)

DATE	LENGTH (cm)	FORMAL ERR	# OBSERVATIONS WEIGHTED	TOTAL
84 2 29	25075870.6	2.4		
85 1 9	25075875.8	1.2	3	78

LENGTH:
Mean = 25075874.8 ± 2.1 cm (scaled 1 sigma)
Weighted RMS scatter about the mean = 2.1 cm

TABLE 4.11
VLBI BASELINE LENGTH EVOLUTION
DEADMANL(7267) TO VNDNBERG(7111)

DATE	LENGTH (cm)	FORMAL ERR	# OBSERVATIONS WEIGHTED	TOTAL
84 2 29	40013417.5	2.4	7	81
85 1 9	40013414.6	1.2	16	81

LENGTH:
Mean = 40013415.2 ± 1.1 cm (scaled 1 sigma)
Weighted RMS scatter about the mean = 1.1 cm

TABLE 4.12
VLBI BASELINE LENGTH EVOLUTION
ELY(7286) TO HATCREEK

DATE	LENGTH (cm)	FORMAL ERR	# OBSERVATIONS WEIGHTED	TOTAL
85 5 6	59002582.9	.4	57	63
86 4 2	59002583.4	.3	54	57

LENGTH:
Mean = 59002583.2 ± .3 cm (scaled 1 sigma)
Weighted RMS scatter about the mean = .3 cm

TABLE 4.13
VLBI BASELINE LENGTH EVOLUTION
ELY(7286) TO HRAS 085

DATE	LENGTH (cm)	FORMAL ERR	# OBSERVATIONS WEIGHTED	TOTAL
84 4 22	137854706.4	1.0	57	78
85 5 6	137854708.9	.6	73	77
86 4 2	137854707.8	.4	56	63

LENGTH:
Mean = 137854708.0 ± .5 cm (scaled 1 sigma)
Weighted RMS scatter about the mean = .7 cm
Slope = .2 ± .8 cm/yr (scaled 1 sigma)
Weighted RMS scatter about the line = .7 cm

TABLE 4.14
VLBI BASELINE LENGTH EVOLUTION
ELY(7286) TO MOJAVE12

DATE	LENGTH (cm)	FORMAL ERR	# OBSERVATIONS WEIGHTED	TOTAL
84 4 22	47551726.5	.7	69	76
85 5 6	47551726.0	.5	74	76
86 4 2	47551724.5	.5	48	57

LENGTH:
Mean = 47551725.5 ± .6 cm (scaled 1 sigma)
Weighted RMS scatter about the mean = .9 cm
Slope = -1.1 ± .3 cm/yr (scaled 1 sigma)
Weighted RMS scatter about the line = .3 cm

TABLE 4.15
VLBI BASELINE LENGTH EVOLUTION
ELY(7286) TO OVRO 130

DATE	LENGTH (cm)	FORMAL ERR	# OBSERVATIONS WEIGHTED	TOTAL
86 4 2	37814055.6	.3	44	54

TABLE 4.16
VLBI BASELINE LENGTH EVOLUTION
FLAGSTAF(7261) TO HATCREEK

DATE	LENGTH (cm)	FORMAL ERR	# OBSERVATIONS WEIGHTED	TOTAL
84 4 17	106220933.2	1.7	30	59
85 5 2	106220937.5	.4	89	94
86 3 26	106220938.6	.4	53	59

LENGTH:
Mean = 106220938.0 ± .7 cm (scaled 1 sigma)
Weighted RMS scatter about the mean = 1.0 cm
Slope = 1.7 ± .6 cm/yr (scaled 1 sigma)
Weighted RMS scatter about the line = .4 cm

TABLE 4.17
VLBI BASELINE LENGTH EVOLUTION
FLAGSTAF(7261) TO HRAS 085

DATE	LENGTH (cm)	FORMAL ERR	# OBSERVATIONS WEIGHTED	TOTAL
84 4 17	87928307.6	1.5	19	62
85 5 2	87928310.1	.4	90	97
86 3 26	87928310.8	.3	60	60

LENGTH:
Mean = 87928310.4 ± .4 cm (scaled 1 sigma)
Weighted RMS scatter about the mean = .6 cm
Slope = 1.0 ± .3 cm/yr (scaled 1 sigma)
Weighted RMS scatter about the line = .2 cm

TABLE 4.18
VLBI BASELINE LENGTH EVOLUTION
FLAGSTAF(7261) TO MOJAVE12

DATE	LENGTH (cm)	FORMAL ERR	# OBSERVATIONS WEIGHTED	TOTAL
84 4 17	47805016.7	1.3	34	65
85 5 2	47805018.3	.3	86	92
86 3 26	47805018.4	.3	45	47

LENGTH:
Mean = 47805018.3 ± .2 cm (scaled 1 sigma)
Weighted RMS scatter about the mean = .3 cm
Slope = .3 ± .3 cm/yr (scaled 1 sigma)
Weighted RMS scatter about the line = .2 cm

TABLE 4.19
VLBI BASELINE LENGTH EVOLUTION
FORT ORD TO HATCREEK

DATE	LENGTH (cm)	FORMAL ERR	# OBSERVATIONS WEIGHTED	TOTAL
84 2 23	46111134.6	1.0	34	42
85 3 10	46111129.3	.4	42	47
85 10 23	46111128.4	.7	59	66

LENGTH:
Mean = 46111129.6 ± 1.2 cm (scaled 1 sigma)
Weighted RMS scatter about the mean = 1.8 cm
Slope = -3.5 ± 1.1 cm/yr (scaled 1 sigma)
Weighted RMS scatter about the line = .7 cm

TABLE 4.20
VLBI BASELINE LENGTH EVOLUTION
FORT ORD TO HRAS 085

DATE	LENGTH (cm)	FORMAL ERR	# OBSERVATIONS WEIGHTED	TOTAL
85 3 10	177467561.5	.4	52	56
85 10 23	177467566.3	.7	56	65

LENGTH:
Mean = 177467562.4 ± 1.8 cm (scaled 1 sigma)
Weighted RMS scatter about the mean = 1.8 cm

TABLE 4.21
VLBI BASELINE LENGTH EVOLUTION
FORT ORD TO MOJAVE12

DATE	LENGTH (cm)	FORMAL ERR	# OBSERVATIONS WEIGHTED	TOTAL
83 8 25	46471953.7	.7	49	75
84 2 23	46471953.0	.9	40	49
85 3 10	46471957.1	.3	59	75
85 10 23	46471959.7	.5	92	99

LENGTH:
Mean = 46471957.0 ± 1.2 cm (scaled 1 sigma)
Weighted RMS scatter about the mean = 2.0 cm
Slope = 2.9 ± .5 cm/yr (scaled 1 sigma)
Weighted RMS scatter about the line = .6 cm

TABLE 4.22
VLBI BASELINE LENGTH EVOLUTION
FORT ORD TO OVRO 130

DATE	LENGTH (cm)	FORMAL ERR	# OBSERVATIONS WEIGHTED	TOTAL
83 8 25	31706728.5	.4	60	62
84 2 23	31706729.6	1.1		
85 3 10	31706730.2	.3	36	38
85 10 23	31706731.5	.5		

LENGTH:
Mean = 31706729.9 ± .6 cm (scaled 1 sigma)
Weighted RMS scatter about the mean = 1.0 cm
Slope = 1.2 ± .2 cm/yr (scaled 1 sigma)
Weighted RMS scatter about the line = .2 cm

TABLE 4.23
VLBI BASELINE LENGTH EVOLUTION
FORT ORD TO PRESIDIO(7283)

DATE	LENGTH (cm)	FORMAL ERR	# OBSERVATIONS WEIGHTED	TOTAL
83 8 25	13978742.7	1.0	13	73
85 3 10	13978745.0	1.1		
85 10 23	13978741.0	.7		

LENGTH:
Mean = 13978742.3 ± 1.1 cm (scaled 1 sigma)
Weighted RMS scatter about the mean = 1.6 cm
Slope = -.8 ± 1.1 cm/yr (scaled 1 sigma)
Weighted RMS scatter about the line = 1.4 cm

TABLE 4.24
VLBI BASELINE LENGTH EVOLUTION
FORT ORD TO VNDNBERG(7111)

DATE	LENGTH (cm)	FORMAL ERR	# OBSERVATIONS WEIGHTED	TOTAL
83 8 25	25685242.4	.7	41	76
84 2 23	25685242.2	1.1	6	33
85 3 10	25685242.9	.5	64	73
85 10 23	25685243.8	.8		

LENGTH:
Mean = 25685242.9 ± .3 cm (scaled 1 sigma)
Weighted RMS scatter about the mean = .5 cm
Slope = .6 ± .2 cm/yr (scaled 1 sigma)
Weighted RMS scatter about the line = .2 cm

TABLE 4.25
VLBI BASELINE LENGTH EVOLUTION
GILCREEK TO KODIAK(7278)

DATE	LENGTH (cm)	FORMAL ERR	# OBSERVATIONS WEIGHTED	TOTAL
84 7 23	84855360.3	1.1	108	256
85 7 18	84855361.4	.9	136	143
86 7 22	84855361.1	.6	144	147
86 7 24	84855359.9	.7	122	124

LENGTH:
Mean = 84855360.7 ± .4 cm (scaled 1 sigma)
Weighted RMS scatter about the mean = .6 cm
Slope = -.1 ± .5 cm/yr (scaled 1 sigma)
Weighted RMS scatter about the line = .6 cm

TABLE 4.26
VLBI BASELINE LENGTH EVOLUTION
GILCREEK TO NOME(7279)

DATE	LENGTH (cm)	FORMAL ERR	# OBSERVATIONS WEIGHTED	TOTAL
84 7 14	84826383.7	.4	225	254
84 7 23	84826384.2	.4	211	228
85 7 18	84826385.4	.8	145	160
85 7 25	84826384.4	.5	126	176
86 7 22	84826385.3	.6	95	116
86 7 24	84826384.7	.5	110	128
86 7 31	84826383.6	.4	166	172

LENGTH:
Mean = 84826384.2 ± .2 cm (scaled 1 sigma)
Weighted RMS scatter about the mean = .6 cm
Slope = .2 ± .2 cm/yr (scaled 1 sigma)
Weighted RMS scatter about the line = .6 cm

TABLE 4.27
VLBI BASELINE LENGTH EVOLUTION
GILCREEK TO PENTICTN(7283)

DATE	LENGTH (cm)	FORMAL ERR	# OBSERVATIONS WEIGHTED	TOTAL
84 8 24	237417571.5	1.7	125	166
85 9 4	237417572.6	.7	167	190

LENGTH:
Mean = 237417572.4 ± .4 cm (scaled 1 sigma)
Weighted RMS scatter about the mean = .4 cm

TABLE 4.28
VLBI BASELINE LENGTH EVOLUTION
GILCREEK TO PLATTVIL(7258)

DATE	LENGTH (cm)	FORMAL ERR	# OBSERVATIONS WEIGHTED	TOTAL
85 5 7	381042431.8	.8	61	73
86 4 1	381042435.1	.8	66	71

LENGTH:
Mean = 381042433.4 ± 1.6 cm (scaled 1 sigma)
Weighted RMS scatter about the mean = 1.6 cm

TABLE 4.29
VLBI BASELINE LENGTH EVOLUTION
GILCREEK TO SNDPOINT(7280)

DATE	LENGTH (cm)	FORMAL ERR	# OBSERVATIONS WEIGHTED	TOTAL
84 7 14	128447779.5	1.8	49	88
85 7 25	128447781.5	.7	143	161
86 7 31	128447781.6	.7	157	165

LENGTH:
Mean = 128447781.4 ± .4 cm (scaled 1 sigma)
Weighted RMS scatter about the mean = .5 cm
Slope = .6 ± .4 cm/yr (scaled 1 sigma)
Weighted RMS scatter about the line = .4 cm

TABLE 4.30
VLBI BASELINE LENGTH EVOLUTION
GILCREEK TO SOURDOGH(7281)

DATE	LENGTH (cm)	FORMAL ERR	# OBSERVATIONS WEIGHTED	TOTAL
84 7 31	27637819.5	.4	200	222
84 8 7	27637818.6	.9	233	261
85 8 5	27637818.6	.4	175	191
85 8 12	27637818.7	.3	166	186
86 8 11	27637818.7	.4	134	145
86 8 13	27637818.9	.4	130	137
86 8 18	27637818.7	.3	146	147
86 8 20	27637819.3	.3	133	140

LENGTH:
Mean = 27637818.9 ± .1 cm (scaled 1 sigma)
Weighted RMS scatter about the mean = .3 cm
Slope = -.1 ± .2 cm/yr (scaled 1 sigma)
Weighted RMS scatter about the line = .3 cm

TABLE 4.31
VLBI BASELINE LENGTH EVOLUTION
GILCREEK TO VNDNBERG(7111)

DATE	LENGTH (cm)	FORMAL ERR	# OBSERVATIONS WEIGHTED	TOTAL
84 7 7	377584970.5	1.2	81	141
84 7 14	377584975.0	3.2	31	53
84 7 21	377584973.3	1.1	104	123
84 7 22	377584971.2	.8	114	128
84 7 23	377584976.3	1.0	108	138
84 7 31	377584967.9	1.9	99	123
84 8 7	377584979.9	2.3	131	144
85 5 15	377584966.5	.6	103	110
85 7 6	377584963.6	.8	177	192
85 7 18	377584966.5	2.0	30	72
85 7 20	377584967.3	.6	116	124
85 7 25	377584963.5	1.1	155	169
85 7 27	377584965.5	.8	141	181
85 8 5	377584962.7	1.1	166	178
85 8 10	377584968.0	.6	118	130
85 8 12	377584967.0	1.2	171	186
85 9 30	377584965.0	.4	125	135
86 7 5	377584961.4	.6	206	210
86 7 12	377584959.7	.6	158	172
86 7 22	377584960.0	.9	130	143
86 7 24	377584959.3	.9	127	134
86 7 26	377584960.9	.4	219	243
86 7 31	377584962.6	.7	184	194
86 8 2	377584962.1	.4	161	192
86 8 11	377584964.0	1.0	93	115
86 8 13	377584961.8	1.0	134	137
86 8 18	377584960.2	.9	136	143
86 8 20	377584960.3	.9	116	132
86 10 23	377584961.3	.5	108	111

LENGTH:

Mean = 377584963.8 $\pm$ .7 cm (scaled 1 sigma)
Weighted RMS scatter about the mean = 3.8 cm
Slope = -5.1 $\pm$ .4 cm/yr (scaled 1 sigma)
Weighted RMS scatter about the line = 1.6 cm

TABLE 4.32
VLBI BASELINE LENGTH EVOLUTION
GILCREEK TO WHTHORSE(7284)

DATE	LENGTH (cm)	FORMAL ERR	# OBSERVATIONS WEIGHTED	TOTAL
84 8 7	78886990.7	1.6	94	227
86 8 18	78886989.8	.5	138	140
86 8 20	78886989.9	.5	116	126

LENGTH:
Mean = 78886989.9 ± .1 cm (scaled 1 sigma)
Weighted RMS scatter about the mean = .2 cm

TABLE 4.33
VLBI BASELINE LENGTH EVOLUTION
GILCREEK TO YAKATAGA(7277)

DATE	LENGTH (cm)	FORMAL ERR	# OBSERVATIONS WEIGHTED	TOTAL
84 7 31	60304905.7	.7	153	211
85 8 5	60304901.6	.6	185	193
86 8 11	60304899.4	.6	143	148
86 8 13	60304896.5	.7	104	117

LENGTH:
Mean = 60304900.8 ± 1.7 cm (scaled 1 sigma)
Weighted RMS scatter about the mean = 3.0 cm
Slope = -3.6 ± .7 cm/yr (scaled 1 sigma)
Weighted RMS scatter about the line = 1.0 cm

TABLE 4.34
VLBI BASELINE LENGTH EVOLUTION
GILCREEK TO YELLOWKN(7285)

DATE	LENGTH (cm)	FORMAL ERR	# OBSERVATIONS WEIGHTED	TOTAL
84 8 24	163119364.8	.8	151	170
85 9 4	163119366.2	.6	172	185

LENGTH:
Mean = 163119365.6 ± .7 cm (scaled 1 sigma)
Weighted RMS scatter about the mean = .7 cm

TABLE 4.35
VLBI BASELINE LENGTH EVOLUTION
GOLDVENU TO HRAS 085

DATE	LENGTH (cm)	FORMAL ERR	# OBSERVATIONS WEIGHTED	TOTAL
82 6 21	130237395.0	.8	45	87
82 10 23	130237395.1	.5	86	94

LENGTH:
Mean = 130237395.1 ± .0 cm (scaled 1 sigma)
Weighted RMS scatter about the mean = .0 cm

TABLE 4.36
VLBI BASELINE LENGTH EVOLUTION
GOLDVENU TO MOJAVE12

DATE	LENGTH (cm)	FORMAL ERR	# OBSERVATIONS WEIGHTED	TOTAL
83 8 27	1256724.1	.9	36	70
84 1 7	1256722.4	.1	114	138
84 1 14	1256722.9	.4	67	140

LENGTH:
Mean = 1256722.5 ± .2 cm (scaled 1 sigma)
Weighted RMS scatter about the mean = .2 cm

TABLE 4.37
VLBI BASELINE LENGTH EVOLUTION
GOLDVENU TO ONSALA60

DATE	LENGTH (cm)	FORMAL ERR	# OBSERVATIONS WEIGHTED	TOTAL
82 6 16	802492811.7	2.6	27	68
82 6 21	802492807.4	3.0	19	56

LENGTH:
Mean = 802492809.8 ± 2.1 cm (scaled 1 sigma)
Weighted RMS scatter about the mean = 2.1 cm

TABLE 4.38
VLBI BASELINE LENGTH EVOLUTION
GOLDVENU TO OVRO 130

DATE	LENGTH (cm)	FORMAL ERR	# OBSERVATIONS WEIGHTED	TOTAL
82 6 16	25758745.4	.4	53	101
82 6 21	25758744.5	.8	39	77
82 10 23	25758745.4	.4	86	94
83 8 27	25758748.0	.9	71	81

LENGTH:
Mean = 25758745.5 ± .5 cm (scaled 1 sigma)
Weighted RMS scatter about the mean = .8 cm
Slope = 2.1 ± .7 cm/yr (scaled 1 sigma)
Weighted RMS scatter about the line = .4 cm

TABLE 4.39
VLBI BASELINE LENGTH EVOLUTION
GOLDVENU TO PRESIDIO(7283)

DATE	LENGTH (cm)	FORMAL ERR	# OBSERVATIONS WEIGHTED	TOTAL
83 8 27	58065762.8	1.3	43	75

TABLE 4.40
VLBI BASELINE LENGTH EVOLUTION
GOLDVENU TO PT REYES(7251)

DATE	LENGTH (cm)	FORMAL ERR	# OBSERVATIONS WEIGHTED	TOTAL
83 8 27	63348374.8	1.0	54	70

TABLE 4.41
VLBI BASELINE LENGTH EVOLUTION
GOLDVENU TO QUINCY(7221)

DATE	LENGTH (cm)	FORMAL ERR	# OBSERVATIONS WEIGHTED	TOTAL
82 10 23	63955678.2	.7	84	93

TABLE 4.42
VLBI BASELINE LENGTH EVOLUTION
GOLDVENU TO VNDNBERG(7111)

DATE	LENGTH (cm)	FORMAL ERR	# OBSERVATIONS WEIGHTED	TOTAL
83 8 27	35756324.9	.8	64	79

TABLE 4.43
VLBI BASELINE LENGTH EVOLUTION
GOLDVENU TO WESTFORD

DATE	LENGTH (cm)	FORMAL ERR	# OBSERVATIONS WEIGHTED	TOTAL
82 6 16	390044551.6	1.2	66	104
82 6 21	390044548.4	1.6	39	104

LENGTH:
Mean = 390044550.4 $\pm$ 1.6 cm (scaled 1 sigma)
Weighted RMS scatter about the mean = 1.6 cm

TABLE 4.44
VLBI BASELINE LENGTH EVOLUTION
HATCREEK TO JPL MV1(7263)

DATE	LENGTH (cm)	FORMAL ERR	# OBSERVATIONS WEIGHTED	TOTAL
83 6 29	78907003.3	.5	79	108

TABLE 4.45
VLBI BASELINE LENGTH EVOLUTION
HATCREEK TO MAMMOTHL(7259)

DATE	LENGTH (cm)	FORMAL ERR	# OBSERVATIONS WEIGHTED	TOTAL
83 6 29	41453590.1	1.2	32	62

TABLE 4.46
VLBI BASELINE LENGTH EVOLUTION
HATCREEK TO MON PEAK(7274)

DATE	LENGTH (cm)	FORMAL ERR	# OBSERVATIONS WEIGHTED	TOTAL
83 6 27	98681534.6	.9	30	67
84 4 12	98681530.9	.6	65	69
85 3 1	98681531.3	.6	18	20
85 5 12	98681528.9	.6		
85 12 12	98681526.4	.6	48	55
86 4 7	98681527.2	.5	40	42
86 5 21	98681526.2	.5	45	46
86 10 19	98681523.7	.7		
86 10 29	98681526.2	.8	44	59
86 12 10	98681524.7	.5	57	58

LENGTH:
Mean = 98681527.6 ± .9 cm (scaled 1 sigma)
Weighted RMS scatter about the mean = 2.8 cm
Slope = -2.7 ± .3 cm/yr (scaled 1 sigma)
Weighted RMS scatter about the line = .9 cm

TABLE 4.47
VLBI BASELINE LENGTH EVOLUTION
HATCREEK TO PLATTVIL(7258)

DATE	LENGTH (cm)	FORMAL ERR	# OBSERVATIONS WEIGHTED	TOTAL
83 6 6	141631408.9	2.2	9	20
83 6 7	141631403.9	.9	9	42
83 6 9	141631404.7	1.4	26	90
84 4 17	141631406.4	1.0	89	99
84 4 25	141631406.9	1.1	50	59
84 4 26	141631402.7	.8	58	76
85 5 2	141631405.3	.3	98	102
85 5 6	141631404.7	.4	78	92
85 5 7	141631404.1	.6	72	85
86 3 26	141631405.8	.5	51	61
86 3 30	141631407.2	.6	50	56
86 4 1	141631407.3	.4	68	80
86 4 2	141631405.2	.8	21	31

LENGTH:
Mean = 141631405.6 ± .4 cm (scaled 1 sigma)
Weighted RMS scatter about the mean = 1.3 cm
Slope = 1.0 ± .4 cm/yr (scaled 1 sigma)
Weighted RMS scatter about the line = 1.0 cm

TABLE 4.48
VLBI BASELINE LENGTH EVOLUTION
HATCREEK TO PRESIDIO(7283)

DATE	LENGTH (cm)	FORMAL ERR	# OBSERVATIONS WEIGHTED	TOTAL
84 2 26	34499182.6	4.9	8	29
85 3 10	34499182.8	1.3	17	54
85 10 19	34499186.6	.4	62	64
85 10 23	34499188.0	.5	59	63

LENGTH:
Mean = 34499187.0 ± .7 cm (scaled 1 sigma)
Weighted RMS scatter about the mean = 1.2 cm
Slope = 5.7 ± 2.6 cm/yr (scaled 1 sigma)
Weighted RMS scatter about the line = .7 cm

TABLE 4.49
VLBI BASELINE LENGTH EVOLUTION
HATCREEK TO PT REYES(7251)

DATE	LENGTH (cm)	FORMAL ERR	# OBSERVATIONS WEIGHTED	TOTAL
84 2 26	32662881.4	1.5	43	54
85 10 19	32662879.2	.5	58	65

LENGTH:
Mean = 32662879.4 ± .7 cm (scaled 1 sigma)
Weighted RMS scatter about the mean = .7 cm

TABLE 4.50
VLBI BASELINE LENGTH EVOLUTION
HATCREEK TO QUINCY(7221)

DATE	LENGTH (cm)	FORMAL ERR	# OBSERVATIONS WEIGHTED	TOTAL
83 6 27	10371224.6	1.0	28	59
84 4 12	10371225.2	.7	53	60
85 5 12	10371224.8	.5	65	69
86 10 19	10371224.6	.6	22	62

LENGTH:
Mean = 10371224.8 ± .1 cm (scaled 1 sigma)
Weighted RMS scatter about the mean = .2 cm
Slope = -.1 ± .1 cm/yr (scaled 1 sigma)
Weighted RMS scatter about the line = .2 cm

TABLE 4.51
VLBI BASELINE LENGTH EVOLUTION
HATCREEK TO VERNAL(7290)

DATE	LENGTH (cm)	FORMAL ERR	# OBSERVATIONS WEIGHTED	TOTAL
86 3 30	100748944.6	.5	47	52

TABLE 4.52
VLBI BASELINE LENGTH EVOLUTION
HATCREEK TO VNDNBERG(7111)

DATE	LENGTH (cm)	FORMAL ERR	# OBSERVATIONS WEIGHTED	TOTAL
84 2 23	69870651.1	.9	28	51
84 2 26	69870651.7	1.1	35	54
84 4 12	69870654.8	.8	56	68
85 3 1	69870651.8	.6	16	21
85 3 10	69870647.8	.5		
85 5 12	69870648.2	.4		
85 5 15	69870648.8	.4	78	88
85 9 30	69870648.6	.3	94	112
85 10 19	69870645.2	.5		
85 10 23	69870646.9	.7		
85 12 12	69870645.6	.4	54	59
86 4 7	69870648.4	1.4	9	22
86 5 21	69870646.0	.5		
86 10 19	69870642.9	.6		
86 10 23	69870644.1	.4		
86 10 29	69870645.7	.8		
86 12 10	69870642.4	.6	41	43

LENGTH:
Mean = 69870647.3 $\pm$ .7 cm (scaled 1 sigma)
Weighted RMS scatter about the mean = 2.6 cm
Slope = -3.4 $\pm$ .5 cm/yr (scaled 1 sigma)
Weighted RMS scatter about the line = 1.3 cm

TABLE 4.53
VLBI BASELINE LENGTH EVOLUTION
HATCREEK TO YUMA(7894)

DATE	LENGTH (cm)	FORMAL ERR	# OBSERVATIONS WEIGHTED	TOTAL
85 3 1	108607122.4	.6	18	21
86 5 21	108607121.6	.4	46	48
86 10 29	108607122.9	.7	42	58
86 12 10	108607122.2	.6	53	56

LENGTH:
Mean = 108607122.1 ± .3 cm (scaled 1 sigma)
Weighted RMS scatter about the mean = .5 cm
Slope = -.0 ± .4 cm/yr (scaled 1 sigma)
Weighted RMS scatter about the line = .5 cm

TABLE 4.54
VLBI BASELINE LENGTH EVOLUTION
HAYSTACK TO PLATTVIL(7258)

DATE	LENGTH (cm)	FORMAL ERR	# OBSERVATIONS WEIGHTED	TOTAL
83 6 6	275320538.3	3.4	4	20 *
83 6 9	275320539.0	2.1	23	90 *
84 4 26	275320535.5	1.3	54	80
85 5 7	275320535.3	.8	47	73 *
86 4 1	275320539.3	.7	75	79 *

LENGTH:
Mean = 275320537.4 ± 1.0 cm (scaled 1 sigma)
Weighted RMS scatter about the mean = 1.9 cm
Slope = 1.1 ± 1.0 cm/yr (scaled 1 sigma)
Weighted RMS scatter about the line = 1.7 cm

* WESTFORD - PLATTVIL(7258) results mapped to HAYSTACK - PLATTVIL(7258)

TABLE 4.55
VLBI BASELINE LENGTH EVOLUTION
HRAS 085 TO JPL MV1(7263)

DATE	LENGTH (cm)	FORMAL ERR	# OBSERVATIONS WEIGHTED	TOTAL
82 10 16	139141356.1	1.2	41	75
83 6 29	139141361.0	.6	55	68

LENGTH:
Mean = 139141360.0 ± 2.0 cm (scaled 1 sigma)
Weighted RMS scatter about the mean = 2.0 cm

TABLE 4.56
VLBI BASELINE LENGTH EVOLUTION
HRAS 085 TO MAMMOTHL(7259)

DATE	LENGTH (cm)	FORMAL ERR	# OBSERVATIONS WEIGHTED	TOTAL
83 6 29	158014379.1	1.1	24	50

TABLE 4.57
VLBI BASELINE LENGTH EVOLUTION
HRAS 085 TO MON PEAK(7274)

DATE	LENGTH (cm)	FORMAL ERR	# OBSERVATIONS WEIGHTED	TOTAL
82 10 16	120575147.8	.7	53	85
82 10 17	120575148.6	.5	58	93
83 6 27	120575154.0	.6	60	85
83 11 5	120575150.8	.5	41	59
83 11 8	120575153.8	.7	66	79
84 4 12	120575152.9	.6	67	74
85 3 1	120575158.9	.6	57	61
85 5 12	120575158.8	.5		
85 5 14	120575159.7	.7	65	74
85 11 5	120575160.4	.4	64	64
85 12 12	120575158.5	.5	46	74
86 1 5	120575159.0	.7	67	69
86 2 23	120575161.2	.3	59	60
86 4 7	120575162.5	.4	45	46
86 5 18	120575161.9	.4	77	79
86 5 21	120575162.7	.4	71	73
86 10 19	120575161.8	.4		
86 10 26	120575162.1	.4	83	85
86 10 29	120575162.9	.5	83	85
86 12 10	120575163.2	.4	73	73

LENGTH:
Mean = 120575159.4 $\pm$ 1.0 cm (scaled 1 sigma)
Weighted RMS scatter about the mean = 4.3 cm
Slope = 3.5 $\pm$ .2 cm/yr (scaled 1 sigma)
Weighted RMS scatter about the line = 1.1 cm

TABLE 4.58
VLBI BASELINE LENGTH EVOLUTION
HRAS 085 TO PENTICTN(7283)

DATE	LENGTH (cm)	FORMAL ERR	# OBSERVATIONS WEIGHTED	TOTAL
84 8 24	244335456.8	1.4	84	170
85 8 28	244335454.8	2.3	74	86
85 9 4	244335456.2	.7	76	95

LENGTH:
Mean = 244335456.2 ± .3 cm (scaled 1 sigma)
Weighted RMS scatter about the mean = .4 cm

TABLE 4.59
VLBI BASELINE LENGTH EVOLUTION
HRAS 085 TO PINFLATS(7256)

DATE	LENGTH (cm)	FORMAL ERR	# OBSERVATIONS WEIGHTED	TOTAL
85 11 2	122329454.3	.5	43	52
86 2 26	122329455.0	.7	46	52
86 4 10	122329454.3	.5	3	3
86 11 1	122329455.5	.4	60	64
86 12 13	122329455.3	.4	70	84

LENGTH:
Mean = 122329454.9 ± .3 cm (scaled 1 sigma)
Weighted RMS scatter about the mean = .5 cm
Slope = 1.1 ± .3 cm/yr (scaled 1 sigma)
Weighted RMS scatter about the line = .2 cm

TABLE 4.60
VLBI BASELINE LENGTH EVOLUTION
HRAS 085 TO PLATTVIL(7258)

DATE	LENGTH (cm)	FORMAL ERR	# OBSERVATIONS WEIGHTED	TOTAL
83 6 6	106049963.5	3.3	7	21
83 6 9	106049962.7	1.8	43	87
84 4 17	106049967.0	1.1	49	100
84 4 22	106049964.1	1.5	49	94
84 4 25	106049968.4	1.3	29	66
84 4 26	106049965.3	1.0	2	48
85 5 2	106049963.8	.5	100	107
85 5 6	106049965.2	.6	99	105
85 5 7	106049964.9	.8	81	87
86 3 26	106049964.5	.5	64	66
86 3 30	106049964.6	.6	71	76
86 4 1	106049965.8	.5	83	86
86 4 2	106049966.2	1.5	23	31

LENGTH:
Mean = 106049965.0 $\pm$ .3 cm (scaled 1 sigma)
Weighted RMS scatter about the mean = 1.0 cm
Slope = -.1 $\pm$ .4 cm/yr (scaled 1 sigma)
Weighted RMS scatter about the line = 1.0 cm

TABLE 4.61
VLBI BASELINE LENGTH EVOLUTION
HRAS 085 TO PRESIDIO(7283)

DATE	LENGTH (cm)	FORMAL ERR	# OBSERVATIONS WEIGHTED	TOTAL
85 3 10	187058576.1	.6	10	60
85 3 13	187058579.9	.9	24	56
85 10 19	187058581.7	.5	65	66
85 10 23	187058582.4	.6	51	56

LENGTH:
Mean = 187058580.5 $\pm$ 1.4 cm (scaled 1 sigma)
Weighted RMS scatter about the mean = 2.4 cm

TABLE 4.62
VLBI BASELINE LENGTH EVOLUTION
HRAS 085 TO PT REYES(7251)

DATE	LENGTH (cm)	FORMAL ERR	# OBSERVATIONS WEIGHTED	TOTAL
85 3 13	192101569.1	.6	14	59
85 10 19	192101570.1	.7	64	70

LENGTH:
Mean = 192101569.6 ± .5 cm (scaled 1 sigma)
Weighted RMS scatter about the mean = .5 cm

TABLE 4.63
VLBI BASELINE LENGTH EVOLUTION
HRAS 085 TO QUINCY(7221)

DATE	LENGTH (cm)	FORMAL ERR	# OBSERVATIONS WEIGHTED	TOTAL
82 10 23	184959141.9	.8	56	100
83 6 27	184959143.1	1.0	36	75
84 4 12	184959139.7	1.3	38	68
85 5 12	184959142.4	.4	69	70
85 5 14	184959141.4	.8	60	68
86 10 19	184959141.7	.6	73	78

LENGTH:
Mean = 184959142.0 ± .3 cm (scaled 1 sigma)
Weighted RMS scatter about the mean = .7 cm
Slope = -.1 ± .2 cm/yr (scaled 1 sigma)
Weighted RMS scatter about the line = .7 cm

TABLE 4.64
VLBI BASELINE LENGTH EVOLUTION
HRAS 085 TO VERNAL(7290)

DATE	LENGTH (cm)	FORMAL ERR	# OBSERVATIONS WEIGHTED	TOTAL
86 3 30	118798134.4	.6	61	62

TABLE 4.65
VLBI BASELINE LENGTH EVOLUTION
HRAS 085 TO VNDNBERG(7111)

DATE	LENGTH (cm)	FORMAL ERR	# OBSERVATIONS WEIGHTED	TOTAL
83 11 8	161771375.8	1.3	46	75
84 4 12	161771373.3	.8	39	70
85 3 1	161771380.6	.5	47	54
85 3 10	161771380.1	.5		
85 3 13	161771380.0	.4	53	55
85 5 12	161771380.8	.4		
85 10 19	161771381.6	.4		
85 10 23	161771382.0	.7		
85 11 2	161771383.6	.4	22	57
85 11 5	161771382.1	.5	67	70
85 12 12	161771382.1	.5	46	73
86 4 7	161771383.8	1.0	20	26
86 4 10	161771383.0	.5	65	76
86 5 18	161771384.8	.3	79	84
86 5 21	161771384.4	.5		
86 10 19	161771384.6	.5		
86 10 26	161771385.0	.4	76	84
86 10 29	161771385.0	.4		
86 11 1	161771386.9	.3	78	80
86 12 10	161771386.3	.6	49	54
86 12 13	161771386.2	.4	71	84

LENGTH:
Mean = 161771383.4 $\pm$ .6 cm (scaled 1 sigma)
Weighted RMS scatter about the mean = 2.6 cm
Slope = 3.6 $\pm$ .3 cm/yr (scaled 1 sigma)
Weighted RMS scatter about the line = .8 cm

TABLE 4.66
VLBI BASELINE LENGTH EVOLUTION
HRAS 085 TO YELLOWKN(7285)

DATE	LENGTH (cm)	FORMAL ERR	# OBSERVATIONS WEIGHTED	TOTAL
84 8 24	357206988.2	1.4	127	175
85 9 4	357206987.4	1.1	80	93

LENGTH:
Mean = 357206987.7 $\pm$ .4 cm (scaled 1 sigma)
Weighted RMS scatter about the mean = .4 cm

TABLE 4.67
VLBI BASELINE LENGTH EVOLUTION
HRAS 085 TO YUMA(7894)

DATE	LENGTH (cm)	FORMAL ERR	# OBSERVATIONS WEIGHTED	TOTAL
83 11 5	100294936.7	.8	32	56
85 3 1	100294938.5	.4	58	60
85 11 2	100294939.4	.6	50	54
85 11 5	100294938.2	.4	65	70
86 4 10	100294938.2	.4	65	74
86 5 21	100294940.0	.4	78	80
86 10 29	100294938.4	.3	81	82
86 11 1	100294939.3	.3	68	75
86 12 10	100294938.9	.4	70	72
86 12 13	100294937.9	.4	75	84

LENGTH:
Mean = 100294938.7 ± .2 cm (scaled 1 sigma)
Weighted RMS scatter about the mean = .7 cm
Slope = .3 ± .4 cm/yr (scaled 1 sigma)
Weighted RMS scatter about the line = .7 cm

TABLE 4.68
VLBI BASELINE LENGTH EVOLUTION
JPL MV1(7263) TO MAMMOTHL(7259)

DATE	LENGTH (cm)	FORMAL ERR	# OBSERVATIONS WEIGHTED	TOTAL
83 6 29	38764969.8	1.2		
84 4 9	38764972.0	1.5		
84 10 22	38764968.1	1.8	2	14
86 10 22	38764966.1	.6		

LENGTH:
Mean = 38764967.5 ± 1.2 cm (scaled 1 sigma)
Weighted RMS scatter about the mean = 2.1 cm
Slope = -1.4 ± .4 cm/yr (scaled 1 sigma)
Weighted RMS scatter about the line = .9 cm

TABLE 4.69
VLBI BASELINE LENGTH EVOLUTION
JPL MV1(7263) TO MOJAVE12

DATE	LENGTH (cm)	FORMAL ERR	# OBSERVATIONS WEIGHTED	TOTAL
83 6 29	17168640.2	.3	84	110
83 8 22	17168644.0	1.0	37	56
83 10 29	17168645.8	1.1	67	88
83 10 31	17168644.8	.9	50	74
84 2 20	17168647.3	2.4	24	37
84 4 9	17168643.7	.7	25	25
84 10 22	17168642.2	1.2	67	107
84 10 25	17168641.9	1.4	41	101
85 1 18	17168643.0	.8	40	53
85 3 7	17168643.4	.5	50	90
85 10 27	17168645.1	.4	89	98
85 10 30	17168644.4	.6	96	97
86 4 13	17168643.1	.3	90	91
86 10 22	17168643.4	.4	74	76
86 11 4	17168643.1	.3	87	95
86 12 16	17168643.0	.4	73	79

LENGTH:
Mean = 17168643.0 $\pm$ .4 cm (scaled 1 sigma)
Weighted RMS scatter about the mean = 1.4 cm
Slope = .6 $\pm$ .3 cm/yr (scaled 1 sigma)
Weighted RMS scatter about the line = 1.3 cm

TABLE 4.70
VLBI BASELINE LENGTH EVOLUTION
JPL MV1(7263) TO MON PEAK(7274)

DATE	LENGTH (cm)	FORMAL ERR	# OBSERVATIONS WEIGHTED	TOTAL
82 10 16	21830773.5	.9	24	92

TABLE 4.71
VLBI BASELINE LENGTH EVOLUTION
JPL MV1(7263) TO OVRO 130

DATE	LENGTH (cm)	FORMAL ERR	# OBSERVATIONS WEIGHTED	TOTAL
82 10 16	33594148.1	.9	51	87
82 10 21	33594146.6	5.8	32	93
83 2 21	33594145.2	1.1	31	43
83 6 29	33594140.9	.4	83	102
83 8 22	33594142.9	1.5	33	40
83 10 31	33594145.0	1.2	46	63
84 2 20	33594147.5	2.6	17	25
84 4 9	33594144.7	1.1	25	25
84 10 22	33594141.8	1.4	32	54
84 10 25	33594142.2	1.7	32	54
85 3 7	33594140.3	.6	23	48
85 10 27	33594141.4	.5	48	52
85 10 30	33594140.6	.7	47	57
86 4 13	33594137.5	.4	48	49
86 10 22	33594139.6	.5	38	42
86 11 4	33594137.3	.4	46	47

LENGTH:
Mean = 33594140.2 ± .7 cm (scaled 1 sigma)
Weighted RMS scatter about the mean = 2.6 cm
Slope = -1.5 ± .3 cm/yr (scaled 1 sigma)
Weighted RMS scatter about the line = 1.7 cm

TABLE 4.72
VLBI BASELINE LENGTH EVOLUTION
JPL MV1(7263) TO PBLOSSOM(7254)

DATE	LENGTH (cm)	FORMAL ERR	# OBSERVATIONS WEIGHTED	TOTAL
83 2 21	4115567.7	1.1	13	43
83 8 22	4115570.5	1.1		
84 2 20	4115571.9	2.6		
84 10 25	4115567.5	1.6		
85 3 7	4115567.9	.5		
85 10 27	4115569.1	.6		

LENGTH:
Mean = 4115568.6 ± .4 cm (scaled 1 sigma)
Weighted RMS scatter about the mean = 1.0 cm
Slope = -.1 ± .5 cm/yr (scaled 1 sigma)
Weighted RMS scatter about the line = 1.0 cm

TABLE 4.73
VLBI BASELINE LENGTH EVOLUTION
JPL MV1(7263) TO PINFLATS(7256)

DATE	LENGTH (cm)	FORMAL ERR	# OBSERVATIONS WEIGHTED	TOTAL
83 10 31	17180507.7	.9	12	78
85 1 18	17180507.6	1.2	2	89
85 10 30	17180509.0	.6		
86 4 13	17180508.8	.4		
86 11 4	17180509.5	.4		
86 12 16	17180508.8	.4	42	86

LENGTH:
Mean = 17180508.9 ± .2 cm (scaled 1 sigma)
Weighted RMS scatter about the mean = .5 cm
Slope = .5 ± .2 cm/yr (scaled 1 sigma)
Weighted RMS scatter about the line = .3 cm

TABLE 4.74
VLBI BASELINE LENGTH EVOLUTION
JPL MV1(7263) TO QUINCY(7221)

DATE	LENGTH (cm)	FORMAL ERR	# OBSERVATIONS WEIGHTED	TOTAL
82 10 21	68570507.7	7.3	7	69

TABLE 4.75
VLBI BASELINE LENGTH EVOLUTION
JPL MV1(7263) TO VNDNBERG(7111)

DATE	LENGTH (cm)	FORMAL ERR	# OBSERVATIONS WEIGHTED	TOTAL
83 8 22	22803091.6	1.3		
83 10 31	22803096.0	1.0	3	67
84 2 20	22803095.2	1.7	7	31
84 10 22	22803096.9	1.0	15	98
84 10 25	22803098.7	1.3	12	102
85 1 18	22803095.5	.6	63	101
85 3 7	22803095.5	.5	37	90
85 10 27	22803096.6	.4	56	74
85 10 30	22803095.4	.5	54	73
86 4 13	22803097.6	.4	83	88
86 10 22	22803098.3	.4	65	73
86 11 4	22803097.7	.3	93	95
86 12 16	22803098.2	.4	58	84

LENGTH:
Mean = 22803097.2 ± .3 cm (scaled 1 sigma)
Weighted RMS scatter about the mean = 1.2 cm
Slope = 1.2 ± .2 cm/yr (scaled 1 sigma)
Weighted RMS scatter about the line = .7 cm

TABLE 4.76
VLBI BASELINE LENGTH EVOLUTION
KASHIMA TO VNDNBERG(7111)

DATE	LENGTH (cm)	FORMAL ERR	# OBSERVATIONS WEIGHTED	TOTAL
85 5 15	791388824.2	1.2	78	90
85 7 6	791388826.6	2.1		
85 7 20	791388815.0	1.1	123	127
85 7 27	791388823.9	1.6	9	9
85 8 10	791388828.2	1.1	114	128
85 9 30	791388822.7	.9	102	114
86 7 5	791388817.2	1.6		
86 7 12	791388811.8	1.1	152	165
86 7 26	791388818.8	1.1		
86 8 2	791388818.3	.8	176	190
86 10 23	791388816.7	1.2		

LENGTH:
Mean = 791388819.8 ± 1.5 cm (scaled 1 sigma)
Weighted RMS scatter about the mean = 4.7 cm
Slope = -5.6 ± 2.2 cm/yr (scaled 1 sigma)
Weighted RMS scatter about the line = 3.7 cm

TABLE 4.77
VLBI BASELINE LENGTH EVOLUTION
KAUAI TO VNDNBERG(7111)

DATE	LENGTH (cm)	FORMAL ERR	# OBSERVATIONS WEIGHTED	TOTAL
84 7 7	397252248.1	1.1	27	146
84 7 21	397252243.2	1.0	65	133
84 7 22	397252246.0	.8	92	134
85 5 15	397252245.8	.7	67	107
85 7 6	397252246.1	.7	127	165
85 7 20	397252241.6	.9		
85 7 27	397252246.6	.8	111	199
85 8 10	397252248.9	.9		
85 9 30	397252242.3	.6	105	137
86 7 5	397252242.4	.7	206	219
86 7 12	397252240.3	1.0		
86 7 26	397252244.3	.6	223	243
86 8 2	397252243.5	.7		
86 10 23	397252245.3	.5	110	121

LENGTH:
Mean = 397252244.5 ± .6 cm (scaled 1 sigma)
Weighted RMS scatter about the mean = 2.1 cm
Slope = -1.0 ± .7 cm/yr (scaled 1 sigma)
Weighted RMS scatter about the line = 1.9 cm

TABLE 4.78
VLBI BASELINE LENGTH EVOLUTION
KODIAK(7278) TO NOME(7279)

DATE	LENGTH (cm)	FORMAL ERR	# OBSERVATIONS WEIGHTED	TOTAL
84 7 23	102405332.5	1.4	6	232
85 7 18	102405331.3	1.1	6	84
86 7 22	102405327.7	.9		
86 7 24	102405328.6	.9		

LENGTH:
Mean = 102405329.4 ± 1.0 cm (scaled 1 sigma)
Weighted RMS scatter about the mean = 1.8 cm
Slope = -2.3 ± .4 cm/yr (scaled 1 sigma)
Weighted RMS scatter about the line = .5 cm

TABLE 4.79
VLBI BASELINE LENGTH EVOLUTION
KODIAK(7278) TO VNDNBERG(7111)

DATE	LENGTH (cm)	FORMAL ERR	# OBSERVATIONS WEIGHTED	TOTAL
84 7 23	345902218.4	1.8	5	150
85 7 18	345902215.2	2.2	17	71
86 7 22	345902210.8	1.2	106	144
86 7 24	345902208.9	1.3	79	119

LENGTH:
Mean = 345902212.1 ± 2.0 cm (scaled 1 sigma)
Weighted RMS scatter about the mean = 3.5 cm
Slope = -4.3 ± .6 cm/yr (scaled 1 sigma)
Weighted RMS scatter about the line = .8 cm

TABLE 4.80
VLBI BASELINE LENGTH EVOLUTION
KWAJAL26 TO VNDNBERG(7111)

DATE	LENGTH (cm)	FORMAL ERR	# OBSERVATIONS WEIGHTED	TOTAL
84 7 7	729810464.7	1.9	1	23
84 7 21	729810455.1	2.0		
84 7 22	729810459.2	1.8	7	116
85 7 6	729810452.7	1.9		
85 7 20	729810449.1	1.5		
85 7 27	729810462.4	1.6		
85 8 10	729810455.2	1.3		
86 7 5	729810455.4	1.3		
86 7 12	729810448.7	2.1		
86 7 26	729810457.5	1.8		
86 8 2	729810456.9	1.3		

LENGTH:
Mean = 729810456.0 ± 1.4 cm (scaled 1 sigma)
Weighted RMS scatter about the mean = 4.3 cm
Slope = -1.8 ± 1.7 cm/yr (scaled 1 sigma)
Weighted RMS scatter about the line = 4.1 cm

TABLE 4.81
VLBI BASELINE LENGTH EVOLUTION
MAMMOTHL(7259) TO MOJAVE12

DATE	LENGTH (cm)	FORMAL ERR	# OBSERVATIONS WEIGHTED	TOTAL
83 6 29	31578522.1	1.1	22	66
84 4 9	31578519.2	1.0	46	62
84 10 22	31578519.2	1.2	60	85
86 10 22	31578521.8	.4	95	96

LENGTH:
Mean = 31578521.4 ± .6 cm (scaled 1 sigma)
Weighted RMS scatter about the mean = 1.0 cm
Slope = .4 ± .4 cm/yr (scaled 1 sigma)
Weighted RMS scatter about the line = .8 cm

TABLE 4.82
VLBI BASELINE LENGTH EVOLUTION
MAMMOTHL(7259) TO OVRO 130

DATE	LENGTH (cm)	FORMAL ERR	# OBSERVATIONS WEIGHTED	TOTAL
83 6 29	7425549.6	1.0	34	66
84 4 9	7425547.6	.7	48	60
84 10 22	7425547.0	1.2	22	43
86 10 22	7425549.5	.3	50	54

LENGTH:
Mean = 7425549.2 ± .4 cm (scaled 1 sigma)
Weighted RMS scatter about the mean = .8 cm
Slope = .4 ± .3 cm/yr (scaled 1 sigma)
Weighted RMS scatter about the line = .6 cm

TABLE 4.83
VLBI BASELINE LENGTH EVOLUTION
MAMMOTHL(7259) TO VNDNBERG(7111)

DATE	LENGTH (cm)	FORMAL ERR	# OBSERVATIONS WEIGHTED	TOTAL
84 10 22	37399546.2	1.2	44	75
86 10 22	37399543.8	.4	87	88

LENGTH:
Mean = 37399544.1 ± .8 cm (scaled 1 sigma)
Weighted RMS scatter about the mean = .8 cm

TABLE 4.84
VLBI BASELINE LENGTH EVOLUTION
MOJAVE12 TO MON PEAK(7274)

DATE	LENGTH (cm)	FORMAL ERR	# OBSERVATIONS WEIGHTED	TOTAL
83 6 27	27405588.2	.5	55	76
83 11 5	27405586.5	.5	66	80
83 11 8	27405585.5	.5	63	71
84 4 12	27405584.5	.4	75	78
85 1 12	27405581.5	1.5	50	94
85 3 1	27405583.1	.5	71	86
85 5 12	27405582.7	.5	95	97
85 5 14	27405583.6	.7	88	101
85 11 5	27405581.7	.4	91	94
85 12 12	27405580.2	.5	81	91
86 1 5	27405580.7	.7	85	94
86 2 23	27405581.3	.5	68	68
86 4 7	27405582.1	.5	48	49
86 5 18	27405580.9	.4	89	89
86 5 21	27405580.8	.4	81	81
86 10 19	27405578.2	.3	87	95
86 10 26	27405579.5	.4	96	96
86 10 29	27405579.5	.5	97	97
86 12 10	27405578.9	.4	96	97

LENGTH:
Mean = 27405581.8 $\pm$ .6 cm (scaled 1 sigma)
Weighted RMS scatter about the mean = 2.7 cm
Slope = -2.4 $\pm$ .2 cm/yr (scaled 1 sigma)
Weighted RMS scatter about the line = .7 cm

TABLE 4.84
VLBI BASELINE LENGTH EVOLUTION
MOJAVE12 TO OCOTILLO(7270)

DATE	LENGTH (cm)	FORMAL ERR	# OBSERVATIONS WEIGHTED	TOTAL
84 3 3	29936858.6	2.3	33	47
85 1 15	29936863.3	.6	81	100
85 3 4	29936863.2	.5	81	86

LENGTH:
Mean = 29936863.1 $\pm$ .6 cm (scaled 1 sigma)
Weighted RMS scatter about the mean = .8 cm

TABLE 4.86
VLBI BASELINE LENGTH EVOLUTION
MOJAVE12 TO PBLOSSOM(7254)

DATE	LENGTH (cm)	FORMAL ERR	# OBSERVATIONS WEIGHTED	TOTAL
83 8 22	13118476.7	.6	69	76
84 2 20	13118478.7	.7	58	81
84 10 25	13118478.2	.5	75	99
85 3 7	13118478.5	.3	73	84
85 10 27	13118479.1	.5	87	91

LENGTH:
Mean = 13118478.4 ± .3 cm (scaled 1 sigma)
Weighted RMS scatter about the mean = .6 cm
Slope = .8 ± .3 cm/yr (scaled 1 sigma)
Weighted RMS scatter about the line = .4 cm

TABLE 4.87
VLBI BASELINE LENGTH EVOLUTION
MOJAVE12 TO PINFLATS(7256)

DATE	LENGTH (cm)	FORMAL ERR	# OBSERVATIONS WEIGHTED	TOTAL
83 10 31	19510975.8	.5	70	80
83 11 3	19510974.5	.9	51	63
84 10 28	19510973.4	.9	86	106
84 10 31	19510973.7	.5	77	96
85 1 18	19510973.0	1.2	55	59
85 10 30	19510972.6	.6	93	97
85 11 2	19510974.1	.5	65	77
86 2 26	19510972.8	.8	66	71
86 4 10	19510972.8	.5	61	68
86 4 13	19510970.9	.4	92	92
86 11 1	19510972.8	.4	59	68
86 11 4	19510971.1	.5	82	90
86 12 13	19510970.8	.3	76	96
86 12 16	19510970.4	.4	87	91

LENGTH:
Mean = 19510972.4 ± .4 cm (scaled 1 sigma)
Weighted RMS scatter about the mean = 1.6 cm
Slope = -1.4 ± .2 cm/yr (scaled 1 sigma)
Weighted RMS scatter about the line = .8 cm

TABLE 4.88
VLBI BASELINE LENGTH EVOLUTION
MOJAVE12 TO PLATTVIL(7258)

DATE	LENGTH (cm)	FORMAL ERR	# OBSERVATIONS WEIGHTED	TOTAL
84 4 17	119631698.3	.9	81	103
84 4 22	119631693.5	1.1	62	92
84 4 25	119631697.3	1.0	42	63
84 4 26	119631693.8	.7	48	83
85 5 2	119631694.7	.3	96	102
85 5 6	119631694.8	.5	98	106
85 5 7	119631694.7	.6	68	84
86 3 26	119631695.1	.4	54	55
86 3 30	119631695.9	.5	72	77
86 4 1	119631696.4	.4	51	58
86 4 2	119631695.5	.7	8	18

LENGTH:
Mean = 119631695.3 ± .3 cm (scaled 1 sigma)
Weighted RMS scatter about the mean = 1.0 cm
Slope = .4 ± .4 cm/yr (scaled 1 sigma)
Weighted RMS scatter about the line = .9 cm

TABLE 4.89
VLBI BASELINE LENGTH EVOLUTION
MOJAVE12 TO PRESIDIO(7283)

DATE	LENGTH (cm)	FORMAL ERR	# OBSERVATIONS WEIGHTED	TOTAL
83 8 25	56865487.1	1.1	51	71
83 8 27	56865485.9	1.2	21	66
84 2 26	56865485.6	2.7	13	40
85 3 10	56865490.6	.6	18	87
85 3 13	56865492.5	.5	25	82
85 10 19	56865492.2	.3	91	94
85 10 23	56865492.8	.4	83	88

LENGTH:
Mean = 56865491.9 ± .6 cm (scaled 1 sigma)
Weighted RMS scatter about the mean = 1.6 cm
Slope = 2.5 ± .5 cm/yr (scaled 1 sigma)
Weighted RMS scatter about the line = .7 cm

TABLE 4.90
VLBI BASELINE LENGTH EVOLUTION
MOJAVE12 TO PT REYES(7251)

DATE	LENGTH (cm)	FORMAL ERR	# OBSERVATIONS WEIGHTED	TOTAL
83 8 27	62142470.0	.8	32	62
84 2 26	62142471.6	1.3	44	63
85 3 13	62142476.5	.4	68	85
85 10 19	62142475.9	.5	89	99

LENGTH:
Mean = 62142475.2 ± 1.3 cm (scaled 1 sigma)
Weighted RMS scatter about the mean = 2.2 cm
Slope = 2.7 ± .9 cm/yr (scaled 1 sigma)
Weighted RMS scatter about the line = 1.1 cm

TABLE 4.91
VLBI BASELINE LENGTH EVOLUTION
MOJAVE12 TO PVERDES(7268)

DATE	LENGTH (cm)	FORMAL ERR	# OBSERVATIONS WEIGHTED	TOTAL
83 11 12	22448374.3	1.5	44	76
85 3 4	22448380.2	.5	64	88

LENGTH:
Mean = 22448379.6 ± 1.8 cm (scaled 1 sigma)
Weighted RMS scatter about the mean = 1.8 cm

TABLE 4.92
VLBI BASELINE LENGTH EVOLUTION
MOJAVE12 TO QUINCY(7221)

DATE	LENGTH (cm)	FORMAL ERR	# OBSERVATIONS WEIGHTED	TOTAL
83 6 27	62713776.0	.8	40	69
84 4 12	62713775.6	.9	58	69
85 5 12	62713775.9	.4	86	90
85 5 14	62713776.5	.6	89	95
86 10 19	62713776.2	.5	89	96

LENGTH:
Mean = 62713776.1 ± .1 cm (scaled 1 sigma)
Weighted RMS scatter about the mean = .3 cm
Slope = .1 ± .1 cm/yr (scaled 1 sigma)
Weighted RMS scatter about the line = .2 cm

TABLE 4.93
VLBI BASELINE LENGTH EVOLUTION
MOJAVE12 TO SANPAULA(7255)

DATE	LENGTH (cm)	FORMAL ERR	# OBSERVATIONS WEIGHTED	TOTAL
83 8 31	21961823.9	.9	63	84
84 2 29	21961818.6	1.6	31	43
85 1 9	21961824.7	.6	87	96

LENGTH:
Mean = 21961823.9 ± 1.2 cm (scaled 1 sigma)
Weighted RMS scatter about the mean = 1.7 cm
Slope = 1.1 ± 1.8 cm/yr (scaled 1 sigma)
Weighted RMS scatter about the line = 1.6 cm

TABLE 4.94
VLBI BASELINE LENGTH EVOLUTION
MOJAVE12 TO VERNAL(7290)

DATE	LENGTH (cm)	FORMAL ERR	# OBSERVATIONS WEIGHTED	TOTAL
86 3 30	84888460.8	.5	59	63

TABLE 4.95
VLBI BASELINE LENGTH EVOLUTION
MOJAVE12 TO VNDNBERG(7111)

DATE	LENGTH (cm)	FORMAL ERR	# OBSERVATIONS WEIGHTED	TOTAL
83 8 22	35128244.3	1.0	34	67
83 8 25	35128245.3	.6	38	66
83 8 27	35128244.3	.6	31	72
83 8 31	35128243.9	1.0	46	74
83 10 31	35128247.0	.6	38	69
83 11 3	35128243.3	.7	61	74
83 11 8	35128246.1	.7	48	66
83 11 10	35128246.5	.9	58	73
83 11 12	35128243.2	1.8	15	78
84 2 20	35128245.5	.7	50	72
84 2 23	35128243.0	.7	32	56
84 2 26	35128246.0	.7	40	61
84 2 29	35128249.0	1.3	62	102
84 3 3	35128250.6	1.9	41	92
84 4 12	35128244.6	.5	41	69
84 7 7	35128243.4	1.3	72	129
84 7 21	35128243.7	.8	115	131
84 7 22	35128247.3	.6	120	133
84 10 22	35128246.0	.4	66	98
84 10 25	35128245.7	.4	99	107
84 10 28	35128246.2	.4	103	109
84 10 31	35128245.5	.4	94	102
85 1 9	35128246.5	.6	78	100
85 1 12	35128247.3	.3	74	86
85 1 15	35128246.8	.4	91	98
85 1 18	35128245.5	.4	51	60
85 3 1	35128247.8	.3	70	80
85 3 4	35128247.3	.3	83	86
85 3 7	35128246.4	.3	89	91
85 3 10	35128247.7	.3	70	88
85 3 13	35128247.6	.3	61	81
85 5 12	35128247.2	.3	94	96
85 5 15	35128248.1	.4	98	104
85 7 6	35128247.0	.5	184	196
85 7 20	35128251.0	1.0	118	123
85 7 27	35128248.3	.7	122	165
85 8 10	35128249.9	.8	107	115
85 9 30	35128249.0	.3	125	140
85 10 19	35128247.6	.3	96	98
85 10 23	35128248.1	.4	58	59
85 10 27	35128247.9	.3	68	77
85 10 30	35128248.1	.5	56	67
85 11 2	35128249.7	.2	30	79
85 11 5	35128249.1	.3	97	101
85 12 12	35128248.4	.2	83	92

86	4	7	35128250.2	.8	18	28
86	4	10	35128250.3	.3	84	92
86	4	13	35128249.4	.4	86	89
86	5	18	35128250.2	.2	93	95
86	5	21	35128250.0	.3	98	100
86	7	5	35128249.8	.4	209	217
86	7	12	35128250.6	.8	149	161
86	7	26	35128249.7	.2	217	230
86	8	2	35128250.9	.6	175	182
86	10	19	35128250.0	.2	99	99
86	10	22	35128250.3	.3	90	91
86	10	23	35128250.8	.3	114	116
86	10	26	35128249.8	.2	93	98
86	10	29	35128250.3	.2	98	98
86	11	1	35128250.9	.2	86	92
86	11	4	35128249.6	.3	84	93
86	12	10	35128250.5	.3	72	74
86	12	13	35128251.6	.2	86	96
86	12	16	35128249.6	.5	84	87

LENGTH:
Mean = 35128248.8 ± .2 cm (scaled 1 sigma)
Weighted RMS scatter about the mean = 1.8 cm
Slope = 2.0 ± .1 cm/yr (scaled 1 sigma)
Weighted RMS scatter about the line = .7 cm

TABLE 4.96
VLBI BASELINE LENGTH EVOLUTION
MOJAVE12 TO YUMA(7894)

DATE			LENGTH (cm)	FORMAL ERR	# OBSERVATIONS WEIGHTED	TOTAL
83	11	3	36291238.7	1.7	64	85
83	11	5	36291237.1	.9	42	62
84	10	31	36291238.8	1.1	77	109
85	3	1	36291238.9	.4	81	87
85	11	2	36291238.7	.7	61	83
85	11	5	36291239.3	.5	91	101
86	4	10	36291239.4	.5	71	76
86	5	21	36291239.4	.3	88	91
86	10	29	36291239.7	.2	95	95
86	11	1	36291239.0	.3	74	77
86	12	10	36291240.2	.4	93	96
86	12	13	36291240.5	.4	82	96

LENGTH:
Mean = 36291239.5 ± .2 cm (scaled 1 sigma)
Weighted RMS scatter about the mean = .6 cm
Slope = .6 ± .2 cm/yr (scaled 1 sigma)
Weighted RMS scatter about the line = .4 cm

TABLE 4.97
VLBI BASELINE LENGTH EVOLUTION
MON PEAK(7274) TO OVRO 130

DATE	LENGTH (cm)	FORMAL ERR	# OBSERVATIONS WEIGHTED	TOTAL
82 10 16	51042382.8	.5	77	97
82 10 17	51042380.8	.5	87	96
83 6 27	51042380.6	.6	52	61
83 11 5	51042378.9	.5	53	74
84 4 12	51042376.7	.4	68	70
85 3 1	51042374.4	.6	40	43
85 5 12	51042374.0	.5	54	56
85 5 14	51042375.7	.7	53	58
86 4 7	51042373.1	.5	26	28
86 5 18	51042372.4	.4	44	47
86 5 21	51042371.3	.5		
86 10 19	51042370.8	.4	47	53
86 10 26	51042371.8	.5		
86 10 29	51042371.3	.6		

LENGTH:
Mean = 51042375.0 $\pm$ 1.1 cm (scaled 1 sigma)
Weighted RMS scatter about the mean = 3.9 cm
Slope = -2.6 $\pm$ .1 cm/yr (scaled 1 sigma)
Weighted RMS scatter about the line = .7 cm

TABLE 4.98
VLBI BASELINE LENGTH EVOLUTION
MON PEAK(7274) TO QUINCY(7221)

DATE	LENGTH (cm)	FORMAL ERR	# OBSERVATIONS WEIGHTED	TOTAL
83 6 27	88353829.4	.9	5	74
84 4 12	88353824.2	1.0	7	60
85 5 12	88353822.6	.7		
85 5 14	88353823.7	1.0		
86 10 19	88353817.6	.6		

LENGTH:
Mean = 88353822.0 $\pm$ 2.0 cm (scaled 1 sigma)
Weighted RMS scatter about the mean = 4.0 cm
Slope = -3.4 $\pm$ .4 cm/yr (scaled 1 sigma)
Weighted RMS scatter about the line = .8 cm

TABLE 4.99
VLBI BASELINE LENGTH EVOLUTION
MON PEAK(7274) TO VNDNBERG(7111)

DATE	LENGTH (cm)	FORMAL ERR	# OBSERVATIONS WEIGHTED	TOTAL
83 11 8	43021601.3	1.0	24	67
84 4 12	43021599.1	.7	2	69
85 1 12	43021602.3	1.1	23	83
85 3 1	43021602.5	.4	52	81
85 5 12	43021602.7	.5	85	96
85 11 5	43021602.4	.4	90	95
85 12 12	43021604.1	.4	75	90
86 4 7	43021602.2	.9	6	14
86 5 18	43021603.7	.3	83	87
86 5 21	43021602.8	.4		
86 10 19	43021603.2	.3	91	95
86 10 26	43021604.1	.3	86	94
86 10 29	43021603.0	.4		
86 12 10	43021604.8	.4	65	73

LENGTH:
Mean = 43021603.2 $\pm$ .3 cm (scaled 1 sigma)
Weighted RMS scatter about the mean = 1.0 cm
Slope = 1.0 $\pm$ .3 cm/yr (scaled 1 sigma)
Weighted RMS scatter about the line = .7 cm

TABLE 4.100
VLBI BASELINE LENGTH EVOLUTION
MON PEAK(7274) TO YUMA(7894)

DATE	LENGTH (cm)	FORMAL ERR	# OBSERVATIONS WEIGHTED	TOTAL
83 11 5	20772692.7	.7	14	57
85 3 1	20772696.9	.4	16	87
85 11 5	20772699.6	.4		
86 5 21	20772699.5	.4		
86 10 29	20772700.9	.4		
86 12 10	20772700.8	.3	42	89

LENGTH:
Mean = 20772699.3 $\pm$ .9 cm (scaled 1 sigma)
Weighted RMS scatter about the mean = 2.1 cm
Slope = 2.4 $\pm$ .3 cm/yr (scaled 1 sigma)
Weighted RMS scatter about the line = .5 cm

TABLE 4.101
VLBI BASELINE LENGTH EVOLUTION
NOME(7279) TO SNDPOINT(7280)

DATE	LENGTH (cm)	FORMAL ERR	# OBSERVATIONS WEIGHTED	TOTAL
84 7 14	106000286.1	2.6		
85 7 25	106000286.1	.9	3	41
86 7 31	106000287.2	.8		

LENGTH:
Mean = 106000286.7 ± .4 cm (scaled 1 sigma)
Weighted RMS scatter about the mean = .6 cm
Slope = .9 ± .2 cm/yr (scaled 1 sigma)
Weighted RMS scatter about the line = .2 cm

TABLE 4.102
VLBI BASELINE LENGTH EVOLUTION
NOME(7279) TO VNDNBERG(7111)

DATE	LENGTH (cm)	FORMAL ERR	# OBSERVATIONS WEIGHTED	TOTAL
84 7 14	438869424.8	3.2	5	43
84 7 23	438869427.5	1.2	36	127
85 7 18	438869419.4	1.8	6	69
85 7 25	438869410.3	1.1	65	165
86 7 22	438869407.3	1.9	22	114
86 7 24	438869409.4	1.5	22	126
86 7 31	438869411.2	1.3	86	169

LENGTH:
Mean = 438869415.2 ± 3.1 cm (scaled 1 sigma)
Weighted RMS scatter about the mean = 7.5 cm
Slope = -8.2 ± 1.9 cm/yr (scaled 1 sigma)
Weighted RMS scatter about the line = 3.7 cm

TABLE 4.103
VLBI BASELINE LENGTH EVOLUTION
OCOTILLO(7270) TO OVRO 130

DATE	LENGTH (cm)	FORMAL ERR	# OBSERVATIONS WEIGHTED	TOTAL
85 3 4	54231322.9	.5	44	47

TABLE 4.104
VLBI BASELINE LENGTH EVOLUTION
OCOTILLO(7270) TO VNDNBERG(7111)

DATE	LENGTH (cm)	FORMAL ERR	# OBSERVATIONS WEIGHTED	TOTAL
84 3 3	48785110.4	2.9	3	41
85 1 15	48785109.9	.5	74	97
85 3 4	48785109.8	.4	80	82

LENGTH:
Mean = 48785109.8 ± .1 cm (scaled 1 sigma)
Weighted RMS scatter about the mean = .1 cm

TABLE 4.105
VLBI BASELINE LENGTH EVOLUTION
OVRO 130 TO PBLOSSOM(7254)

DATE	LENGTH (cm)	FORMAL ERR	# OBSERVATIONS WEIGHTED	TOTAL
83 2 21	30349782.5	.9	36	52
83 8 22	30349781.1	1.0	57	61
84 2 20	30349784.1	.9	48	70
84 10 25	30349781.0	.7	33	49
85 3 7	30349780.3	.3	28	44
85 10 27	30349780.4	.6	46	51

LENGTH:
Mean = 30349780.8 ± .5 cm (scaled 1 sigma)
Weighted RMS scatter about the mean = 1.0 cm
Slope = -1.0 ± .5 cm/yr (scaled 1 sigma)
Weighted RMS scatter about the line = .7 cm

TABLE 4.106
VLBI BASELINE LENGTH EVOLUTION
OVRO 130 TO PINFLATS(7256)

DATE	LENGTH (cm)	FORMAL ERR	# OBSERVATIONS WEIGHTED	TOTAL
83 10 31	43464937.9	.6	62	67
84 10 28	43464934.8	.9	47	56
85 10 30	43464933.7	.7	53	56
86 4 10	43464934.4	.5	37	40
86 4 13	43464931.3	.4	49	50
86 11 1	43464934.6	.5	32	39
86 11 4	43464931.8	.5	32	45

LENGTH:
Mean = 43464933.6 ± .8 cm (scaled 1 sigma)
Weighted RMS scatter about the mean = 2.0 cm
Slope = -1.5 ± .6 cm/yr (scaled 1 sigma)
Weighted RMS scatter about the line = 1.4 cm

TABLE 4.107
VLBI BASELINE LENGTH EVOLUTION
OVRO 130 TO PLATTVIL(7258)

DATE	LENGTH (cm)	FORMAL ERR	# OBSERVATIONS WEIGHTED	TOTAL
83 6 6	122081878.7	2.3	9	20
83 6 7	122081874.4	1.5	36	66
84 4 26	122081873.1	.7	60	82
85 5 7	122081875.4	.5	82	87
86 4 1	122081877.7	.4	66	71
86 4 2	122081876.1	.6	13	19

LENGTH:
Mean = 122081876.2 ± .7 cm (scaled 1 sigma)
Weighted RMS scatter about the mean = 1.6 cm
Slope = 1.6 ± .5 cm/yr (scaled 1 sigma)
Weighted RMS scatter about the line = 1.0 cm

TABLE 4.108
VLBI BASELINE LENGTH EVOLUTION
OVRO 130 TO PRESIDIO(7283)

DATE	LENGTH (cm)	FORMAL ERR	# OBSERVATIONS WEIGHTED	TOTAL
83 8 25	37425830.9	.8	52	64
83 8 27	37425829.5	1.0	64	78
84 2 26	37425824.4	2.3		
85 3 10	37425832.4	.7		
85 3 13	37425834.9	.5	26	42
85 10 19	37425834.4	.3	49	51
85 10 23	37425836.0	.3	39	45

LENGTH:
Mean = 37425834.3 $\pm$ .7 cm (scaled 1 sigma)
Weighted RMS scatter about the mean = 1.7 cm
Slope = 2.3 $\pm$ .7 cm/yr (scaled 1 sigma)
Weighted RMS scatter about the line = 1.0 cm

TABLE 4.109
VLBI BASELINE LENGTH EVOLUTION
OVRO 130 TO PT REYES(7251)

DATE	LENGTH (cm)	FORMAL ERR	# OBSERVATIONS WEIGHTED	TOTAL
83 8 27	42176673.5	.6	63	74
84 2 26	42176672.7	1.4	5	56
85 3 13	42176679.2	.4	31	48
85 10 19	42176678.2	.4		

LENGTH:
Mean = 42176677.3 $\pm$ 1.4 cm (scaled 1 sigma)
Weighted RMS scatter about the mean = 2.4 cm
Slope = 2.5 $\pm$ .8 cm/yr (scaled 1 sigma)
Weighted RMS scatter about the line = 1.2 cm

TABLE 4.110
VLBI BASELINE LENGTH EVOLUTION
OVRO 130 TO PVERDES(7268)

DATE	LENGTH (cm)	FORMAL ERR	# OBSERVATIONS WEIGHTED	TOTAL
83 11 12	38709461.5	1.8	53	70
85 3 4	38709461.1	.6	36	48

LENGTH:
Mean = 38709461.1 ± .1 cm (scaled 1 sigma)
Weighted RMS scatter about the mean = .1 cm

TABLE 4.111
VLBI BASELINE LENGTH EVOLUTION
OVRO 130 TO QUINCY(7221)

DATE	LENGTH (cm)	FORMAL ERR	# OBSERVATIONS WEIGHTED	TOTAL
82 10 21	38269631.4	1.9	46	67
82 10 23	38269635.8	.6	72	96
83 6 27	38269633.6	.8	43	54
84 4 12	38269633.7	.8	44	55
85 5 12	38269633.8	.4	48	51
85 5 14	38269633.9	.6	53	55
86 10 19	38269633.1	.4	47	50

LENGTH:
Mean = 38269633.8 ± .4 cm (scaled 1 sigma)
Weighted RMS scatter about the mean = .9 cm
Slope = -.5 ± .2 cm/yr (scaled 1 sigma)
Weighted RMS scatter about the line = .6 cm

TABLE 4.112
VLBI BASELINE LENGTH EVOLUTION
OVRO 130 TO SANPAULA(7255)

DATE	LENGTH (cm)	FORMAL ERR	# OBSERVATIONS WEIGHTED	TOTAL
83 8 31	32208016.7	1.1	59	69

TABLE 4.113
VLBI BASELINE LENGTH EVOLUTION
OVRO 130 TO VNDNBERG(7111)

DATE	LENGTH (cm)	FORMAL ERR	# OBSERVATIONS WEIGHTED	TOTAL
83 8 22	36398034.6	1.0	24	47
83 8 25	36398033.3	.6	51	59
83 8 27	36398032.6	.6	73	83
83 8 31	36398031.1	1.0	39	63
83 10 31	36398035.8	.6	37	59
83 11 12	36398030.0	3.3	13	70
84 2 20	36398033.4	.8	34	60
84 2 23	36398034.3	1.4	9	55
84 2 26	36398036.3	2.0	7	57
84 4 12	36398034.3	.6	41	63
84 10 22	36398032.1	.5	29	47
84 10 25	36398030.9	.5	50	54
84 10 28	36398032.8	.5	53	59
85 3 1	36398032.7	.5	34	40
85 3 4	36398033.0	.4	45	49
85 3 7	36398030.7	.4	34	48
85 3 10	36398033.3	.5	39	43
85 3 13	36398031.1	.4	39	42
85 5 12	36398031.0	.4	50	53
85 10 19	36398029.8	.4	50	52
85 10 23	36398030.8	.6	27	29
85 10 27	36398030.7	.4	37	43
85 10 30	36398032.8	.6	31	40
86 4 7	36398033.6	1.2	8	16
86 4 10	36398031.6	.5	47	50
86 4 13	36398029.8	.5	46	49
86 5 18	36398031.0	.3	45	48
86 5 21	36398031.2	.4	46	47
86 10 19	36398030.4	.3	51	53
86 10 22	36398031.9	.4	46	51
86 10 26	36398030.6	.4	48	49
86 10 29	36398031.2	.3	43	50
86 11 1	36398032.0	.3	47	51
86 11 4	36398030.1	.3	45	46

LENGTH:
Mean = 36398031.5 $\pm$ .2 cm (scaled 1 sigma)
Weighted RMS scatter about the mean = 1.2 cm
Slope = -.8 $\pm$ .2 cm/yr (scaled 1 sigma)
Weighted RMS scatter about the line = 1.0 cm

TABLE 4.114
VLBI BASELINE LENGTH EVOLUTION
OVRO 130 TO YUMA(7894)

DATE	LENGTH (cm)	FORMAL ERR	# OBSERVATIONS WEIGHTED	TOTAL
83 11 5	60398936.0	1.0	42	59
85 3 1	60398937.2	.5	38	42
86 4 10	60398938.3	.6		
86 5 21	60398937.7	.4	40	40
86 10 29	60398939.1	.3	45	49
86 11 1	60398938.2	.4	40	42

LENGTH:
Mean = 60398938.2 ± .3 cm (scaled 1 sigma)
Weighted RMS scatter about the mean = .8 cm
Slope = .9 ± .3 cm/yr (scaled 1 sigma)
Weighted RMS scatter about the line = .4 cm

TABLE 4.115
VLBI BASELINE LENGTH EVOLUTION
PBLOSSOM(7254) TO VNDNBERG(7111)

DATE	LENGTH (cm)	FORMAL ERR	# OBSERVATIONS WEIGHTED	TOTAL
83 8 22	24736248.0	.9		
84 2 20	24736250.5	.8	21	70
84 10 25	24736250.0	.5	69	101
85 3 7	24736249.8	.3	76	83
85 10 27	24736251.3	.4	55	69

LENGTH:
Mean = 24736250.1 ± .4 cm (scaled 1 sigma)
Weighted RMS scatter about the mean = .7 cm
Slope = 1.1 ± .5 cm/yr (scaled 1 sigma)
Weighted RMS scatter about the line = .5 cm

TABLE 4.116
VLBI BASELINE LENGTH EVOLUTION
PINFLATS(7256) TO VNDNBERG(7111)

DATE	LENGTH (cm)	FORMAL ERR	# OBSERVATIONS WEIGHTED	TOTAL
83 10 31	39778137.4	.7	19	71
83 11 3	39778137.0	1.0	21	49
84 10 28	39778137.0	.6	72	106
84 10 31	39778136.4	.4	56	87
85 1 18	39778136.9	1.0	85	108
85 10 30	39778138.3	.6	59	73
85 11 2	39778139.9	.4	39	89
86 4 10	39778141.3	.4	64	69
86 4 13	39778139.9	.4	73	91
86 11 1	39778142.0	.4	61	69
86 11 4	39778140.9	.4	70	89
86 12 13	39778142.0	.3	64	97
86 12 16	39778140.7	.5	80	95

LENGTH:
Mean = 39778140.2 ± .6 cm (scaled 1 sigma)
Weighted RMS scatter about the mean = 1.9 cm
Slope = 2.0 ± .3 cm/yr (scaled 1 sigma)
Weighted RMS scatter about the line = .8 cm

TABLE 4.117
VLBI BASELINE LENGTH EVOLUTION
PINFLATS(7256) TO YUMA(7894)

DATE	LENGTH (cm)	FORMAL ERR	# OBSERVATIONS WEIGHTED	TOTAL
83 11 3	22291045.0	1.5	12	63
84 10 31	22291047.3	1.0	9	96
85 11 2	22291048.4	.6		
86 4 10	22291049.5	.5		
86 11 1	22291050.1	.4	16	25
86 12 13	22291052.2	.3		

LENGTH:
Mean = 22291050.4 ± .7 cm (scaled 1 sigma)
Weighted RMS scatter about the mean = 1.7 cm
Slope = 2.3 ± .6 cm/yr (scaled 1 sigma)
Weighted RMS scatter about the line = .8 cm

TABLE 4.118
VLBI BASELINE LENGTH EVOLUTION
PLATTVIL(7258) TO VERNAL(7290)

DATE	LENGTH (cm)	FORMAL ERR	# OBSERVATIONS WEIGHTED	TOTAL
86 3 30	41242520.0	.5	35	56

TABLE 4.119
VLBI BASELINE LENGTH EVOLUTION
PLATTVIL(7258) TO WESTFORD

DATE	LENGTH (cm)	FORMAL ERR	# OBSERVATIONS WEIGHTED	TOTAL
83 6 6	275286267.6	3.4	4	20
83 6 9	275286268.2	2.1	23	90
85 5 7	275286264.6	.8	47	73
86 4 1	275286268.6	.7	75	79

LENGTH:
Mean = 275286267.0 $\pm$ 1.1 cm (scaled 1 sigma)
Weighted RMS scatter about the mean = 1.9 cm
Slope = .9 $\pm$ 1.3 cm/yr (scaled 1 sigma)
Weighted RMS scatter about the line = 1.8 cm

TABLE 4.120
VLBI BASELINE LENGTH EVOLUTION
PRESIDIO(7283) TO PT REYES(7251)

DATE	LENGTH (cm)	FORMAL ERR	# OBSERVATIONS WEIGHTED	TOTAL
83 8 27	5372724.3	1.1	12	72
84 2 26	5372724.7	3.5		
85 3 13	5372723.3	.6	2	31
85 10 19	5372723.3	.5		

LENGTH:
Mean = 5372723.4 $\pm$ .2 cm (scaled 1 sigma)
Weighted RMS scatter about the mean = .4 cm
Slope = -.5 $\pm$ .2 cm/yr (scaled 1 sigma)
Weighted RMS scatter about the line = .2 cm

TABLE 4.121
VLBI BASELINE LENGTH EVOLUTION
PRESIDIO(7283) TO VNDNBERG(7111)

DATE	LENGTH (cm)	FORMAL ERR	# OBSERVATIONS WEIGHTED	TOTAL
83 8 25	39658010.1	1.2	18	72
83 8 27	39658008.9	1.2	10	79
84 2 26	39658015.0	4.3		
85 3 10	39658012.8	1.1		
85 3 13	39658011.6	.7	19	84
85 10 19	39658009.1	.4	89	94
85 10 23	39658009.8	.6	26	49

LENGTH:
Mean = 39658010.0 ± .5 cm (scaled 1 sigma)
Weighted RMS scatter about the mean = 1.2 cm
Slope = -.5 ± .7 cm/yr (scaled 1 sigma)
Weighted RMS scatter about the line = 1.2 cm

TABLE 4.122
VLBI BASELINE LENGTH EVOLUTION
PT REYES(7251) TO VNDNBERG(7111)

DATE	LENGTH (cm)	FORMAL ERR	# OBSERVATIONS WEIGHTED	TOTAL
83 8 27	44523336.6	.7	26	72
84 2 26	44523339.1	1.5	18	57
85 3 13	44523338.5	.6	50	84
85 10 19	44523336.1	.6		

LENGTH:
Mean = 44523337.3 ± .7 cm (scaled 1 sigma)
Weighted RMS scatter about the mean = 1.1 cm
Slope = -.1 ± .8 cm/yr (scaled 1 sigma)
Weighted RMS scatter about the line = 1.1 cm

TABLE 4.123
VLBI BASELINE LENGTH EVOLUTION
PVERDES(7268) TO VNDNBERG(7111)

DATE	LENGTH (cm)	FORMAL ERR	# OBSERVATIONS WEIGHTED	TOTAL
83 11 12	22306517.9	2.2	3	70
85 3 4	22306512.7	.5	50	84

LENGTH:
Mean = 22306512.9 ± 1.1 cm (scaled 1 sigma)
Weighted RMS scatter about the mean = 1.1 cm

TABLE 4.124
VLBI BASELINE LENGTH EVOLUTION
SANPAULA(7255) TO VNDNBERG(7111)

DATE	LENGTH (cm)	FORMAL ERR	# OBSERVATIONS WEIGHTED	TOTAL
83 8 31	14977647.3	1.0	13	74
84 2 29	14977656.0	1.7		
85 1 9	14977647.6	.5	45	82

LENGTH:
Mean = 14977648.1 ± 1.5 cm (scaled 1 sigma)
Weighted RMS scatter about the mean = 2.2 cm
Slope = -.9 ± 2.7 cm/yr (scaled 1 sigma)
Weighted RMS scatter about the line = 2.1 cm

TABLE 4.125
VLBI BASELINE LENGTH EVOLUTION
SNDPOINT(7280) TO VNDNBERG(7111)

DATE	LENGTH (cm)	FORMAL ERR	# OBSERVATIONS WEIGHTED	TOTAL
84 7 14	376366416.7	4.3		
85 7 25	376366404.3	1.4	108	157
86 7 31	376366402.2	1.2	66	162

LENGTH:
Mean = 376366403.6 ± 2.0 cm (scaled 1 sigma)
Weighted RMS scatter about the mean = 2.9 cm
Slope = -4.0 ± 2.0 cm/yr (scaled 1 sigma)
Weighted RMS scatter about the line = 1.7 cm

TABLE 4.126
VLBI BASELINE LENGTH EVOLUTION
SOURDOGH(7281) TO VNDNBERG(7111)

DATE	LENGTH (cm)	FORMAL ERR	# OBSERVATIONS WEIGHTED	TOTAL
84 7 31	352701703.6	1.9	27	123
84 8 7	352701715.9	1.8	54	136
85 8 5	352701702.6	1.2	124	174
85 8 12	352701704.3	1.3	97	146
86 8 11	352701699.3	1.3	61	111
86 8 13	352701700.2	1.2	86	134
86 8 18	352701699.6	1.1	83	140
86 8 20	352701698.7	1.1	70	131

LENGTH:
Mean = 352701701.8 $\pm$ 1.6 cm (scaled 1 sigma)
Weighted RMS scatter about the mean = 4.2 cm
Slope = -4.9 $\pm$ 1.2 cm/yr (scaled 1 sigma)
Weighted RMS scatter about the line = 2.3 cm

TABLE 4.127
VLBI BASELINE LENGTH EVOLUTION
SOURDOGH(7281) TO WHTHORSE(7284)

DATE	LENGTH (cm)	FORMAL ERR	# OBSERVATIONS WEIGHTED	TOTAL
84 8 7	59131658.2	1.6	7	217
86 8 18	59131658.1	.5		
86 8 20	59131657.9	.5		

LENGTH:
Mean = 59131658.0 $\pm$ .1 cm (scaled 1 sigma)
Weighted RMS scatter about the mean = .1 cm

TABLE 4.128
VLBI BASELINE LENGTH EVOLUTION
SOURDOGH(7281) TO YAKATAGA(7277)

DATE	LENGTH (cm)	FORMAL ERR	# OBSERVATIONS WEIGHTED	TOTAL
84 7 31	32929926.5	.7	29	225
85 8 5	32929923.8	.5	39	189
86 8 11	32929920.9	.6		
86 8 13	32929918.8	.7		

LENGTH:
Mean = 32929922.6 ± 1.5 cm (scaled 1 sigma)
Weighted RMS scatter about the mean = 2.6 cm
Slope = -3.2 ± .6 cm/yr (scaled 1 sigma)
Weighted RMS scatter about the line = .7 cm

TABLE 4.129
VLBI BASELINE LENGTH EVOLUTION
VNDNBERG(7111) TO WHTHORSE(7284)

DATE	LENGTH (cm)	FORMAL ERR	# OBSERVATIONS WEIGHTED	TOTAL
84 8 7	305839573.5	3.3	3	120
86 8 18	305839560.1	1.1	83	137
86 8 20	305839563.1	1.1	66	124

LENGTH:
Mean = 305839562.2 ± 2.1 cm (scaled 1 sigma)
Weighted RMS scatter about the mean = 3.0 cm

TABLE 4.130
VLBI BASELINE LENGTH EVOLUTION
VNDNBERG(7111) TO YAKATAGA(7277)

DATE	LENGTH (cm)	FORMAL ERR	# OBSERVATIONS WEIGHTED	TOTAL
84 7 31	321477218.7	1.4	12	120
85 8 5	321477218.2	1.2	97	173
86 8 11	321477218.4	1.2	62	113
86 8 13	321477215.7	1.3	67	113

LENGTH:
Mean = 321477217.7 ± .7 cm (scaled 1 sigma)
Weighted RMS scatter about the mean = 1.2 cm
Slope = -.8 ± .7 cm/yr (scaled 1 sigma)
Weighted RMS scatter about the line = 1.0 cm

TABLE 4.131
VLBI BASELINE LENGTH EVOLUTION
VNDNBERG(7111) TO YUMA(7894)

DATE	LENGTH (cm)	FORMAL ERR	# OBSERVATIONS WEIGHTED	TOTAL
83 11 3	62034171.1	1.6	15	74
84 10 31	62034173.3	1.0	23	102
85 3 1	62034175.7	.4	76	82
85 11 2	62034177.7	.6	33	92
85 11 5	62034178.7	.4	81	101
86 4 10	62034179.6	.5	68	77
86 5 21	62034179.5	.4	96	97
86 10 29	62034181.2	.3	92	92
86 11 1	62034181.6	.3	73	78
86 12 10	62034183.0	.5	60	71
86 12 13	62034183.8	.3	76	97

LENGTH:
Mean = 62034180.3 ± .8 cm (scaled 1 sigma)
Weighted RMS scatter about the mean = 2.6 cm
Slope = 3.9 ± .4 cm/yr (scaled 1 sigma)
Weighted RMS scatter about the line = .7 cm

TABLE 5.1
VLBI BASELINE TRANSVERSE EVOLUTION
BLKBUTTE(7269) TO HRAS 085

DATE	TRANSVERSE (cm)	FORMAL ERR	# OBSERVATIONS WEIGHTED	TOTAL
86 5 18	2.4	.3	70	72
86 10 26	1.1	.3		

TRANSVERSE:
Mean = 1.8 ± .7 cm (scaled 1 sigma)
Weighted RMS scatter about the mean = .7 cm

TABLE 5.2
VLBI BASELINE TRANSVERSE EVOLUTION
BLKBUTTE(7269) TO MOJAVE12

DATE	TRANSVERSE (cm)	FORMAL ERR	# OBSERVATIONS WEIGHTED	TOTAL
84 3 3	5.3	.6	90	92
85 1 12	6.4	.7	79	96
85 1 15	7.3	.6	82	93
86 5 18	7.5	.3	83	84
86 10 26	7.5	.2	100	100

TRANSVERSE:
Mean = 7.3 ± .3 cm (scaled 1 sigma)
Weighted RMS scatter about the mean = .5 cm
Slope = .6 ± .2 cm/yr (scaled 1 sigma)
Weighted RMS scatter about the line = .3 cm

TABLE 5.3
VLBI BASELINE TRANSVERSE EVOLUTION
BLKBUTTE(7269) TO MON PEAK(7274)

DATE	TRANSVERSE (cm)	FORMAL ERR	# OBSERVATIONS WEIGHTED	TOTAL
85 1 12	323.8	1.3	8	55
86 5 18	327.4	.3		
86 10 26	328.5	.4		

TRANSVERSE:
Mean = 327.8 ± .6 cm (scaled 1 sigma)
Weighted RMS scatter about the mean = .9 cm
Slope = 2.6 ± .1 cm/yr (scaled 1 sigma)
Weighted RMS scatter about the line = .1 cm

TABLE 5.4
VLBI BASELINE TRANSVERSE EVOLUTION
BLKBUTTE(7269) TO OCOTILLO(7270)

DATE	TRANSVERSE (cm)	FORMAL ERR	# OBSERVATIONS WEIGHTED	TOTAL
84 3 3	-9.8	1.5	11	41
85 1 15	-11.6	.6	16	91

TRANSVERSE:
Mean = -11.3 ± .6 cm (scaled 1 sigma)
Weighted RMS scatter about the mean = .6 cm

TABLE 5.5
VLBI BASELINE TRANSVERSE EVOLUTION
BLKBUTTE(7269) TO OVRO 130

DATE	TRANSVERSE (cm)	FORMAL ERR	# OBSERVATIONS WEIGHTED	TOTAL
86 5 18	6.8	.3	37	40
86 10 26	7.7	.2	49	51

TRANSVERSE:
Mean = 7.3 ± .5 cm (scaled 1 sigma)
Weighted RMS scatter about the mean = .5 cm

TABLE 5.6
VLBI BASELINE TRANSVERSE EVOLUTION
BLKBUTTE(7269) TO VNDNBERG(7111)

DATE	TRANSVERSE (cm)	FORMAL ERR	# OBSERVATIONS WEIGHTED	TOTAL
84 3 3	6.3	2.2	2	84
85 1 12	8.9	1.0	48	83
85 1 15	10.4	.8	71	91
86 5 18	13.5	.4	79	83
86 10 26	15.6	.4	94	97

TRANSVERSE:
Mean = 13.8 ± 1.0 cm (scaled 1 sigma)
Weighted RMS scatter about the mean = 2.1 cm
Slope = 3.2 ± .3 cm/yr (scaled 1 sigma)
Weighted RMS scatter about the line = .4 cm

TABLE 5.7
VLBI BASELINE TRANSVERSE EVOLUTION
DEADMANL(7267) TO MOJAVE12

DATE	TRANSVERSE (cm)	FORMAL ERR	# OBSERVATIONS WEIGHTED	TOTAL
84 2 29	-142.4	2.5	65	79
85 1 9	-140.6	1.5	42	94

TRANSVERSE:
Mean = -141.1 ± .8 cm (scaled 1 sigma)
Weighted RMS scatter about the mean = .8 cm

TABLE 5.8
VLBI BASELINE TRANSVERSE EVOLUTION
DEADMANL(7267) TO SANPAULA(7255)

DATE	TRANSVERSE (cm)	FORMAL ERR	# OBSERVATIONS WEIGHTED	TOTAL
84 2 29	123.2	3.5		
85 1 9	122.9	2.0	3	78

TRANSVERSE:
Mean = 122.9 ± .1 cm (scaled 1 sigma)
Weighted RMS scatter about the mean = .1 cm

TABLE 5.9
VLBI BASELINE TRANSVERSE EVOLUTION
DEADMANL(7267) TO VNDNBERG(7111)

DATE	TRANSVERSE (cm)	FORMAL ERR	# OBSERVATIONS WEIGHTED	TOTAL
84 2 29	118.0	3.3	7	81
85 1 9	120.1	2.0	16	81

TRANSVERSE:
Mean = 119.6 ± .9 cm (scaled 1 sigma)
Weighted RMS scatter about the mean = .9 cm

TABLE 5.10
VLBI BASELINE TRANSVERSE EVOLUTION
ELY(7286) TO HATCREEK

DATE	TRANSVERSE (cm)	FORMAL ERR	# OBSERVATIONS WEIGHTED	TOTAL
85 5 6	-.1	.5	57	63
86 4 2	2.3	.4	54	57

TRANSVERSE:
Mean = 1.2 ± 1.2 cm (scaled 1 sigma)
Weighted RMS scatter about the mean = 1.2 cm

TABLE 5.11
VLBI BASELINE TRANSVERSE EVOLUTION
ELY(7286) TO HRAS 085

DATE	TRANSVERSE (cm)	FORMAL ERR	# OBSERVATIONS WEIGHTED	TOTAL
84 4 22	2.9	.6	57	78
85 5 6	3.2	.4	73	77
86 4 2	3.4	.4	56	63

TRANSVERSE:
Mean = 3.2 ± .1 cm (scaled 1 sigma)
Weighted RMS scatter about the mean = .2 cm
Slope = .2 ± .0 cm/yr (scaled 1 sigma)
Weighted RMS scatter about the line = .0 cm

TABLE 5.12
VLBI BASELINE TRANSVERSE EVOLUTION
ELY(7286) TO MOJAVE12

DATE	TRANSVERSE (cm)	FORMAL ERR	# OBSERVATIONS WEIGHTED	TOTAL
84 4 22	3.7	.6	69	76
85 5 6	4.1	.3	74	76
86 4 2	4.9	.3	48	57

TRANSVERSE:
Mean = 4.5 ± .3 cm (scaled 1 sigma)
Weighted RMS scatter about the mean = .5 cm
Slope = .7 ± .1 cm/yr (scaled 1 sigma)
Weighted RMS scatter about the line = .1 cm

TABLE 5.13
VLBI BASELINE TRANSVERSE EVOLUTION
ELY(7286) TO OVRO 130

DATE	TRANSVERSE (cm)	FORMAL ERR	# OBSERVATIONS WEIGHTED	TOTAL
86 4 2	4.2	.3	44	54

TABLE 5.14
VLBI BASELINE TRANSVERSE EVOLUTION
FLAGSTAF(7261) TO HATCREEK

DATE	TRANSVERSE (cm)	FORMAL ERR	# OBSERVATIONS WEIGHTED	TOTAL
84 4 17	5.0	1.0	30	59
85 5 2	3.4	.4	89	94
86 3 26	4.4	.4	53	59

TRANSVERSE:
Mean = 4.0 ± .4 cm (scaled 1 sigma)
Weighted RMS scatter about the mean = .6 cm
Slope = .3 ± .7 cm/yr (scaled 1 sigma)
Weighted RMS scatter about the line = .6 cm

TABLE 5.15
VLBI BASELINE TRANSVERSE EVOLUTION
FLAGSTAF(7261) TO HRAS 085

DATE	TRANSVERSE (cm)	FORMAL ERR	# OBSERVATIONS WEIGHTED	TOTAL
84 4 17	-2.1	1.0	19	62
85 5 2	-3.4	.4	90	97
86 3 26	-3.5	.4	60	60

TRANSVERSE:
Mean = -3.3 ± .2 cm (scaled 1 sigma)
Weighted RMS scatter about the mean = .3 cm
Slope = -.4 ± .3 cm/yr (scaled 1 sigma)
Weighted RMS scatter about the line = .2 cm

TABLE 5.16
VLBI BASELINE TRANSVERSE EVOLUTION
FLAGSTAF(7261) TO MOJAVE12

DATE	TRANSVERSE (cm)	FORMAL ERR	# OBSERVATIONS WEIGHTED	TOTAL
84 4 17	4.7	1.2	34	65
85 5 2	5.4	.5	86	92
86 3 26	5.6	.4	45	47

TRANSVERSE:
Mean = 5.5 ± .2 cm (scaled 1 sigma)
Weighted RMS scatter about the mean = .2 cm
Slope = .3 ± .1 cm/yr (scaled 1 sigma)
Weighted RMS scatter about the line = .1 cm

TABLE 5.17
VLBI BASELINE TRANSVERSE EVOLUTION
FORT ORD(7266) TO HATCREEK

DATE	TRANSVERSE (cm)	FORMAL ERR	# OBSERVATIONS WEIGHTED	TOTAL
84 2 23	-71.7	.7	34	42
85 3 10	-69.7	.3	42	47
85 10 23	-66.7	.4	59	66

TRANSVERSE:
Mean = -69.2 ± 1.1 cm (scaled 1 sigma)
Weighted RMS scatter about the mean = 1.5 cm
Slope = 3.2 ± .8 cm/yr (scaled 1 sigma)
Weighted RMS scatter about the line = .5 cm

TABLE 5.18
VLBI BASELINE TRANSVERSE EVOLUTION
FORT ORD(7266) TO MOJAVE12

DATE	TRANSVERSE (cm)	FORMAL ERR	# OBSERVATIONS WEIGHTED	TOTAL
84 2 23	-218.6	.9	40	49
85 3 10	-216.0	.4	59	75
85 10 23	-212.9	.6	92	99

TRANSVERSE:
Mean = -215.4 ± 1.2 cm (scaled 1 sigma)
Weighted RMS scatter about the mean = 1.8 cm
Slope = 3.5 ± .6 cm/yr (scaled 1 sigma)
Weighted RMS scatter about the line = .4 cm

TABLE 5.19
VLBI BASELINE TRANSVERSE EVOLUTION
FORT ORD(7266) TO OVRO 130

DATE	TRANSVERSE (cm)	FORMAL ERR	# OBSERVATIONS WEIGHTED	TOTAL
84 2 23	-256.7	1.5		
85 3 10	-250.6	.5	36	38
85 10 23	-244.9	.7		

TRANSVERSE:
Mean = -249.1 ± 2.3 cm (scaled 1 sigma)
Weighted RMS scatter about the mean = 3.3 cm
Slope = 7.6 ± 1.0 cm/yr (scaled 1 sigma)
Weighted RMS scatter about the line = .6 cm

TABLE 5.20
VLBI BASELINE TRANSVERSE EVOLUTION
FORT ORD(7266) TO VNDNBERG(7111)

DATE	TRANSVERSE (cm)	FORMAL ERR	# OBSERVATIONS WEIGHTED	TOTAL
84 2 23	-46.9	.9	6	33
85 3 10	-44.3	.4	64	73
85 10 23	-44.0	.6		

TRANSVERSE:
Mean = -44.5 ± .6 cm (scaled 1 sigma)
Weighted RMS scatter about the mean = .9 cm
Slope = 1.7 ± .5 cm/yr (scaled 1 sigma)
Weighted RMS scatter about the line = .3 cm

TABLE 5.21
VLBI BASELINE TRANSVERSE EVOLUTION
GILCREEK TO KODIAK(7278)

DATE	TRANSVERSE (cm)	FORMAL ERR	# OBSERVATIONS WEIGHTED	TOTAL
84 7 23	5.0	1.1	108	256
85 7 18	8.8	.5	136	143
86 7 22	10.7	.4	144	147
86 7 24	10.2	.4	122	124

TRANSVERSE:
Mean = 9.8 ± .7 cm (scaled 1 sigma)
Weighted RMS scatter about the mean = 1.3 cm
Slope = 2.1 ± .4 cm/yr (scaled 1 sigma)
Weighted RMS scatter about the line = .4 cm

TABLE 5.22
VLBI BASELINE TRANSVERSE EVOLUTION
GILCREEK TO NOME(7279)

DATE	TRANSVERSE (cm)	FORMAL ERR	# OBSERVATIONS WEIGHTED	TOTAL
84 7 14	-262.0	.4	225	254
84 7 23	-259.8	.4	211	228
85 7 18	-259.8	.8	145	160
85 7 25	-259.6	.6	126	176
86 7 22	-261.9	.6	95	116
86 7 24	-259.9	.5	110	128
86 7 31	-260.1	.4	166	172

TRANSVERSE:
Mean = -260.6 ± .4 cm (scaled 1 sigma)
Weighted RMS scatter about the mean = 1.0 cm
Slope = .3 ± .4 cm/yr (scaled 1 sigma)
Weighted RMS scatter about the line = 1.0 cm

TABLE 5.23
VLBI BASELINE TRANSVERSE EVOLUTION
GILCREEK TO SNDPOINT(7280)

DATE	TRANSVERSE (cm)	FORMAL ERR	# OBSERVATIONS WEIGHTED	TOTAL
84 7 14	11.4	2.6	49	88
85 7 25	15.9	.5	143	161
86 7 31	14.2	.4	157	165

TRANSVERSE:
Mean = 14.9 ± .6 cm (scaled 1 sigma)
Weighted RMS scatter about the mean = .9 cm
Slope = -1.2 ± .9 cm/yr (scaled 1 sigma)
Weighted RMS scatter about the line = .7 cm

TABLE 5.24
VLBI BASELINE TRANSVERSE EVOLUTION
GILCREEK TO SOURDOGH(7281)

DATE	TRANSVERSE (cm)	FORMAL ERR	# OBSERVATIONS WEIGHTED	TOTAL
84 7 31	25.7	.2	200	222
84 8 7	26.1	.8	233	261
85 8 5	26.3	.3	175	191
85 8 12	26.5	.2	166	186
86 8 11	25.8	.3	134	145
86 8 13	26.6	.3	130	137
86 8 18	25.9	.3	146	147
86 8 20	26.3	.2	133	140

TRANSVERSE:
Mean = 26.2 $\pm$ .1 cm (scaled 1 sigma)
Weighted RMS scatter about the mean = .3 cm
Slope = .1 $\pm$ .1 cm/yr (scaled 1 sigma)
Weighted RMS scatter about the line = .3 cm

TABLE 5.25
VLBI BASELINE TRANSVERSE EVOLUTION
GILCREEK TO WHTHORSE(7284)

DATE	TRANSVERSE (cm)	FORMAL ERR	# OBSERVATIONS WEIGHTED	TOTAL
84 8 7	5.1	1.3	94	227
86 8 18	3.6	.4	138	140
86 8 20	3.5	.3	116	126

TRANSVERSE:
Mean = 3.6 $\pm$ .2 cm (scaled 1 sigma)
Weighted RMS scatter about the mean = .3 cm

TABLE 5.26
VLBI BASELINE TRANSVERSE EVOLUTION
GILCREEK TO YAKATAGA(7277)

DATE	TRANSVERSE (cm)	FORMAL ERR	# OBSERVATIONS WEIGHTED	TOTAL
84 7 31	19.3	.6	153	211
85 8 5	18.8	.3	185	193
86 8 11	19.3	.3	143	148
86 8 13	20.3	.4	104	117

TRANSVERSE:
Mean = 19.3 ± .3 cm (scaled 1 sigma)
Weighted RMS scatter about the mean = .5 cm
Slope = .3 ± .4 cm/yr (scaled 1 sigma)
Weighted RMS scatter about the line = .5 cm

TABLE 5.27
VLBI BASELINE TRANSVERSE EVOLUTION
HATCREEK TO MOJAVE12

DATE	TRANSVERSE (cm)	FORMAL ERR	# OBSERVATIONS WEIGHTED	TOTAL
84 2 23	.5	.4	63	71
84 2 24	2.9	.9	105	111
84 2 26	.3	.6	40	55
84 4 12	.2	.2	68	73
84 4 17	1.4	.4	92	100
84 4 25	.4	.3	70	75
84 4 26	-.0	.4	68	89
85 3 1	-.5	.5	17	20
85 3 10	-1.8	.3	49	54
85 5 2	-.5	.2	89	100
85 5 6	.2	.2	80	91
85 5 7	1.2	.4	77	89
85 5 12	1.5	.2	62	65
85 5 15	.5	.3	103	114
85 9 30	1.1	.3	93	118
85 10 19	.4	.3	64	65
85 10 23	.7	.3	59	68
85 12 12	.3	.2	52	58
86 3 26	.1	.3	40	43
86 3 30	1.5	.4	51	56
86 4 1	.2	.4	50	56
86 4 2	.9	.3	46	51

86	4	7	-.3	.2	55	57
86	4	8	.7	.5		
86	5	21	-.6	.2	47	55
86	10	19	-1.0	.5	37	64
86	10	23	.6	.4		
86	10	29	.5	.5	41	62
86	10	31	.3	.4		
86	12	10	1.1	.4	56	57

TRANSVERSE:
Mean = .3 ± .1 cm (scaled 1 sigma)
Weighted RMS scatter about the mean = .8 cm
Slope = -.0 ± .2 cm/yr (scaled 1 sigma)
Weighted RMS scatter about the line = .8 cm

TABLE 5.28
VLBI BASELINE TRANSVERSE EVOLUTION
HATCREEK TO MON PEAK(7274)

DATE			TRANSVERSE (cm)	FORMAL ERR	# OBSERVATIONS WEIGHTED	TOTAL
84	4	12	-311.9	.3	65	69
85	3	1	-311.1	.5	18	20
85	5	12	-308.5	.5		
85	12	12	-311.2	.4	48	55
86	4	7	-308.1	.4	40	42
86	5	21	-308.8	.3	45	46
86	10	19	-309.7	.5		
86	10	29	-307.3	.5	44	59
86	12	10	-307.6	.4	57	58

TRANSVERSE:
Mean = -309.5 ± .6 cm (scaled 1 sigma)
Weighted RMS scatter about the mean = 1.7 cm
Slope = 1.4 ± .4 cm/yr (scaled 1 sigma)
Weighted RMS scatter about the line = 1.0 cm

TABLE 5.29
VLBI BASELINE TRANSVERSE EVOLUTION
HATCREEK TO OVRO 130

DATE	TRANSVERSE (cm)	FORMAL ERR	# OBSERVATIONS WEIGHTED	TOTAL
84 2 23	-1.2	1.0	32	68
84 2 26	-.9	1.7	21	51
84 4 12	.6	.2	70	75
84 4 26	-.1	.4	69	90
85 3 1	.7	.6	11	11
85 3 10	-1.7	.4	28	29
85 5 7	2.0	.4		
85 5 12	1.7	.3	40	44
85 10 19	.8	.3	38	42
85 10 23	1.3	.4	33	42
86 4 1	2.0	.4		
86 4 2	2.0	.3	39	50
86 4 7	.6	.3	33	34
86 5 21	.6	.3	25	28
86 10 19	-.2	.5	25	40
86 10 29	.9	.5	25	37
86 10 31	.2	.5	35	59

TRANSVERSE:
Mean = .8 ± .2 cm (scaled 1 sigma)
Weighted RMS scatter about the mean = .9 cm
Slope = .3 ± .2 cm/yr (scaled 1 sigma)
Weighted RMS scatter about the line = .9 cm

TABLE 5.30
VLBI BASELINE TRANSVERSE EVOLUTION
HATCREEK TO PRESIDIO(7283)

DATE	TRANSVERSE (cm)	FORMAL ERR	# OBSERVATIONS WEIGHTED	TOTAL
84 2 26	.7	2.5	8	29
85 3 10	6.5	.6	17	54
85 10 19	8.4	.2	62	64
85 10 23	9.1	.3	59	63

TRANSVERSE:
Mean = 8.4 ± .5 cm (scaled 1 sigma)
Weighted RMS scatter about the mean = .9 cm
Slope = 4.0 ± .9 cm/yr (scaled 1 sigma)
Weighted RMS scatter about the line = .3 cm

TABLE 5.31
VLBI TRANSVERSE EVOLUTION
HATCREEK TO PT REYES(7251)

DATE	TRANSVERSE (cm)	FORMAL ERR	# OBSERVATIONS WEIGHTED	TOTAL
84 2 26	222.1	1.2	43	54
85 10 19	225.5	.4	58	65

TRANSVERSE:
Mean = 225.1 ± 1.1cm (scaled 1 sigma)
Weighted RMS scatter about the mean = 1.1 cm

TABLE 5.32
VLBI BASELINE TRANSVERSE EVOLUTION
HATCREEK TO QUINCY(7221)

DATE	TRANSVERSE (cm)	FORMAL ERR	# OBSERVATIONS WEIGHTED	TOTAL
84 4 12	-102.0	.5	53	60
85 5 12	-102.5	.4	65	69
86 10 19	-103.2	.5	22	62

TRANSVERSE:
Mean = -102.6 ± .3 cm (scaled 1 sigma)
Weighted RMS scatter about the mean = .5 cm
Slope = -.5 ± .0 cm/yr (scaled 1 sigma)
Weighted RMS scatter about the line = .0 cm

TABLE 5.33
VLBI BASELINE TRANSVERSE EVOLUTION
HATCREEK TO VERNAL(7290)

DATE	TRANSVERSE (cm)	FORMAL ERR	# OBSERVATIONS WEIGHTED	TOTAL
86 3 30	6.2	.6	47	52

TABLE 5.34
VLBI BASELINE TRANSVERSE EVOLUTION
HATCREEK TO VNDNBERG(7111)

DATE	TRANSVERSE (cm)	FORMAL ERR	# OBSERVATIONS WEIGHTED	TOTAL
84 2 23	5.5	.6	28	51
84 2 26	8.3	.6	35	54
84 4 12	6.1	.6	56	68
85 3 1	8.9	.4	16	21
85 3 10	8.7	.4		
85 5 12	10.9	.3		
85 5 15	10.6	.4	78	88
85 9 30	12.1	.3	94	112
85 10 19	11.1	.3		
85 10 23	11.5	.4		
85 12 12	11.4	.2	54	59
86 4 7	12.4	.7	9	22
86 5 21	12.1	.3		
86 10 19	12.2	.4		
86 10 23	14.5	.4		
86 10 29	12.9	.4		
86 12 10	14.7	.4	41	43

TRANSVERSE:
Mean = 11.2 ± .5 cm (scaled 1 sigma)
Weighted RMS scatter about the mean = 2.0 cm
Slope = 2.6 ± .3 cm/yr (scaled 1 sigma)
Weighted RMS scatter about the line = .8 cm

TABLE 5.35
VLBI BASELINE TRANSVERSE EVOLUTION
HATCREEK TO YUMA(7894)

DATE	TRANSVERSE (cm)	FORMAL ERR	# OBSERVATIONS WEIGHTED	TOTAL
85 3 1	-1.3	.5	18	21
86 5 21	-.5	.3	46	48
86 10 29	.8	.5	42	58
86 12 10	.6	.4	53	56

TRANSVERSE:
Mean = -.1 ± .4 cm (scaled 1 sigma)
Weighted RMS scatter about the mean = .7 cm
Slope = 1.1 ± .3 cm/yr (scaled 1 sigma)
Weighted RMS scatter about the line = .3 cm

TABLE 5.36
VLBI BASELINE TRANSVERSE EVOLUTION
HRAS 085 TO MOJAVE12

DATE	TRANSVERSE (cm)	FORMAL ERR	# OBSERVATIONS WEIGHTED	TOTAL
84 1 4	.7	.5	205	210
84 4 12	-.1	.3	75	77
84 4 17	1.3	.4	107	107
84 4 22	-.0	.4	97	102
84 4 25	1.1	.4	81	82
84 4 26	1.2	.6	52	61
85 3 1	2.3	.4	55	58
85 3 5	-3.4	.4	146	156
85 3 10	.1	.4	53	63
85 3 13	1.4	.4	47	55
85 5 2	.8	.3	97	98
85 5 6	1.8	.3	93	104
85 5 7	2.5	.4	90	91
85 5 9	1.8	.6	137	139
85 5 12	3.2	.3	68	68
85 5 14	1.3	.3	68	71
85 8 24	1.2	.5	115	124
85 10 19	1.5	.4	66	69
85 10 23	1.3	.4	65	69
85 10 29	1.5	.5	82	82
85 11 2	2.1	.4	45	47
85 11 5	2.1	.3	67	70
85 12 12	1.7	.3	45	72
86 1 5	2.5	.6	60	72
86 2 23	1.2	.3	83	88
86 2 26	2.3	.3	69	75
86 3 26	.9	.3	44	46
86 3 30	3.0	.3	75	80
86 4 1	4.0	.4	53	59
86 4 2	3.1	.3	58	61
86 4 4	2.0	.9		
86 4 7	2.1	.3	71	73
86 4 10	.5	.3	72	80
86 5 14	2.3	.9		
86 5 18	3.8	.2	83	85
86 5 21	2.2	.3	84	85
86 10 16	2.0	.6		
86 10 19	1.3	.3	77	78
86 10 26	2.7	.2	85	89
86 10 29	3.4	.3	83	88
86 10 31	2.4	.3	212	241
86 11 1	2.7	.3	77	79
86 12 10	1.7	.4	71	75
86 12 13	1.8	.3	71	83

TABLE 5.36 (continued)
VLBI BASELINE TRANSVERSE EVOLUTION
HRAS 085 TO MOJAVE12

TRANSVERSE:
Mean = 1.9 ± .2 cm (scaled 1 sigma)
Weighted RMS scatter about the mean = 1.2 cm
Slope = .8 ± .2 cm/yr (scaled 1 sigma)
Weighted RMS scatter about the line = 1.0 cm

TABLE 5.37
VLBI BASELINE TRANSVERSE EVOLUTION
HRAS 085 TO MON PEAK(7274)

DATE	TRANSVERSE (cm)	FORMAL ERR	# OBSERVATIONS WEIGHTED	TOTAL
84 4 12	612.5	.4	67	74
85 3 1	616.4	.6	57	61
85 5 12	617.3	.6		
85 5 14	614.4	.7	65	74
85 11 5	616.6	.4	64	64
85 12 12	618.4	.5	46	74
86 1 5	617.4	.7	67	69
86 2 23	616.5	.5	59	60
86 4 7	616.3	.5	45	46
86 5 18	618.6	.4	77	79
86 5 21	617.6	.4	71	73
86 10 19	618.7	.4		
86 10 26	619.1	.4	83	85
86 10 29	619.6	.5	83	85
86 12 10	619.0	.4	73	73

TRANSVERSE:
Mean = 617.3 ± .5 cm (scaled 1 sigma)
Weighted RMS scatter about the mean = 2.0 cm
Slope = 2.3 ± .3 cm/yr (scaled 1 sigma)
Weighted RMS scatter about the line = .8 cm

TABLE 5.38
VLBI BASELINE TRANSVERSE EVOLUTION
HRAS 085 TO PINFLATS(7258)

DATE	TRANSVERSE (cm)	FORMAL ERR	# OBSERVATIONS WEIGHTED	TOTAL
85 11 2	302.1	.5	43	52
86 2 26	303.4	.8	46	52
86 4 10	301.9	.6	3	3
86 11 1	303.7	.4	60	64
86 12 13	304.5	.4	70	84

TRANSVERSE:
Mean = 303.5 ± .5 cm (scaled 1 sigma)
Weighted RMS scatter about the mean = 1.0 cm
Slope = 2.1 ± .5 cm/yr (scaled 1 sigma)
Weighted RMS scatter about the line = .5 cm

TABLE 5.39
VLBI BASELINE TRANSVERSE EVOLUTION
HRAS 085 TO PLATTVIL(7258)

DATE	TRANSVERSE (cm)	FORMAL ERR	# OBSERVATIONS WEIGHTED	TOTAL
84 4 17	-269.2	.7	49	100
84 4 22	-271.9	.9	49	94
84 4 25	-271.5	.7	29	66
84 4 26	-270.2	.6	2	48
85 5 2	-271.6	.3	100	107
85 5 6	-270.7	.4	99	105
85 5 7	-270.2	.5	81	87
86 3 26	-271.6	.3	64	66
86 3 30	-268.8	.4	71	76
86 4 1	-268.8	.2	83	86
86 4 2	-269.4	.7	23	31

TRANSVERSE:
Mean = -270.2 ± .4 cm (scaled 1 sigma)
Weighted RMS scatter about the mean = 1.2 cm
Slope = .7 ± .5 cm/yr (scaled 1 sigma)
Weighted RMS scatter about the line = 1.1 cm

TABLE 5.40
VLBI BASELINE TRANSVERSE EVOLUTION
HRAS 085 TO VERNAL(7290)

DATE	TRANSVERSE (cm)	FORMAL ERR	# OBSERVATIONS WEIGHTED	TOTAL
86 3 30	2.8	.4	61	62

TABLE 5.41
VLBI BASELINE TRANSVERSE EVOLUTION
HRAS 085 TO YUMA(7894)

DATE	TRANSVERSE (cm)	FORMAL ERR	# OBSERVATIONS WEIGHTED	TOTAL
85 3 1	3.9	.5	58	60
85 11 2	3.3	.7	50	54
85 11 5	3.6	.6	65	70
86 4 10	1.2	.6	65	74
86 5 21	2.9	.4	78	80
86 10 29	3.7	.3	81	82
86 11 1	4.2	.3	68	75
86 12 10	2.5	.5	70	72
86 12 13	2.2	.4	75	84

TRANSVERSE:
Mean = 3.2 $\pm$ .3 cm (scaled 1 sigma)
Weighted RMS scatter about the mean = .8 cm
Slope = -.3 $\pm$ .5 cm/yr (scaled 1 sigma)
Weighted RMS scatter about the line = .8 cm

TABLE 5.42
VLBI BASELINE TRANSVERSE EVOLUTION
JPL MV1(7263) TO MAMMOTHL(7255)

DATE	TRANSVERSE (cm)	FORMAL ERR	# OBSERVATIONS WEIGHTED	TOTAL
84 4 9	-172.5	.8		
84 10 22	-173.1	1.3	2	14
86 10 22	-171.7	.3		

TRANSVERSE:
Mean = -171.9 ± .3 cm (scaled 1 sigma)
Weighted RMS scatter about the mean = .4 cm
Slope = .4 ± .1 cm/yr (scaled 1 sigma)
Weighted RMS scatter about the line = .2 cm

TABLE 5.43
VLBI BASELINE TRANSVERSE EVOLUTION
JPL MV1(7263) TO MOJAVE12

DATE	TRANSVERSE (cm)	FORMAL ERR	# OBSERVATIONS WEIGHTED	TOTAL
84 2 20	1.2	1.9	24	37
84 4 9	1.0	.7	25	25
84 10 22	4.0	1.1	67	107
84 10 25	2.5	1.5	41	101
85 1 18	5.7	1.0	40	53
85 3 7	6.1	.5	50	90
85 10 27	6.9	.4	89	98
85 10 30	7.7	.5	96	97
86 4 13	9.4	.3	90	91
86 10 22	9.5	.4	74	76
86 11 4	10.3	.3	87	95
86 12 16	10.3	.4	73	79

TRANSVERSE:
Mean = 8.6 ± .7 cm (scaled 1 sigma)
Weighted RMS scatter about the mean = 2.3 cm
Slope = 3.0 ± .3 cm/yr (scaled 1 sigma)
Weighted RMS scatter about the line = .6 cm

TABLE 5.44
VLBI BASELINE TRANSVERSE EVOLUTION
JPL MV1(7263) TO OVRO 130

DATE	TRANSVERSE (cm)	FORMAL ERR	# OBSERVATIONS WEIGHTED	TOTAL
84 2 20	-150.2	1.7	17	25
84 4 9	-151.7	.6	25	25
84 10 22	-151.6	1.0	32	54
84 10 25	-152.7	1.2	32	54
85 3 7	-149.8	.4	23	48
85 10 27	-147.5	.3	48	52
85 10 30	-146.6	.5	47	57
86 4 13	-147.3	.3	48	49
86 10 22	-147.0	.3	38	42
86 11 4	-145.8	.3	46	47

TRANSVERSE:
Mean = -147.4 $\pm$ .5 cm (scaled 1 sigma)
Weighted RMS scatter about the mean = 1.6 cm
Slope = 2.0 $\pm$ .3 cm/yr (scaled 1 sigma)
Weighted RMS scatter about the line = .7 cm

TABLE 5.45
VLBI BASELINE TRANSVERSE EVOLUTION
JPL MV1(7263) TO PINFLATS(7258)

DATE	TRANSVERSE (cm)	FORMAL ERR	# OBSERVATIONS WEIGHTED	TOTAL
85 1 18	-18.6	1.3	2	89
85 10 30	-19.2	.8		
86 4 13	-18.5	.5		
86 11 4	-17.8	.5		
86 12 16	-18.2	.5	42	86

TRANSVERSE:
Mean = -18.3 $\pm$ .2 cm (scaled 1 sigma)
Weighted RMS scatter about the mean = .4 cm
Slope = .7 $\pm$ .3 cm/yr (scaled 1 sigma)
Weighted RMS scatter about the line = .3 cm

TABLE 5.46
VLBI BASELINE TRANSVERSE EVOLUTION
JPL MV1(7263) TO VNDNBERG(7111)

DATE	TRANSVERSE (cm)	FORMAL ERR	# OBSERVATIONS WEIGHTED	TOTAL
84 2 20	-174.8	2.6	7	31
84 10 22	-178.3	1.4	15	98
84 10 25	-176.8	1.7	12	102
85 1 18	-176.5	.9	63	101
85 3 7	-177.9	.6	37	90
85 10 27	-174.8	.5	56	74
85 10 30	-177.7	.8	54	73
86 4 13	-176.8	.6	83	88
86 10 22	-176.6	.5	65	73
86 11 4	-176.1	.3	93	95
86 12 16	-175.3	.5	58	84

TRANSVERSE:
Mean = -176.3 $\pm$ .3 cm (scaled 1 sigma)
Weighted RMS scatter about the mean = 1.0 cm
Slope = .5 $\pm$ .4 cm/yr (scaled 1 sigma)
Weighted RMS scatter about the line = .9 cm

TABLE 5.47
VLBI BASELINE TRANSVERSE EVOLUTION
KODIAK(7278) TO NOME(7279)

DATE	TRANSVERSE (cm)	FORMAL ERR	# OBSERVATIONS WEIGHTED	TOTAL
84 7 23	-178.5	.9	6	232
85 7 18	-176.5	.7	6	84
86 7 22	-177.7	.6		
86 7 24	-176.8	.5		

TRANSVERSE:
Mean = -177.2 $\pm$ .4 cm (scaled 1 sigma)
Weighted RMS scatter about the mean = .7 cm
Slope = .4 $\pm$ .5 cm/yr (scaled 1 sigma)
Weighted RMS scatter about the line = .7 cm

TABLE 5.48
VLBI BASELINE TRANSVERSE EVOLUTION
MAMMOTHL(7255) TO MOJAVE12

DATE	TRANSVERSE (cm)	FORMAL ERR	# OBSERVATIONS WEIGHTED	TOTAL
84 4 9	-10.1	.8	46	62
84 10 22	-11.2	.9	60	85
86 10 22	-13.1	.3	95	96

TRANSVERSE:
Mean = -12.6 ± .7 cm (scaled 1 sigma)
Weighted RMS scatter about the mean = 1.0 cm
Slope = -1.1 ± .1 cm/yr (scaled 1 sigma)
Weighted RMS scatter about the line = .1 cm

TABLE 5.49
VLBI BASELINE TRANSVERSE EVOLUTION
MAMMOTHL(7255) TO OVRO 130

DATE	TRANSVERSE (cm)	FORMAL ERR	# OBSERVATIONS WEIGHTED	TOTAL
84 4 9	-16.0	.8	48	60
84 10 22	-16.8	1.1	22	43
86 10 22	-18.5	.3	50	54

TRANSVERSE:
Mean = -18.1 ± .6 cm (scaled 1 sigma)
Weighted RMS scatter about the mean = .9 cm
Slope = -.9 ± .0 cm/yr (scaled 1 sigma)
Weighted RMS scatter about the line = .1 cm

C-2

TABLE 5.50
VLBI BASELINE TRANSVERSE EVOLUTION
MAMMOTHL(7255) TO VNDNBERG(7111)

DATE	TRANSVERSE (cm)	FORMAL ERR	# OBSERVATIONS WEIGHTED	TOTAL
84 10 22	26.1	1.1	44	75
86 10 22	30.3	.2	87	88

TRANSVERSE:
Mean = 30.1 ± .9 cm (scaled 1 sigma)
Weighted RMS scatter about the mean = .9 cm

TABLE 5.51
VLBI BASELINE TRANSVERSE EVOLUTION
MOJAVE12 TO MON PEAK(7274)

DATE	TRANSVERSE (cm)	FORMAL ERR	# OBSERVATIONS WEIGHTED	TOTAL
84 4 12	-146.4	.3	75	78
85 1 12	-145.8	1.0	50	94
85 3 1	-144.2	.3	71	86
85 5 12	-143.6	.4	95	97
85 5 14	-142.8	.5	88	101
85 11 5	-141.6	.3	91	94
85 12 12	-144.4	.3	81	91
86 1 5	-141.4	.5	85	94
86 2 23	-142.3	.3	68	68
86 4 7	-141.1	.3	48	49
86 5 18	-140.5	.3	89	89
86 5 21	-141.1	.3	81	81
86 10 19	-140.9	.2	87	95
86 10 26	-141.0	.3	96	96
86 10 29	-140.1	.3	97	97
86 12 10	-141.0	.3	96	97

TRANSVERSE:
Mean = -142.0 ± .5 cm (scaled 1 sigma)
Weighted RMS scatter about the mean = 1.8 cm
Slope = 2.1 ± .3 cm/yr (scaled 1 sigma)
Weighted RMS scatter about the line = .8 cm

TABLE 5.52
VLBI BASELINE TRANSVERSE EVOLUTION
MOJAVE12 TO OCOTILLO(7270)

DATE	TRANSVERSE (cm)	FORMAL ERR	# OBSERVATIONS WEIGHTED	TOTAL
84 3 3	.5	1.6	33	47
85 1 15	3.2	.5	81	100
85 3 4	2.0	.4	81	86

TRANSVERSE:
Mean = 2.4 $\pm$ .5 cm (scaled 1 sigma)
Weighted RMS scatter about the mean = .7 cm

TABLE 5.53
VLBI BASELINE TRANSVERSE EVOLUTION
MOJAVE12 TO OVRO 130

DATE	TRANSVERSE (cm)	FORMAL ERR	# OBSERVATIONS WEIGHTED	TOTAL
84 2 20	-.7	.5	53	70
84 2 23	1.6	.9	27	73
84 2 26	1.0	1.6	21	59
84 4 9	.2	.3	58	60
84 4 12	-.3	.2	74	76
84 4 26	.0	.2	83	96
84 10 22	-.4	.5	44	54
84 10 25	-.6	.4	52	55
84 10 28	.2	.4	53	59
85 3 1	-1.2	.4	39	44
85 3 4	-.4	.3	48	50
85 3 5	-.8	.4	121	147
85 3 7	-1.4	.3	32	48
85 3 10	-.2	.4	31	43
85 3 13	-.5	.3	32	40
85 5 7	-.8	.3	92	92
85 5 9	.6	.5	137	137
85 5 12	-.2	.2	48	56
85 5 14	-.5	.3	51	57
85 10 19	-.4	.3	48	51
85 10 23	-.5	.3	49	53
85 10 27	-.9	.3	51	53
85 10 29	-1.1	.3	131	133
85 10 30	.1	.4	52	55
86 4 1	-1.7	.3	47	56
86 4 2	-1.0	.3	16	20
86 4 4	-.8	.9	13	22
86 4 7	-.9	.2	44	46
86 4 10	-1.0	.3	48	49
86 4 13	-1.3	.2	49	49
86 5 14	-1.1	.9		
86 5 18	-.8	.2	47	49
86 5 21	-1.2	.2	44	44
86 10 16	-.9	.4	117	125
86 10 19	-.9	.2	51	53
86 10 22	-.1	.3	50	55
86 10 26	.2	.2	50	52
86 10 29	-.4	.2	45	50
86 10 31	-.0	.5		
86 11 1	.1	.2	46	49
86 11 4	-.3	.2	41	46

TRANSVERSE:
Mean = -.5 $\pm$ .1 cm (scaled 1 sigma)
Weighted RMS scatter about the mean = .5 cm
Slope = -.1 $\pm$ .1 cm/yr (scaled 1 sigma)
Weighted RMS scatter about the line = .5 cm

TABLE 5.54
VLBI BASELINE TRANSVERSE EVOLUTION
MOJAVE12 TO PBLOSSOM(7254)

DATE	TRANSVERSE (cm)	FORMAL ERR	# OBSERVATIONS WEIGHTED	TOTAL
84 2 20	-189.5	.7	58	81
84 10 25	-186.6	.5	75	99
85 3 7	-186.3	.3	73	84
85 10 27	-185.5	.5	87	91

TRANSVERSE:
Mean = -186.5 ± .6 cm (scaled 1 sigma)
Weighted RMS scatter about the mean = 1.0 cm
Slope = 2.1 ± .5 cm/yr (scaled 1 sigma)
Weighted RMS scatter about the line = .4 cm

TABLE 5.55
VLBI BASELINE TRANSVERSE EVOLUTION
MOJAVE12 TO PINFLATS(7258)

DATE	TRANSVERSE (cm)	FORMAL ERR	# OBSERVATIONS WEIGHTED	TOTAL
84 10 28	223.4	.6	86	106
84 10 31	224.4	.3	77	96
85 1 18	224.2	.9	55	59
85 10 30	225.1	.4	93	97
85 11 2	226.2	.3	65	77
86 2 26	226.4	.6	66	71
86 4 10	225.8	.3	61	68
86 4 13	225.5	.3	92	92
86 11 1	226.7	.3	59	68
86 11 4	226.0	.3	82	90
86 12 13	226.8	.2	76	96
86 12 16	226.3	.3	87	91

TRANSVERSE:
Mean = 226.0 ± .3 cm (scaled 1 sigma)
Weighted RMS scatter about the mean = .8 cm
Slope = 1.1 ± .2 cm/yr (scaled 1 sigma)
Weighted RMS scatter about the line = .4 cm

TABLE 5.56
VLBI BASELINE TRANSVERSE EVOLUTION
MOJAVE12 TO PLATTVIL(7258)

DATE	TRANSVERSE (cm)	FORMAL ERR	# OBSERVATIONS WEIGHTED	TOTAL
84 4 17	-111.8	1.0	81	103
84 4 22	-112.7	1.4	62	92
84 4 25	-111.4	1.1	42	63
84 4 26	-113.6	.7	48	83
85 5 2	-110.9	.5	96	102
85 5 6	-111.0	.6	98	106
85 5 7	-110.3	.7	68	84
86 3 26	-111.0	.4	54	55
86 3 30	-108.4	.5	72	77
86 4 1	-108.3	.4	51	58
86 4 2	-110.6	1.5	8	18

TRANSVERSE:
Mean = -110.4 $\pm$ .5 cm (scaled 1 sigma)
Weighted RMS scatter about the mean = 1.5 cm
Slope = 1.7 $\pm$ .4 cm/yr (scaled 1 sigma)
Weighted RMS scatter about the line = 1.0 cm

TABLE 5.57
VLBI BASELINE TRANSVERSE EVOLUTION
MOJAVE12 TO PRESIDIO(7283)

DATE	TRANSVERSE (cm)	FORMAL ERR	# OBSERVATIONS WEIGHTED	TOTAL
84 2 26	9.8	4.5	13	40
85 3 10	5.8	1.3	18	87
85 3 13	4.9	.7	25	82
85 10 19	4.5	.3	91	94
85 10 23	3.5	.4	83	88

TRANSVERSE:
Mean = 4.3 $\pm$ .3 cm (scaled 1 sigma)
Weighted RMS scatter about the mean = .7 cm
Slope = -2.0 $\pm$ 1.0 cm/yr (scaled 1 sigma)
Weighted RMS scatter about the line = .5 cm

TABLE 5.58
VLBI BASELINE TRANSVERSE EVOLUTION
MOJAVE12 TO PT REYES(7251)

DATE	TRANSVERSE (cm)	FORMAL ERR	# OBSERVATIONS WEIGHTED	TOTAL
84 2 26	-143.9	1.4	44	63
85 3 13	-141.4	.5	68	85
85 10 19	-141.3	.5	89	99

TRANSVERSE:
Mean = -141.5 ± .5 cm (scaled 1 sigma)
Weighted RMS scatter about the mean = .6 cm
Slope = 1.2 ± .6 cm/yr (scaled 1 sigma)
Weighted RMS scatter about the line = .4 cm

TABLE 5.59
VLBI BASELINE TRANSVERSE EVOLUTION
MOJAVE12 TO PVERDES(7268)

DATE	TRANSVERSE (cm)	FORMAL ERR	# OBSERVATIONS WEIGHTED	TOTAL
85 3 4	61.5	.5	64	88

TABLE 5.60
VLBI BASELINE TRANSVERSE EVOLUTION
MOJAVE12 TO QUINCY(7221)

DATE	TRANSVERSE (cm)	FORMAL ERR	# OBSERVATIONS WEIGHTED	TOTAL
84 4 12	54.8	.5	58	69
85 5 12	56.7	.4	86	90
85 5 14	56.1	.5	89	95
86 10 19	55.0	.4	89	96

TRANSVERSE:
Mean = 55.7 ± .5 cm (scaled 1 sigma)
Weighted RMS scatter about the mean = .8 cm
Slope = -.3 ± .5 cm/yr (scaled 1 sigma)
Weighted RMS scatter about the line = .8 cm

TABLE 5.61
VLBI BASELINE TRANSVERSE EVOLUTION
MOJAVE12 TO SANPAULA(7255)

DATE	TRANSVERSE (cm)	FORMAL ERR	# OBSERVATIONS WEIGHTED	TOTAL
84 2 29	7.5	1.9	31	43
85 1 9	8.6	.7	87	96

TRANSVERSE:
Mean = 8.5 ± .4 cm (scaled 1 sigma)
Weighted RMS scatter about the mean = .4 cm

TABLE 5.62
VLBI BASELINE TRANSVERSE EVOLUTION
MOJAVE12 TO VERNAL(7290)

DATE	TRANSVERSE (cm)	FORMAL ERR	# OBSERVATIONS WEIGHTED	TOTAL
86 3 30	5.9	.5	59	63

TABLE 5.63
VLBI BASELINE TRANSVERSE EVOLUTION
MOJAVE12 TO VNDNBERG(7111)

DATE	TRANSVERSE (cm)	FORMAL ERR	# OBSERVATIONS WEIGHTED	TOTAL
84 2 20	9.8	.6	50	72
84 2 23	10.1	.6	32	56
84 2 26	9.5	.7	40	61
84 2 29	13.9	1.4	62	102
84 3 3	12.6	2.3	41	92
84 4 12	7.5	.6	41	69
84 7 7	12.8	.9	72	129
84 7 21	13.1	.7	115	131
84 7 22	10.0	.5	120	133
84 10 22	12.3	.7	66	98
84 10 25	13.3	.5	99	107
84 10 28	11.9	.3	103	109
84 10 31	12.5	.5	94	102
85 1 9	13.2	.5	78	100
85 1 12	12.8	.4	74	86
85 1 15	14.7	.5	91	98
85 1 18	14.3	.9	51	60
85 3 1	12.2	.4	70	80
85 3 4	12.2	.4	83	86
85 3 7	13.2	.3	89	91
85 3 10	13.4	.4	70	88
85 3 13	15.2	.4	61	81
85 5 12	15.0	.3	94	96
85 5 15	14.9	.4	98	104
85 7 6	14.8	.5	184	196
85 7 20	15.7	.8	118	123
85 7 27	15.9	.6	122	165
85 8 10	16.5	.7	107	115
85 9 30	15.3	.3	125	140
85 10 19	17.0	.4	96	98
85 10 23	16.3	.5	58	59
85 10 27	16.2	.3	68	77
85 10 30	14.1	.6	56	67
85 11 2	15.2	.3	30	79
85 11 5	15.9	.4	97	101
85 12 12	17.1	.3	83	92
86 4 7	14.1	1.3	18	28
86 4 10	17.1	.4	84	92
86 4 13	18.1	.5	86	89
86 5 18	18.6	.3	93	95
86 5 21	16.7	.4	98	100
86 7 5	18.2	.4	209	217
86 7 12	19.5	.6	149	161
86 7 26	18.7	.2	217	230

86	8	2	19.5	.4	175	182
86	10	19	20.0	.3	99	99
86	10	22	18.4	.3	90	91
86	10	23	18.9	.3	114	116
86	10	26	20.4	.3	93	98
86	10	29	19.1	.3	98	98
86	11	1	19.4	.2	86	92
86	11	4	19.4	.3	84	93
86	12	10	21.3	.5	72	74
86	12	13	20.3	.3	86	96
86	12	16	20.4	.4	84	87

TRANSVERSE:
Mean = 16.6 ± .4 cm (scaled 1 sigma)
Weighted RMS scatter about the mean = 3.0 cm
Slope = 3.6 ± .1 cm/yr (scaled 1 sigma)
Weighted RMS scatter about the line = .8 cm

TABLE 5.64
VLBI BASELINE TRANSVERSE EVOLUTION
MOJAVE12 TO YUMA(7894)

DATE	TRANSVERSE (cm)	FORMAL ERR	# OBSERVATIONS WEIGHTED	TOTAL
84 10 31	-.9	1.1	77	109
85 3 1	-1.0	.3	81	87
85 11 2	-.3	.5	61	83
85 11 5	-1.1	.5	91	101
86 4 10	-.3	.5	71	76
86 5 21	-.0	.3	88	91
86 10 29	.1	.2	95	95
86 11 1	-.8	.3	74	77
86 12 10	-.6	.4	93	96
86 12 13	-.5	.3	82	96

TRANSVERSE:
Mean = -.4 ± .1 cm (scaled 1 sigma)
Weighted RMS scatter about the mean = .4 cm
Slope = .3 ± .2 cm/yr (scaled 1 sigma)
Weighted RMS scatter about the line = .4 cm

TABLE 5.65
VLBI BASELINE TRANSVERSE EVOLUTION
MON PEAK(7274) TO OVRO 130

DATE	TRANSVERSE (cm)	FORMAL ERR	# OBSERVATIONS WEIGHTED	TOTAL
84 4 12	-248.3	.3	68	70
85 3 1	-247.1	.4	40	43
85 5 12	-245.7	.4	54	56
85 5 14	-245.2	.5	53	58
86 4 7	-244.0	.4	26	28
86 5 18	-243.6	.3	44	47
86 5 21	-244.5	.3		
86 10 19	-244.7	.3	47	53
86 10 26	-243.5	.3		
86 10 29	-243.1	.4		

TRANSVERSE:
Mean = -245.0 $\pm$ .6 cm (scaled 1 sigma)
Weighted RMS scatter about the mean = 1.7 cm
Slope = 1.7 $\pm$ .2 cm/yr (scaled 1 sigma)
Weighted RMS scatter about the line = .6 cm

TABLE 5.66
VLBI BASELINE TRANSVERSE EVOLUTION
MON PEAK(7274) TO QUINCY(7221)

DATE	TRANSVERSE (cm)	FORMAL ERR	# OBSERVATIONS WEIGHTED	TOTAL
84 4 12	-227.5	.6	7	60
85 5 12	-223.6	.5		
85 5 14	-223.3	.7		
86 10 19	-224.1	.4		

TRANSVERSE:
Mean = -224.5 $\pm$ .9 cm (scaled 1 sigma)
Weighted RMS scatter about the mean = 1.5 cm
Slope = 1.0 $\pm$ .7 cm/yr (scaled 1 sigma)
Weighted RMS scatter about the line = 1.2 cm

TABLE 5.67
VLBI BASELINE TRANSVERSE EVOLUTION
MON PEAK(7274) TO VNDNBERG(7111)

DATE	TRANSVERSE (cm)	FORMAL ERR	# OBSERVATIONS WEIGHTED	TOTAL
84 4 12	-568.1	.6	2	69
85 1 12	-567.9	1.5	23	83
85 3 1	-566.7	.5	52	81
85 5 12	-564.1	.5	85	96
85 11 5	-564.3	.4	90	95
85 12 12	-565.7	.5	75	90
86 4 7	-565.8	1.3	6	14
86 5 18	-562.9	.4	83	87
86 5 21	-564.7	.5		
86 10 19	-564.0	.3	91	95
86 10 26	-562.7	.4	86	94
86 10 29	-563.5	.5		
86 12 10	-563.0	.5	65	73

TRANSVERSE:
Mean = -564.3 ± .4 cm (scaled 1 sigma)
Weighted RMS scatter about the mean = 1.5 cm
Slope = 1.7 ± .3 cm/yr (scaled 1 sigma)
Weighted RMS scatter about the line = .8 cm

TABLE 5.68
VLBI BASELINE TRANSVERSE EVOLUTION
MON PEAK(7274) TO YUMA(7894)

DATE	TRANSVERSE (cm)	FORMAL ERR	# OBSERVATIONS WEIGHTED	TOTAL
85 3 1	609.7	.6	16	87
85 11 5	610.7	.6		
86 5 21	612.3	.5		
86 10 29	613.9	.5		
86 12 10	614.5	.5	42	89

TRANSVERSE:
Mean = 612.4 ± .9 cm (scaled 1 sigma)
Weighted RMS scatter about the mean = 1.8 cm
Slope = 2.7 ± .2 cm/yr (scaled 1 sigma)
Weighted RMS scatter about the line = .3 cm

TABLE 5.69
VLBI BASELINE TRANSVERSE EVOLUTION
NOME(7279) TO SNDPOINT(7280)

DATE	TRANSVERSE (cm)	FORMAL ERR	# OBSERVATIONS WEIGHTED	TOTAL
84 7 14	-91.9	2.3		
85 7 25	-87.7	.6	3	41
86 7 31	-87.6	.5		

TRANSVERSE:
Mean = -87.7 ± .5 cm (scaled 1 sigma)
Weighted RMS scatter about the mean = .7 cm
Slope = .6 ± .7 cm/yr (scaled 1 sigma)
Weighted RMS scatter about the line = .6 cm

TABLE 5.70
VLBI BASELINE TRANSVERSE EVOLUTION
OCOTILLO(7270) TO OVRO 130

DATE	TRANSVERSE (cm)	FORMAL ERR	# OBSERVATIONS WEIGHTED	TOTAL
85 3 4	2.6	.4	44	47

TABLE 5.71
VLBI BASELINE TRANSVERSE EVOLUTION
OCOTILLO(7270) TO VNDNBERG(7111)

DATE	TRANSVERSE (cm)	FORMAL ERR	# OBSERVATIONS WEIGHTED	TOTAL
84 3 3	8.9	3.1	3	41
85 1 15	18.3	.7	74	97
85 3 4	15.0	.5	80	82

TRANSVERSE:
Mean = 15.9 ± 1.3 cm (scaled 1 sigma)
Weighted RMS scatter about the mean = 1.9 cm

TABLE 5.72
VLBI BASELINE TRANSVERSE EVOLUTION
OVRO 130 TO PBLOSSOM(7254)

DATE	TRANSVERSE (cm)	FORMAL ERR	# OBSERVATIONS WEIGHTED	TOTAL
84 2 20	24.6	.7	48	70
84 10 25	26.2	.5	33	49
85 3 7	26.0	.3	28	44
85 10 27	27.5	.4	46	51

TRANSVERSE:
Mean = 26.3 ± .5 cm (scaled 1 sigma)
Weighted RMS scatter about the mean = .8 cm
Slope = 1.6 ± .4 cm/yr (scaled 1 sigma)
Weighted RMS scatter about the line = .3 cm

TABLE 5.73
VLBI BASELINE TRANSVERSE EVOLUTION
OVRO 130 TO PINFLATS(7258)

DATE	TRANSVERSE (cm)	FORMAL ERR	# OBSERVATIONS WEIGHTED	TOTAL
84 10 28	143.1	.7	47	56
85 10 30	144.6	.5	53	56
86 4 10	144.0	.4	37	40
86 4 13	143.3	.3	49	50
86 11 1	146.1	.3	32	39
86 11 4	144.9	.3	32	45

TRANSVERSE:
Mean = 144.6 ± .5 cm (scaled 1 sigma)
Weighted RMS scatter about the mean = 1.0 cm
Slope = 1.4 ± .7 cm/yr (scaled 1 sigma)
Weighted RMS scatter about the line = .8 cm

TABLE 5.74
VLBI BASELINE TRANSVERSE EVOLUTION
OVRO 130 TO PLATTVIL(7258)

DATE	TRANSVERSE (cm)	FORMAL ERR	# OBSERVATIONS WEIGHTED	TOTAL
84 4 26	-60.8	.7	60	82
85 5 7	-57.8	.8	82	87
86 4 1	-57.2	.4	66	71
86 4 2	-59.0	1.5	13	19

TRANSVERSE:
Mean = -58.1 ± .8 cm (scaled 1 sigma)
Weighted RMS scatter about the mean = 1.4 cm
Slope = 1.7 ± .4 cm/yr (scaled 1 sigma)
Weighted RMS scatter about the line = .6 cm

TABLE 5.75
VLBI BASELINE TRANSVERSE EVOLUTION
OVRO 130 TO PRESIDIO(7283)

DATE	TRANSVERSE (cm)	FORMAL ERR	# OBSERVATIONS WEIGHTED	TOTAL
84 2 26	6.2	5.1		
85 3 10	7.4	1.4		
85 3 13	8.1	.8	26	42
85 10 19	7.5	.4	49	51
85 10 23	7.2	.5	39	45

TRANSVERSE:
Mean = 7.4 ± .1 cm (scaled 1 sigma)
Weighted RMS scatter about the mean = .3 cm
Slope = -.8 ± .5 cm/yr (scaled 1 sigma)
Weighted RMS scatter about the line = .2 cm

TABLE 5.76
VLBI BASELINE TRANSVERSE EVOLUTION
OVRO 130 TO PT REYES(7251)

DATE	TRANSVERSE (cm)	FORMAL ERR	# OBSERVATIONS WEIGHTED	TOTAL
84 2 26	-84.6	2.3	5	56
85 3 13	-76.9	.6	31	48
85 10 19	-77.0	.6		

TRANSVERSE:
Mean = -77.2 ± 1.0 cm (scaled 1 sigma)
Weighted RMS scatter about the mean = 1.4 cm
Slope = 2.1 ± 2.0 cm/yr (scaled 1 sigma)
Weighted RMS scatter about the line = 1.1 cm

TABLE 5.77
VLBI BASELINE TRANSVERSE EVOLUTION
OVRO 130 TO PVERDES(7268)

DATE	TRANSVERSE (cm)	FORMAL ERR	# OBSERVATIONS WEIGHTED	TOTAL
85 3 4	76.4	.4	36	48

TABLE 5.78
VLBI BASELINE TRANSVERSE EVOLUTION
OVRO 130 TO QUINCY(7221)

DATE	TRANSVERSE (cm)	FORMAL ERR	# OBSERVATIONS WEIGHTED	TOTAL
84 4 12	45.7	.5	44	55
85 5 12	47.5	.4	48	51
85 5 14	47.1	.5	53	55
86 10 19	46.2	.4	47	50

TRANSVERSE:
Mean = 46.7 ± .4 cm (scaled 1 sigma)
Weighted RMS scatter about the mean = .7 cm
Slope = -.0 ± .4 cm/yr (scaled 1 sigma)
Weighted RMS scatter about the line = .7 cm

TABLE 5.79
VLBI BASELINE TRANSVERSE EVOLUTION
OVRO 130 TO VNDNBERG(7111)

DATE	TRANSVERSE (cm)	FORMAL ERR	# OBSERVATIONS WEIGHTED	TOTAL
84 2 20	10.4	.6	34	60
84 2 23	8.2	.8	9	55
84 2 26	7.8	1.0	7	57
84 4 12	8.4	.6	41	63
84 10 22	12.4	.5	29	47
84 10 25	13.6	.4	50	54
84 10 28	12.9	.3	53	59
85 3 1	14.3	.4	34	40
85 3 4	14.4	.3	45	49
85 3 7	13.8	.3	34	48
85 3 10	14.0	.4	39	43
85 3 13	16.6	.4	39	42
85 5 12	16.1	.3	50	53
85 10 19	18.0	.4	50	52
85 10 23	18.2	.4	27	29
85 10 27	17.4	.3	37	43
85 10 30	15.9	.5	31	40
86 4 7	17.2	1.0	8	16
86 4 10	19.1	.4	47	50
86 4 13	20.0	.4	46	49
86 5 18	19.9	.3	45	48
86 5 21	19.2	.4	46	47
86 10 19	20.1	.2	51	53
86 10 22	19.4	.2	46	51
86 10 26	21.0	.3	48	49
86 10 29	20.3	.3	43	50
86 11 1	21.3	.2	47	51
86 11 4	21.7	.2	45	46

TRANSVERSE:
Mean = 17.9 $\pm$ .6 cm (scaled 1 sigma)
Weighted RMS scatter about the mean = 3.2 cm
Slope = 3.9 $\pm$ .2 cm/yr (scaled 1 sigma)
Weighted RMS scatter about the line = .9 cm

TABLE 5.80
VLBI BASELINE TRANSVERSE EVOLUTION
OVRO 130 TO YUMA(7894)

DATE	TRANSVERSE (cm)	FORMAL ERR	# OBSERVATIONS WEIGHTED	TOTAL
85 3 1	-2.2	.4	38	42
86 4 10	-1.2	.5		
86 5 21	-1.2	.3	40	40
86 10 29	-.1	.3	45	49
86 11 1	-.5	.3	40	42

TRANSVERSE:
Mean = -.8 ± .3 cm (scaled 1 sigma)
Weighted RMS scatter about the mean = .6 cm
Slope = 1.2 ± .2 cm/yr (scaled 1 sigma)
Weighted RMS scatter about the line = .2 cm

TABLE 5.81
VLBI BASELINE TRANSVERSE EVOLUTION
PBLOSSOM(7254) TO VNDNBERG(7111)

DATE	TRANSVERSE (cm)	FORMAL ERR	# OBSERVATIONS WEIGHTED	TOTAL
84 2 20	269.8	.8	21	70
84 10 25	270.7	.7	69	101
85 3 7	270.5	.4	76	83
85 10 27	272.9	.6	55	69

TRANSVERSE:
Mean = 271.0 ± .6 cm (scaled 1 sigma)
Weighted RMS scatter about the mean = 1.0 cm
Slope = 1.8 ± .7 cm/yr (scaled 1 sigma)
Weighted RMS scatter about the line = .5 cm

TABLE 5.82
VLBI BASELINE TRANSVERSE EVOLUTION
PINFLATS(7258) TO VNDNBERG(7111)

DATE	TRANSVERSE (cm)	FORMAL ERR	# OBSERVATIONS WEIGHTED	TOTAL
84 10 28	-265.4	.9	72	106
84 10 31	-264.1	.6	56	87
85 1 18	-262.8	1.2	85	108
85 10 30	-264.4	.7	59	73
85 11 2	-262.6	.5	39	89
86 4 10	-262.8	.6	64	69
86 4 13	-263.1	.6	73	91
86 11 1	-260.4	.4	61	69
86 11 4	-261.6	.5	70	89
86 12 13	-261.7	.3	64	97
86 12 16	-261.3	.5	80	95

TRANSVERSE:
Mean = -262.1 ± .4 cm (scaled 1 sigma)
Weighted RMS scatter about the mean = 1.3 cm
Slope = 1.6 ± .3 cm/yr (scaled 1 sigma)
Weighted RMS scatter about the line = .7 cm

TABLE 5.83
VLBI BASELINE TRANSVERSE EVOLUTION
PINFLATS(7258) TO YUMA(7894)

DATE	TRANSVERSE (cm)	FORMAL ERR	# OBSERVATIONS WEIGHTED	TOTAL
84 10 31	253.8	1.3	9	96
85 11 2	253.1	.7		
86 4 10	254.9	.7		
86 11 1	253.7	.4	16	25
86 12 13	256.2	.4		

TRANSVERSE:
Mean = 254.7 ± .6 cm (scaled 1 sigma)
Weighted RMS scatter about the mean = 1.2 cm
Slope = 1.1 ± 1.0 cm/yr (scaled 1 sigma)
Weighted RMS scatter about the line = 1.1 cm

TABLE 5.84
VLBI BASELINE TRANSVERSE EVOLUTION
PLATTVIL(7258) TO VERNAL(7290)

DATE	TRANSVERSE (cm)	FORMAL ERR	# OBSERVATIONS WEIGHTED	TOTAL
86 3 30	9.6	.7	35	56

TABLE 5.85
VLBI BASELINE TRANSVERSE EVOLUTION
PRESIDIO(7283) TO PT REYES(7251)

DATE	TRANSVERSE (cm)	FORMAL ERR	# OBSERVATIONS WEIGHTED	TOTAL
84 2 26	-187.3	4.4		
85 3 13	-179.4	.8	2	31
85 10 19	-178.8	.5		

TRANSVERSE:
Mean = -179.1 ± .6 cm (scaled 1 sigma)
Weighted RMS scatter about the mean = .9 cm
Slope = 2.0 ± 1.4 cm/yr (scaled 1 sigma)
Weighted RMS scatter about the line = .6 cm

TABLE 5.86
VLBI BASELINE TRANSVERSE EVOLUTION
PRESIDIO(7283) TO VNDNBERG(7111)

DATE	TRANSVERSE (cm)	FORMAL ERR	# OBSERVATIONS WEIGHTED	TOTAL
84 2 26	11.1	3.1		
85 3 10	5.0	1.0		
85 3 13	3.3	.6	19	84
85 10 19	3.2	.3	89	94
85 10 23	2.6	.5	26	49

TRANSVERSE:
Mean = 3.2 ± .4 cm (scaled 1 sigma)
Weighted RMS scatter about the mean = .8 cm
Slope = -2.0 ± 1.1 cm/yr (scaled 1 sigma)
Weighted RMS scatter about the line = .6 cm

TABLE 5.87
VLBI BASELINE TRANSVERSE EVOLUTION
PT REYES(7251) TO VNDNBERG(7111)

DATE	TRANSVERSE (cm)	FORMAL ERR	# OBSERVATIONS WEIGHTED	TOTAL
84 2 26	-231.0	1.3	18	57
85 3 13	-231.1	.5	50	84
85 10 19	-230.8	.5		

TRANSVERSE:
Mean = -231.0 ± .1 cm (scaled 1 sigma)
Weighted RMS scatter about the mean = .1 cm
Slope = .2 ± .1 cm/yr (scaled 1 sigma)
Weighted RMS scatter about the line = .1 cm

TABLE 5.88
VLBI BASELINE TRANSVERSE EVOLUTION
PVERDES(7268) TO VNDNBERG(7111)

DATE	TRANSVERSE (cm)	FORMAL ERR	# OBSERVATIONS WEIGHTED	TOTAL
85 3 4	35.0	.6	50	84

TABLE 5.89
VLBI BASELINE TRANSVERSE EVOLUTION
SANPAULA(7255) TO VNDNBERG(7111)

DATE	TRANSVERSE (cm)	FORMAL ERR	# OBSERVATIONS WEIGHTED	TOTAL
84 2 29	1.7	2.3		
85 1 9	4.8	.7	45	82

TRANSVERSE:
Mean = 4.5 ± .9 cm (scaled 1 sigma)
Weighted RMS scatter about the mean = .9 cm

TABLE 5.90
VLBI BASELINE TRANSVERSE EVOLUTION
SOURDOGH(7281) TO WHTHORSE(7284)

DATE	TRANSVERSE (cm)	FORMAL ERR	# OBSERVATIONS WEIGHTED	TOTAL
84 8 7	-42.4	1.5	7	217
86 8 18	-44.1	.5		
86 8 20	-45.1	.4		

TRANSVERSE:
Mean = -44.6 ± .5 cm (scaled 1 sigma)
Weighted RMS scatter about the mean = .7 cm

TABLE 5.91
VLBI BASELINE TRANSVERSE EVOLUTION
SOURDOGH(7281) TO YAKATAGA(7277)

DATE	TRANSVERSE (cm)	FORMAL ERR	# OBSERVATIONS WEIGHTED	TOTAL
84 7 31	-10.6	.6	29	225
85 8 5	-11.8	.4	39	189
86 8 11	-11.2	.4		
86 8 13	-11.1	.5		

TRANSVERSE:
Mean = -11.3 ± .2 cm (scaled 1 sigma)
Weighted RMS scatter about the mean = .4 cm
Slope = -.1 ± .3 cm/yr (scaled 1 sigma)
Weighted RMS scatter about the line = .4 cm

TABLE 5.92
VLBI BASELINE TRANSVERSE EVOLUTION
VNDNBERG(7111) TO YUMA(7894)

DATE	TRANSVERSE (cm)	FORMAL ERR	# OBSERVATIONS WEIGHTED	TOTAL
84 10 31	6.5	1.3	23	102
85 3 1	5.1	.4	76	82
85 11 2	7.2	.7	33	92
85 11 5	7.6	.6	81	101
86 4 10	8.8	.6	68	77
86 5 21	8.8	.4	96	97
86 10 29	11.1	.3	92	92
86 11 1	10.0	.3	73	78
86 12 10	12.5	.6	60	71
86 12 13	11.3	.4	76	97

TRANSVERSE:
Mean = 9.4 $\pm$ .7 cm (scaled 1 sigma)
Weighted RMS scatter about the mean = 2.2 cm
Slope = 3.3 $\pm$ .3 cm/yr (scaled 1 sigma)
Weighted RMS scatter about the line = .6 cm

TABLE 6.1
VLBI BASELINE LENGTH EVOLUTION
HATCREEK TO HRAS 085

DATE	LENGTH (cm)	FORMAL ERR	# OBSERVATIONS WEIGHTED	TOTAL
83 6 6	193347361.1	.5	35	50
83 6 9	193347362.7	1.6	42	90
83 6 27	193347364.5	.9	40	69
83 6 29	193347362.3	.5	58	70
84 4 12	193347362.5	.5	67	73
84 4 17	193347363.2	.8	100	102
84 4 25	193347366.1	.7	76	76
84 4 26	193347363.1	.7	44	57
85 3 1	193347367.5	.6	13	15
85 3 10	193347364.0	.4	40	47
85 5 2	193347364.5	.3	90	102
85 5 6	193347363.5	.5	84	90
85 5 7	193347363.9	.6	23	86
85 5 12	193347365.1	.3	61	64
85 10 19	193347365.7	.5	55	59
85 10 23	193347366.1	.5	44	51
85 12 12	193347364.3	.6	30	46
86 3 26	193347364.9	.4	50	55
86 3 30	193347365.7	.5	53	59
86 4 1	193347366.6	.4	73	85
86 4 2	193347365.3	.3	54	64
86 4 7	193347366.0	.4	52	55
86 5 21	193347366.3	.4	48	50
86 10 19	193347364.5	.7	30	52
86 10 29	193347365.7	.7	46	54
86 10 31	193347364.1	.6		
86 12 10	193347364.9	.6	46	47

LENGTH:
Mean = 193347364.8 $\pm$ .3 cm (scaled 1 sigma)
Weighted RMS scatter about the mean = 1.4 cm
Slope = 1.0 $\pm$ .2 cm/yr (scaled 1 sigma)
Weighted RMS scatter about the line = 1.0 cm

TABLE 6.2
VLBI BASELINE LENGTH EVOLUTION
HATCREEK TO MOJAVE12

DATE	LENGTH (cm)	FORMAL ERR	# OBSERVATIONS WEIGHTED	TOTAL
83 6 27	72914866.1	.7	31	63
83 6 29	72914866.6	.4	64	111
84 2 23	72914865.2	.7	63	71
84 2 24	72914865.5	.9	105	111
84 2 26	72914865.5	.9	40	55
84 4 12	72914866.7	.3	68	73
84 4 17	72914867.8	.5	92	100
84 4 25	72914866.1	.3	70	75
84 4 26	72914866.9	.5	68	89
85 3 1	72914867.8	.5	17	20
85 3 10	72914865.8	.3	49	54
85 5 2	72914867.2	.3	89	100
85 5 6	72914866.0	.3	80	91
85 5 7	72914866.7	.5	77	89
85 5 12	72914866.7	.3	62	65
85 5 15	72914867.6	.3	103	114
85 9 30	72914867.5	.4	93	118
85 10 19	72914866.4	.4	64	65
85 10 23	72914867.0	.4	59	68
85 12 12	72914866.6	.3	52	58
86 3 26	72914867.9	.4	40	43
86 3 30	72914867.6	.5	51	56
86 4 1	72914867.0	.5	50	56
86 4 2	72914867.1	.3	46	51
86 4 7	72914866.3	.4	55	57
86 4 8	72914867.4	.5		
86 5 21	72914866.7	.3	47	55
86 10 19	72914866.9	.5	37	64
86 10 23	72914866.1	.4		
86 10 29	72914868.2	.7	41	62
86 10 31	72914867.1	.5		
86 12 10	72914867.1	.5	56	57

LENGTH:
Mean = 72914866.8 $\pm$ .1 cm (scaled 1 sigma)
Weighted RMS scatter about the mean = .6 cm
Slope = .2 $\pm$ .1 cm/yr (scaled 1 sigma)
Weighted RMS scatter about the line = .6 cm

TABLE 6.3
VLBI BASELINE LENGTH EVOLUTION
HATCREEK TO OVRO 130

DATE	LENGTH (cm)	FORMAL ERR	# OBSERVATIONS WEIGHTED	TOTAL
83 6 6	48432153.3	.6	37	52
83 6 7	48432151.5	1.6	13	49
83 6 27	48432152.3	.7	36	64
83 6 29	48432152.2	.4	64	102
84 2 23	48432150.4	1.0	32	68
84 2 26	48432147.4	1.3	21	51
84 4 12	48432153.1	.3	70	75
84 4 26	48432153.1	.5	69	90
85 3 1	48432154.7	.6	11	11
85 3 10	48432151.0	.4	28	29
85 5 7	48432153.1	.5		
85 5 12	48432152.8	.3	40	44
85 10 19	48432152.5	.4	38	42
85 10 23	48432154.1	.4	33	42
86 4 1	48432154.0	.5		
86 4 2	48432154.0	.4	39	50
86 4 7	48432152.8	.4	33	34
86 5 21	48432153.6	.3	25	28
86 10 19	48432152.1	.5	25	40
86 10 29	48432153.8	.7	25	37
86 10 31	48432152.5	.6	35	59

LENGTH:
Mean = 48432152.9 $\pm$ .2 cm (scaled 1 sigma)
Weighted RMS scatter about the mean = 1.0 cm
Slope = .3 $\pm$ .2 cm/yr (scaled 1 sigma)
Weighted RMS scatter about the line = .9 cm

TABLE 6.4
VLBI BASELINE LENGTH EVOLUTION
HRAS 085 TO MOJAVE12

DATE	LENGTH (cm)	FORMAL ERR	# OBSERVATIONS WEIGHTED	TOTAL
83 6 27	131336816.7	.5	78	83
83 6 28	131336815.3	.9	50	53
83 6 29	131336814.3	.5	87	98
83 7 25	131336815.8	.7	165	184
83 8 8	131336814.0	.7	153	166
83 8 23	131336816.4	.5	125	134
83 9 27	131336814.3	.5	198	211
83 10 12	131336815.0	.5	205	212
83 10 27	131336815.5	.6	117	118
83 11 5	131336813.4	.5	51	65
83 11 8	131336815.8	.7	71	77
83 11 21	131336815.6	.5	100	104
83 12 1	131336815.2	.5	170	174
84 1 4	131336815.0	.5	205	210
84 4 12	131336814.4	.4	75	77
84 4 17	131336816.0	.7	107	107
84 4 22	131336815.5	.7	97	102
84 4 25	131336818.2	.5	81	82
84 4 26	131336814.5	.5	52	61
85 3 1	131336816.1	.4	55	58
85 3 5	131336816.6	.3	146	156
85 3 10	131336815.8	.3	53	63
85 3 13	131336816.2	.3	47	55
85 5 2	131336816.3	.2	97	98
85 5 6	131336815.7	.4	93	104
85 5 7	131336816.1	.3	90	91
85 5 9	131336816.0	.4	137	139
85 5 12	131336816.9	.2	68	68
85 5 14	131336816.8	.4	68	71
85 8 24	131336814.6	.5	115	124
85 10 19	131336817.1	.4	66	69
85 10 23	131336816.9	.4	65	69
85 10 29	131336816.4	.4	82	82
85 11 2	131336817.7	.3	45	47
85 11 5	131336816.5	.3	67	70
85 12 12	131336816.4	.5	45	72
86 1 5	131336814.4	.6	60	72
86 2 23	131336817.2	.3	83	88
86 2 26	131336816.3	.4	69	75
86 3 26	131336816.1	.3	44	46
86 3 30	131336816.2	.4	75	80
86 4 1	131336818.1	.3	53	59
86 4 2	131336816.6	.3	58	61
86 4 4	131336818.2	.6		

86	4	7	131336817.5	.3	71	73
86	4	10	131336816.4	.4	72	80
86	5	14	131336817.1	.5		
86	5	18	131336816.8	.3	83	85
86	5	21	131336817.4	.3	84	85
86	10	16	131336817.9	.4		
86	10	19	131336815.6	.4	77	78
86	10	26	131336816.8	.3	85	89
86	10	29	131336816.6	.3	83	88
86	10	31	131336815.1	.3	212	241
86	11	1	131336817.5	.3	77	79
86	12	10	131336817.5	.5	71	75
86	12	13	131336816.5	.4	71	83

LENGTH:

Mean = 131336816.4 ± .1 cm (scaled 1 sigma)
Weighted RMS scatter about the mean = 1.0 cm
Slope = .5 ± .1 cm/yr (scaled 1 sigma)
Weighted RMS scatter about the line = .8 cm

TABLE 6.5
VLBI BASELINE LENGTH EVOLUTION
HRAS 085 TO OVRO 130

DATE	LENGTH (cm)	FORMAL ERR	# OBSERVATIONS WEIGHTED	TOTAL
80 4 11	150819537.0	.7	195	221
80 7 26	150819536.4	1.2	98	113
80 7 27	150819535.2	1.1	107	122
80 9 26	150819537.3	1.5	62	104
80 9 27	150819538.5	1.1	69	89
80 9 28	150819537.2	.8	69	86
80 9 29	150819534.6	1.2	67	92
80 9 30	150819535.3	1.1	30	42
80 10 1	150819536.7	1.2	87	120
80 10 2	150819537.1	.8	75	88
80 10 16	150819537.0	.7	87	102
80 10 17	150819539.5	.8	79	95
80 10 18	150819538.4	.9	90	97
80 10 19	150819535.4	1.9	26	100
80 10 20	150819535.5	.7	91	95
80 10 21	150819537.2	.8	87	99
80 10 22	150819537.1	.6	90	101
81 6 16	150819537.1	.7	155	168
81 11 18	150819538.5	.4	92	95
81 11 19	150819537.5	.6	118	144
82 6 20	150819537.6	.9	70	80
82 6 21	150819538.0	.8	57	72
82 10 16	150819537.7	.8	60	84
82 10 17	150819538.0	.4	82	93
82 10 18	150819538.3	.7	88	90
82 10 23	150819539.5	.5	79	99
82 10 25	150819539.3	1.2	91	96
82 12 15	150819539.3	.6	119	124
82 12 16	150819537.6	.6	101	101
83 6 6	150819536.8	.4	76	99
83 6 27	150819540.7	.7	50	63
83 6 29	150819538.4	.5	49	62
83 8 23	150819539.9	.6	108	117
83 11 5	150819537.7	.6	40	63
84 4 12	150819538.7	.5	66	74
84 4 26	150819538.4	.5	50	60
85 3 1	150819540.9	.5	26	28
85 3 5	150819541.0	.3	106	114
85 3 10	150819540.6	.4	28	30
85 3 13	150819539.8	.4	27	31
85 5 7	150819540.5	.3	85	90
85 5 9	150819539.0	.4	102	104
85 5 12	150819540.1	.3	40	43

85	5	14	150819540.9	.4	38	44
85	10	19	150819540.0	.5	34	38
85	10	23	150819541.1	.5	34	41
85	10	29	150819541.1	.4	64	64
86	4	1	150819542.0	.4	63	73
86	4	2	150819540.4	.3	48	57
86	4	4	150819542.9	.7		
86	4	7	150819541.9	.4	36	39
86	4	10	150819540.8	.5		
86	5	14	150819542.2	.6		
86	5	18	150819541.5	.3	38	41
86	5	21	150819541.6	.4	39	40
86	10	16	150819542.1	.4		
86	10	19	150819541.6	.4	39	43
86	10	26	150819541.3	.4		
86	10	29	150819541.2	.4	39	44
86	10	31	150819541.3	.6		
86	11	1	150819542.3	.4	40	43

LENGTH:

Mean = 150819540.0 $\pm$ .2 cm (scaled 1 sigma)
Weighted RMS scatter about the mean = 1.7 cm
Slope = .8 $\pm$ .1 cm/yr (scaled 1 sigma)
Weighted RMS scatter about the line = .8 cm

TABLE 6.6
VLBI BASELINE LENGTH EVOLUTION
MOJAVE12 TO OVRO 130

DATE	LENGTH (cm)	FORMAL ERR	# OBSERVATIONS WEIGHTED	TOTAL
83 6 27	24527644.8	.5	47	59
83 6 29	24527645.3	.2	86	104
83 8 22	24527645.4	.7	64	65
83 8 23	24527645.6	.4	119	124
83 8 25	24527645.3	.5	42	59
83 8 27	24527645.5	.5	60	74
83 8 31	24527645.5	.6	65	70
83 10 31	24527645.4	.3	49	66
83 11 5	24527645.0	.2	62	77
83 11 12	24527645.8	.9	69	78
84 2 20	24527645.3	.6	53	70
84 2 23	24527647.1	1.1	27	73
84 2 26	24527648.5	1.4	21	59
84 4 9	24527644.4	.6	58	60
84 4 12	24527644.9	.2	74	76
84 4 26	24527644.8	.3	83	96
84 10 22	24527645.1	.6	44	54
84 10 25	24527644.6	.5	52	55
84 10 28	24527644.8	.4	53	59
85 3 1	24527644.1	.4	39	44
85 3 4	24527644.3	.3	48	50
85 3 5	24527644.9	.3	121	147
85 3 7	24527644.6	.3	32	48
85 3 10	24527645.9	.4	31	43
85 3 13	24527644.5	.4	32	40
85 5 7	24527644.7	.4	92	92
85 5 9	24527644.6	.4	137	137
85 5 12	24527644.5	.2	48	56
85 5 14	24527645.4	.3	51	57
85 10 19	24527644.4	.3	48	51
85 10 23	24527644.1	.4	49	53
85 10 27	24527644.6	.4	51	53
85 10 29	24527644.9	.2	131	133
85 10 30	24527644.5	.4	52	55
86 4 1	24527643.9	.4	47	56
86 4 2	24527644.0	.4	16	20
86 4 4	24527645.2	.7	13	22
86 4 7	24527644.6	.3	44	46
86 4 10	24527645.1	.4	48	49
86 4 13	24527644.2	.3	49	49
86 5 14	24527644.5	.6		
86 5 18	24527645.2	.2	47	49
86 5 21	24527644.2	.3	44	44

86	10	16	24527645.2	.3	117	125
86	10	19	24527646.2	.3	51	53
86	10	22	24527645.8	.3	50	55
86	10	26	24527645.7	.3	50	52
86	10	29	24527645.5	.3	45	50
86	10	31	24527646.2	.5		
86	11	1	24527645.3	.3	46	49
86	11	4	24527644.0	.3	41	46

LENGTH:

Mean = 24527644.9 ± .1 cm (scaled 1 sigma)
Weighted RMS scatter about the mean = .6 cm
Slope = -.0 ± .1 cm/yr (scaled 1 sigma)
Weighted RMS scatter about the line = .6 cm

NASA
National Aeronautics and Space Administration

Report Documentation Page

1. Report No.	2. Government Accession No.	3. Recipient's Catalog No.
NASA TM-100689		

4. Title and Subtitle

Crustal Dynamics Project Data Analysis - 1987
Volume 2 - Mobile VLBI Geodetic Results 1982-1986

5. Report Date

November 1987

6. Performing Organization Code

621

7. Author(s)

C. Ma and J. W. Ryan

8. Performing Organization Report No.

88B0042

10. Work Unit No.

9. Performing Organization Name and Address

Goddard Space Flight Center
Greenbelt, Maryland 20771

11. Contract or Grant No.

13. Type of Report and Period Covered

Technical Memorandum

12. Sponsoring Agency Name and Address

National Aeronautics and Space Administration
Washington, D.C. 20546-0001

14. Sponsoring Agency Code

15. Supplementary Notes

The contents are available in machine-readable form from the Crustal Dynamics Project-Data Information System (CDP-DIS).

16. Abstract

The Goddard VLBI group reports the results of analyzing 101 Mark III data sets acquired from mobile observing sites through the end of 1986 and available to the Crustal Dynamics Project. The fixed VLBI observations at Hat Creek, Ft. Davis, Mojave, and OVRO are included as they participate heavily in the mobile schedules. One large solution GLB171 was used to obtain baseline length and transverse evolutions. Radio source positions were estimated globally, while nutation offsets were estimated from each data set. The results include 28 mobile sites.

17. Key Words (Suggested by Author(s))	18. Distribution Statement
Geodesy Crustal Dynamics Tectonics	Unclassified - Unlimited Subject Category 46

19. Security Classif. (of this report)	20. Security Classif. (of this page)	21. No. of pages	22. Price
Unclassified	Unclassified		