

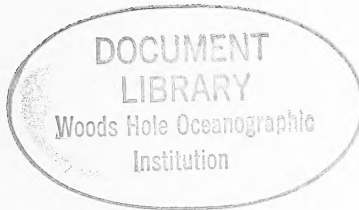
BEACH AND NEARSHORE SURVEY DATA: 1981-1984 CERC FIELD RESEARCH FACILITY

by

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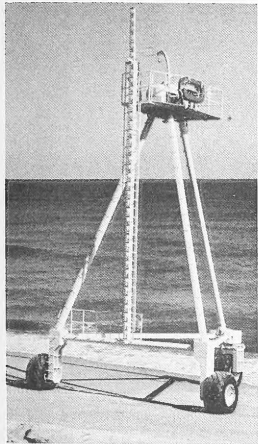
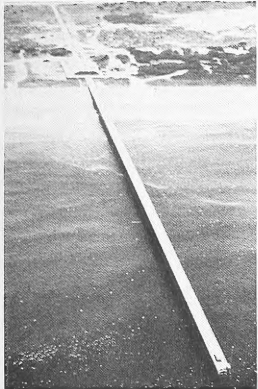
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19. ABSTRACT (Continue on reverse if necessary and identify by block number) This report presents 4 years of highly accurate, approximately biweekly surveys of four selected beach profiles collected at the US Army Engineer Waterways Experiment Station, Coastal Engineering Research Center's Field Research Facility (FRF) in Duck, NC. These data are unique because they cover the most active region of the nearshore, from the dune out to a depth where net bottom changes appear to be negligible, and were collected coincident with detailed measurements of waves and water levels. The data were collected between 1981 and 1984 using the FRF's CRAB, a 10-m-tall motorized tripod, which, combined with an electronic "total station" surveying instrument, is capable of accuracies of a few centimetres in both elevation and position. (Continued)					
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19. ABSTRACT (Continued).

The report discusses the data-collection methods, the sources of errors and data-editing procedures, and a brief summary of the actual profile data. Appendices contain the listings and plots of the survey data along with the tables and plots of the wave and water-level data.

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PREFACE

This report was prepared at the Coastal Engineering Research Center (CERC) of the US Army Engineer Waterways Experiment Station (WES) as part of the Storm Erosion Studies Work Unit, Shore Protection and Restoration Program; Coastal Engineering Area, Civil Works Research and Development. Technical Monitors were Mr. John H. Lockhart, Jr., and Mr. John G. Housley, Headquarters, US Army Corps of Engineers.

Mr. Peter A. Howd and Mr. William A. Birkemeier of CERC's Field Research Facility Group prepared the report under the supervision of Mr. Curt Mason, former Chief, Field Research Facility; Mr. Thomas W. Richardson, Chief, Engineering Development Division; and Mr. Charles C. Calhoun, Jr., and Dr. James R. Houston, Assistant Chief and Chief, CERC, respectively. Messrs. Eugene W. Bichner, Charles R. Townsend III, Michael W. Leffler, Francis E. Sargent, and Ms. Rebecca J. Savage, plus many others, contributed to the collection of the data. Ms. Harriet M. Klein assisted greatly by untangling complexities of the English language. The wave and water-level data presented in the report were collected by CERC's Field Research Facility Measurements and Analysis Work Unit under the direction of Mr. Herman C. Miller. This report was edited by Ms. Jamie Leach of the WES Information Technology Laboratory.

Commander and Director of WES upon publication of this report was COL Dwayne G. Lee. Technical Director was Dr. Robert W. Whalin.

CONTENTS

	<u>Page</u>
PREFACE	1
LIST OF FIGURES	3
PART I: INTRODUCTION	4
PART II: PROFILE DATA	9
The CRAB	9
Early Stadia Surveys	11
Electronic Survey System	11
Error Minimization in Profile Data-Collection Methods	14
Special Notes on the Survey Data	18
PART III: PROFILE RESULTS	19
PART IV: WAVE AND WATER-LEVEL DATA	24
Wave Height and Period	24
Water-level Data	25
PART V: SUMMARY	26
REFERENCES	27
APPENDIX A: SURVEY PLOTS, 1981-1984	A1
APPENDIX B: SURVEY DATA LISTING	B1
APPENDIX C: PROGRAM DATACHECK	C1
APPENDIX D: WAVE HEIGHTS AT PIER END, 1981-1984	D1
APPENDIX E: WAVE HEIGHT AND PEAK PERIOD, 1981-1984	E1
APPENDIX F: TIDE LEVEL AT PIER END, 1981-1984	F1

LIST OF FIGURES

<u>No.</u>		<u>Page</u>
1	Location of the FRF	5
2	Bathymetric map of study area showing locations of the four profile lines	6
3	Distribution of sediment sizes across profile line 188 on 17 March 1982	7
4	The CRAB	10
5	Zeiss Elta-2 electronic surveying instrument	12
6	Results of 10 repetitive surveys of a single profile line using the CRAB/Zeiss system	13
7	Samples of typical surveying errors and their effects	15
8	Typical profile configurations occurring in the data set for profile line 62	20
9	Envelope of all surveys of profile line 188	21
10	Rapid offshore movement of sediment at line 188 resulting from passage of three fall 1981 storms	22
11	Slow onshore recovery of the outer bar during a 6-month period of low wave conditions	22
12	Evidence of three-dimensional profile response at lines 58 and 62 during October 1982	23
A1	Profile line 58, 17 Jul 1981 - 17 Oct 1982	A2
A2	Profile line 58, 17 Oct 1982 - 5 Jan 1984	A3
A3	Profile line 58, 5 Jan 1984 - 13 Dec 1984	A4
A4	Profile line 62, 26 Jan 1981 - 9 Feb 1982	A5
A5	Profile line 62, 9 Feb 1982 - 24 Feb 1983	A6
A6	Profile line 62, 24 Feb 1983 - 9 May 1984	A7
A7	Profile line 62, 9 May 1984 - 13 Dec 1984	A8
A8	Profile line 188, 20 Jan 1981 - 18 Nov 1981	A9
A9	Profile line 188, 18 Nov 1981 - 14 Jan 1983	A10
A10	Profile line 188, 14 Jan 1983 - 24 Feb 1984	A11
A11	Profile line 188, 24 Feb 1984 - 17 Dec 1984	A12
A12	Profile line 190, 17 Jul 1981 - 15 Oct 1982	A13
A13	Profile line 190, 15 Oct 1982 - 2 Dec 1983	A14
A14	Profile line 190, 2 Dec 1983 - 17 Dec 1984	A15
D1	Wave height at pier end and times of surveys of lines 62 and 188, 1981	D2
D2	Wave height at pier end and times of surveys of lines 62 and 188, 1982	D3
D3	Wave height at pier end and times of surveys of lines 62 and 188, 1983	D4
D4	Wave height at pier end and times of surveys of lines 62 and 188, 1984	D5
F1	Tide level record, 1981	F2
F2	Tide level record, 1982	F3
F3	Tide level record, 1983	F4
F4	Tide level record, 1984	F5

BEACH AND NEARSHORE SURVEY DATA: 1981-1984

CERC FIELD RESEARCH FACILITY

PART I: INTRODUCTION

1. The Field Research Facility (FRF) of the US Army Engineer Waterways Experiment Station (WES), Coastal Engineering Research Center (CERC), was established to provide a research and development capability for field studies of coastal processes. An important part of the FRF operation has been the collection of long-term data sets of waves, currents, tides, atmospheric conditions, and beach profile change. The purpose of this report is to present the first 4 years of highly accurate profile data collected under the Storm Erosion Studies work unit.

2. This continuing data set is unique in the field of beach profile studies because of its accuracy, temporal coverage, and concomitant wave, weather, and water-level information. Surveys of four shore-normal profile lines were completed at approximately 2-week intervals. Nowhere else does such a data set exist. It provides a unique opportunity to examine natural profile changes and to test and evaluate models of beach profile response to changing wave, current, and atmospheric conditions.

3. The FRF is located just north of the village of Duck, N. C., on the Outer Banks (Figure 1). The facility includes a 561-m-long research pier and support buildings. The beach adjacent to the study area is interrupted only by open pile piers from Cape Henry, Va., to Oregon Inlet, N. C., a distance of 110 km. General information regarding the FRF and the surrounding area is provided in Birkemeier et al. (1985). A comprehensive network of weather and ocean sensors provides continuous monitoring of atmospheric and oceanographic conditions. These data are published in a series of annual (Miller 1984; Miller et al. 1985, 1986) and monthly data reports.

4. The data in this report were collected along the four profile lines shown in Figure 2 (Lines 58, 62, 188, and 190). A profile line is defined as a fixed transect across the beach and nearshore which is repetitively surveyed. Table 1 summarizes the location of these lines and the data contained in this report. Based on regular monthly surveys of the bathymetry

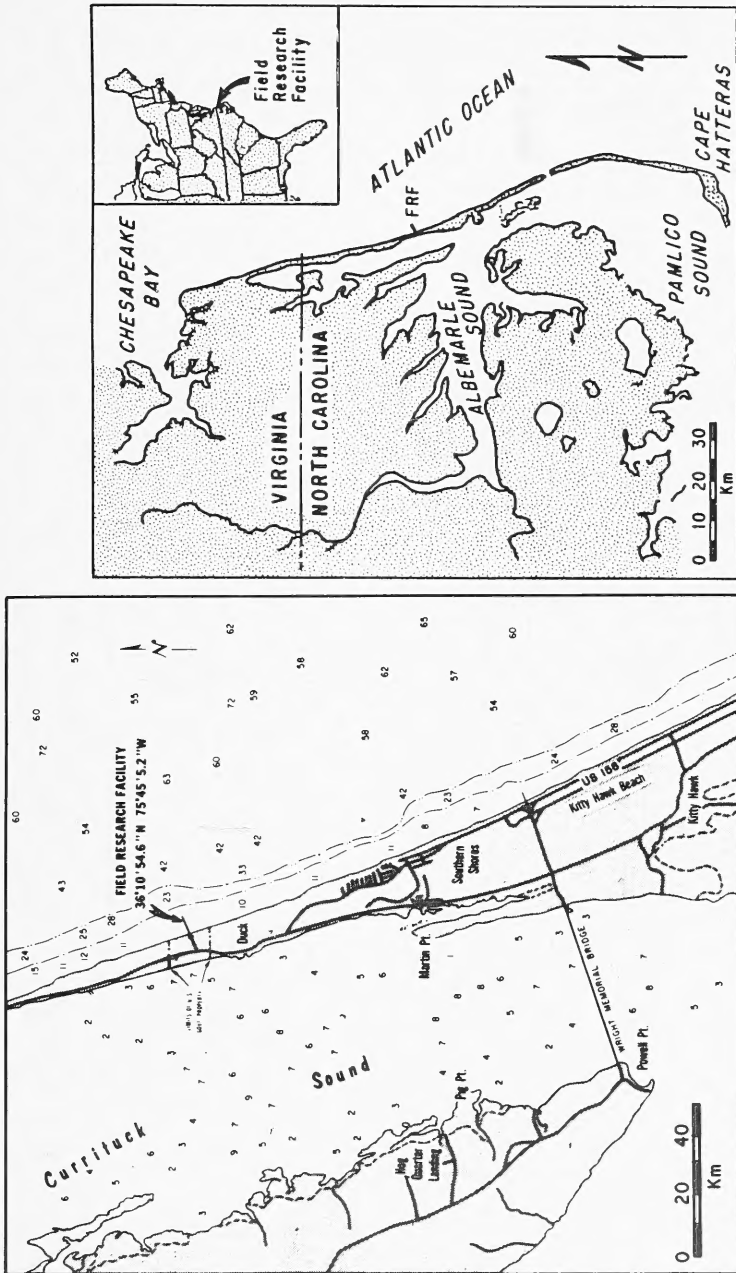
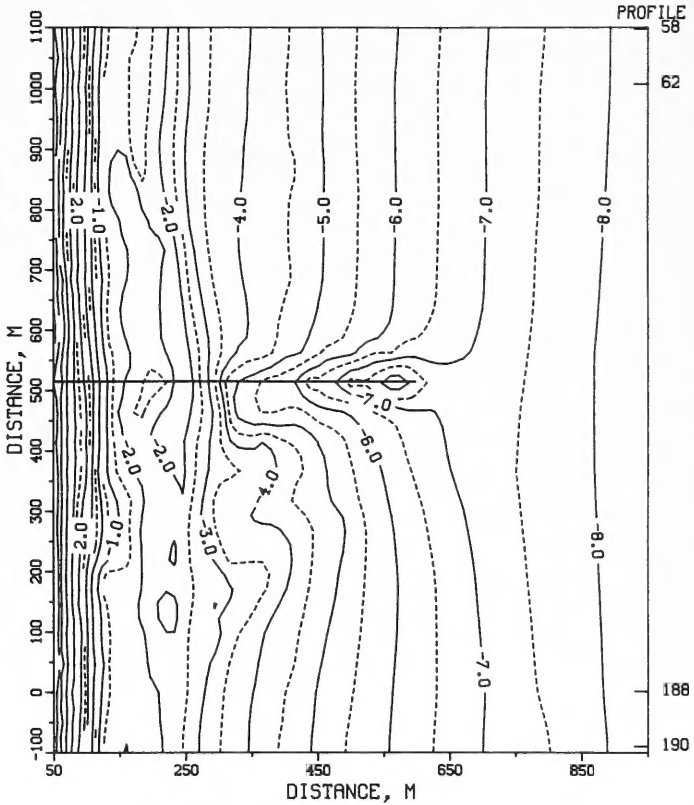


Figure 1. Location of the FRF

Table 1
Summary of Profile Line Data

Profile Line	Distance Along FRF Baseline m	Distance From FRF Pier m	First Survey	Last Survey	Number of Surveys
58	1097.31	580.64	17 Jul 81	13 Dec 84	96
62	1005.84	489.21	26 Jan 81	13 Dec 84	119
188	0.00	-516.63	20 Jan 81	17 Dec 84	127
190	-91.40	-608.07	17 Jul 81	17 Dec 84	99



FRF BATHYMETRY 27 NOV 84
 CONTOURS IN METERS

Figure 2. Bathymetric map of the study area showing locations of the four profile lines

surrounding the FRF, these lines are located in a region of shore-parallel contours and are sufficiently removed from known pier effects (Miller, Birkemeier, and DeWall 1983).

5. The beach is composed of a mixture of quartz sand and carbonate shell debris. The carbonate component may be as high as 20 percent. Mean grain size is greatest on the foreshore where it approaches 1 mm, decreasing offshore to 0.1 mm. Sorting improves in an offshore direction. Figure 3 illustrates the cross-shore variation in sediment size distribution based on a series of samples taken along profile line 188 on 17 March 1982.

6. Storm conditions at the FRF are dominated by extratropical northeasters during the winter months and occasionally by tropical hurricanes. During the period of study, a number of significant storms occurred, although no major hurricanes passed the area.

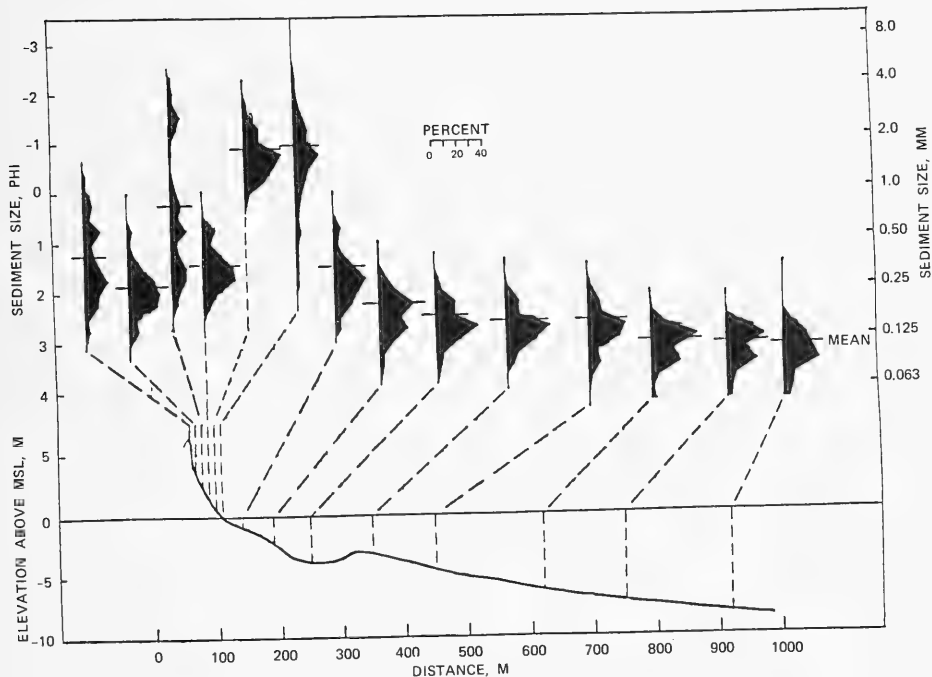


Figure 3. Distribution of sediment sizes across profile line 188 on 17 March 1981

7. The report includes five parts and six appendices. Part II discusses the survey methods used to collect the profile data and points out the sources of errors and methods used to minimize those errors. Part III presents summary comments about profile characteristics and patterns of profile change as an aid in interpreting the data. Part IV presents the associated wave and water-level data. The report is summarized in Part V. Appendices include plots of all the profiles (Appendix A), tables of the profile data along with a FORTRAN computer program to read and check the data (Appendices B and C), plots of wave height for the 4-year period (Appendix D), tables of wave height and period (Appendix E), and plots of the observed tides (Appendix F).

PART II: PROFILE DATA

8. This part describes the methods used to survey the profile data and identifies potential sources of error and how errors were handled. The data for each profile line are a series of distance-elevation pairs measured during a repetitive number of surveys. The data extend from a shore-parallel baseline, located landward of the duneline, out to a usual depth of 8 to 9 m. Elevation data are referenced to the 1929 National Geodetic Vertical Datum (NGVD) using third-order control established at the FRF. Each survey of each profile line is uniquely identified by a profile number and survey number.

9. Surveys were initially conducted biweekly, the northern lines one week followed by the southern lines the next. This sequence changed in December 1982 to biweekly surveys of all four lines. Full bathymetric surveys of 15 to 28 lines surrounding the FRF were also conducted monthly. Additional surveys were added to cover significant storms and in support of special experiments. The time interval between surveys varied from 1 to 44 days.

The CRAB

10. The method used to collect the majority of the profile data is described in Birkemeier and Mason (1984). All profiles were surveyed using the FRF Coastal Research Amphibious Buggy (CRAB) shown in Figure 4. Built by the Wilmington District of the US Army Corps of Engineers, this unique three-wheeled vehicle was modeled after a vehicle originally built by Marine Travelift & Engineering of Sturgeon Bay to monitor a Corps of Engineers beach nourishment project.

11. The CRAB consists of a tripod of 20.3-cm schedule-80 aluminum tubing, connected at the base by horizontal members 2.1 m above the ground, and an operations platform 10.7 m above the ground. Power is supplied by a 39.5-kW Volkswagen engine on the deck which drives a variable stroke hydraulic pump. This pump transfers hydraulic fluid at $5.5 \times 10^6 \text{ N/m}^2$ or higher to hydraulic motors at each of the wheels. The variable stroke feature of the pump allows an infinitely variable gear ratio in either forward or reverse and constant engine speed. For strength and corrosion resistance, all hydraulic lines are stainless steel except for short flexible sections at the front steering wheel.



Figure 4. The CRAB

12. Total vehicle weight is about 8,200 kg; the distance between the rear wheels is 8.2 m. Though it appears top heavy, the liquid-filled tires and wide wheelbase make it very stable. It has passed a 20-deg tilt test and is designed to withstand even steeper angles.

13. Top speed of the CRAB is 3.2 km/hr on land and somewhat less in the water. Since the maximum significant wave height for operation is 2 m, the CRAB is capable of operating in all but the most severe east coast storms. The large tires have a negligible effect on a hard rippled sand bottom; however, scour around the tires has been observed in areas of active wave breaking or strong currents if the CRAB remains motionless. The CRAB cannot be used on soft silty or loose bottoms.

14. All beach and dune surveying was accomplished with the standard

technique of sending a rodperson along the transect, stopping at regular intervals and breaks in slope.

Early Stadia Surveys

15. From January to June 1981, the position and elevation of the CRAB were determined using an automatic level, located on the beach, to read a 12.3-m-high stadia board attached to the CRAB. This system was slow and sensitive to a wide range of errors. Primary sources of error included out-of-level or poorly aligned instruments, stadia reading errors, fieldbook and transcription errors, and instrument stationing errors. Estimated accuracy in distance was from ± 0.3 to ± 6 m. Vertical accuracy was estimated to vary from ± 0.03 to ± 0.6 m. Single points or surveys may have been in greater error.

16. Errors tended to increase with distance. This resulted from the increased difficulty in reading the stadia board and the greater impact of out-of-level errors. Because of these errors, data collected prior to June 1981 end approximately 600 m offshore. Points farther offshore were of questionable accuracy and have been dropped.

17. Although of inferior quality to later surveys, the stadia survey data have been retained in the data set because the configuration of the profile lines (which is accurately represented) during this period is unusual and not later repeated.

Electronic Survey System

18. In order to improve the speed and accuracy of the surveys, a Zeiss Elta-2 electronic surveying instrument with automatic data recording was used after June 1981 (Figure 5). This instrument incorporates in one compact unit a first-order electronic theodolite, distance meter, microprocessor, rechargeable power supply, and interchangeable solid state memory module. When optically aimed at a reflecting prism on the CRAB, the instrument uses a collimated infrared beam to measure the distance and the electronic theodolite to measure both horizontal and vertical angles. The microprocessor then uses these measurements plus the coordinates of the instrument to compute X, Y, and Z Cartesian coordinates of the ground point under the CRAB (corrected for

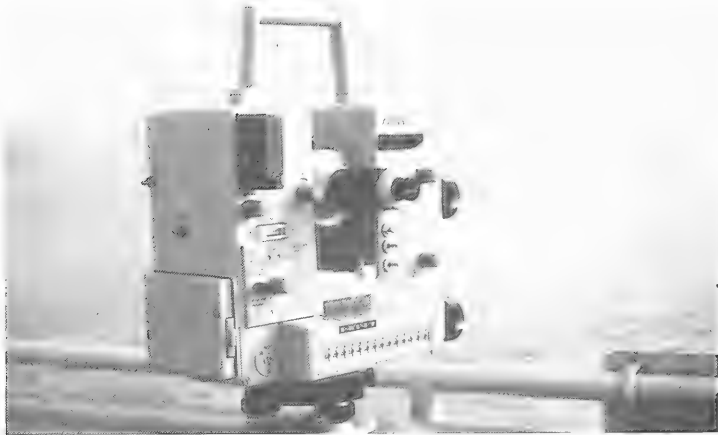


Figure 5. Zeiss Elta-2 electronic surveying instrument

earth curvature).

19. The stated operating range is 2 km with a triple prism assembly as used on the CRAB. Working accuracy of ± 3 cm or better is possible in both horizontal and vertical coordinates. Actual accuracy in a repetitive survey program is less because of changing atmospheric conditions, different instrument setups, and differences in the actual points surveyed.

20. The high accuracy of the system is shown in Figure 6 (Birkemeier and Mason 1984), which shows 10 repetitive surveys of a profile line collected over a 2-day period under near ideal conditions. While there is movement of the nearshore bar during the period shown, the stability of the offshore zone is of greater interest. Seaward of 220 m, the average range in elevation was 5 cm. The standard deviation of the 10 elevations for a given distance was usually less than 2 cm.

21. Only about 10 sec are required to aim, shoot, and record each survey point. Because the actual coordinates of each point are displayed, the CRAB can easily be kept on line to within ± 1.5 m through radio communications between the CRAB driver and the instrument operator.

22. Once the survey is complete, the solid state memory is removed from the Zeiss, and the data are transferred through a Zeiss interface to a main-frame, desktop, or minicomputer. Because the system only requires proper aim from the operator, instrument reading errors and fieldbook entry errors are eliminated.

23. A unique feature of the Zeiss system is its ability to accept and record an additional piece of information (up to seven digits) with every survey point. This was used to manually enter the angular tilt of the CRAB, which was measured with two orthogonal tilt meters. Up to 14 deg of tilt was recorded on steep portions of the beach. The survey data were adjusted during processing to account for the tilt.

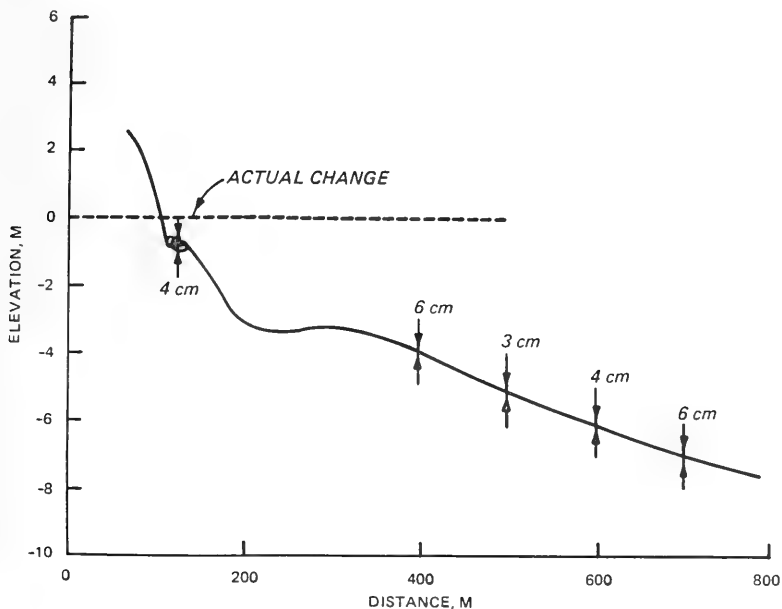


Figure 6. Results of 10 repetitive surveys of a single profile line using the CRAB/Zeiss system

Error Minimization in Profile Data-Collection Methods

Error types

24. The biases and errors of the CRAB-Zeiss method can be broken down into two distinct categories: limitations of the instrument and operator errors.

25. The Zeiss Elta-2 is capable of measuring both horizontal and vertical angles to ± 0.6 sec of arc and distances to ± 1 cm in the mode most commonly used at the FRF. The specified range when using a triple prism configuration is 2 km. Increasing the number of prisms increases the range.

26. The instrument is sensitive to atmospheric and climatic variation since it uses the speed of light to determine distance and optical aiming to measure the angles. The instrument does allow for rough adjustment for these variables. During the summer months, heat shimmer and temperature gradients near the land-sea interface may also affect the accuracy of the angular measurements. These errors are assumed to be negligible relative to other types of errors.

27. On one occasion the Elta-2 developed an internal problem which introduced a gradual bias into the data. This bias was identified and removed during processing. Errors of this type are difficult to remove because they occur radially from the instrument's position and do not uniformly affect the data. The instrument was repaired, and the malfunction did not reoccur. Treatment of errors in the data is discussed below.

28. Operator errors can result from improper leveling of the instrument, an error in positioning the instrument in coordinate space (particularly in elevation), movement of the tripod during the survey, and mis-aiming the instrument at the proper location on the prism cluster while taking the measurement. Constructed examples of typical nearshore survey errors and their impact are shown in Figure 7. All the measured points are affected by improper leveling or improper location in coordinate space. Individual points are affected by incorrect aim.

29. A different type of operator error results when topographically important points, such as the bar crest or trough, are missed. Survey points are selected based on the timed travel of the CRAB. More points are taken close to shore where the profile is more complex. It is possible for the

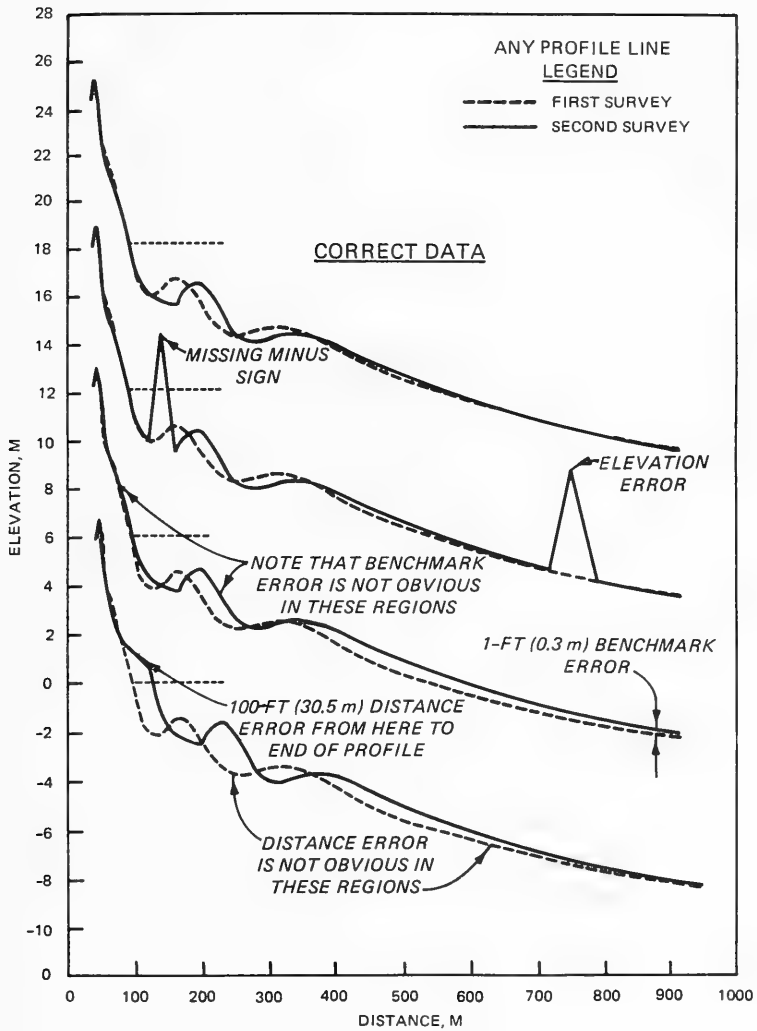


Figure 7. Samples of typical surveying errors and their effects

Zeiss operator to follow the vertical movement of the CRAB, but some significant features were probably missed.

30. A third type of operator error is caused by the instrument being triggered to begin a reading prior to properly aiming at the prisms. This short cut of triggering, then sighting the point, results in sampling the azimuth and zenith angles at the time of triggering and later use of these incorrect angles with the distance to the prisms to calculate the CRAB location. Errors affecting single points are usually easy to detect and remove.

31. An additional but unquantified source of error results from the thermal expansion and contraction of the CRAB frame and its liquid-filled tires. There is also some "error" introduced into the data by averaging the elevation over the 8.2-m base of the CRAB. The prism and the stadia board were mounted in the vertical plane of the back wheels equidistant between them. Some small error also occurs when sediment is compressed by the weight of the CRAB. Divers have observed tread marks on the bottom following the passage of the CRAB. No adjustment to the data has been made to account for these effects. It is suspected that they may be on the order of 3 to 6 cm. This amount of variation combined with the slight uncertainty of the over 100 different instrument setups results in a survey noise level that obscures small bed-level changes along the offshore reaches of the profiles.

Error minimization

32. Two steps were taken to minimize the errors associated with the operation of the Zeiss. First, only known locations were chosen as sites for the setup of the instrument, random locations were not used, and each survey always began with a shot to a prism in a known location. If the measured location of the prism was outside certain tolerances, ± 6 cm horizontal or ± 1.5 cm vertical, the instrument was restationed. Second, periodic checks to the reference prism during the course of the survey helped ensure that the instrument had neither gone out of level nor was in need of restationing.

Error identification

33. Errors in the data are most easily recognized through comparison with the past data collected for that profile. All data were compared with the immediately prior survey of the profile. More often than not, this comparison shows where possible errors occur. The suspect points can then be inspected more carefully and a decision made as to whether the point or points were in error or represented real changes on the profile. Figure 7 shows the

utility of comparison. Questionable data, where no clear error could be discerned, were noted and compared with the next survey as well. This provides a double check. Errors were also identified using the measured location of the reference prism shot in during the stationing procedures. Use of these measurements will be discussed in the next section.

Error correction

34. Corrections made to the data consist of two primary types; deletion of points, and addition or subtraction of biases. The biases were either constant because of improper stationing of the instrument or gradual (distance dependent) resulting from improper leveling of the instrument. Vertical errors from mis-leveling become increasingly evident with increasing distance. Vertical corrections to the data were made employing the known elevation of the reference prism and by comparison with surveys of the same profile immediately before and after the questionable data.

35. Most often the constant vertical offsets were the result of either improper stationing of the instrument (setting its elevation incorrectly), or, rarely, improper entry of the elevation of the prism cluster on the CRAB. Both of these errors could be traced to the data through the recorded setup procedure. If there was no evidence of a mistake in stationing the Zeiss or entry of the prism height, removal of the suspected bias was dependent on two factors; the bias had to extend over the entire profile (past the normal closure point), and there had to be no reason to expect evidence of profile activity at depth. For instance, if the measured profile showed significant erosion at a depth below the extreme profile closure depth during a period of below-normal wave activity, errors were strongly suspected. However, the bias was removed from the data only after a second survey of the profile further indicated that an error had been made.

36. Gradual biases, or rotations of the data, which result from calibration or leveling errors rather than stationing errors, can be more difficult to discern in the data. These corrections were made only to the early level and stadia board data. The shift in the data could be directly attributed to a miscalibration of the automatic level, or to a leveling error during or after setup of the instrument. The rotation needed to correct the data was determined by recalibration of the level.

37. Another category of data editing was the removal and/or correction of obviously erroneous data points. These points were usually the result of

improper entry of the height of the CRAB prism cluster into the Zeiss, errors due to the incorrect targeting of the prism cluster, or points which were unaccountably, but obviously, wrong.

38. The data were also corrected for the angle of tilt of the CRAB. The CRAB operator measures the two orthogonal angles on the main axes of the CRAB. Angles greater than 4 deg are radioed to the Zeiss operator who enters them into the recorded data. The angles are automatically accounted for during processing of the data.

39. Corrections made to the data, (except CRAB tilt corrections), are recorded in processing and data-collection logbooks and are coded into the data file. The meaning and format of the codes are presented in Appendix B.

Special Notes on the Survey Data

40. A number of surveys within the data set require specific discussion regarding data quality. The early stadia surveys (January to 1 June 1981) have already been described. From approximately 14 December 1982 until 9 February 1983, the Zeiss Elta-2 was intermittently producing questionable results which appeared as a systematic vertical error. From 24 February 1983 through 28 March 1983, the instrument was being repaired and alternate methods were employed. These included the use of the stadia board and automatic level to determine elevation and a Motorola Mini-Ranger positioning system to determine offshore distance (24 February to 3 March). A loaner Zeiss instrument was also employed (22 March to 28 March).

41. Because this was an unusually active period of profile response with a number of significant storms occurring, the data during this period have been retained in the data set. They do accurately reflect the changes in profile configuration which occurred, but the horizontal and vertical accuracies are less than for the remaining CRAB/Zeiss data.

42. Data prior to December 1981 were saved only to whole feet in distance and tenths-of-a-foot in elevation (normal accuracy for beach profile data). Because of the greater accuracy of the CRAB/Zeiss data, subsequent data are stored to tenths-of-a-foot in distance and hundredths-of-a-foot in elevation. This too has an impact on the overall accuracy of the data.

PART III: PROFILE RESULTS

43. The data presented in this report have been described by Birkemeier (1985a). Some of the discussion from that report is repeated here as an aid in interpreting the data. Profile changes at the FRF occur at time scales ranging from minutes to annual cycles and longer. Time scales resolvable with the data in this report vary between a few days and 1 to 2 years. Though the profiles have varied in configuration from nearly unbarred to triple barred, they typically exhibit a double bar with a narrow and well-defined inner bar and a broad outer bar. Figure 8 illustrates five of the configurations observed during the study.

44. The profile envelope defined by all surveys of line 188 is shown in Figure 9. The plot of maximum vertical change in the upper half of Figure 9 indicates most profile activity is restricted to depths less than 7 m with little measurable vertical variation at deeper depths (only 15-cm maximum variation at 8-m depth). It is not clear how much of this 15 cm is real. Birkemeier (1985b) examined the changes within the data set caused by storms and found that significant storm-induced bed-level changes (>3 cm) occurred at depths less than -6.4 m relative to mean low water (-6.8 m below National Geodetic Vertical Datum, NGVD).

45. One of the best indicators of profile configuration and activity is the location of the bar crest. Large changes to the profile in terms of volume changes always result in movement of the bar system. Minor storms typically force only the inner bar offshore, while larger storms may move both bars offshore, depositing sand in deeper water. Storm changes were rapid, occurring over periods of 1 to 5 days. The rapidity of these changes is discussed further in Sallenger, Holman, and Birkemeier (1985).

46. Onshore bar movement usually corresponded to periods of low waves between storms. The speed and the amount of recovery were affected by the wave conditions and by the poststorm configuration of the profiles. All the bar features tended to disappear during extended periods of low wave conditions.

47. An example of the modifications caused by storms is shown in Figure 10. The surveys bracket a series of three storms with the most severe occurring 13-15 November 1981. In contrast, the slow recovery from the changes caused by the fall 1981 storms occurred during 6 months of relatively

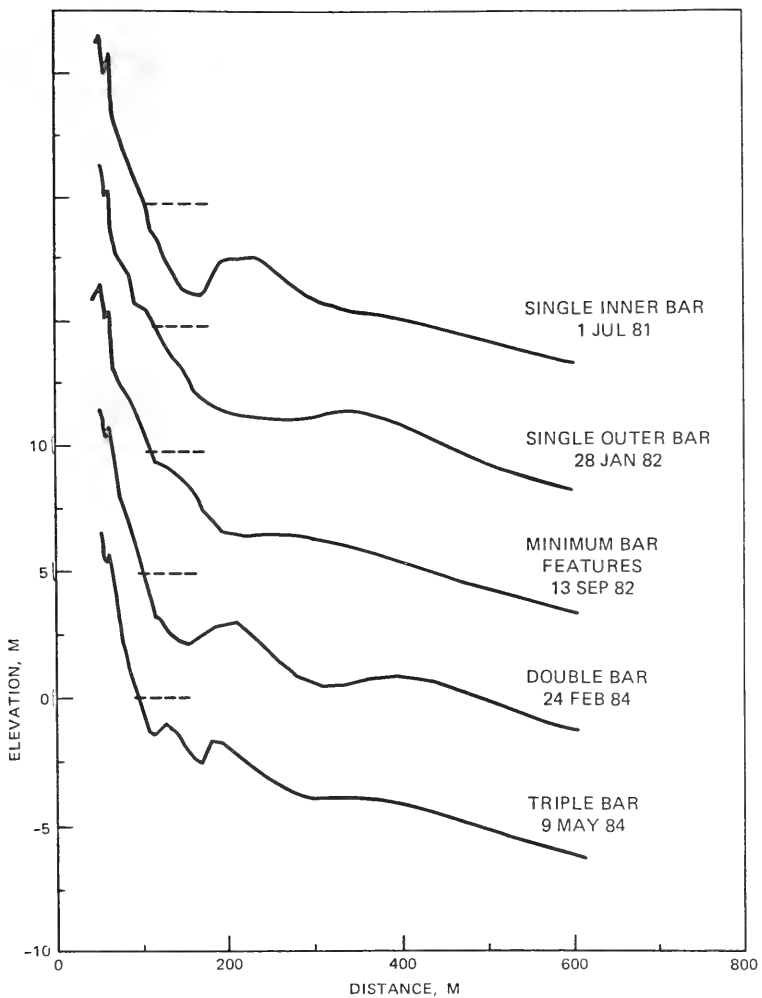
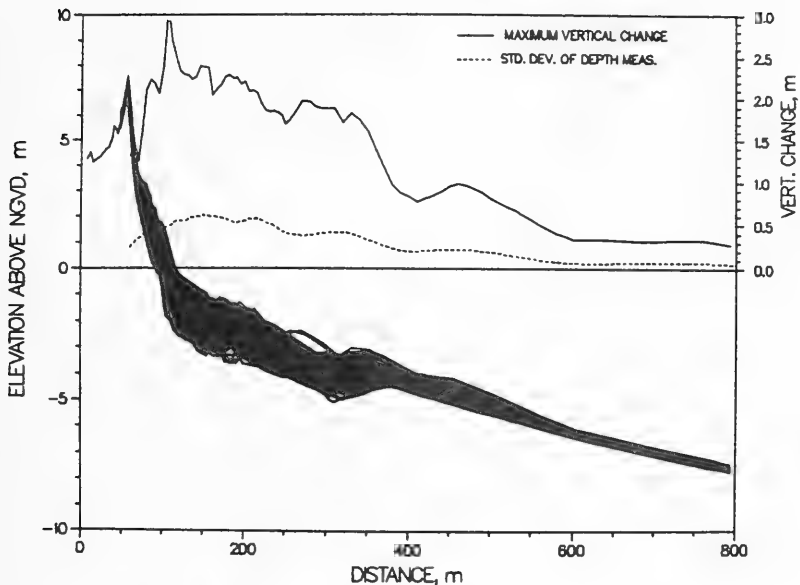


Figure 8. Typical profile configurations occurring in the data set for profile line 62

calm conditions from February to August 1982 (Figure 11).

48. A critical feature of this data set is the fact that four profiles separated in space were measured. Thus, some feeling for the three-dimensional response of the beach is possible. Users of these data are



PROFILE LINE 188, 127 SURVEYS FROM 20 JAN 81 TO 17 DEC 84

Figure 9. Envelope of all surveys of profile line 188

referred to Sallenger, Holman, and Birkemeier (1985) and Howd and Birkemeier (1987) for a discussion of the rapid three-dimensional changes that have been observed at the FRF. As an example, Figure 12 shows profiles 58 and 62 for a sequence of days during October 1982. Initially, both profiles show the bar moving offshore. By the 15th, the bar has begun to migrate onshore at line 62, but continues to move offshore along line 58. (These two profile lines are separated by less than 100 m.)

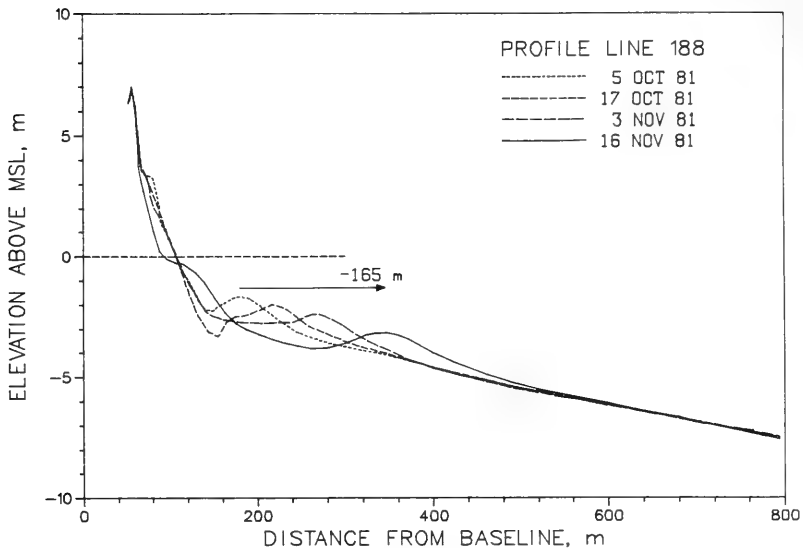


Figure 10. Rapid offshore movement of sediment at line 188 resulting from passage of three fall 1981 storms

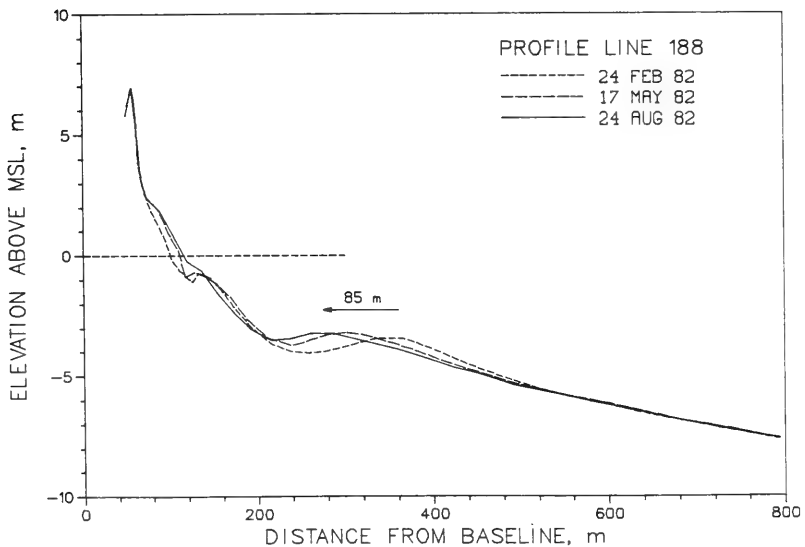


Figure 11. Slow onshore recovery of the outer bar during a 6-month period of low wave conditions

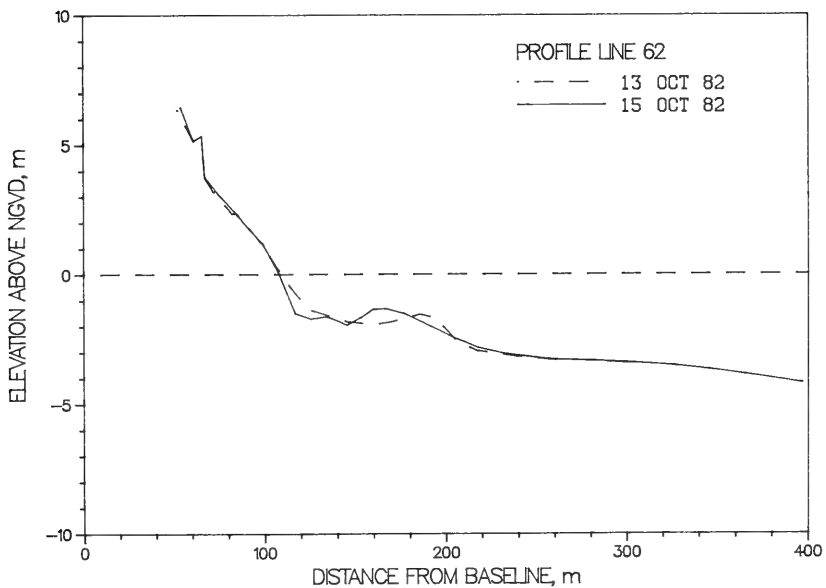
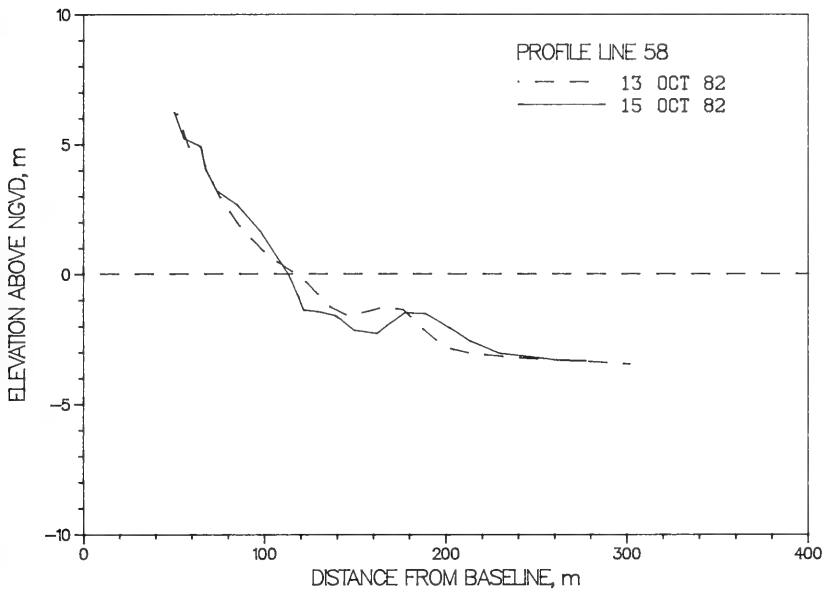


Figure 12. Evidence of three-dimensional profile response at lines 58 and 62 during October 1982

PART IV: WAVE AND WATER-LEVEL DATA

Wave Height and Period

49. The wave heights plotted in Appendix D and tabularized in Appendix E were collected as part of the routine collection program of the FRF Measurements and Analysis work unit. Details of the collection of this data are available in the FRF Annual Data Summaries (Miller 1984; Miller et al. 1985, 1986). The data from a number of gages are sampled at 4 Hz, every 6 hr (hourly during storms) for 20 min. The energy-based significant wave height H_{m0} is computed as four times the standard deviation of the 20-min record. The wave period is computed as period associated with the peak of the wave spectra.

50. To provide as complete a record as possible, data from two gages have been combined. The majority of the record is from Gage 625, a Baylor wave staff gage located at the seaward end of the pier. When this gage was inoperative, data from Gage 620, a Waverider buoy located directly off the pier end in 18 m of water, were transformed to the pier end location using the method of Hallermeier (1983). This method considers frictional dissipation and was developed using data from the FRF.

51. During large storms, Gage 625 was in the surf zone and wave heights were saturated, i.e., limited by wave breaking. The maximum wave height limit depends on water level but is usually under 3 m. The maximum recorded wave height of 3.5 m occurred during a storm in November 1981 that coincided with abnormally high spring tides.

52. The tables in Appendix E contain daily measurements of wave height and period for wave heights under 2 m and measurements every 6 hr for waves over 2 m.

53. More detailed wave information, including wave spectra and data from other gages, is available through the CERC Coastal Engineering Information and Analysis Center (CEIAC).

Water-Level Data

54. The water-level data presented in Appendix F were measured at a National Oceanic and Atmospheric Administration/National Ocean Service (NOAA/NOS) tide station located at the end of the research pier. The data are recorded every 6 min. NOS interpolates missing values using data from nearby gages, accounting for known time lags and elevation differences. The data presented in Appendix F represent the total water-level variation including both the astronomical tides and storm surges. The storm surge is usually defined as the difference between the actual water level and the predicted tides. The total water level should give a better indication of possible forcing of profile change than would the predicted tides or storm surge alone.

55. Because of the voluminous amount of water-level data, Appendix F includes only plots of the water level. More detailed data are available through CEIAC or from NOAA/NOS.

PART V: SUMMARY

56. Four years of high-quality beach profile data collected at the FRF are presented. These data are unique in that they cover the most active part of the profile from the dune out past the depth of closure. The data offer a rare look at the dynamic and often surprising changes that naturally occur in the nearshore zone. The majority of the profile data were collected using the FRF CRAB and a highly accurate electronic surveying instrument. Some relevant dynamic parameters to profile change (wave height, period, and observed tides) are also presented.

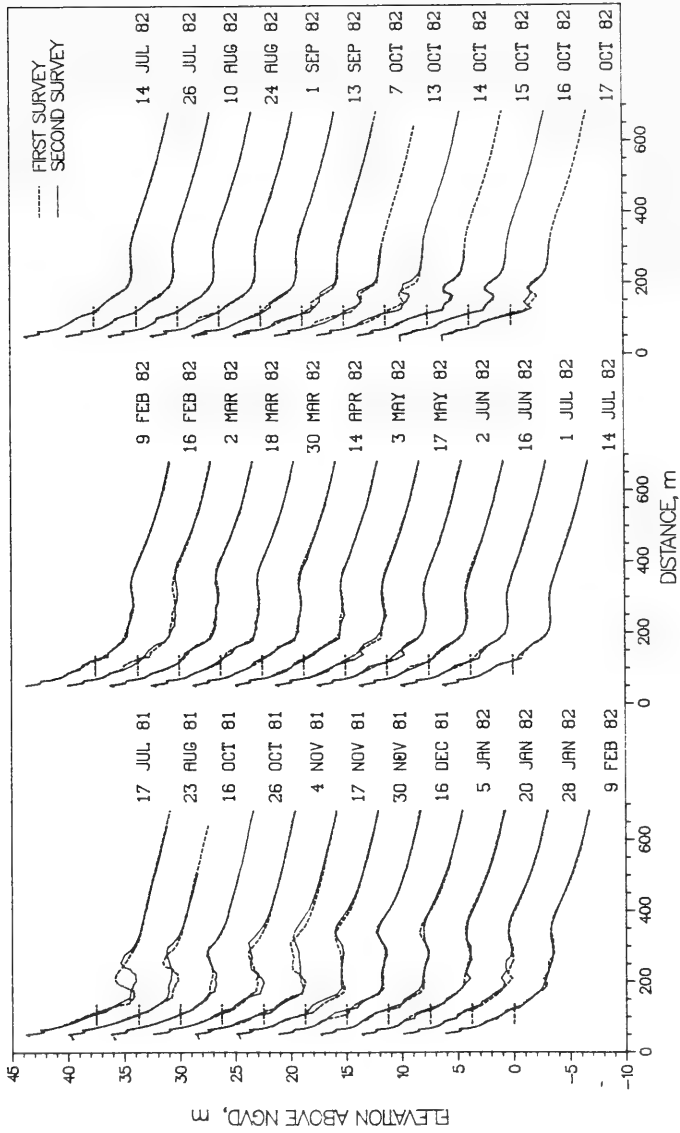
57. The data should be useful to coastal engineers and researchers who need to have an understanding of the dynamic nature of the nearshore zone. They can provide input and calibration data to numerical and physical models of profile changes. Long-term and seasonal profile envelopes can be computed and used as a guide for determining cable and ocean outfall burial depths and where best to place wave- and current-measuring instruments.

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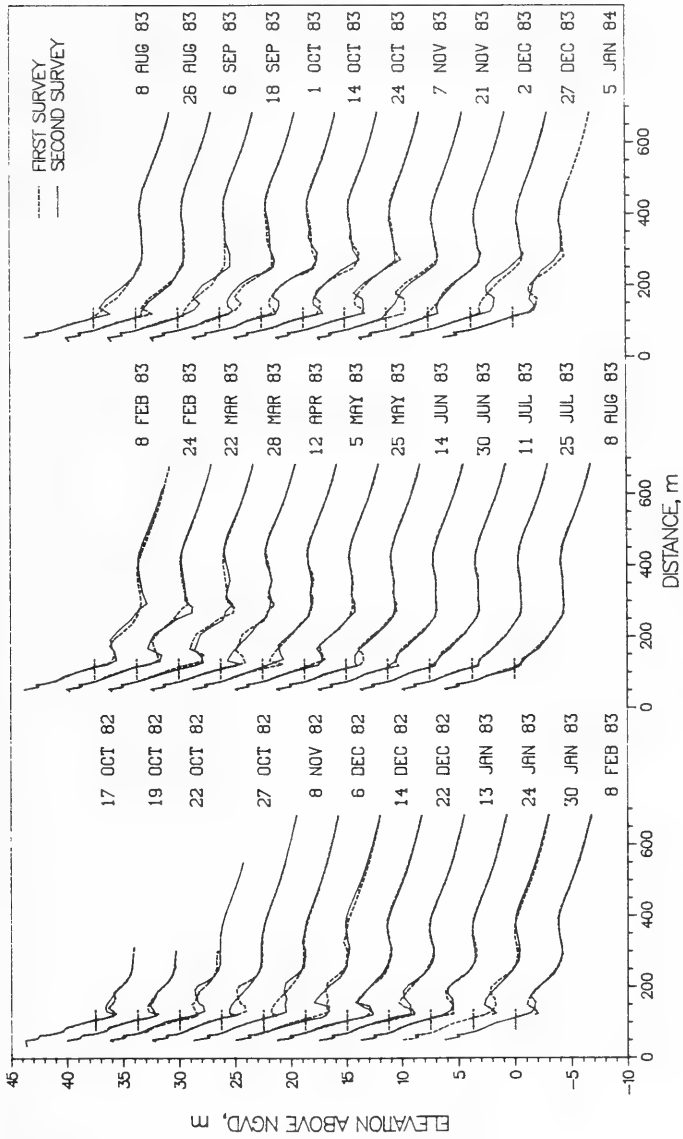
APPENDIX A: SURVEY PLOTS, 1981-1984

This appendix contains plots of the survey data included in Appendix B. The plots are presented by profile number, starting from the north end of the Field Research Facility property. Refer to Figure 1 of the main text for the location of the profile lines with respect to the pier. Each profile is plotted along with the preceding profile; thus, the change between surveys can be seen. The most recent survey is shown as a solid curve; the previous survey is dashed. The dates of the surveys are given to the right of the data; the lower date corresponds to the solid line.



PROFILE LINE 58

Figure A1. Profile line 58, 17 Jul 1981 - 17 Oct 1982



PROFILE LINE 58

Figure A2. Profile line 58, 17 Oct 1982 - 5 Jan 1984

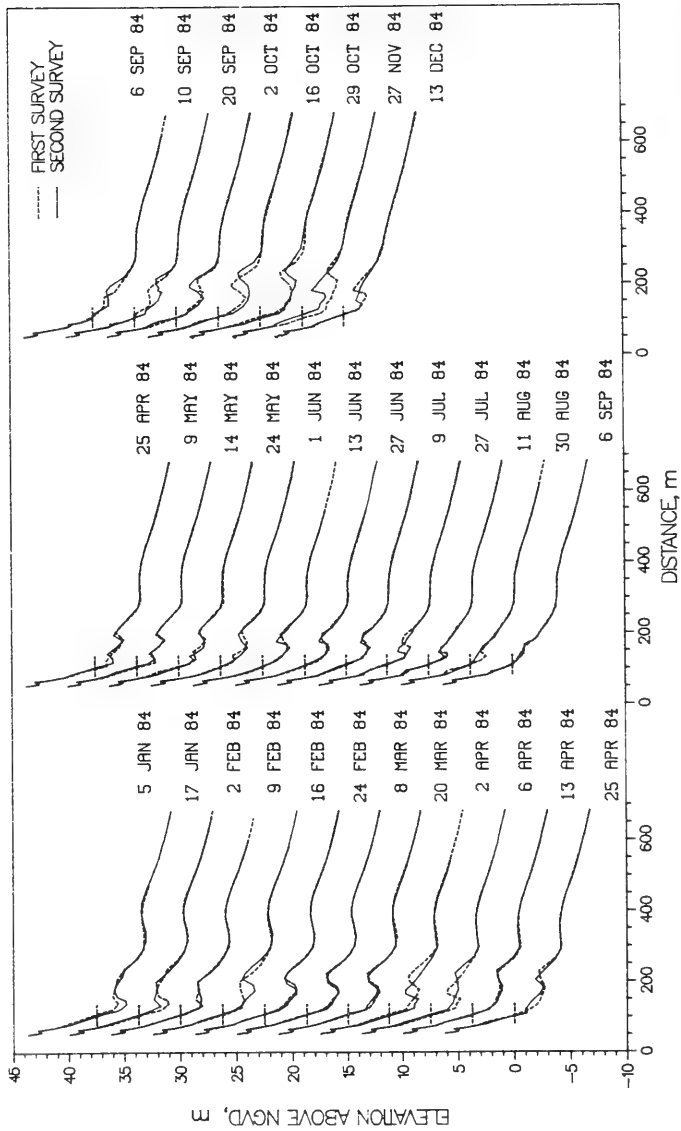
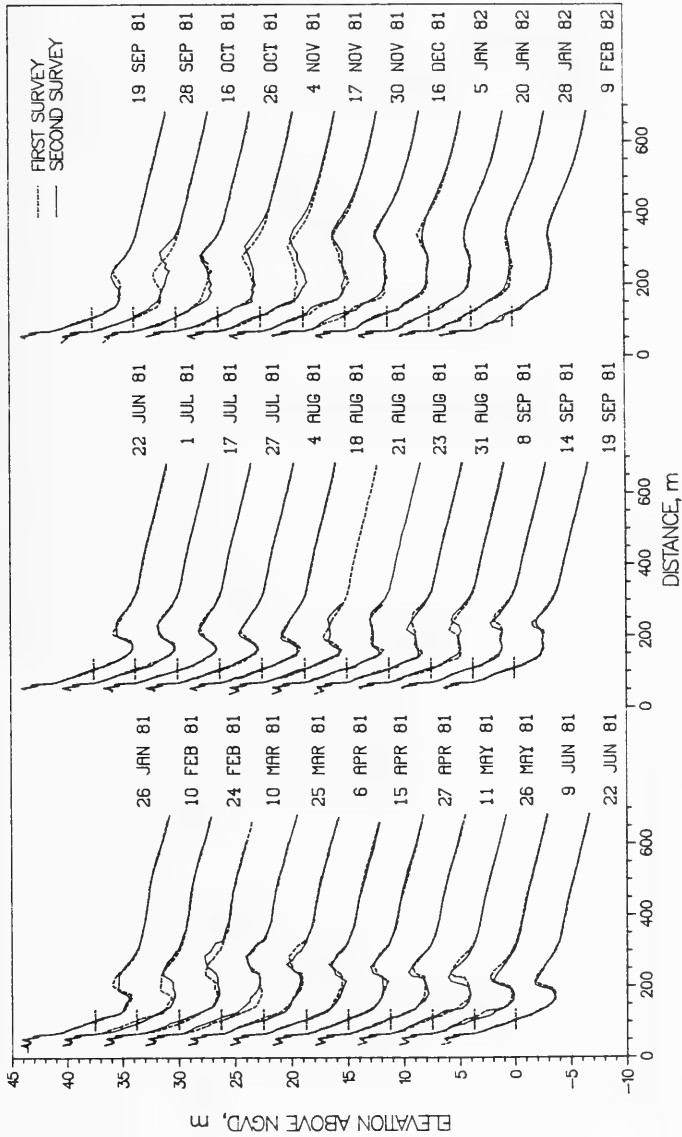


Figure A3. Profile line 58, 5 Jan 1984 - 13 Dec 1984



PROFILE LINE 62

Figure A4. Profile line 62, 26 Jan 1981 - 9 Feb 1982

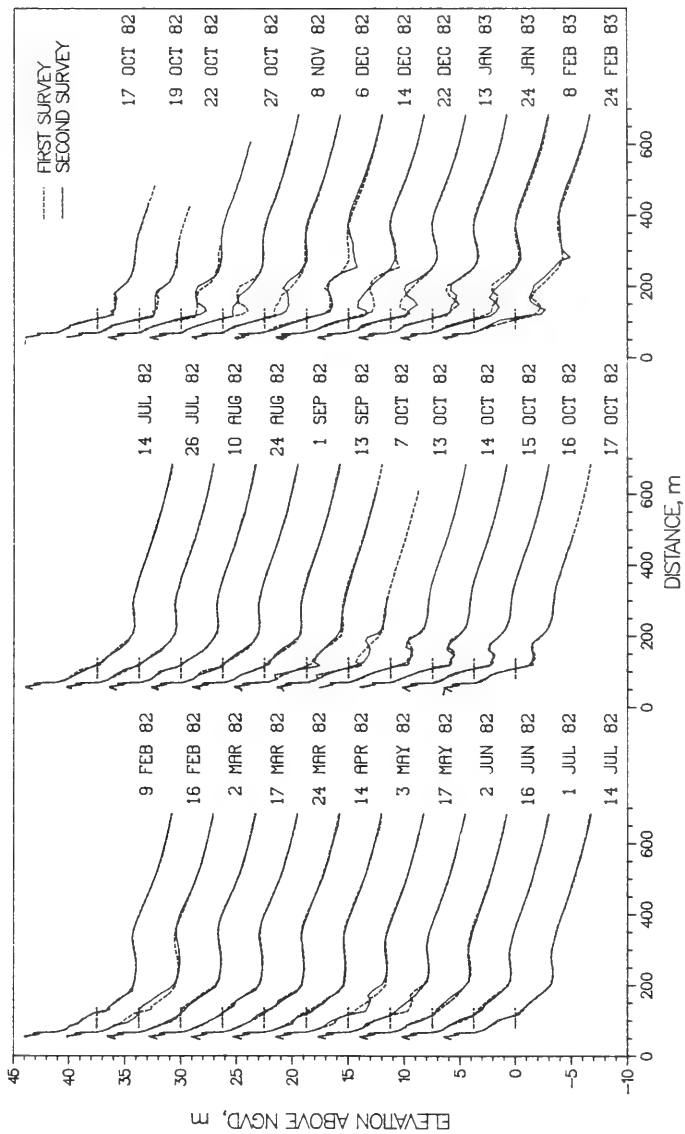


Figure A5. Profile line 62, 9 Feb 1982 - 24 Feb 1983

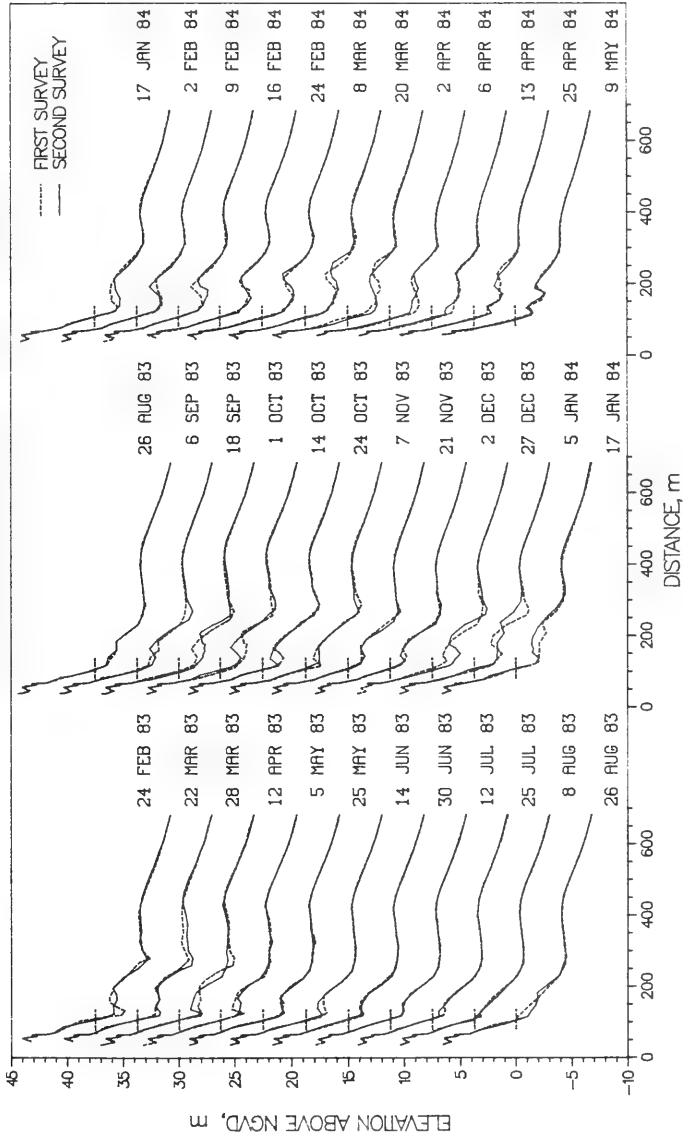
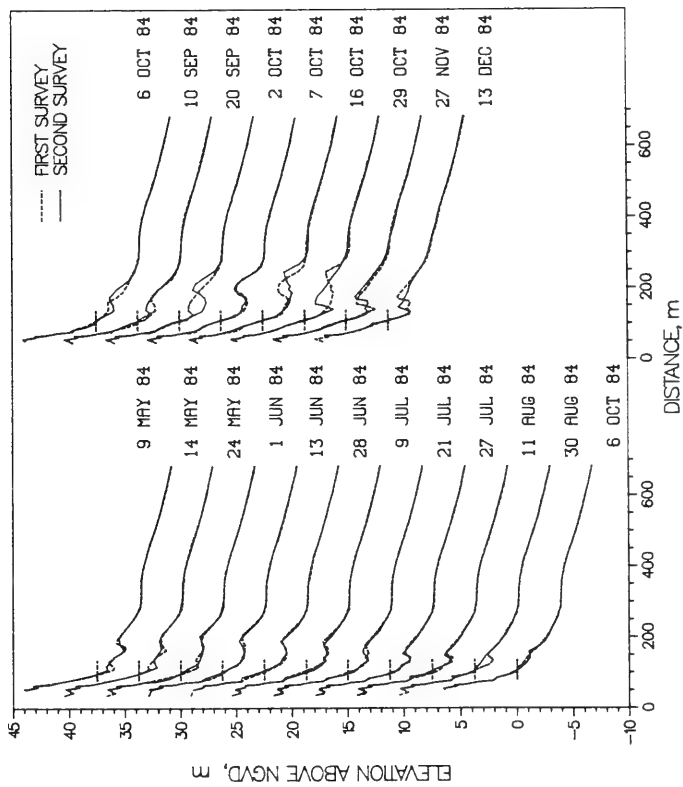
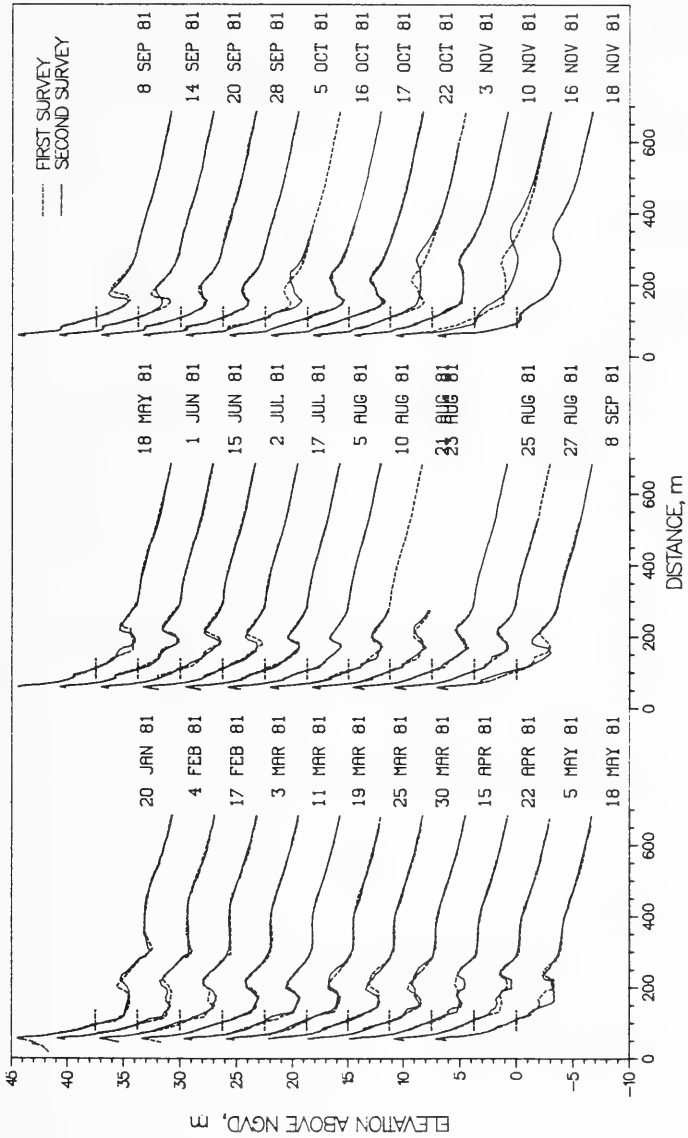


Figure A6. Profile line 62, 24 Feb 1983 - 9 May 1984



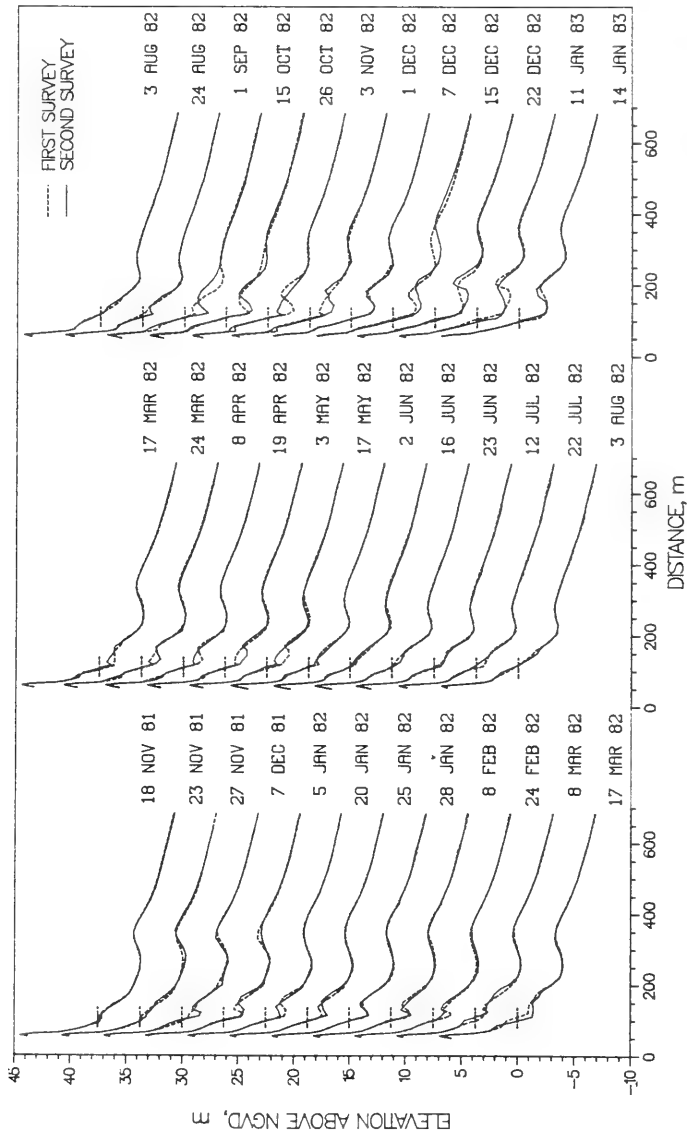
PROFILE LINE 62

Figure A7. Profile line 62, 9 May 1984 - 13 Dec 1984



PROFILE LINE 188

Figure A8. Profile line 188, 20 Jan 1981 - 18 Nov 1981



PROFILE LINE 188

Figure A9. Profile line 188, 18 Nov 1981 - 14 Jan 1983

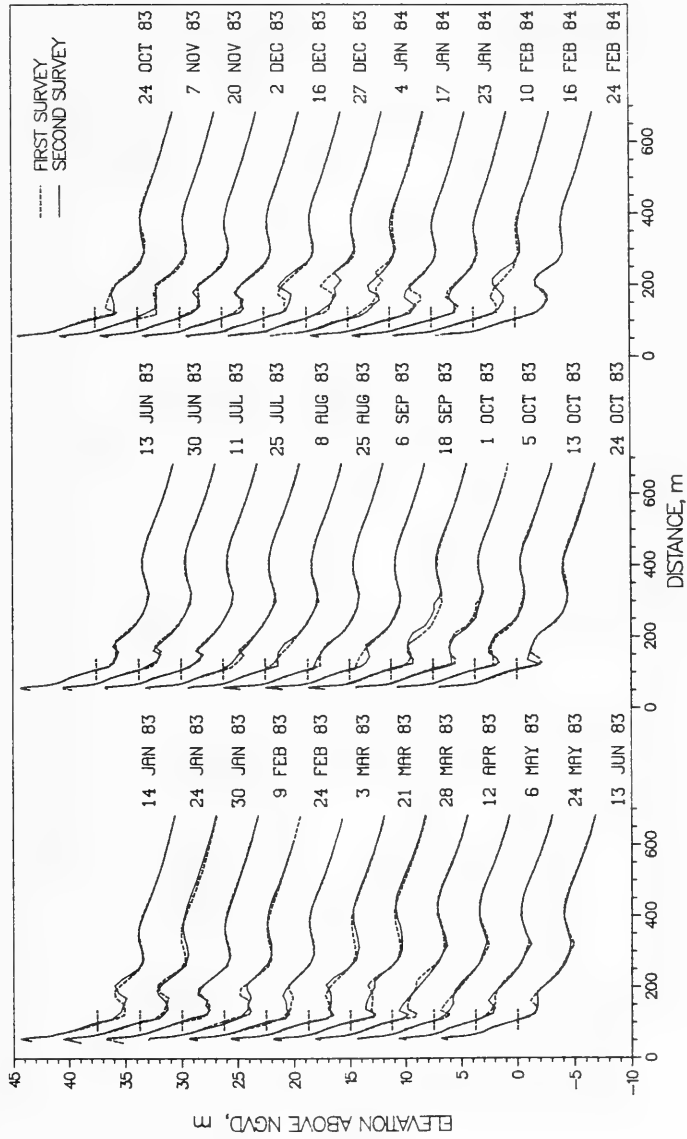
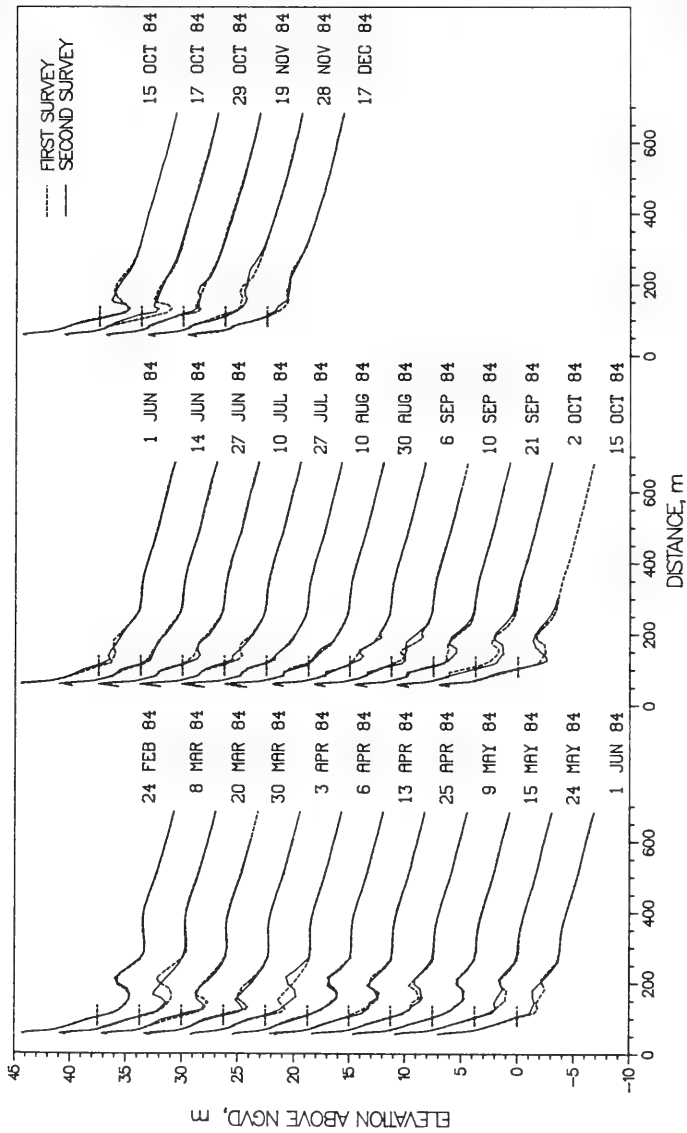
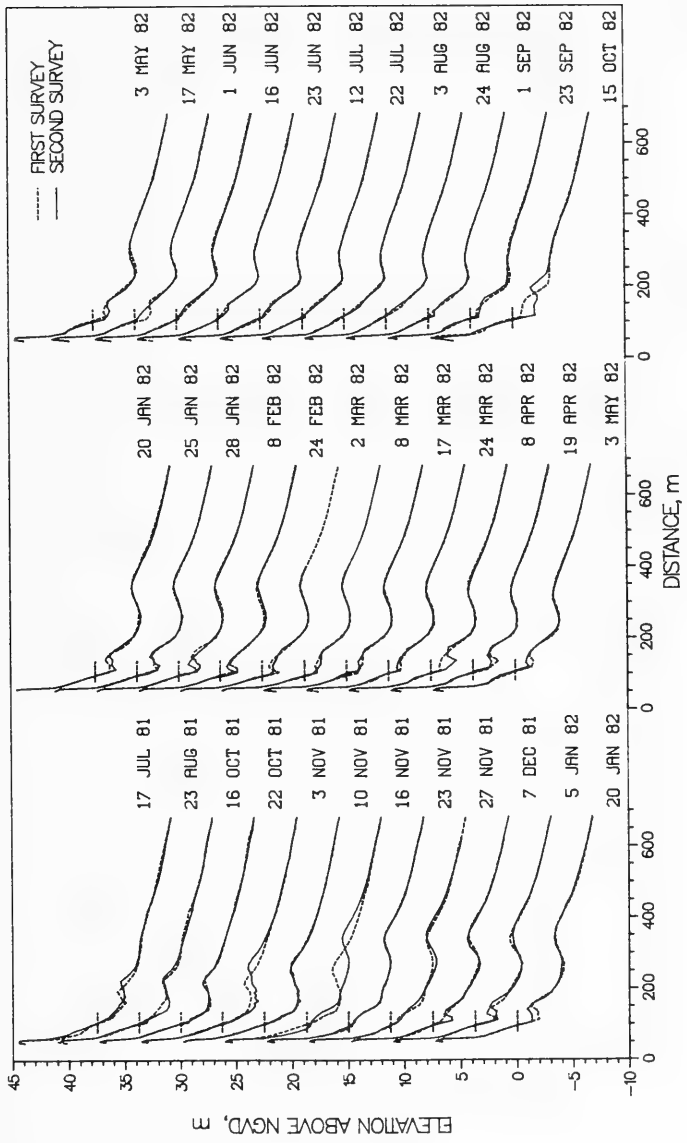


Figure A10. Profile line 188, 14 Jan 1983 - 24 Feb 1984



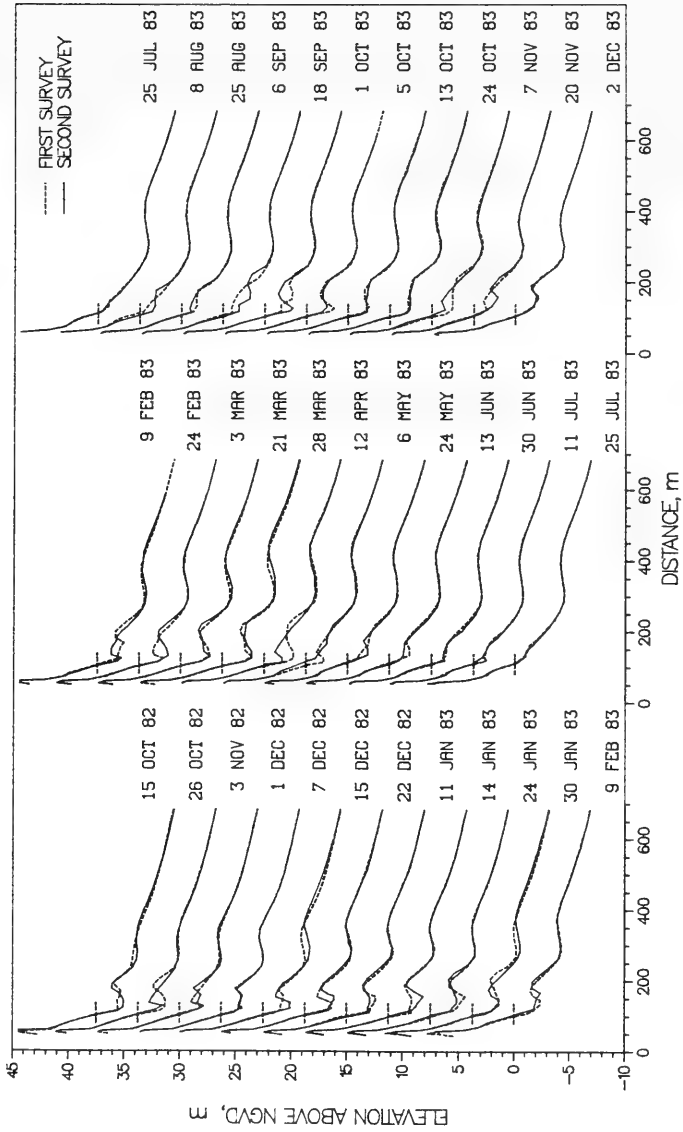
PROFILE LINE 188

Figure A11. Profile line 188, 24 Feb 1984 - 17 Dec 1984



PROFILE LINE 190

Figure A12. Profile line 190, 17 Jul 1981 - 15 Oct 1982



PROFILE LINE 190

Figure A13. Profile line 190, 15 Oct 1982 - 2 Dec 1983

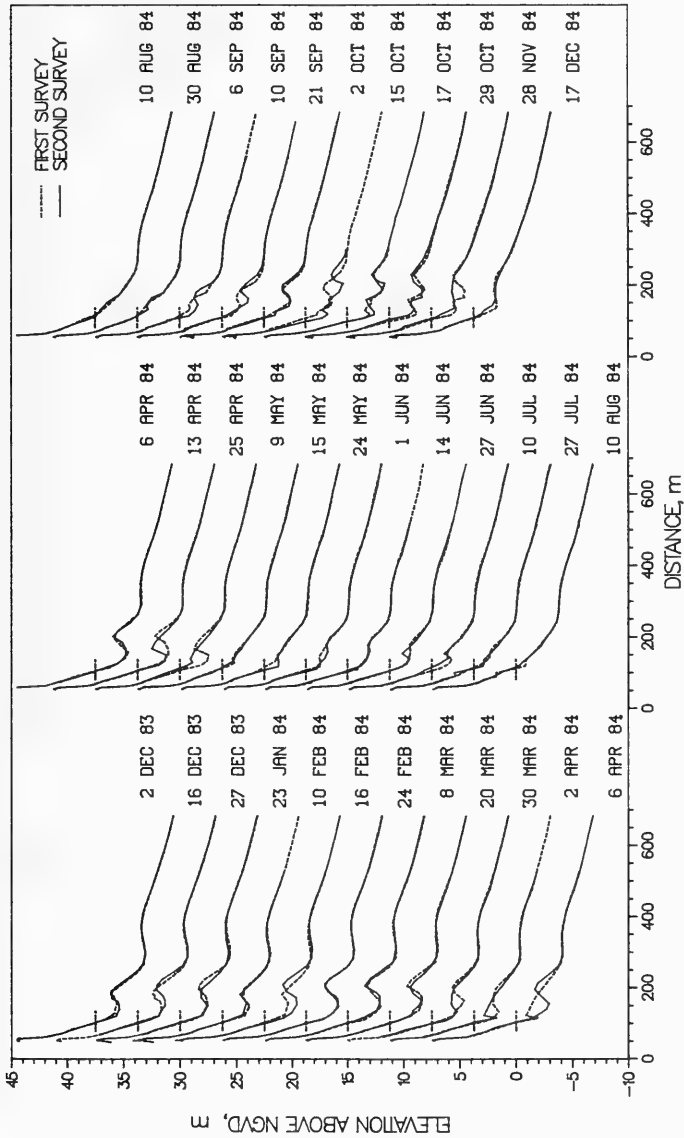


Figure A14. Profile line 190, 2 Dec 1983 - 17 Dec 1984

APPENDIX B: SURVEY DATA LISTING

1. This appendix contains the profile data in BPAS Edit 2 card format (Fleming and DeWall 1982),* along with a checksum value. When entering the data into a computer, do not enter any values past column 80. These are produced when the data are run through the program given in Appendix C. Use the given values to check your version for possible data-entry errors.

2. The format of the data is as follows:

First card in each record

<u>Position</u>	<u>Entry description</u>	<u>Format</u>
1-2	Locality Code (ILOC)	A2
3-5	Profile line number (IPROF)	I3
6-9	Survey identification number (ISUR)	I4
10	Card number (always 1 for first card) (N)	A1
11-16	Date of survey (IDATE)	I6
17-21	Time of survey (ITIME)	I5
22-24	Number of coordinate pairs for survey (I)	I3
25-29	Minimum elevation for survey (MIN)	F5.2
30-40	Data change codes (INFO)	A11
41-80	First four distance-elevation pairs (Y,Z) 4(F5.1,F5.2)	

Continuation Cards

1-9	Same as for first card	
10	Card number (2-9, then A-Z)	A1
11-80	Seven distance-elevation pairs	7(F5.1,F5.2)

If there are exactly four coordinate pairs (only one card needed), there must be a second blank card following.

3. The format statement to read the data is as follows:

```
READ (??,????) ILOC, IPROF, ISUR, N, IDATE, ITIME, I, MIN,
.INFO, (Y(J), Z(J), J=1,I)
???? FORMAT (A2,I3,I4,A1,I6,I5,I3,F5.2,A11,4(F5.1,F5.2),/, (10X,
.F7(F5.1,F5.2)))
```

4. The correction codes contained in the INFO field have the following meanings:

G = Gradual correction	C = Constant correction
H = Horizontal correction	V = Vertical correction
D = Deletion of points	A = Addition of points
E = Entire profile	S = Selected random points
O = Offshore points	B = Beach points
MR = Mini-Ranger data	

* See References at the end of the main text.

The remaining space is used to give an indication of the magnitude of the changes made, either by the inclusion of the number of points affected or by the magnitude of the change, or both.

5. The survey data are shown in Table B1.

Table B1

Survey Data for Lines 58, 62, 188, and 190 for 1981-1984

39 58	291810717	1200	50-3200			1550	1980	1680	2050	1830	1690	1940	1540	56			
39 58	292	2100	1530	2220	1340	2450	1040	2620	930	2750	800	2900	710	3080	590	0	
39 58	293	3350	340	3390	370	3790	0	4090	-300	4390	-620	4620	-980	4890	-1000	13	
39 58	294	5050-1100	5240-1100	5720-1110	6090	-830	6430	-610	6830	-540	7260	-580	750	750	750	75	
39 58	295	8190	-810	9040	-990	9670-112010510	-125011700	-135012740	-141013880	-1490						45	
39 58	296	15040-158016240	-167017610	-179019270	-192021260	-208022410	-217023870	-2260								15	
39 58	297	25670-239027100	-247028460	-254030200	-265031490	-273032950	-280034210	-2900								18	
39 58	298	35390-295036600	-301037870	-306039340	-3200											31	
39 58	371	810823	1600	43-2080			1690	2050	1810	1720	1940	1550	2140	1640		16	
39 58	372	2240	1330	2400	1130	2490	1000	2840	630	3280	310	3620	-10	3820	-270	46	315
39 58	373	4080	-380	4310	-500	4660	-680	4900	-850	5130	-980	5440	-1000	5680	-1010	6	
39 58	374	5910-1020	6080-1060	6360-1090	6630-1160	6980-1150	7260-1150	7510-1030								37	
39 58	375	7750	-990	7970	-790	8330	-710	9080	-820	9610-104010030	-113010460	-1200				68	
39 58	376	11060-128011830	-134012630	-140013410	-148014180	-153015120	-160016090	-1670								42	
39 58	377	16840-175017900	-184019320	-194021000	-2080											73	
39 58	46	1811016	1600	39-1760			1240	1910	1240	1940	1500	1960	1690	2020		99	
39 58	462	1870	1620	2070	1560	2080	1590	2200	1410	2710	730	2820	620	3140	330	67	
39 58	463	3400	90	3750	-150	4010	-360	4400	-540	4870	-760	5210	-850	5660	-890	26	
39 58	464	5970	-870	6340	-900	6340	-900	6690	-940	7180	-970	7680	-970	8060	-930	54	
39 58	465	8390	-900	8760	-860	9030	-830	9440	-830	9760	-86010110	-101010390	-1080			88	560
39 58	466	10790-118011610	-131012630	-143013450	-148014270	-156014890	-162016570	-1760								13	
39 58	49	1811026	1400	45-2380			1700	2030	1910	1580	2150	1570	2320	1200		52	
39 58	492	2520	920	2770	670	2850	620	3020	460	3310	210	3570	20	3870	-280	9	
39 58	493	4110	-380	4470	-530	4780	-680	5090	-760	5430	-850	5670	-1020	5920	-1020	88	
39 58	494	6150-1060	6500-1070	6760-1030	7010-1070	7310-1080	7660	-960	7880	-960						36	
39 58	495	8200	-900	8530	-860	8950	-790	9400	-810	9820	-92010490	-110011210	-1230			40	
39 58	496	12020-136012730	-143013420	-149014440	-157015450	-167016570	-176017550	-1850								56	
39 58	497	18920-195020130	-203021530	-212022830	-223023990	-230025650	-2380									99	
39 58	50	1811104	1545	43-2920			1700	2010	1920	1570	2180	1460	2460	990		28	
39 58	502	2680	740	2820	590	3060	420	3520	200	3900	-100	4040	-290	4420	-410	13	434
39 58	503	4950	-660	5200	-830	5480	-1140	5720	-1160	6090	-1200	6450	-1250	6860	-1190	93	
39 58	504	7280-1050	7710	-870	8160	-850	8790	-900	9460	-85010170	-84010860	-1010				83	
39 58	505	11790-125012770	-140013710	-151014840	-162016160	-174017300	-183018410	-1900								51	
39 58	506	20220-205021950	-217023450	-228025000	-237026630	-246028140	-254029880	-2670								85	
39 58	507	31360-271032520	-280033610	-286034700	-2920											9	
39 58	52	1811117	1330	48-2650			1280	1920	1550	1960	1690	1980	1700	2030		93	
39 58	522	1810	1730	1920	1580	2030	1560	2140	1650	2210	1290	2360	1080	2510	910	79	
39 58	523	2530	920	2820	760	3110	490	3500	140	3690	-200	3980	-320	4480	-520	53	
39 58	524	4850	-720	5230	-990	5670-1170	6090-1180	6560-1110	7080-1090	7780-1090						35	
39 58	525	8290-1080	8830-1060	9410-1040	9980	-97010690	-89011290	-94012040	-1090							99	680
39 58	526	12470-119013310	-137014250	-149015100	-159016250	-170017350	-179018880	-1920								77	
39 58	527	20820-208022020	-217022850	-222024140	-231025380	-239026740	-246027880	-2530								4	
39 58	528	29170-259030380	-2650													82	
39 58	55	1811130	1100	43-2540			1700	2020	1800	1760	1940	1570	2140	1530		87	

(Continued)

(Sheet 1 of 61)

Table Bl. (Continued)

39 58	552 2190 1300 2500 960 2570 900 2700 810 2800 770 3120 580 3340 230	58
39 58	553 3630 -40 4010 -120 4360 -210 4660 -360 4980 -600 5420 -940 5980-1090	39
39 58	554 6410-1070 6900-1080 7500-1070 8140-1110 8700-1130 9220-1160 9880-1120	99
39 58	55510520 -89001130 -89011710 -93012410-108013240-127013950-140014890-1540	70
39 58	55615950-166017080-178018150-188019500-199020690-208021880-215023200-2250	96
39 58	55724520-234025730-240026850-246027910-2540	73 685
39 58	571811216 1000 44-2626 1705 2010 1867 1640 2069 1567 2148 1554	51
39 58	572 2192 1299 2380 1040 2671 862 2916 776 3069 624 3320 520 3724 334	34
39 58	573 4043 -97 4163 -317 4464 -394 4779 -515 5179 -737 5554 -943 5904-1020	20
39 58	574 6306-1049 6665-1045 7068-1042 7402-1040 7900-1073 8432-1120 9008-1195	90
39 58	575 9621-118410336-103911079 -92111842 -98912637-113713463-130914385-1457	87
39 58	57615220-157616244-169517162-180518230-188119718-200121079-211822557-2218	88
39 58	57723911-230025206-237826374-245228463-256229561-2626	6
39 58	581820105 1200 48-2814 1571 1964 1706 2004 1772 1859 1845 1682	1
39 58	582 1946 1557 2049 1571 2138 1559 2193 1337 2263 1184 2441 1001 2566 916	82
39 58	583 2917 781 3297 599 3721 358 4092 -5 4532 -409 4921 -468 5406 -724	23 482
39 58	584 5788 -893 6219 -992 6578-1001 7048-1024 7534-1062 8103-1106 8654-1174	27
39 58	585 9173-1189 9828-112510443-106811405-104711729-105812358-111612814-1174	25
39 58	58613408-118514188-138015093-150716084-163917052-176218230-187619499-1982	63
39 58	58720698-208121949-217023267-225924932-235326709-246228171-254029678-2628	78
39 58	58831286-270932877-2814	83
39 58	591820120 1330 45-2647 1702 2011 1819 1711 1967 1569 2121 1593	73
39 58	592 2167 1445 2199 1284 2331 1075 2543 910 2711 854 2949 740 3158 466	63
39 58	593 3483 420 3671 287 3962 -42 4301 -266 4926 -548 5444 -780 6146 -983	39
39 58	594 6846-1183 7331-1058 7906-1125 8557-1222 9224-1196 9800-120310377-1087	13
39 58	59511015-107811573-109912283-114313165-127113956-138814724-149515654-1609	82 546
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(Sheet 2 of 61)

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(Sheet 3 of 61)

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(Sheet 4 of 61)

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(Sheet 5 of 61)

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39 58	1211	830826	1130	30-2631	1710	2018	1819	1741	1957	1608	2125	1672				62	
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39 58	1213	6233	-787	7243	-1169	8058	-1284	8827	-1417	9735	-143310603	-141611684	-1409			71	
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39 58	1243	4105	-381	4362	-358	4557	-253	4934	-235	5218	-260	5412	-295	5707	-357	84	
39 58	1244	6003	-439	6178	-499	6587	-617	6885	-755	7105	-868	7410	-1047	7601	-1289	53	
39 58	1245	7889	-1466	8187	-1589	8762	-1631	9346	-1561	9702	-150610140	-150210572	-1482			38	
39 58	1246	10983	-148811789	-146312440	-142813421	-136313951	-135414700	-138315780	-1492							29	
39 58	1247	16319	-155817630	-174918840	-188720194	-203321735	-216523033	-226424285	-2352							2	
39 58	1248	25453	-242426884	-250327970	-255929112	-261029878	-2651									6	
39 58	1261	831014	810	37-2401	1549	1962	1693	2030	1926	1620	2119	1646				69	
39 58	1262	2202	1471	2369	1236	2620	854	3092	536	3462	151	3863	-409	4293	-486	53	412

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(Sheet 8 of 61)

Table Bl. (Continued)

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39 58	126514351	-135815254	-145216121	-156417042	-168618036	-181918915	-190919871	-2002								97
39 58	126620994	-210621850	-217323174	-227224228	-234425207	-2401										49
39 58	1271831024	1330	37-2529			1549	1962	1693	2030	1926	1620	2119	1646			7
39 58	1272	2202	1471	2369	1236	2505	1049	2880	670	3249	327	3526	-1	3763	-334	70
39 58	1273	3962	-596	4427	-472	4710	-315	5209	-305	6020	-477	7070	-801	7921	-1165	6
39 58	1274	8882	-1673	9765	-148410977	-143711885	-140712867	-134214126	-135214841	-1420						14
39 58	127516101	-158117025	-170418091	-182719328	-195620578	-207421583	-215922721	-2241								26
39 58	127623549	-229824424	-235825374	-241226455	-247627440	-2529										57 454
39 58	1281831107	1500	29-2533			1692	2024	1819	1749	1981	1619	2116	1692			94
39 58	1282	2202	1505	2330	1292	2479	1087	2923	631	3450	62	3916	-529	4292	-575	5
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39 58	1291831121	910	29-2530			1501	1965	1686	2027	1896	1634	2103	1684			55
39 58	1292	2194	1504	2508	1049	3017	551	3458	135	4866	-279	5942	-476	6780	-764	33
39 58	1293	7647	-1158	8433	-1471	9279	-152810023	-144410946	-141511837	-135912879	-1328					83
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39 58	129523666	-231124951	-239626146	-246727182	-2530											36 442
39 58	1301831202	1035	28-2430			1689	2028	1825	1739	2129	1702	2205	1487			34
39 58	1302	2532	1028	3388	250	3930	-290	4452	-252	5097	-334	6008	-587	6942	-867	23
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39 58	132518989	-194720679	-210522651	-225024220	-235925513	-2425										34 387
39 58	1331840105	950	22-1558			1704	2021	1921	1622	2133	1724	2309	1319			57
39 58	1332	2432	1143	2592	978	3095	492	3616	31	4054	-491	4579	-638	5236	-480	72
39 58	1333	5939	-546	6877	-616	7832	-831	8721	-1192	9617	-139410490	-140211316	-1398			66
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39 58	1343	4495	-875	4838	-867	5196	-608	5807	-520	6458	-609	7036	-751	7744	-834	88
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39 58	1361840202	1355	25-2164			1709	2021	1963	1628	2134	1771	2247	1436			77
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39 58	1363	7475	-861	8418	-1147	9395	-135310281	-144711333	-142112357	-133913311	-1334					96
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39 58	1372	2493	1053	3074	445	3601	-135	4153	-563	4900	-624	5861	-530	6591	-509	94
39 58	1373	7384	-865	8134	-1117	8883	-1277	9787	-142910629	-144511597	-138312632	-1328				31

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(Sheet 9 of 61)

Table B1. (Continued)

39 58	1472	2200	1512	2499	943	2768	711	3343	96	3848	-539	4259	-523	4677	-370	56
39 58	1473	5190	-596	5873	-822	6415	-568	7128	-721	7921	-968	9024	-12901	0034	-1344	11
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39 58	147520176	-205021514	-215523061	-226024102	-232325078	-2392										76 534
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39 58	1483	5989	-806	6557	-586	7202	-738	8034	-983	8949	-1258	9406	-134310294	-1341		24
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39 58	1491840524	1045	35	-2544		1704	2034	1942	1636	2127	1769	2290	1352			91
39 58	1492	2585	824	2744	634	3228	201	3690	-259	4099	-446	4433	-330	4754	-529	98
39 58	1493	5206	-736	5697	-787	6212	-686	6800	-614	7221	-736	7648	-880	8222	-1083	39
39 58	1494	8952	-1243	9603	-130810435	-129811321	-130412269	-132013497	-141214567	-1520						46
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39 58	149625413	-238626722	-249427848	-2544												64
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39 58	150522234	-218823554	-226824767	-235025769	-240726833	-2490										18
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39 58	1512	2516	930	2971	434	3479	-16	3945	-387	4327	-549	4907	-714	5450	-717	96
39 58	1513	5747	-401	6104	-489	6815	-718	7524	-895	8251	-1119	9107	-1278	9952	-1324	73
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39 58	152411049	-129712157	-133613033	-138613719	-142914946	-156516083	-167517515	-1830								44
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39 58	152626129	-2436														25
39 58	1531840709	905	30	-2451		1707	2022	1913	1634	2095	1726	2483	1000			90
39 58	1532	2510	944	2899	633	3356	291	3837	-189	4226	-511	4718	-611	5163	-730	39
39 58	1533	5641	-447	6352	-558	6966	-806	7926	-1084	8520	-1210	9337	-128410244	-1302		66
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39 58	1551840727	1250	51	-2517		1685	2041	1847	1722	2007	1658	2129	1740			38
39 58	1552	2240	1437	2650	705	2876	636	3174	480	3523	33	3960	-306	4188	-521	56
39 58	1553	4585	-597	4774	-332	5149	-380	5565	-550	6040	-634	6523	-760	6980	-832	11
39 58	1554	7529	-992	8069	-1120	8520	-1214	9027	-1282	9418	-1290	9864	-131010615	-1306		1
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39 58	155719136	-196519735	-201220780	-209721455	-214022363	-221022963	-224723692	-2298								33
39 58	155824719	-237625306	-241126150	-245726620	-249227261	-2517										41
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39 58	1563	6367	-740	7387	-975	8403	-1196	9272	-129810416	-130711906	-132313023	-1395				19
39 58	156414509	-152615983	-168817382	-181718755	-194120309	-206221594	-214212029	-2244								96
39 58	156524218	-232726062	-244527476	-2524												20

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(Sheet 11 of 61)

Table B1. (Continued)

39 58 1571840830	1420 22-2046CVCHO	1703 2024 1905 1658 2117 1762 2214 1502	12
39 58 1572 2499	985 2647 711 3092 390 3565 -24 4299 -193 5239 -381 6065 -719		53
39 58 1573 7017	-808 8202-1176 9311-129210279-131811824-132212943-140514136-1486		18
39 58 158410570-164817296-181818550-192520100-2046			35
39 58 1581840906	1350 31-2467	1703 2024 1905 1658 2117 1762 2214 1502	48
39 58 1582 2499	985 2647 711 2930 598 2968 497 3208 251 3752 -85 4556 -340		31 419
39 58 1583 5427	-364 5890 -671 6550 -812 7344-1015 8053-1150 8802-1270 9813-1311		74
39 58 158410570-131811619-131712793-139813675-145614753-155915982-170217563-1843			41
39 58 158519111-197320468-207721677-215923257-228024928-238126153-2467			4
39 58 1591840910	800 29-2060	1688 2019 1819 1762 1928 1623 2077 1732	1
39 58 1592 2118 1748	2169 1548 2198 1525 2512 944 2714 496 2888 715 3072 340		92
39 58 1593 3281	142 3427 44 3968 -101 4619 -470 5238 -473 5988 -411 6446 -537		9
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39 58 1602 2343	1242 2492 987 2593 751 2797 640 3157 280 3501 -23 3824 -317		2 320
39 58 1603 4191	-355 4637 -549 5077 -704 5562 -768 5800 -810 5963 -700 6239 -724		27
39 58 1604 6595	-644 7045 -645 7369 -802 7919-1115 8558-1241 9321-128010130-1301		78
39 58 160511000-131411856-134812577-139213357-145614100-151614965-160215704-1679			41
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39 58 160721355-214921812-218622490-223223315-227924104-233624637-236825302-2405			20
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39 58 1611841002	1400 41-2378CV.160	1677 2025 1754 1925 1849 1703 1939 1637	32
39 58 1612 2017 1684	2110 1754 2187 1664 2208 1525 2342 1231 2479 1003 2514 966		76
39 58 1613 2653	821 2684 841 2878 731 3106 549 3627 -195 3936 -338 4649 -662		60
39 58 1614 5270	-818 5894 -614 6252 -400 6516 -405 7162 -617 7608 -887 8276-1164		75 477
39 58 1615 8996-1254 9642-128810463-129711404-132212450-139613495-147414395-1567			66
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39 58 1631841016	1200 44-2305	1641 2050 1713 2015 1809 1763 1887 1645	15
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39 58 1633 2395	1204 2549 1011 2578 967 2819 684 3269 283 3651 -115 3792 -405		54
39 58 1634 4044	-535 4442 -724 4998 -875 5411 -911 5843 -924 6418 -882 6827 -744		59
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39 58 163719637-202220933-212422189-221823222-227823752-2305			44 443
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39 58 1652 1882 1678	1975 1644 2128 1749 2177 1652 2209 1518 2521 991 2563 923		64
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39 58 1673 2910	724 2961 677 3146 513 3385 309 3550 127 3763 -93 3856 -156		51 419
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(Sheet 12 of 61)

Table B1. (Continued)

39 62	254 6010-1120 6140-1100 6340 -950 6460 -770 6680 -590 6910 -580 7220 -640	79
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39 62	25821860-215023080-223024560-233025760-241027130-249028290-257029200-2620	75
39 62	25930190-266031240-273032330-278033680-286034630-291036120-300037120-3060	71
39 62	271810701 1200 59-2360DB1 08 1690 2070 1760 2140 1840 2010 1940 1750	44
39 62	272 2000 1670 2060 1770 2100 1850 2160 1700 2230 1210 2340 1080 2500 910	95
39 62	273 2890 560 3100 410 3550 10 3740 -240 3780 -320 4100 -460 4270 -660	83
39 62	274 4570 -840 4790 -960 5040-1090 5260-1130 5680-1170 5870-1150 6000-1070	70
39 62	275 6260 -800 6390 -800 6590 -710 6790 -690 7180 -680 -670 7800 -680	1
39 62	276 8090 -730 8490 -830 8790 -910 9100-1010 9560-111010120-122010620-1280	68 607
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39 62	291810717 1200 46-3210 1580 1910 1770 2150 1990 1690 2110 1850	51
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39 62	293 3470 -80 3830 -470 4110 -600 4460 -790 4800-1020 5260-1160 5770-1100	26
39 62	294 6360 -840 6390 -710 7450 -640 7940 -730 9310-1090 9970-119010820-1310	57
39 62	29512410-141013790-150015340-161016980-175018490-187019820-198021340-2100	80
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(Sheet 15 of 61)

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(Sheet 17 of 61)

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(Sheet 18 of 61)

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39 62	93616603-176917657-186518337-192119271-199820250-207321307-214422061-2190	73
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39 62	945 8644-1103 9417-111510165-115210414-114710949-118011382-121412060-1298	9
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(Sheet 21 of 61)

Table B1. (Continued)

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(Sheet 22 of 61)

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(Sheet 23 of 61)

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(Sheet 24 of 61)

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(Sheet 25 of 61)

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(Sheet 26 of 61)

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(Sheet 27 of 61)

Table Bl. (Continued)

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(Sheet 28 of 61)

Table B1. (Continued)

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(Sheet 29 of 61)

Table B1. (Continued)

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39188 56 9390-1450 9740-1550 9990-159010190-153010790-149011290-146011490-1410	53	
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(Sheet 30 of 61)

Table Bl. (Continued)

39188	93	3070	320	3230	180	3330	90	3430	-40	3530	-180	3630	-270	3830	-370	67
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39188	95	5380	-1040	5780	-1060	5880	-1030	6230	-960	6480	-860	6530	-790	6830	-700	5
39188	96	7330	-680	7610	-760	8030	-890	8230	-1000	8560	-1100	9030	-1250	9430	-1340	32 479
39188	97	10130	-1430	11000	-1460	11930	-1440	12730	-1420	14130	-1460	14930	-1540	15540	-1600	18
39188	98	16430	-1690	17280	-1790	18180	-1870	19380	-1990	20030	-2060	20780	-2110	21780	-2190	87
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39188	102	1940	2120	1990	2020	2060	1620	2180	1340	2290	1100	2480	900	2710	680	1
39188	103	2820	590	2940	470	3070	350	3190	170	3400	0	3490	-110	3690	-370	6
39188	104	3890	-470	4010	-600	4240	-830	4570	-900	5040	-950	5590	-1050	6210	-870	24
39188	105	6590	-700	7190	-670	7690	-830	8040	-910	8370	-1010	8840	-1160	9340	-1260	79
39188	106	9790	-1350	10390	-1410	12390	-1390	13190	-1410	13840	-1450	14540	-1540	15590	-1620	36
39188	107	16890	-1760	17840	-1850	18990	-1950	19490	-2000	20290	-2050	21490	-2150	22990	-2250	28 404
39188	111	810319	1310	44-2290	D07			1740	2130	1830	2330	1890	2230	1960	2080	83
39188	112	2010	1960	2040	1640	2150	1450	2210	1100	2460	840	2730	490	2880	400	11
39188	113	3130	290	3250	180	3470	20	3900	-200	4140	-460	4220	-700	4380	-830	17
39188	114	4720	-890	4990	-930	5640	-1010	6120	-860	6520	-610	7020	-670	7420	-770	64
39188	115	8080	-960	8520	-1070	8870	-1180	9420	-1290	10220	-1390	11220	-1410	11870	-1400	0
39188	116	13020	-1400	13870	-1450	14820	-1520	15770	-1640	16620	-1740	17420	-1810	18420	-1900	68
39188	117	19470	-1990	19820	-2030	20820	-2100	21620	-2160	23780	-2290					62
39188	121	810325	1400	40-2160				1930	2130	1990	2000	2130	1480	2310	1080	37
39188	122	2550	820	2770	640	2910	560	3210	350	3510	100	3810	-150	4210	-460	0
39188	123	4410	-710	4810	-870	5410	-910	6010	-930	6210	-900	6610	-700	6810	-650	40 382
39188	124	7210	-640	7810	-710	8410	-910	8610	-1010	8810	-1110	9210	-1200	9610	-1290	96
39188	125	10010	-1360	10610	-1380	11210	-1390	12010	-1380	12610	-1390	13410	-1420	14610	-1580	36
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39188	127	21610	-2160													42
39188	131	810330	1200	47-2510				1830	2330	1920	2150	1980	1980	2050	1650	17
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39188	133	4600	-750	4800	-890	5200	-940	5400	-930	5800	-860	6400	-530	7000	-600	82
39188	134	7400	-750	7800	-830	8000	-910	8200	-980	8800	-1130	9200	-1240	9800	-1300	84
39188	135	14020	-1350	10800	-1360	11200	-1360	11600	-1350	12700	-1370	13400	-1410	14200	-1490	59
39188	136	14600	-1530	15600	-1640	16200	-1700	17200	-1790	17800	-1850	18600	-1930	18800	-1960	81 649
39188	137	19700	-2020	20200	-2050	21000	-2120	21800	-2160	23200	-2270	24200	-2330	25600	-2440	40
39188	138	26600	-2510													84
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39188	152	2300	1080	2600	790	2830	560	3120	370	3320	120	3620	-190	3820	-360	10
39188	153	4620	-540	4820	-840	5020	-900	5420	-820	5820	-740	6420	-760	6820	-670	29
39188	154	7620	-730	8420	-870	9020	-1120	9420	-1270	11020	-1350	12220	-1360	13420	-1440	49
39188	155	14020	-1470	14820	-1550	15820	-1640	16620	-1740	17220	-1800	18020	-1870	18620	-1930	13
39188	156	19420	-2000	20420	-2070	21020	-2110	23020	-2260	24220	-2340	25020	-2400			66
39188	161	810422	1400	37-2190	D010			1830	2320	1940	2090	1970	2000	2050	1650	60
39188	162	2300	1090	2590	800	2710	590	3520	10	4020	-370	4320	-740	5120	-810	77 504
39188	163	5420	-810	5920	-740	6320	-840	6520	-950	6920	-970	7320	-940	7720	-750	81
39188	164	7920	-760	8520	-930	9320	-1200	9720	-1310	10520	-1330	11920	-1350	12920	-1380	67
39188	165	14120	-1470	14520	-1530	15120	-1600	15920	-1690	16520	-1750	17120	-1800	17520	-1840	23
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(Sheet 31 of 61)

Table Bl. (Continued)

39188	181810505	1420	43-2160D06	1680	2040	1830	2320	1950	2110	1980	2010	38					
39188	182	2000	1900	2080	1570	2310	1070	2680	660	2950	480	3290	210	3690	-20	56	
39188	183	3890	-290	4090	-420	4490	-510	4690	-620	5090	-680	5490	-630	5890	-750	13	
39188	184	6290	-850	6490	-1080	7290	-1080	7690	-820	8090	-770	8690	-940	9090	-1130	84	
39188	185	9490	-122010090	-128010690	-131012090	-133013090	-138013490	-143013890	-1500							50	
39188	18614490	-154015290	-163015890	-169016990	-181017290	-184018290	-193018890	-1960								35	457
39188	18719490	-200020090	-203020690	-210021490	-2160											62	
39188	201810518	1445	41-2240D09	1830	2330	1940	2120	2000	1970	2080	1570	21					
39188	202	2320	1050	2560	760	2710	660	2990	530	3200	290	3630	20	4030	-330	70	
39188	203	4230	-380	4530	-490	4730	-660	5130	-1000	5330	-1090	5730	-1090	5930	-1080	94	
39188	204	6180	-1090	6830	-1020	7230	-1020	7330	-810	7730	-750	7930	-820	8330	-950	38	
39188	205	8930	-1050	9430	-1160	9780	-122010330	-126012230	-134013230	-141013930	-1480	77					
39188	20614730	-154015330	-162016130	-171017730	-184019130	-195019530	-198020730	-2080								5	
39188	20722530	-219023130	-2240													29	
39188	221810601	1415	51-2200D05	1830	2260	1940	2110	1980	1980	2070	1600	26					
39188	222	2240	1190	2310	1050	2580	770	2790	650	3010	640	3260	320	3530	40	66	488
39188	223	3800	-170	4100	-370	4300	-480	4600	-590	5000	-630	5300	-700	5500	-810	22	
39188	224	5600	-960	5800	-1090	6000	-1140	6300	-1140	6500	-1110	6800	-1040	6900	-860	70	
39188	225	7000	-760	7100	-700	7400	-710	7600	-710	7800	-790	8100	-860	8400	-920	32	
39188	226	8600	-980	8800	-1030	9000	-1080	9200	-1140	9400	-1200	9800	-123010200	-1250	61		
39188	22711000	-129011900	-133012800	-142014400	-154015200	-161015600	-168016400	-1760								46	
39188	22817800	-189019000	-197020400	-205021600	-214022600	-2200										13	
39188	241810615	1300	59-2870D55	1750	2120	1790	2200	1840	2270	1930	2100	58					
39188	242	1990	1920	2070	1560	2190	1300	2300	1030	2470	830	2660	650	2910	650	80	
39188	243	3050	450	3180	340	3310	170	3510	-30	3650	-170	3810	-340	4070	-450	77	
39188	244	4440	-600	5060	-700	5330	-800	5590	-960	5720	-1060	5990	-1180	6250	-1180	25	484
39188	245	6490	-1100	6730	-910	6990	-750	7180	-700	7340	-740	7690	-810	8050	-900	60	
39188	246	8490	-1010	9100	-1150	9560	-1230	9960	-126010420	-126010960	-128011700	-1330	63				
39188	24712490	-138013330	-146014160	-153014740	-158015650	-167016580	-175017690	-1850								52	
39188	24818660	-192019830	-200021400	-210022690	-220024350	-231025350	-237026380	-2470								55	
39188	24927560	-255029200	-265030010	-270031080	-276031940	-281033240	-2870									0	
39188	271810702	1230	58-2970	1720	2100	1780	2190	1840	2300	1950	2040	14					
39188	272	2010	1840	2080	1540	2310	1020	2620	630	2640	640	2870	460	2890	470	29	
39188	273	3080	270	3550	80	3600	-40	3810	-170	4110	-300	4430	-560	4670	-680	1	
39188	274	4900	-750	5230	-910	5490	-1000	5620	-1020	5800	-1160	6080	-1150	6330	-1000	65	
39188	275	6600	-790	6840	-690	7150	-730	7510	-850	7920	-920	8330	-1050	8900	-1150	39	378
39188	276	9590	-125010100	-127010970	-129011850	-134012740	-142013480	-148014300	-1560							36	
39188	27715000	-161015970	-173017110	-182018260	-192019600	-200020900	-208022110	-2160								98	
39188	27823070	-225024240	-231025220	-238026770	-248027800	-256028860	-263029930	-2700								76	
39188	27930910	-276031230	-280032420	-285033590	-291034720	-2970										72	
39188	291810717	1200	46-2940	1600	1880	1860	2290	1990	1980	2070	1590	12					
39188	292	2290	1050	2570	640	2720	560	2930	520	3040	440	3120	350	3400	100	84	
39188	293	3670	-80	3980	-310	4310	-580	4530	-700	4810	-800	5170	-970	5630	-1010	26	
39188	294	5960	-990	6230	-750	6500	-660	7060	-770	7650	-920	8530	-1110	9190	-1230	3	
39188	295	9940	-125010230	-127011360	-134012730	-142014010	-154015400	-167016770	-1800							65	
39188	29618150	-190019490	-199020970	-210022160	-217023530	-228024700	-234024930	-2370								30	502
39188	29726190	-247027130	-255028370	-260029750	-271030960	-278032480	-287034480	-2940								29	
39188	321810805	1200	57-3030	1660	1950	1850	2300	1980	2000	2100	1540	63					

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(Sheet 32 of 61)

Table B1. (Continued)

39188	322	2210	1270	2490	780	2680	660	2720	660	2780	560	2880	480	2990	410	4
39188	323	3110	320	3160	240	3360	60	3600	-200	3870	-380	4110	-470	4480	-600	45
39188	324	4900	-780	5230	-890	5590-1010	5820	-990	6100	-770	6360	-670	6740	-720	79	
39188	325	7040	-800	7360	-880	7700	-970	8150-1060	8450-1120	8790-1170	9200-1220				31	
39188	326	9670	-124010050	-126010450	-128010820	-130011690	-135012630	-142013550	-1490						8	
39188	327	14390	-157015240	-164016170	-173017050	-182018290	-191019460	-199020990	-2080						69	
39188	328	22360	-220023770	-229025150	-240026420	-249027800	-257029160	-267030530	-2740						24	
39188	329	32440	-287033660	-292034720	-297036040	-3030									7	
39188	331	810810	1200	56-3050D01		1700	2070	1840	2290	1960	2040	2080	1560		87	
39188	332	2240	1160	2530	690	2580	680	2630	680	2790	550	2960	450	3200	290	36
39188	333	3470	-50	3690	-360	3930	-430	4170	-530	4380	-560	4720	-690	4950	-800	86
39188	334	5270	-910	5600-1010	5870	-950	6090	-770	6270	-700	6430	-680	6640	-710	91	
39188	335	6850	-760	7160	-840	7510	-920	7940-1010	8450-1120	8820-1180	9180-1210				90	
39188	336	9570	-1230	9990	-126010800	-129011660	-135012560	-141013430	-148014310	-1560					81	
39188	337	15440	-168016620	-178017750	-188018830	-195020350	-205021840	-215023320	-2250						16	
39188	338	24690	-235025950	-245027060	-252028380	-261029920	-271031280	-280032490	-2860						20	
39188	339	33900	-293035200	-300036140	-3050										52	
39188	351	810821	1000	37-1180A024		1720	2100	1840	2300	1880	2240	1960	2020		4	
39188	352	2070	1600	2150	1380	2220	1120	2300	960	2610	510	2770	520	2990	290	72
39188	353	3010	240	3140	190	3350	-20	3550	-190	3680	-300	3880	-380	3980	-370	20
39188	354	4250	-590	4490	-810	4750	-880	5030	-880	5330	-960	5590	-970	5870	-980	58
39188	355	6120	-860	6340	-750	6490	-710	6710	-700	7010	-740	7300	-800	7440	-850	17
39188	356	7910	-980	8170	-1050	8460	-1110	8710	-1150	8950	-1180				61	
39188	371	810823	1200	35-1130A022		1720	2100	1840	2300	1880	2240	1960	2020		38	
39188	372	2070	1600	2150	1380	2220	1120	2300	960	2580	700	2770	520	3140	190	62
39188	373	3320	60	3580	-130	3720	-370	4010	-440	4300	-510	4480	-610	4880	-810	6
39188	374	5310	-950	5500-1060	5780	-990	5940	-910	6110	-960	6350	-920	6520	-830	1	
39188	375	6800	-780	7020	-730	7230	-710	7520	-740	7690	-790	7850	-860	8080	-930	13
39188	376	8380	-1030	8610	-1080	8900	-1130								96	
39188	381	810825	1200	57-2760		1660	2000	1750	2140	1840	2330	1930	2140		22	
39188	382	2000	1920	2070	1600	2160	1380	2230	1120	2360	920	2620	630	2840	480	73
39188	383	3100	270	3460	-70	3720	-260	3980	-330	4330	-500	4570	-630	4600	-650	55
39188	384	4880	-760	4950	-790	5170	-890	5290	-960	5410	-1010	5560	-970	5800	-1000	32
39188	385	6050	-930	6230	-850	6530	-800	6780	-740	7120	-670	7430	-740	7790	-880	62
39188	386	8190	-1000	8500-1080	9000	-1160	9340	-1200	9690	-122010480	-126011430	-1310			31	
39188	387	12120	-136013160	-146014190	-155015230	-165016300	-176017560	-187018580	-1920						39	
39188	388	19670	-200020970	-209022210	-218023510	-226024680	-235025640	-241026710	-2490						66	
39188	389	27860	-257028770	-263029860	-271030880	-2760									9	
39188	391	810827	1300	45-1820		1660	2000	1750	2140	1840	2330	1930	2140		0	
39188	392	2000	1920	2070	1600	2160	1380	2230	1120	2360	920	2480	760	2660	620	99
39188	393	3000	350	3330	70	3660	-270	4220	-480	4700	-530	5090	-870	5540	-970	21
39188	394	5910	-940	6220	-840	6540	-730	6810	-670	7190	-690	7410	-760	7570	-820	61
39188	395	7850	-910	8110	-990	8550-1090	8940-1150	9310-1190	9830-122010310	-1250					52	
39188	396	10870	-128011380	-131011800	-134012270	-137012910	-143013270	-147013700	-1500						82	
39188	397	14170	-155014630	-161015110	-164015580	-169016050	-172017130	-1820							50	
39188	411	810908	1200	48-2750		1730	2150	1840	2300	1940	2090	2050	1640		4	
39188	412	2170	1330	2210	1150	2300	1060	2390	1030	2550	1020	2930	670	3270	340	17
39188	413	3660	-170	3820	-370	4090	-510	4420	-730	4740	-870	5060	-990	5500	-900	88

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(Sheet 33 of 61)

Table B1. (Continued)

39188	414	5730	-580	5910	-450	6220	-440	6510	-510	7010	-680	7390	-800	7570	-850	18
39188	415	7930	-940	8460	-1050	9010	-1140	9700	-1200	10360	-1240	11090	-1300	11970	-1380	72
39188	416	13010	-1470	13930	-1570	15000	-1670	16040	-1750	17230	-1850	18340	-1930	19520	-2000	27
39188	417	20630	-2070	21870	-2150	23200	-2240	24410	-2340	25610	-2430	27130	-2530	28470	-2630	37
39188	418	29880	-2700	30720	-2750											32
39188	421	810914	1030	57-2900				1730	2110	1830	2300	1930	2100	2020	1760	46
39188	422	2120	1470	2180	1280	2210	1150	2300	1060	2480	1020	2670	950	2680	980	81
39188	423	2800	860	2860	670	2870	650	3100	440	3220	310	3550	-50	3770	-250	83
39188	424	4020	-430	4190	-590	4520	-820	4970	-950	5210	-850	5310	-530	5450	-410	91
39188	425	5630	-370	5910	-420	6300	-550	6750	-690	7140	-790	7540	-890	7940	-980	70
39188	426	8410	-1070	8910	-1120	9410	-1180	9860	-1210	10260	-1270	111460	-1330	12210	-1410	557
39188	427	13150	-1480	14090	-1590	15090	-1680	16100	-1760	17180	-1850	18300	-1920	19370	-1980	64
39188	428	20720	-2090	22060	-2170	23170	-2240	24250	-2330	25480	-2420	27030	-2530	28300	-2610	85
39188	429	29540	-2680	30950	-2750	32440	-2840	33640	-2900							12
39188	431	810920	1200	59-2900DS5				1730	2100	1830	2300	1940	2070	2050	1670	14
39188	432	2160	1350	2310	1080	2450	1020	2630	1050	2790	820	2950	590	2980	520	11
39188	433	3190	300	3260	200	3400	100	3480	0	3530	-60	3660	-190	3830	-290	75
39188	434	4160	-490	4430	-620	4750	-690	5110	-690	5450	-590	5820	-520	6280	-520	55
39188	435	6650	-620	6940	-720	7260	-820	7670	-950	7950	-980	8260	-1050	9180	-1180	83
39188	436	10170	-1240	10880	-1280	11290	-1310	11630	-1340	11950	-1380	12360	-1410	12670	-1440	69
39188	437	12970	-1470	13550	-1510	13980	-1570	14090	-1580	15090	-1670	16100	-1760	17180	-1850	70
39188	438	18300	-1920	19370	-1970	20720	-2080	22060	-2170	23170	-2230	24250	-2320	25480	-2420	538
39188	439	27030	-2520	28300	-2610	29540	-2670	30950	-2750	32440	-2830	33640	-2900			11
39188	441	810928	1315	54-3000				1750	2120	1810	2230	1880	2210	1970	1960	8
39188	442	2070	1610	2170	1290	2300	1060	2490	1020	2600	1020	2880	580	3200	270	91
39188	443	3550	-90	3770	-270	4050	-410	4050	-410	4280	-600	4650	-720	5020	-760	29
39188	444	5330	-650	5690	-610	6090	-590	6450	-590	6820	-670	7180	-770	7570	-890	88
39188	445	8030	-1010	8520	-1100	8920	-1150	9440	-1190	9890	-1220	10220	-1250	10930	-1320	42
39188	446	11770	-1390	12590	-1480	13410	-1520	14230	-1620	15060	-1690	16280	-1790	17420	-1860	82
39188	447	18520	-1960	19750	-2020	20850	-2110	22050	-2180	23590	-2300	25000	-2390	26280	-2480	16
39188	448	27710	-2580	28880	-2650	30140	-2720	30670	-2750	31940	-2820	33040	-2880	34280	-2950	439
39188	449	35160	-3000													87
39188	451	811005	1530	59-3020DS5				1830	2300	1930	2100	2210	1160	2640	1060	53
39188	452	2860	710	2890	500	3370	120	3490	10	3740	-200	4040	-370	4350	-610	76
39188	453	4590	-720	4900	-740	5120	-670	5690	-560	5940	-540	6260	-570	6490	-630	63
39188	454	6550	-640	6680	-670	6760	-700	7040	-770	7320	-860	7730	-960	7980	-1020	39
39188	455	8230	-1060	8560	-1110	8830	-1140	9300	-1190	9710	-1220	10480	-1280	11080	-1320	4
39188	456	11450	-1350	12430	-1440	14010	-1600	14720	-1660	15720	-1750	16480	-1800	17250	-1860	47
39188	457	17870	-1900	18750	-1960	19560	-2000	20330	-2060	21060	-2110	22100	-2180	22900	-2240	96
39188	458	24070	-2330	24860	-2380	25870	-2460	26610	-2500	27050	-2550	28000	-2600	28850	-2650	44
39188	459	29780	-2700	31070	-2770	32330	-2830	33410	-2900	34550	-2950	35700	-3020			557
39188	461	811016	1100	41-1400A025				1730	2110	1830	2260	1970	2020	2050	1590	84
39188	462	2190	1200	2350	1100	2610	870	2790	680	3030	440	3270	170	3520	-130	42
39188	463	3780	-190	3960	-320	4190	-690	4250	-720	4420	-860	4650	-960	4930	-1050	4
39188	464	5040	-1060	5180	-1010	5510	-910	5800	-830	5850	-840	6290	-810	6870	-720	50
39188	465	7060	-710	7110	-730	7560	-720	7750	-760	7780	-780	8070	-880	8300	-950	27
39188	466	8810	-1060	9140	-1100	9520	-1150	9870	-1190	10300	-1230	10610	-1250	10790	-1280	75
39188	467	11280	-1350	12000	-1400											44
																25

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(Sheet 34 of 61)

Table Bl. (Continued)

39188	471811017	1630	41-2370			1730	2110	1830	2260	1970	2020	2050	1590		32		
39188	472	2190	1200	2350	1100	2470	1000	2610	870	2760	730	3130	340	3640	-140	43	426
39188	473	3980	-510	4320	-800	4720-1030	5080-1090	5410	-890	5710	-820	6230	-790			83	
39188	474	6560	-740	7120	-650	7650	-720	8420	-940	9310-108010300	-122011090-1290					56	
39188	47511840	-137012500	-145013540	-155014540	-164015400	-171016430	-180017300	-1850								8	
39188	47618370	-193019350	-200020410	-207021440	-215022240	-218022900	-225023590	-2290								49	
39188	47724270	-234025060	-2370													98	
39188	481811022	1400	59-2790			1720	2100	1830	2290	2000	1820	2150	1340			87	
39188	482	2210	1180	2380	1100	2520	1000	2560	900	2680	760	2780	620	3070	360	59	
39188	483	3400	120	3670	-180	3950	-410	4180	-610	4410	-830	4630	-930	4910-1000		31	
39188	484	5190	-950	5570	-870	5870	-830	6200	-800	6540	-700	6800	-630	7030	-630	29	
39188	485	7420	-720	7750	-810	8030	-880	8280	-940	8530	-990	8860-1040	9150-1070			59	559
39188	486	9350-1110	9630-1140	9820-116010000	-118010390	-123010820	-128011370-1340									54	
39188	48712090	-142012860	-150013580	-157014300	-163015240	-172015960	-177016860-1840									24	
39188	48817670	-189018790	-195019870	-203021020	-213022030	-219023320	-228024530-2370									82	
39188	48925840	-246026860	-253028050	-262029250	-268030270	-274031230-2790										8	
39188	501811103	1645	46-2010A011			1750	2120	1840	2280	1960	2020	2110	1480			94	
39188	502	2200	1220	2340	1120	2470	1020	2530	830	2670	660	2930	500	3140	320	52	
39188	503	3420	80	3630	-90	3980	-380	4280	-540	4610	-750	4870	-810	5120	-840	98	
39188	504	5450	-870	5780	-890	6020	-900	6340	-900	6680	-910	7020	-910	7330	-900	94	
39188	505	7860	-900	8310	-830	8630	-790	8840	-780	9130	-820	9720	-93010370-1090			46	
39188	50611070	-122011890	-135012140	-140012770	-147013060	-152013810	-159014590-1660									36	588
39188	50715280	-172015920	-178016550	-182017380	-188018130	-193018750	-196019420-2010									6	
39188	511811110	1530	45-2900			1830	2280	1960	2010	2030	1730	2150	1370			45	
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(Sheet 35 of 61)

Table Bl. (Continued)

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(Sheet 37 of 61)

Table B1. (Continued)

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(Sheet 38 of 61)

Table B1. (Continued)

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(Sheet 39 of 61)

Table B1. (Continued)

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39188	1054 9742-133410468-126711380-120612170-122413198-132214074-144015404-1616	27
39188	105516649-176717890-189918985-199420128-209121320-218522306-225823439-2353	44
39188	105624526-241625834-250226909-256427921-261828692-265929687-269930144-2714	73
39188	1061830124 1415 39-2723 1626 1943 1793 2218 1892 2102 2008 1739	90
39188	1062 2067 1466 2153 1300 2225 1231 2341 1046 2734 601 3204 201 3658 -426	28
39188	1063 3918 -524 4335 -693 4970 -769 5590 -851 6071 -118 6759 -511 7356 -728	95 636
39188	1064 8334-1211 9104-1333 9953-130310888-120912162-122813498-138814705-1546	55
39188	106516141-171217367-184918474-195319598-204520778-214121732-221822755-2293	31
39188	106623840-237924866-244326097-252627168-258028231-264029351-269430057-2723	40
39188	1071830130 1020 42-2651 1435 1719 1664 2024 1816 2025 2079 1747	60
39188	1072 2287 1144 2341 1046 2639 813 2974 462 3214 207 3503 -108 3746 -561	5
39188	1073 4010 -660 4526 -814 5028 -789 5386 -715 5882 -549 6261 -503 6926 -670	94
39188	1074 7736-1008 8603-1339 9549-142310351-138411077-131011905-126012888-1290	79
39188	107513712-135815019-149215938-161117000-173117635-179518579-189519532-1985	37
39188	107620386-207921568-217522585-226823666-233724725-241025472-245426413-2521	6
39188	107727543-258427856-258728716-2651	10 417
39188	1081830209 1320 42-2713 1758 2198 1898 2163 1999 1772 2071 1481	39
39188	1082 2279 1150 2371 1012 2715 673 3183 304 3779 -289 4090 -726 4465 -802	85
39188	1083 4909 -692 5389 -738 5865 -469 6491 -492 7228 -797 7947-1079 8530-1296	31
39188	1084 9223-139810067-137710800-131511463-127612169-126213096-132513948-1406	72
39188	108515116-153816060-164417181-176018345-188419376-198520106-205821099-2139	58
39188	108622057-222223076-231123838-236024822-243425583-248426449-254127505-2597	74

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(Sheet 40 of 61)

Table B1. (Continued)

39188	1161830613	900	34-2682			1716	2122	1829	2249	1958	1959	2100	1419	91		
39188	1162	2355	1072	2418	1014	2876	710	3385	147	3796	-333	4187	-498	4758	-579	24
39188	1163	5310	-586	6154	-576	7055	-913	7775	-1161	8723	-1369	9585	-1480	10608	-1529	80
39188	1164	11759	-1429	12931	-1336	13857	-1358	15374	-1483	16720	-1644	18092	-1815	19336	-1963	44
39188	1165	20640	-2100	21988	-2211	23221	-2308	24708	-2409	26060	-2503	27199	-2547	28346	-2598	83
39188	1166	29260	-2650	30093	-2682											26
39188	117	1830630	1020	35-2592			1637	1953	1761	2184	1887	2117	1995	1761		508
39188	1172	2141	1311	2343	1077	2393	1041	2751	791	3300	260	3765	-352	4118	-512	68
39188	1173	4651	-594	5142	-651	5649	-481	6187	-631	6983	-956	7710	-1165	8663	-1367	72
39188	1174	9516	-1472	10447	-1544	11476	-1455	12374	-1361	13597	-1334	14635	-1406	15835	-1520	54
39188	1175	16881	-1656	18175	-1823	19354	-1964	20409	-2070	21632	-2186	22696	-2273	24154	-2384	39
39188	1176	25359	-2452	26509	-2520	27721	-2592									27
39188	118	1830711	750	35-2763			1751	2180	1859	2197	1991	1780	2094	1432		12
39188	1182	2278	1151	2402	1032	2747	802	3157	342	3486	-34	3928	-312	4341	-537	34
39188	1183	4877	-639	5258	-429	5773	-577	6823	-949	7600	-1166	8460	-1329	9572	-1509	57
39188	1184	10589	-1539	11696	-1423	13171	-1364	14378	-1384	15733	-1510	17055	-1694	18210	-1822	53
39188	1185	19536	-1972	20805	-2105	22073	-2223	23289	-2320	24638	-2420	26039	-2500	27549	-2585	34
39188	1186	28789	-2635	29920	-2700	31047	-2763									450
39188	119	1830725	933	34-2719			1733	2148	1874	2177	2008	1719	2132	1331		11
39188	1192	2343	1085	2426	1001	2627	884	3039	444	3730	-252	4250	-449	4785	-611	73
39188	1193	5297	-470	6046	-736	6920	-1001	7439	-1129	8469	-1335	9368	-1471	10476	-1544	56
39188	1194	11569	-1425	12736	-1350	13970	-1362	15332	-1475	16704	-1637	18001	-1802	19306	-1952	84
39188	1195	20530	-2072	21872	-2197	23181	-2305	24415	-2399	25906	-2487	27234	-2541	28381	-2604	5
39188	1196	29358	-2667	30471	-2719											8
39188	120	1830808	915	30-2753D01			1814	2247	1913	2112	2044	1578	2200	1217		36
39188	1202	2459	979	2955	599	3534	5	4099	-259	4988	-481	5781	-728	6587	-926	60
39188	1203	7500	-1156	8519	-1354	9780	-1555	10983	-1480	12153	-1369	13496	-1356	14928	-1432	38
39188	1204	16284	-1583	17572	-1756	18948	-1908	20463	-2077	21800	-2204	22939	-2295	24457	-2399	439
39188	1205	25825	-2482	27086	-2543	28385	-2606	29615	-2672	30931	-2753					42
39188	121	1830825	800	30-2516			1814	2247	1913	2112	2044	1578	2200	1217		95
39188	1212	2368	1044	2744	759	3270	272	3851	-374	4463	-365	5121	-393	5910	-580	2
39188	1213	6738	-984	7677	-1215	8545	-1367	9362	-1484	10465	-1535	11417	-1464	12394	-1354	94
39188	1214	13539	-1351	14640	-1434	15907	-1538	17179	-1695	18403	-1853	19655	-1985	20940	-2128	56
39188	1215	22071	-2219	23280	-2308	24479	-2409	25798	-2479	26649	-2516					87
39188	122	1830906	800	33-2792			1678	1980	1830	2448	1966	2063	2081	1441		60
39188	1222	2284	1131	2391	1038	2835	709	3326	203	3567	-165	3895	-201	4506	-282	33
39188	1223	5386	-469	6283	-779	7097	-1092	8097	-1320	9159	-1472	10260	-1531	11449	-1427	33
39188	1224	12622	-1359	13901	-1367	15197	-1471	16497	-1618	17767	-1782	19226	-1947	20623	-2092	7
39188	1225	22029	-2222	23317	-2323	24718	-2418	26077	-2503	27542	-2576	28838	-2645	30082	-2709	4
39188	1226	31429	-2792													0
39188	123	1830918	810	35-2865			1678	1980	1830	2448	1966	2063	2081	1441		90
39188	1232	2284	1131	2354	1059	2800	712	3312	271	3784	-334	4131	-489	4671	-598	79
39188	1233	5122	-556	5762	-488	6576	-853	7487	-1185	8487	-1344	9688	-1510	10723	-1492	1
39188	1234	11805	-1387	12727	-1349	14215	-1387	15719	-1541	17041	-1701	18458	-1868	19773	-2000	4
39188	1235	21231	-2143	22473	-2251	23739	-2349	25087	-2440	26522	-2528	27665	-2570	28879	-2641	96
39188	1236	30281	-2715	31446	-2787	32591	-2865									91
39188	124	1831001	840	47-2722			1816	2272	1822	2261	1871	2271	1970	1902		405
39188	1242	1999	1814	2066	1524	2080	1480	2132	1339	2238	1187	2283	1223	2520	969	27
																38

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(Sheet 42 of 61)

Table B1. (Continued)

39188	1243	2601	904	2967	619	3233	346	3387	239	3758	-192	4069	-645	4451	-658	73
39188	1244	5015	-501	5492	-487	6083	-511	6846	-649	7529-1011	8389-1198	9001-1274				25
39188	1245	9535	-1274	10098	-1412	10622	-1487	11298	-1456	12275	-1369	12898	-1333	13605	-1328	8
39188	1246	14442	-1380	15022	-1437	15446	-1493	15981	-1555	16754	-1652	17675	-1768	18340	-1848	98
39188	1247	19115	-1945	21531	-2175	22498	-2250	23992	-2366	25679	-2471	26915	-2535	29487	-2673	7
39188	1248	30442	-2722													16
39188	1251	831005	740	24-2088			1816	2272	1871	2271	1999	1814	2066	1524		35
39188	1252	2238	1187	2384	1054	2910	602	3359	156	3906	-552	4642	-536	5522	-472	52
39188	1253	6474	-635	7294	-994	8246	-1272	9094	-1329	10175	-1439	11161	-1460	12487	-1359	50
39188	1254	13757	-1342	15090	-1444	16646	-1647	18086	-1822	19431	-1967	20665	-2088			70
39188	1261	831013	1400	41-2390			1816	2272	1871	2271	1999	1814	2066	1524		95
39188	1262	2238	1187	2364	1066	2519	942	2898	562	3318	197	3884	-608	4125	-710	5
39188	1263	4552	-634	5014	-415	5438	-416	6102	-513	6670	-613	7167	-827	7885	-1126	20
39188	1264	8551	-1290	9247	-1401	9962	-1452	10629	-1480	11248	-1435	11966	-1407	12638	-1343	79
39188	1265	13596	-1341	14367	-1404	15086	-1467	15819	-1578	16540	-1666	17176	-1723	18006	-1821	36
39188	1266	18671	-1888	19632	-1989	20377	-2061	21293	-2171	21890	-2227	22809	-2296	23538	-2360	43
39188	1267	23857	-2366	24518	-2390											26
39188	1271	831024	1230	43-2356			1816	2272	1871	2271	1999	1814	2066	1524		67
39188	1272	2238	1187	2348	1088	2488	979	2851	688	3214	378	3563	-27	3954	-658	71
39188	1273	4386	-308	4751	-342	5547	-430	6216	-516	6884	-690	7423	-917	7886	-1084	45
39188	1274	8756	-1340	9648	-1449	10422	-1465	11174	-1412	11677	-1361	12353	-1316	13207	-1327	26
39188	1275	13960	-1385	14553	-1446	15165	-1525	15918	-1612	16634	-1695	17214	-1770	17896	-1840	79
39188	1276	18381	-1883	18976	-1954	19531	-1992	20120	-2054	20517	-2093	21207	-2156	21690	-2191	67
39188	1277	22248	-2240	22687	-2282	23595	-2356	23618	-2347							14
39188	1281	831107	1200	32-2821			1788	2228	1894	2104	2010	1741	2085	1464		37
39188	1282	2475	1022	2772	720	3341	106	3799	-556	4146	-570	4765	-563	5696	-476	74
39188	1283	6631	-638	7744	-1116	8508	-1328	9484	-1442	11474	-1338	12695	-1311	14060	-1421	85
39188	1284	15820	-1621	16865	-1732	18180	-1882	19404	-1992	20876	-2125	22091	-2238	23161	-2312	60
39188	1285	24292	-2385	25484	-2463	26622	-2524	27795	-2587	28731	-2631	29958	-2700	31890	-2821	44
39188	1291	831120	1000	30-2743			1705	2095	1820	2252	1969	1862	2075	1492		99
39188	1292	2371	1075	2876	616	3570	-17	4363	-523	5394	-568	6517	-528	7631	-1009	69
39188	1293	9086	-1385	10167	-1437	11270	-1343	12462	-1314	13935	-1414	15278	-1555	16556	-1703	78
39188	1294	17695	-1825	18946	-1944	20059	-2053	21321	-2168	22501	-2265	23660	-2339	24578	-2400	96
39188	1295	25833	-2470	26880	-2530	28205	-2608	29617	-2668	30756	-2743					35
39188	1301	831202	815	33-2683			1769	2203	1841	2301	1995	1807	2124	1355		29
39188	1302	2377	1069	2787	760	3382	82	3946	-366	4535	-578	5128	-571	5834	-390	88
39188	1303	6581	-603	7306	-901	8144	-1217	8941	-1388	9825	-1446	10820	-1393	11731	-1312	54
39188	1304	12786	-1332	14014	-1419	15535	-1594	16827	-1731	17997	-1863	19075	-1958	20227	-2069	84
39188	1305	21430	-2178	22598	-2270	23858	-2358	24985	-2433	26213	-2499	27634	-2579	28646	-2624	9
39188	1306	29774	-2683													92
39188	1311	831216	900	49-2817			1739	2217	1758	2189	1761	2190	1822	2251		3
39188	1312	1923	2024	2011	1695	2094	1443	2202	1234	2207	1242	2392	1078	2648	893	16
39188	1313	2850	590	3121	327	3643	-173	3979	-538	4323	-636	4675	-594	5145	-633	89
39188	1314	5604	-422	6213	-474	7025	-740	7765	-1013	8437	-1273	9240	-1410	9921	-1434	35
39188	1315	10667	-1397	11370	-1346	11372	-1349	12080	-1331	12564	-1328	13236	-1358	14087	-1424	28
39188	1316	14981	-1523	15803	-1621	16466	-1689	17590	-1807	18506	-1902	19524	-1998	20320	-2080	74
39188	1317	20338	-2086	20732	-2119	21339	-2169	22201	-2249	22523	-244	227420	-2567	28015	-2596	69
39188	1318	29291	-2656	30916	-2753	31991	-2817									89

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(Sheet 43 of 61)

Table B1. (Continued)

39188	1321831227	1000	47-2743		1834	2266	2087	1457	2263	1076	2387	1064	76				
39188	1322	2762	704	3181	241	3681	-180	3936	-508	4179	-644	4880	-745	5205	-775	75	
39188	1323	5633	-806	6075	-596	6392	-418	6591	-477	7237	-665	7953	-976	8588	-1261	65	
39188	1324	9068	-1397	9473	-1441	9802	-145110100	-144410423	-143210881	-140111303	-1363					47	
39188	132511731	-135012375	-132912990	-133613437	-136414000	-141314724	-148815174	-1539								23	
39188	132615531	-158316126	-165016690	-171517219	-177318047	-185918859	-194519717	-2015								29	
39188	132720430	-209222104	-223023201	-231324373	-239525241	-244626470	-251128636	-2623								1	
39188	132830903	-2743														88	
39188	1331840104	915	31-2656		1808	2261	2001	1895	2092	1456	2300	1114	40				
39188	1332	2631	825	3059	497	3511	-71	3895	-330	4827	-724	5533	-871	6195	-841	80	524
39188	1333	6907	-1039	7633	-823	8703	-1237	9694	-143211284	-134812362	-133013598	-1396	2				
39188	133414731	-150715938	-164617366	-181518550	-191819719	-201520877	-212622167	-2235								39	
39188	133523340	-231724538	-240525768	-247627044	-255828080	-260129112	-2656									32	
39188	1341840117	845	46-2756		2092	1456	2330	1088	2554	805	2573	777	5				
39188	1342	2885	526	3226	220	3635	-341	4009	-559	4397	-689	4724	-771	5101	-941	26	
39188	1343	5563	-908	5967	-643	6448	-592	7039	-808	7773	-1059	8615	-1281	9106	-1355	90	
39188	1344	9768	-138110426	-134511062	-128711775	-125612463	-126313283	-133313962	-1403							86	
39188	134514673	-149415291	-156616074	-165416908	-174217849	-184018572	-189619188	-1948								66	
39188	134619998	-201820821	-209821671	-217022523	-224023251	-229923905	-236824986	-2419								7	
39188	134726077	-248326929	-253027819	-258028531	-261329194	-266629977	-269931069	-2756								2	355
39188	1351840123	1350	39-2777		1713	2113	1835	2336	1941	2137	2014	1889	70				
39188	1352	2091	1470	2316	1098	2317	1142	2741	684	2748	656	3421	-102	3896	-611	27	
39188	1353	4552	-783	5366	-444	5957	-493	6662	-715	7552	-1027	8683	-1298	9512	-1370	38	
39188	135410383	-133311311	-126112207	-126113399	-135314486	-147515549	-160216742	-1723								15	
39188	135517868	-184118873	-193019970	-202121035	-211922042	-220323462	-230724453	-2385								47	
39188	135625559	-245526590	-251527780	-257728885	-264229922	-269030778	-274531286	-2777								84	
39188	1371840210	850	34-2757		1821	2291	1933	2093	1478	2204	1258					16	
39188	1372	2368	1056	2774	602	3342	-52	3974	-683	4734	-680	5371	-509	6152	-620	47	
39188	1373	6984	-881	8121	-1201	9380	-134310515	-129011716	-125112606	-129113881	-1418					23	
39188	137415022	-154016202	-167317157	-176518136	-185619461	-196620535	-207321532	-2150								5	372
39188	137522628	-224423579	-230624609	-237525622	-244426809	-251628004	-257828951	-2633								42	
39188	137630129	-270031158	-2757													8	
39188	1381840216	1315	38-2718CV.10E		1831	2346	1885	2269	1951	2097	2012	1855	38				
39188	1382	2093	1439	2183	1258	2408	1000	2674	741	3029	389	3444	-106	3910	-589	21	
39188	1383	4304	-749	4906	-881	5455	-901	6532	-594	7020	-577	7775	-812	8578	-1205	20	
39188	1384	9437	-137410335	-137311320	-131511957	-129914069	-142115308	-156516614	-1711							77	
39188	138517728	-182418905	-192920082	-203421081	-212222110	-220723216	-228824372	-2370								31	
39188	138625412	-243126572	-250227626	-256228679	-262329768	-268130405	-2718									30	
39188	1391840224	1200	40-2705AB		1951	2097	2012	1855	2093	1439	2183	1258	28				
39188	1392	2408	1000	2473	927	2779	657	3195	264	3640	-297	3967	-584	4461	-803	62	357
39188	1393	5065	-928	5530	-929	5964	-828	6398	-590	6900	-567	7444	-671	8032	-957	37	
39188	1394	8747	-1252	9439	-137310394	-137011460	-132512446	-131413571	-137414611	-1493						33	
39188	139515803	-162716878	-175017988	-185419079	-195320130	-204621173	-213522042	-2202								64	
39188	139622938	-226223836	-233224894	-241025843	-246126912	-253128164	-259029003	-2640								53	
39188	139730121	-2705														99	
39188	1401840308	1130	40-2698		1761	2195	1874	2234	1972	1921	2087	1476	60				
39188	1402	2191	1258	2352	1071	2703	693	3128	332	3749	-440	4107	-646	4566	-807	59	
39188	1403	5027	-921	5473	-951	6011	-873	6570	-579	6971	-503	7535	-704	8125	-961	59	

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(Sheet 44 of 61)

Table B1. (Continued)

39188	156616543-175618112-187919562-199919620-200320773-209422154-219823722-2325	51	
39188	156724985-241026802-250828727-261729632-267231330-277832832-2885	0	
39188	1571840830 1105 41-2827	1660 1989 1742 2171 1831 2275 1911 2172	61
39188	1572 2009 1768 2123 1394 2345 1093 2350 1075 2627 760 2654 725 3025 711		32
39188	1573 3118 581 3465 210 3630 2 3888 -54 4256 -140 4755 -252 5170 -385		47
39188	1574 5788 -709 6587 -901 7502-1066 8432-1186 9590-123310234-125311226-1288		86 480
39188	157512546-139314027-152915029-162816456-175417995-188419525-199820714-2096		82
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39188	1582 2009 1768 2123 1394 2345 1090 2350 1075 2423 977 2812 693 3202 415		64
39188	1583 3620 105 4150 -281 4490 -399 4847 -273 5084 -308 5701 -665 6230 -934		34
39188	1584 6668 -882 7325-1024 8309-1177 9313-122910252-125311592-131313048-1435		94
39188	158514404-156215564-168017119-181218407-191619782-202321109-214022500-2232		41
39188	158623676-232724864-241025926-247027166-253128329-259729497-267530000-2691		23
39188	1591840910 1030 32-2044GH	1743 2159 1816 2285 1906 2201 1983 1958	60 576
39188	1592 2088 1449 2301 1132 2404 967 2718 722 2784 702 3009 706 3323 352		77
39188	1593 3377 356 3828 -300 4111 -400 4537 -388 5101 -448 5437 -421 5815 -447		1
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39188	159512707-142813841-152815013-163616275-174817505-185218849-194620027-2044		91
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39188	1611841002 955 50-2757	1688 2014 1704 2037 1772 2176 1840 2279	59
39188	1612 1933 2127 2005 1906 2103 1419 2202 1241 2297 1141 2411 1018 2485 937		64
39188	1613 2611 853 2788 645 2918 498 3294 57 3781 -513 3959 -619 4276 -679		60
39188	1614 4707 -788 4713 -808 5117 -801 5615 -768 6016 -554 6433 -547 6781 -613		13
39188	1615 7395 -817 7493 -849 8231-1042 8772-1125 9546-117510200-121011274-1290		41
39188	161612166-137312394-139813386-150714370-159114834-162316168-173717323-1829		87
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39188	1631841015 1100 30-1163	1762 2193 1826 2254 1893 2168 1944 2021	24
39188	1632 2086 1495 2104 1443 2263 1250 2320 1191 2386 1097 2645 853 2731 807		23
39188	1633 2979 586 3253 225 3785 -577 3896 -688 4118 -852 4361 -835 4662 -768		6
39188	1634 4918 -647 5175 -585 5309 -519 5727 -468 5951 -436 6537 -502 7216 -658		75
39188	1635 7670 -796 8426 -988 8545 -987 9041-1085 9885-1163		76
39188	1641841017 1515 38-2418GV	1762 2193 1826 2254 1893 2168 1944 2021	50
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39188	1643 4263 -891 4629 -773 4874 -408 5063 -365 5534 -441 6112 -512 6574 -608		19
39188	1644 7160 -740 7704 -880 8472-1008 9213-1097 9998-118510602-123111174-1280		81
39188	164512024-135513086-143514111-154515191-164116454-174917569-185418543-1953		83 482
39188	164619553-203420890-214422184-223623253-229924237-237024954-2418		93
39188	1651841029 1120 45-2847	1752 2185 1802 2246 1918 2046 2101 1443	69

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(Sheet 47 of 61)

Table B1. (Continued)

39188	1652	2294	1206	2320	1155	2433	1054	2590	1012	2715	902	2958	757	3178	557	90
39188	1653	3642	110	3954	-423	4246	-503	4394	-387	4622	-369	5104	-462	5599	-525	94
39188	1654	6064	-586	6931	-709	7422	-795	8594	-986	8738	-1007	9965	-1149	10117	-1157	14
39188	1655	10886	-1227	11846	-1317	12275	-1365	13467	-1484	14396	-1580	14752	-1612	16070	-1745	48
39188	1656	17326	-1855	18466	-1966	19799	-2068	20898	-2148	22500	-2257	24001	-2358	24481	-2391	87
39188	1657	25992	-2472	27466	-2554	28580	-2624	29750	-2688	30991	-2768	32206	-2847			75
39188	1661	841119	1100	44-2400			1753	2195	1807	2248	1878	2169	1943	1978		1
39188	1662	2103	1440	2256	1250	2409	1090	2527	1009	2606	1020	2802	907	2855	836	1 572
39188	1663	3086	591	3538	239	3641	150	4019	-271	4484	-461	4726	-450	5309	-508	70
39188	1664	5759	-431	6361	-511	7012	-740	7244	-807	7979	-921	8701	-1018	9583	-1119	22
39188	1665	10117	-1178	11024	-1271	11847	-1351	12423	-1417	13423	-1510	14765	-1640	15565	-1721	95
39188	1666	16765	-1828	17706	-1893	18578	-1961	19310	-2030	19557	-2040	20191	-2102	20982	-2159	72
39188	1667	21817	-2214	22733	-2274	23393	-2319	23926	-2358	24770	-2400					72
39188	1671	841128	915	53-2754			1671	2082	1756	2174	1820	2237	1907	2095		95
39188	1672	1964	1875	2104	1442	2261	1223	2326	1177	2438	1047	2515	1064	2605	1018	25
39188	1673	2649	993	2710	934	2858	790	2925	716	2992	646	3075	472	3270	278	58
39188	1674	3621	-61	4096	-353	4449	-502	4772	-582	5174	-632	5478	-581	5956	-570	92
39188	1675	6244	-612	6470	-641	7074	-665	7896	-727	8672	-900	9623	-1081	9952	-1136	79 680
39188	1676	10624	-1219	11461	-1312	12458	-1419	13505	-1518	14564	-1630	15644	-1725	16704	-1821	40
39188	1677	17320	-1877	18052	-1940	18996	-2009	19973	-2068	20970	-2160	22067	-2232	23184	-2296	48
39188	1678	24383	-2392	25431	-2438	26671	-2529	27848	-2561	28962	-2561	28962	-2561	28962	-2561	17
39188	1681	841217	1155	49-2777			1718	2117	1820	2325	1961	2073	2265	1243		47
39188	1682	2435	1071	2529	1034	2587	981	2606	995	2835	831	2921	671	3105	465	68
39188	1683	3197	388	3570	37	4036	-223	4517	-333	5067	-582	6238	-664	7098	-675	97
39188	1684	7753	-777	9138	-998	9567	-1064	10281	-1162	11167	-1268	11957	-1360	12632	-1440	86
39188	1685	13485	-1511	14157	-1583	14674	-1648	15165	-1698	15910	-1751	16811	-1847	17476	-1890	32
39188	1686	18235	-1950	19038	-2021	19875	-2071	20772	-2144	21418	-2181	22138	-2255	22990	-2291	28
39188	1687	23684	-2345	24506	-2404	25426	-2447	26301	-2490	27008	-2533	27863	-2585	28667	-2634	87 550
39188	1688	29458	-2676	30383	-2745	31171	-2777									39
39190	2918	10717	1200	40-3070			1720	2360	1900	2200	1910	2090	2020	1170		9
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39190	293	4480	-540	4700	-640	5030	-730	5390	-840	5720	-720	6400	-600	7200	-870	67
39190	294	8140	-1110	9170	-1230	10080	-1270	10200	-1290	11560	-1330	13100	-1460	13130	-1460	31
39190	295	14440	-1580	15440	-1690	23550	-2280	24920	-2390	26020	-2450	27660	-2570	28950	-2640	0
39190	296	29980	-2720	31660	-2820	33050	-2880	33950	-2910	33990	-2920	34580	-2980	35340	-3000	70
39190	297	36810	-3070													92
39190	371	810823	900	53-2400			1610	2130	1720	2380	1880	2270	1930	2170		45
39190	372	1990	1750	2040	1480	2180	1200	2300	1020	2410	890	2710	680	3000	400	7 395
39190	373	3280	190	3520	-30	3730	-160	3990	-330	4360	-450	4960	-620	5220	-660	31
39190	374	5550	-770	5760	-800	5940	-820	6000	-800	6190	-800	6390	-790	6450	-780	99
39190	375	6620	-770	6730	-760	6770	-770	7000	-710	7340	-690	7690	-820	8020	-950	44
39190	376	8700	-1140	9010	-1170	9230	-1190	9570	-1230	10260	-1250	10800	-1270	11450	-1300	78
39190	377	12030	-1350	12890	-1430	13710	-1480	14550	-1610	15080	-1660	16660	-1820	17640	-1900	18
39190	378	18980	-1990	20190	-2060	21250	-2130	22170	-2190	23410	-2280	24550	-2330	25340	-2400	52
39190	461	811016	1300	40-2210			1840	2290	1930	2080	2040	1500	2170	1200		31
39190	462	2300	1090	2370	1020	2410	1000	2620	800	2890	570	3200	220	3520	-220	7
39190	463	3850	-270	4270	-560	4670	-810	5000	-880	5430	-890	5770	-860	6160	-820	68
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(Sheet 48 of 61)

Table Bl. (Continued)

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39190	64728375-262929559-269830488-2753	75	
39190	651820302 1200 26-1350	1720 2388 1848 2290 1924 2168 1944 1851	15 501
39190	652 2005 1324 2203 956 2431 672 2628 489 2806 234 3223 -230 3595 -352	57	
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39190	65512950-1264	30	
39190	661820308 1100 36-2645	1727 2403 1868 2280 1934 2158 1982 1661	82
39190	662 2009 1369 2203 956 2316 776 2686 439 3094 -1 3349 -354 3639 -369	94	
39190	663 4157 -481 4628 -490 5253 -501 5982 -820 6694-1119 7554-1307 8178-1344	11	
39190	664 8888-1340 9600-128310377-118811215-111112049-116412994-128913863-1425	57	
39190	66514776-156715952-172517127-184918516-196319873-206821349-218322915-2297	34	
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39190	671820317 1145 42-2814	1584 2077 1645 2188 1700 2368 1807 2316	65
39190	672 1921 2138 1988 1595 2042 1212 2275 843 2299 805 2681 421 3101 183	14	
39190	673 3374 -46 3536 -332 3895 -381 4387 -348 5012 -480 5509 -543 6238 -915	72	
39190	674 6974-1192 7706-1333 8308-1335 9232-1306 9910-121010766-111011492-1124	34	
39190	67512435-122713340-135714226-148315160-162016345-175617183-185118707-1985	17	
39190	67620396-210921742-221523198-231024557-239425821-247827060-255428192-2615	30	
39190	67729390-268330694-275431964-2814	81	
39190	681820324 1000 39-2694CV.12010	1721 2386 1839 2329 1925 2151 1958 1808	25
39190	682 2021 1316 2160 1018 2358 750 2368 750 2667 551 3243 80 3528 -287	31	
39190	683 3805 -249 4232 -278 4689 -336 5172 -482 5751 -705 6287 -952 6914-1161	27 396	
39190	684 7719-1302 8321-1327 9009-1290 9686-121710308-112010959-110111718-1126	65	
39190	68512593-123813535-137914669-154115730-168217126-183718540-195820046-2080	86	
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39190	703 4429 -745 4834 -498 5638 -514 6243 -869 6801-1165 7534-1296 8236-1300	70	
39190	704 9007-1285 9740-118810504-111511189-112512031-120812855-131113718-1445	26	
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39190	70624441-239125726-247527047-256228341-263129775-271031184-278032659-2849	51	
39190	721820419 1000 40-2884	1616 2122 1722 2379 1850 2305 1934 2133	84 511
39190	722 1986 1622 2062 1166 2230 908 2302 790 2666 635 3012 333 3499 -106	41	
39190	723 3793 -482 4319 -543 4859 -420 5346 -487 5909 -695 6565-1051 7265-1254	83	
39190	724 8036-1293 8582-1294 9194-1239 9786-115610420-111011112-113511914-1205	9	
39190	72512710-130513745-143715771-169517069-183818527-196419974-206321464-2175	90	
39190	72622928-227724438-239125903-247827210-255728964-264430491-274332004-2819	44	
39190	72733155-2884	99	
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39190	732 2037 1249 2257 871 2307 799 2625 694 3052 462 3510 -53 3887 -403	86	
39190	733 4195 -319 4637 -349 5180 -447 5671 -620 6096 -775 6680-1006 7296-1214	58	
39190	734 7883-1290 8449-1273 8642-1258 9391-117010009-110810623-112111212-1164	3 606	
39190	73512015-124412744-133413691-145114656-157115928-173217202-184518369-1949	89	
39190	73619719-205521279-216722699-227224056-236325461-246126922-254628354-2627	91	
39190	73729676-270031119-278431818-280932249-2839	98	
39190	741820517 1300 45-2809	1570 2019 1640 2194 1716 2417 1820 2337	10

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(Sheet 51 of 61)

Table Bl. (Continued)

39190	742	1923	2168	1959	1773	2047	1233	2238	941	2275	875	2516	745	2809	528	71
39190	743	3263	99	3566	-331	3930	-442	4350	-498	4749	-429	5303	-467	5798	-708	40
39190	744	6316	-954	6891	-1122	7502	-1250	8049	-1240	8575	-1189	9150	-1112	9694	-1087	69
39190	745	10420	-1097	10866	-11331	11466	-1191	12239	-12861	13140	-13971	14316	-15441	15408	-1671	96
39190	746	16498	-18091	7888	-1920	18994	-1993	20496	-2105	21962	-2210	23378	-2309	24739	-2393	90
39190	747	25940	-24662	7207	-2557	28474	-2608	29692	-2684	31055	-2753	32397	-2809			69 723
39190	751	820601	1000	43	-2791			1534	1931	1615	2127	1681	2331	1769	2350	83
39190	752	1914	2164	1956	1756	2066	1151	2277	887	2335	850	2393	821	2644	648	1
39190	753	3084	366	3570	-68	4031	-180	4454	-301	4969	-475	5505	-672	6260	-937	65
39190	754	6826	-1105	7487	-1233	8150	-1216	8828	-1143	9495	-1076	10122	-1074	10828	-1122	84
39190	755	11574	-1209	12428	-1313	13491	-1456	14663	-1577	16098	-1747	17653	-1887	18959	-1971	17
39190	756	20217	-2068	21645	-2172	22788	-2257	23925	-2320	25037	-2382	26188	-2468	27352	-2543	97
39190	757	28492	-2608	29632	-2665	30816	-2728	31937	-2791							44
39190	761	820616	1015	41	-2797			1538	1942	1633	2155	1701	2380	1815	2309	26
39190	762	1918	2139	1959	1747	2077	1124	2265	891	2361	859	2421	826	2788	490	61
39190	763	3241	179	3772	-69	4089	-141	4794	-290	5359	-532	5996	-804	6648	-1081	45 523
39190	764	7267	-1199	7782	-1187	8386	-1136	9161	-1087	9789	-1083	10453	-1145	11121	-1200	75
39190	765	11758	-1264	12416	-1347	13409	-1459	14413	-1579	15582	-1714	17068	-1851	18589	-1972	85
39190	766	20142	-2082	21592	-2190	23090	-2300	24836	-2410	26247	-2502	27667	-2585	28920	-2655	94
39190	767	30315	-272	31659	-2797											10
39190	771	820623	1145	38	-2815			1604	2135	1702	2381	1817	2308	1924	2155	71
39190	772	1988	1559	2051	1207	2293	897	2300	870	2789	511	3343	94	3825	-147	42
39190	773	4412	-324	4929	-317	5592	-610	6292	-963	6772	-1126	7416	-1205	8093	-1161	3
39190	774	8957	-1096	9680	-1089	10349	-1156	11270	-1224	12197	-1329	13467	-1490	14734	-1630	69
39190	775	16293	-1793	17857	-1919	19489	-2063	21221	-2167	22689	-2268	24017	-2366	25591	-2457	27
39190	776	27055	-255	228561	-2624	30070	-2726	31065	-2760	31066	-2763	32095	-2815			14 490
39190	791	820712	1325	42	-2825053			1569	2036	1652	2199	1721	2383	1824	2310	7
39190	792	1919	2149	1947	1866	2109	1072	2312	874	2356	850	2486	787	2910	532	84
39190	793	3485	133	3667	-91	4066	-136	4561	-261	5018	-433	5624	-666	6141	-915	53
39190	794	6760	-1147	7261	-1202	7846	-1171	8428	-1121	9103	-1114	9702	-1095	10373	-1161	57
39190	795	11200	-1237	12057	-1330	12946	-1422	14067	-1561	15204	-1692	16357	-1824	17902	-1940	16
39190	796	19235	-2033	20600	-2131	21850	-2219	23092	-2298	24173	-2367	25382	-2460	28264	-2625	2
39190	797	29535	-2705	30884	-2758	32379	-2825									94
39190	801	820722	1200	33	-2914			1633	2150	1740	2377	1917	2136	1975	1654	40
39190	802	2086	1093	2325	846	2420	869	2662	660	3165	325	3864	-59	4624	-353	17
39190	803	5313	-628	6103	-878	7053	-1181	7744	-1187	8771	-1102	9634	-1090	10672	-1183	58 428
39190	804	11863	-1299	12951	-1413	13988	-1549	15394	-1711	16923	-1852	18751	-1984	20292	-2112	86
39190	805	21980	-2229	23552	-2341	25023	-2447	26656	-2535	28218	-2621	29782	-2714	31559	-2798	10
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39190	822	2082	1107	2343	835	2385	826	2920	465	3454	256	4044	-162	4643	-467	19
39190	823	5107	-580	5669	-747	6472	-1058	7250	-1204	7929	-1155	8595	-1091	9419	-1081	12
39190	824	10136	-1130	10990	-1207	11964	-1303	12792	-1392	13711	-1507	14625	-1607	15721	-1733	22
39190	825	16811	-1838	18093	-1943	19819	-2068	21469	-2196	22792	-2279	24305	-2378	25669	-2458	60
39190	826	27444	-257	228853	-267	230104	-2724	32628	-2846	33331	-2884					95
39190	841	820824	850	39	-2915			1650	2185	1740	2383	1892	2212	2002	1491	90 501
39190	842	2075	1126	2314	862	2849	544	3327	249	3812	-39	4346	-196	4972	-472	19
39190	843	5414	-694	5896	-854	6581	-1094	7246	-1197	7884	-1163	8638	-1096	9241	-1082	77

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(Sheet 52 of 61)

Table Bl. (Continued)

39190	844	9956	-112910775	-118811690	-127612457	-136713380	-147414192	-156715196	-1686	96							
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39190	846	26300	-250127727	-258829016	-266430315	-274031748	-280933233	-287133771	-2915	23							
39190	851	1820901	1335	38	-2883	1631	2162	1734	2380	1916	2154	1996	1540				
39190	852	2085	1149	2264	899	2369	824	2793	547	3299	222	3774	-181	4232	-180	54	
39190	853	4918	-387	5551	-638	6201	-987	6821	-1131	7504	-1179	8350	-1114	9147	-1081	73	
39190	854	9894	-112810708	-118011553	-127112483	-136913538	-149214639	-161915849	-1749	44							
39190	855	17385	-189418791	-201220363	-211822085	-224423401	-231524838	-241526140	-2489	20	524						
39190	856	27474	-259428865	-264930349	-274231420	-280832886	-286233248	-2883	5								
39190	881	820923	1100	39	-2860	1625	2153	1721	2378	1909	2157	1989	1547	12			
39190	882	2082	1107	2343	835	2624	774	3077	472	3459	30	3620	-237	4001	-256	4	
39190	883	4445	-299	4827	-305	5413	-433	6046	-795	6638	-1047	7312	-1084	8092	-1085	66	
39190	884	8905	-1094	9818	-115910673	-121011709	-132612733	-141413659	-153414386	-1619	47						
39190	885	15959	-178316700	-184817545	-190218890	-200720085	-209621554	-220623042	-2301	33							
39190	886	23953	-237125641	-249327116	-257128531	-264929855	-270830861	-277832076	-2860	10							
39190	931	821015	1630	42	-2765001	1447	1747	1649	2223	1720	2380	1965	1275	10			
39190	932	2373	1042	2938	518	3336	53	3579	-307	3786	-668	3892	-644	4249	-646	47	
39190	933	4681	-633	5191	-722	5593	-729	6010	-586	6317	-520	6839	-733	7623	-1002	79	313
39190	934	8298	-1069	8886	-1094	9565	-112610377	-117411237	-124812163	-135913226	-1496	59					
39190	935	14188	-162515035	-170916301	-182317533	-193318722	-201919999	-210621268	-2186	84							
39190	936	22612	-229423436	-233524553	-240425686	-246426700	-253527712	-258528715	-2638	95							
39190	937	30110	-271330802	-276531066	-2762	8											
39190	971	821026	1050	37	-2357	1604	2117	1700	2368	1745	2401	1886	2263	60			
39190	972	1998	1415	2167	1212	2396	1012	2648	817	3023	405	3354	1	3726	-644	90	
39190	973	4061	-796	4536	-823	4995	-774	5440	-644	5801	-470	6183	-475	6714	-645	52	
39190	974	7211	-887	7770	-1090	8441	-1190	9247	-1222	9878	-119110795	-119811604	-1243	36			
39190	975	12276	-130613047	-139514031	-154514859	-164215762	-174617016	-186918291	-1994	88							
39190	976	19188	-206820527	-216421799	-225422650	-231123316	-2357	53	625								
39190	981	821103	1430	43	-2914	1604	2117	1700	2368	1745	2401	1886	2263	31			
39190	982	1998	1415	2167	1212	2395	1012	2701	700	3056	414	3604	-194	3850	-522	53	
39190	983	4189	-728	4468	-337	4929	-412	5612	-580	6325	-771	6956	-936	7612	-1094	19	
39190	984	8441	-1182	9102	-1180	9617	-116610296	-115611037	-119111883	-127112823	-1394	41					
39190	985	13950	-154915086	-169216008	-178517087	-189218227	-198219381	-207120699	-2171	39							
39190	986	22005	-226423235	-233424455	-242025610	-249826692	-255327642	-260528926	-2662	97							
39190	987	30199	-272631408	-277832717	-283133685	-2914	10										
39190	1001	821201	1200	42	-2907	1737	2383	1882	2266	1968	1721	2010	1417	41			
39190	1002	2340	1065	2419	994	2842	562	3217	145	3547	-233	3969	-618	4482	-533	8	
39190	1003	5179	-634	5809	-414	6197	-590	6713	-807	7145	-994	7848	-1184	8506	-1241	0	339
39190	1004	8942	-1224	9337	-1204	9865	-115610491	-111511358	-114812107	-126013091	-1410	2					
39190	1005	13871	-153915181	-171216629	-186018023	-196619322	-207220641	-215821955	-2257	38							
39190	1006	23340	-235324748	-243925851	-250626962	-256528272	-263329449	-269330534	-2734	41							
39190	1007	31561	-279132647	-285733530	-2907	28											
39190	1011	821207	1200	43	-2907	1737	2383	1882	2266	1968	1721	2010	1417	70			
39190	1012	2340	1065	2460	921	2885	462	3287	53	3574	-364	3864	-509	4286	-522	67	
39190	1013	4653	-578	5202	-592	5705	-450	6114	-611	6684	-824	7145	-994	7848	-1184	56	
39190	1014	8506	-1241	8942	-1224	9337	-1204	9865	-115610491	-111511358	-114812107	-1260	3				
39190	1015	13091	-141013871	-153915181	-171216629	-186018023	-196619322	-207220641	-2158	32							
39190	1016	21955	-225723340	-235324748	-243925851	-250626962	-256528272	-263329449	-2693	74	411						

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(Sheet 53 of 61)

Table Bl. (Continued)

39190	1162	2201	1196	2336	1031	2655	815	3071	516	3541	-32	3907	-293	4313	-408	5
39190	1163	4940	-446	5510	-460	6452	-731	7683	-1126	8875	-1401	9847	-14881	1156	-1433	5
39190	1164	12054	-13941	13586	-13491	14950	-14451	16413	-16201	17894	-18081	19365	-19752	1037	-2147	15
39190	1165	22188	-2252	23306	-23382	24569	-24112	25938	-25022	27173	-25642	28408	-26203	0078	-2707	98 524
39190	1171	830630	1055	33-2630				1693	2372	1817	2316	1895	2243	1997	1553	81
39190	1172	2265	1101	2901	707	3425	233	3862	-381	4129	-333	4732	-366	5410	-462	68
39190	1173	5970	-611	6599	-891	7262	-1067	8087	-1283	8992	-1430	9662	-14781	0532	-1464	82
39190	1174	11381	-14161	2668	-13601	3776	-13771	4987	-14521	6269	-16181	7512	-17711	8927	-1949	34
39190	1175	19944	-20402	1126	-21652	2282	-22492	3563	-23532	4915	-24332	6255	-25122	7507	-2570	22
39190	1176	28506	-2630													42
39190	1181	830711	825	36-2761				1699	2386	1721	2417	1816	2309	1888	2249	85
39190	1182	2000	1533	2151	1267	2307	1058	2545	818	3004	635	3558	43	4180	-260	73
39190	1183	4723	-371	5314	-453	5966	-714	6608	-900	7583	-1178	8450	-1344	9252	-1453	51
39190	1184	9982	-14831	1085	-14361	2089	-13891	3201	-13621	4579	-14341	5750	-15521	7101	-1721	24 562
39190	1185	18405	-18821	19735	-20262	1149	-21722	2636	-22812	3927	-23722	5094	-24412	6330	-2520	66
39190	1186	27420	-25762	8565	-26073	0120	-27043	1094	-2761							7
39190	1191	830725	1008	32-2751001				1698	2561	1800	2368	1980	1725	2015	1507	86
39190	1192	2374	965	2783	765	3275	394	3680	-68	4239	-315	4736	-340	5317	-556	18
39190	1193	6067	-768	6884	-1008	7648	-1180	8384	-1333	9362	-14691	0388	-14791	1573	-1407	93
39190	1194	12802	-13551	3895	-13791	5103	-14751	6533	-16381	7857	-18161	9461	-19952	0684	-2119	8
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39190	1201	830808	840	30-2662				1811	2329	1968	1766	2034	1467	2150	1263	85
39190	1202	2297	1056	2632	818	2933	704	3244	481	3746	-103	4149	-213	4683	-350	66
39190	1203	5503	-645	6713	-965	7687	-1201	8812	-1408	9918	-14841	1130	-14311	2400	-1370	15 465
39190	1204	13979	-13861	3335	-14981	6874	-16931	8404	-18751	9917	-20422	1216	-21642	2673	-2290	33
39190	1205	24104	-23992	5366	-24652	6807	-25432	7867	-26092	9149	-2662					72
39190	1211	830825	900	29-2491				1811	2329	1968	1766	2034	1467	2150	1263	9
39190	1212	2383	967	2846	641	3264	181	3769	-364	4291	-457	4909	-448	5729	-490	13
39190	1213	6410	-863	7212	-1127	7943	-1271	8735	-1401	9467	-14711	0530	-14491	1502	-1404	60
39190	1214	12606	-13481	3674	-13891	4686	-14551	5994	-15961	7117	-17191	8438	-18891	9798	-2029	50
39190	1215	21008	-21552	3684	-23652	4997	-24452	5925	-2491							26
39190	1221	830906	835	36-2837				1702	2377	1893	2251	2038	1437	2285	1082	19
39190	1222	2291	1071	2620	827	3041	460	3376	131	3672	-286	4038	-254	4642	-314	78
39190	1223	5359	-433	6146	-656	6856	-1037	7567	-1205	8344	-1365	9339	-14681	0198	-1477	22 382
39190	1224	11008	-14281	1971	-13681	3019	-13831	3982	-13921	5001	-14801	6297	-16371	7680	-1809	67
39190	1225	19005	-19622	0586	-21182	2040	-22492	3536	-23662	4652	-24292	5908	-25012	7373	-2581	78
39190	1226	28696	-26452	9899	-27113	1067	-27643	2159	-2837							17
39190	1231	830918	845	33-2801				1702	2377	1893	2251	2038	1437	2275	1092	70
39190	1232	2285	1082	2730	691	3355	-58	3804	-476	4403	-471	4949	-790	5561	-813	98
39190	1233	6323	-717	7235	-851	8068	-1276	9099	-14331	0026	-14811	1023	-14311	2271	-1354	70
39190	1234	13630	-13671	4839	-14681	6027	-16081	7493	-17841	8996	-19572	0660	-21252	1832	-2220	11
39190	1235	22999	-23202	4353	-24152	5524	-24852	6603	-25422	7740	-25872	9139	-26613	0465	-2726	22
39190	1236	31629	-2801													26
39190	1241	831001	950	52-2704				1696	2380	1696	2377	1835	2324	1887	2269	95 554
39190	1242	1893	2244	1951	1881	1993	1577	1997	1563	2151	1269	2366	1001	2479	914	9
39190	1243	2750	644	3082	277	3125	210	3450	-117	3834	-721	4095	-815	4455	-664	92
39190	1244	4674	-565	4982	-458	5430	-394	5777	-449	6034	-483	6260	-534	6552	-579	40
39190	1245	6865	-732	7298	-964	7684	-1123	8026	-1250	8296	-1324	8834	-1401	9227	-1447	64

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(Sheet 56 of 61)

Table Bl. (Continued)

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39190	124716110-160417232-174218254-186418992-195319933-205421001-215122236-2252	1	
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39190	1251831005 805 26-2091	1696 2377 1836 2324 1893 2244 1951 1881	99
39190	1252 1997 1563 2151 1269 2351 1022 2586 778 3227 178 3727 -439 4223 -616	28	
39190	1253 5025 -484 5842 -499 6842 -708 7771-1146 8719-1392 9702-148610639-1477	96 554	
39190	125411665-140712696-135913799-137015031-147416416-164917599-179218826-1933	91	
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39190	1261831013 1310 39-2383	1696 2377 1836 2324 1893 2244 1951 1881	71
39190	1262 1997 1563 2151 1269 2289 1077 2637 747 2674 708 2917 457 3139 220	72	
39190	1263 3281 42 3533 -354 3789 -559 4156 -552 4812 -529 5294 -573 6103 -609	9	
39190	1264 6760 -673 7635-1030 8473-1339 9416-147610054-147110910-143411587-1397	46	
39190	126512492-136113365-135514056-139914607-145315651-154916782-173217748-1816	34	
39190	126618818-196419828-205320394-211521134-218922190-225623106-235523995-2383	42	
39190	1271831024 1145 38-2348	1696 2377 1836 2324 1893 2244 1951 1881	47
39190	1272 1997 1563 2151 1269 2279 1088 2569 797 2964 447 3251 148 3599 -391	65 543	
39190	1273 4041 -594 4464 -603 4950 -609 5468 -592 6914 -721 7522 -955 8310-1287	97	
39190	1274 8990-1435 9738-149410454-148611296-138112268-132913143-133213966-1407	68	
39190	127514832-150215632-160116379-169117344-179518318-191218915-197419607-2045	30	
39190	127620246-210521003-216821692-221722201-225722731-229723362-2348	58	
39190	1281831107 1100 29-2671	1695 2385 1824 2335 1899 2200 1947 1902	61
39190	1282 2001 1575 2187 1233 2803 751 3427 54 3984 -379 4801 -279 5681 -486	60	
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39190	1292 2303 1058 2605 854 3115 301 3623 -180 4299 -527 5133 -710 5917 -471	42	
39190	1293 7002 -759 7842-1142 8852-1407 9879-145110895-138011835-133012760-1345	65	
39190	129414077-145215350-159216572-172517598-185118750-196120094-208221450-2202	64	
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39190	1301831202 900 30-2491	1661 2279 1698 2386 1881 2271 1948 1874	55
39190	1302 1999 1565 2370 982 2757 710 3259 107 3721 -282 4263 -554 5250 -631	81	
39190	1303 6189 -462 7150 -866 8025-1226 8826-1412 9879-145510988-137412146-1326	66	
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39190	1312 1993 1570 2095 1352 2353 1011 2732 661 3083 340 3650 -248 4024 -613	74	
39190	1313 4565 -692 4997 -690 5339 -652 5645 -471 5844 -498 5984 -441 6307 -464	82	
39190	1314 6695 -595 7006 -741 7710-1043 8271-1258 8774-1380 9627-145810246-1429	52	
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39190	131723133-232123910-237625565-246327126-255128019-259828911-264829556-2683	55	
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39190	1322 3657 -365 3983 -609 4473 -698 4934 -799 5418 -793 5852 -734 6364 -550	51	
39190	1323 6800 -557 7369 -723 7742 -902 8188-1116 8622-1307 9429-145310405-1449	12 520	
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(Sheet 57 of 61)

Table B1. (Continued)

39190	144517916-190619109-199120378-209021625-218022849-228323977-233625164-2420	5
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39190	1452 2344 1124 2418 1070 2799 609 3324 71 3770 -314 4105 -646 4461 -788	6
39190	1453 4890 -897 5435 -901 6070 -784 6611 -510 7120 -675 7880-1030 8641-1250	54
39190	1454 9382-132510384-131811450-132212589-137813639-146414913-160316639-1792	70
39190	145517922-189719118-198820365-208521523-217622724-226624141-235725275-2430	72
39190	145626375-249827523-254828699-2623	98
39190	1461840425 1030 33-2487CV.1E 1699 2395 1729 2440 1793 2372 1884 2271	41
39190	1462 1944 1869 2025 1478 2130 1268 2487 999 2979 454 3563 -102 3936 -611	43
39190	1463 4327 -799 4857 -843 5463 -415 6021 -507 6730 -714 7309 -918 8175-1167	28 480
39190	1464 9066-1306 9848-132310980-131312140-135913263-144814377-155915679-1702	40
39190	146516980-182918264-192419869-204721083-214822387-223723773-233324940-2418	49
39190	146626141-2487	61
39190	1471840509 1050 34-2494AB 1699 2395 1729 2440 1793 2372 1884 2271	79
39190	1472 1944 1869 2025 1478 2306 1092 2616 902 3219 406 3874 -184 4182 -365	0
39190	1473 4504 -305 5191 -418 5535 -525 6270 -728 6859 -889 7517-1044 8189-1194	81
39190	1474 9057-1290 9921-130110926-130211696-133012818-141313606-148214739-1595	64
39190	147516260-176017501-186318802-195420146-206221490-216922662-225023956-2345	42
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39190	1491840524 1300 33-2603 1700 2396 1892 2271 1998 1615 2164 1259	71
39190	1492 2338 1080 2652 885 3134 384 3540 -65 3820 -414 4190 -437 4680 -398	7
39190	1493 5172 -500 5803 -606 6410 -742 7097 -953 7857-1149 8618-1247 9569-1273	29
39190	149410801-130511935-134613212-144714305-155615790-174217167-185318491-1953	62
39190	149519650-202620951-212822265-222923644-232224972-240826158-247627254-2541	15
39190	149628368-2603	75 452
39190	1501840601 110 30-2574 --- 1692 2386 1885 2282 2008 1582 2166 1262	5
39190	1502 2322 1056 2525 984 3068 356 3606 -329 3868 -356 4611 -576 5161 -659	51
39190	1503 5776 -627 6493 -726 7247 -982 8103-1202 9131-127210057-127911127-1293	99
39190	150412341-139113639-150514881-164616271-177117548-187919187-201620485-2122	51
39190	150521850-218623291-228124790-240726392-250827639-2574	18
39190	1511840614 1040 21-1833 1699 2400 1887 2297 2042 1484 2492 998	38
39190	1512 2968 458 3352 86 3864 -389 4386 -554 5130 -617 5828 -603 6504 -750	40
39190	1513 7078 -953 7939-1178 8851-1253 9635-128710675-128911854-134313031-1445	97
39190	151414082-159015509-171816972-1833	34
39190	1521840627 1035 32-2633 1701 2393 1888 2276 2044 1475 2289 1127	31 464
39190	1522 2564 958 3106 373 3670 -253 4077 -502 4520 -587 5021 -369 5829 -654	86
39190	1523 6187 -776 6681 -883 7228-1024 8022-1180 8871-1258 9848-126411106-1297	17
39190	152412280-136913265-144514306-157215370-168217185-186018815-197720080-2060	13
39190	152521147-213322485-225023878-236125075-241026179-248127483-257729157-2633	27
39190	1531840710 1045 29-2514 1695 2388 1885 2270 2017 1541 2426 1041	8
39190	1532 3016 479 3465 217 4000 -186 4558 -461 5069 -454 5744 -601 6460 -872	71
39190	1533 7140-1032 7944-1195 8501-1234 9036-1252 9935-126610897-131111713-1355	18
39190	153412743-142413952-154615643-171816992-183019081-200520519-210021955-2203	71

(Continued)

(Sheet 59 of 61)

Table B1. (Concluded)

39190	1644	5592	-858	6121-1050	6592	-923	7463	-726	7915	-840	8576-1021	9095-1116	80				
39190	1645	9932	-121310730	-126411962	-137712787	-143413826	-155414896	-165016408	-1782				42				
39190	164617403	-187618810	-200220045	-209720967	-216922035	-223323131	-229324233	-2370					97				
39190	1651841029	1220	40-2841			1651	2263	1682	2404	1735	2462	1882	2285	46	569		
39190	1652	1930	2002	2021	1573	2164	1271	2379	911	2748	610	3308	75	3746	-538	7	
39190	1653	3920	-641	4322	-741	4698	-642	5099	-658	5404	-966	5606	-936	5971	-982	42	
39190	1654	6295	-919	6772	-719	7458	-645	8084	-801	9024	-102110200	-118211383	-1298			30	
39190	165512562	-142013700	-155414833	-167116253	-180917885	-193619268	-204920701	-2152								46	
39190	165622464	-226723696	-234825248	-243126775	-251727932	-258629384	-267130676	-2746								8	
39190	165732073	-2841														76	
39190	1671841128	1030	46-2319002			1646	2248	1689	2388	1753	2443	1847	2321			10	
39190	1672	1884	2243	2016	1563	2152	1295	2282	1093	2323	1015	2326	1009	2476	883	48	
39190	1673	2652	820	2753	763	2851	620	3016	481	3332	163	3585	-147	3800	-264	82	
39190	1674	4103	-478	4119	-492	4343	-632	4524	-685	4720	-678	5032	-678	5335	-643	68	417
39190	1675	5556	-637	5874	-596	6225	-614	6697	-630	7107	-649	7548	-705	7981	-820	33	
39190	1676	9086	-104210111	-118811044	-128711983	-138913139	-151814332	-163315472	-1755							63	
39190	167716284	-183017401	-190318758	-201019810	-208720716	-215321745	-221523322	-2319								19	
39190	1681841217	1315	44-2549			1884	2278	2034	1539	2234	1161	2342	973			60	
39190	1682	2471	886	2753	694	2847	634	3200	340	3625	-89	3846	-217	4159	-306	5	
39190	1683	4679	-559	5250	-653	5881	-643	6578	-654	7093	-711	7782	-807	8480	-918	96	
39190	1684	9488	-108010340	-119111217	-131111969	-139212758	-148513508	-156614216	-1639							84	
39190	168515147	-171916162	-181616755	-186317412	-191018101	-197118727	-201719259	-2051								83	
39190	168620318	-213220909	-217621583	-221022205	-225322817	-229723637	-234024300	-2394								8	
39190	168725139	-243325779	-247326347	-249026895	-254926895	-2529										16	467

APPENDIX C: PROGRAM DATACHECK

The following program was written as an aid to the proper entry of the profile data into the user's computer system. The program was run on the correct data at the Field Research Facility and the proper checksum values added to the BPAS format file as explained in Appendix B. The data should be entered without the checksum values and then run through this program. Compare the checksum values with those given in Appendix B. The code was developed on a Control Data Corporation computer, but should be easily converted to any system running an implementation of FORTRAN 77.

PROGRAM DATCHK (INPUT,OUTPUT,TAPE7)

```

C
C      AUTHOR: MS. REBECCA SAVAGE, WESCD-F
C THIS PROGRAM IS DESIGNED FOR THE DATA PROCESSER TO COMPARE COPIES
C OF DATA FILES TO MAKE SURE TRANSFERED COPIES ARE CORRECT.
C THE COPY CAN BE CHECKED AT EVERY LINE OR EVERY TEN LINES.
C
C THE PROGRAM READS FROM FORTRAN UNIT 7 AND WRITES TO UNIT 8
C
C      INTEGER*2 ICARD(25),ITOT,LTOT,I,J,N,V,STOT
C      CHARACTER*1 LINE(80),CARD(25)
C
C      DATA ICARD/1,2,3,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,
$          20,21,22,23,24,25/
C      DATA CARD/'.' , '-' , '0' , '1' , '2' , '3' , '4' , '5' , '6' , '7' , '8' , '9' ,
$          'G' , 'H' , 'D' , 'E' , 'O' , 'M' , 'R' , 'C' , 'V' , 'A' , 'S' , 'B' /
C
C DATA IS READ IN LINE BY LINE
C
C      N=1
C      V=1
C      STOT=0
C 50  ITOT=0
C      READ(7,100,END=99) LINE
C 100  FORMAT(80A1)
C
C ASSIGN INTEGER VALUES TO CHARACTER DATA
C AND KEEP SUMS OF DATA BASED ON CHARACTER AND LOCATION IN LINE
C
C      DO 10, I=1,80
C          DO 20, J=1,25
C              IF (LINE(I).EQ.CARD(J))THEN
C                  ITOT=ICARD(J)*I+ITOT
C                  GO TO 10
C              END IF
C 20  CONTINUE
C      WRITE (*,103) LINE(I),N,I

```

```

        WRITE(8,103) LINE(I),N,I
103     FORMAT('UNKNOWN CHARACTER ',A1,' IN LINE',I5,' AT COLUMN',I3)
10     CONTINUE
C C
C REDUCE THE SUMS TO A MANAGABLE LEVEL, KEEP A LINE SUM (LTOT)
C AND A SUM OF TEN LTOT VALUES (STOT). N COUNTS THE LINE NUMBER IN
C THE DATA FILE, V COUNTS THE TEN LINE INCREMENT FOR STOT.
C EACH LINE IS OUTPUT WITH ITS VALUE OF LTOT, EACH TENTH LINE
C ALSO INCLUDES STOT
C
        LTOT=MOD(ITOT,100)
        STOT=LTOT+STOT
        N=N+1
        IF(V.EQ.10)THEN
101     WRITE(8,101) LINE,LTOT,STOT
        FORMAT(80A1,5X,2I5)
        V=1
        STOT=0
        ELSE
102     WRITE (8,102) LINE,LTOT
        FORMAT(80A1,5X,I5)
        V=V+1
        END IF
        GO TO 50
99     STOP
        END

```

APPENDIX D: WAVE HEIGHTS AT PIER END, 1981-1984

This Appendix presents plots (Figures D1 to D4) of significant wave height at the pier end for each of the 4 years of this report, 1981-1984. The data from the pier-end Baylor wave staff have been combined with transformed data from the nearshore Waverider buoy to provide as complete a record as possible. It should be noted that the pier-end location becomes saturated with respect to wave height at approximately 2.8 m; thus, a value of 2.8 m may indicate that the significant wave height is greater farther offshore.

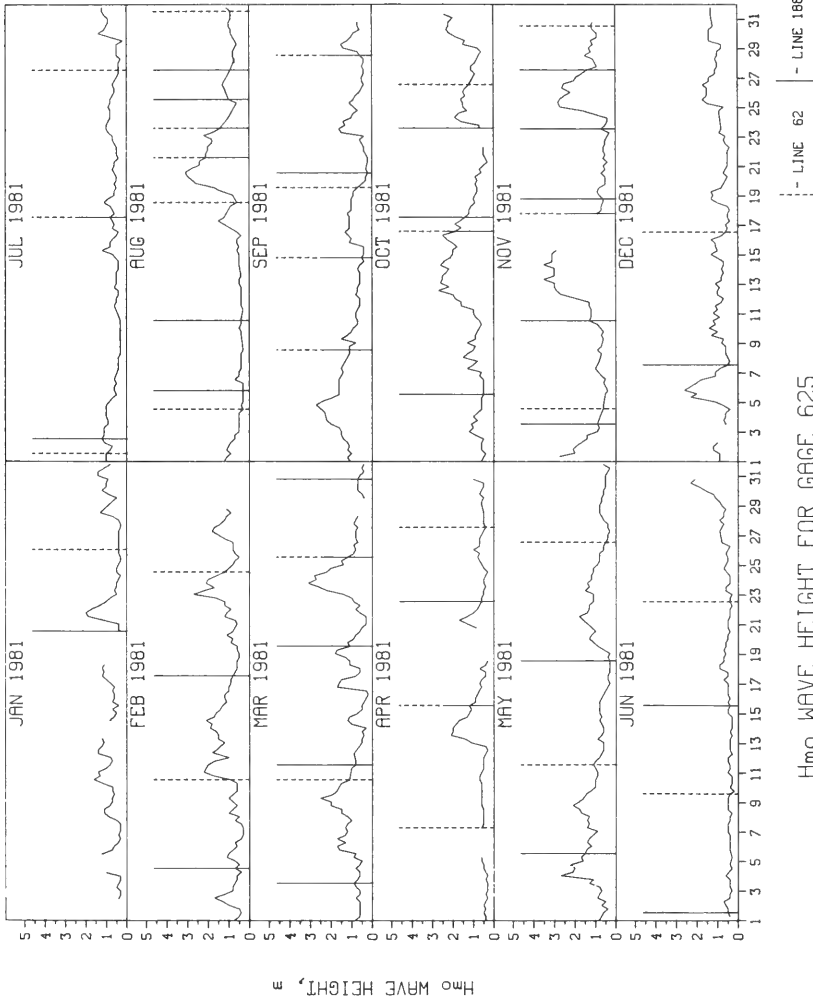
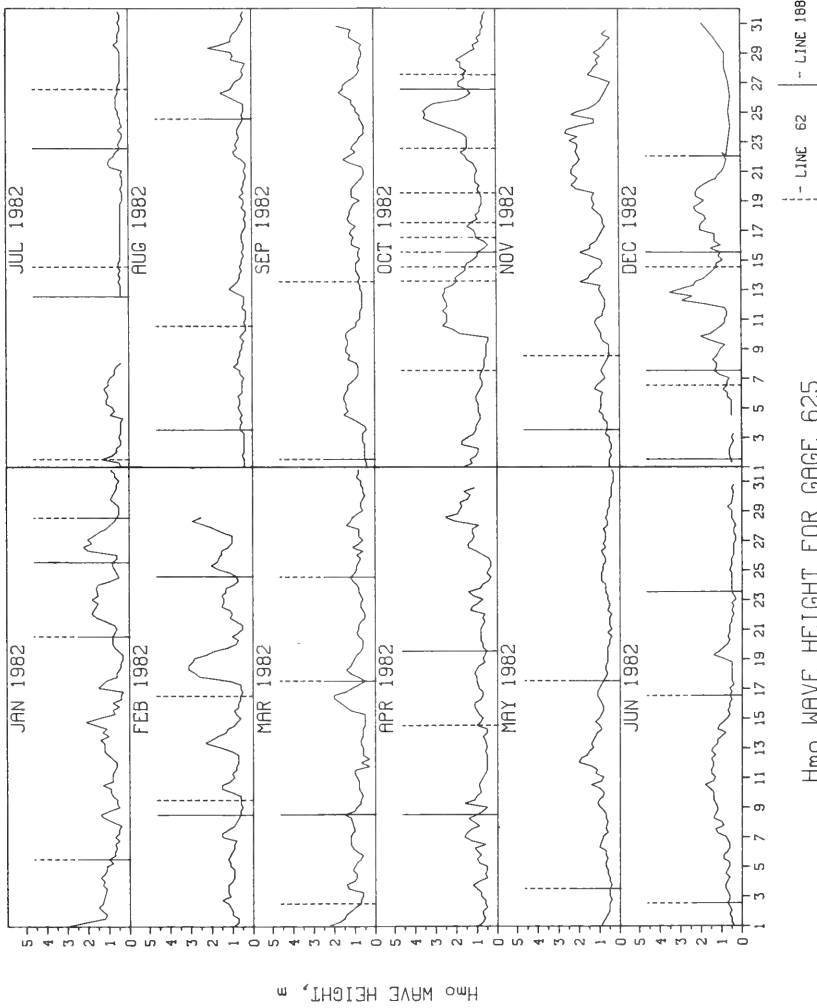
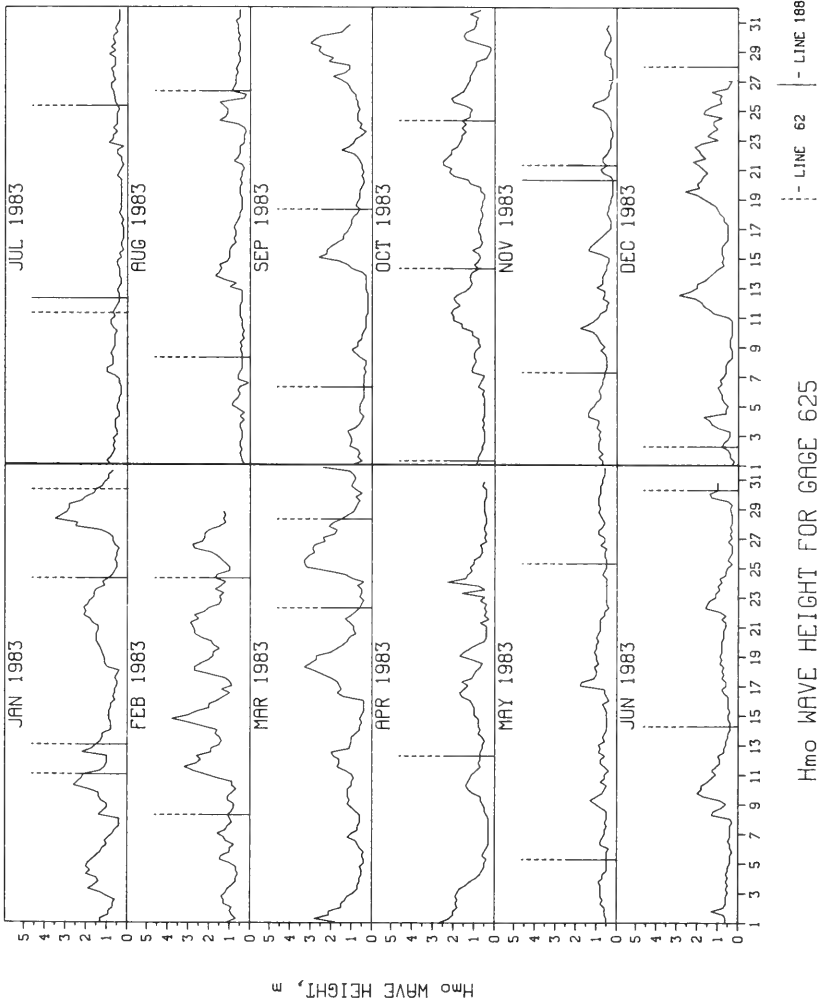


Figure D1. Wave height at pier end and times of surveys of lines 62 and 188, 1981

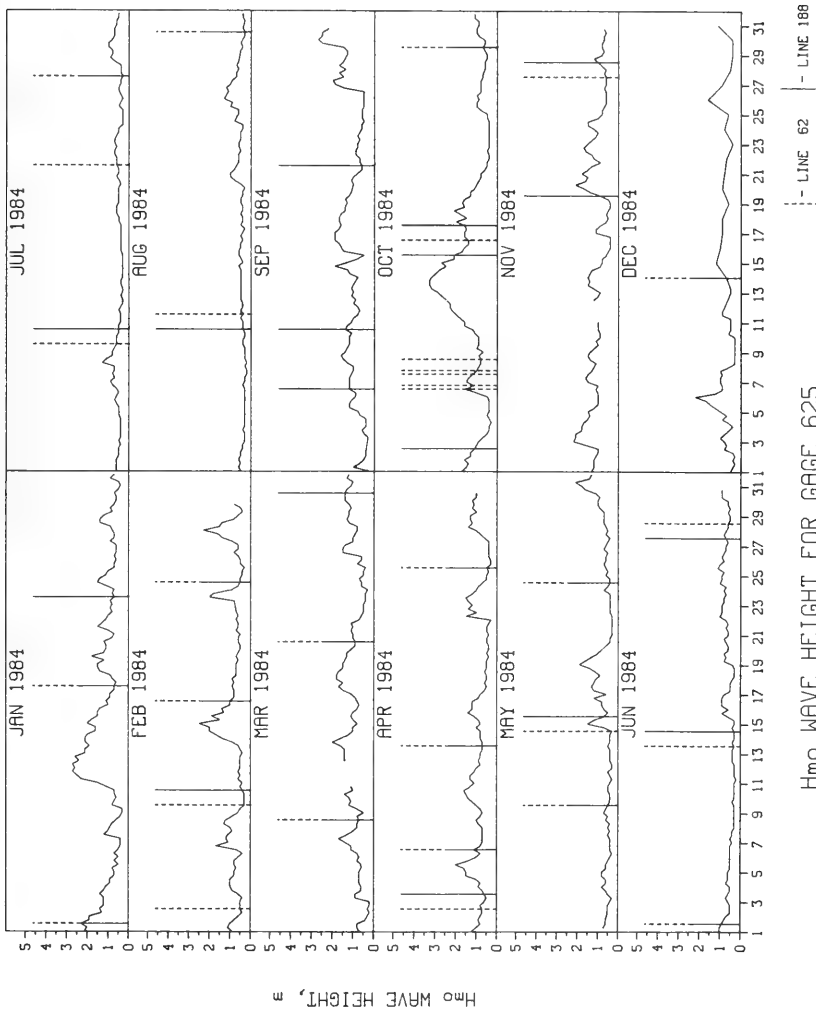


Hmo WAVE HEIGHT FOR GAGE 625

Figure D2. Wave height at pier end and times of surveys of lines 62 and 188, 1982



H_{mo} WAVE HEIGHT FOR GAGE 625
 Figure D3. Wave height at pier end and times of surveys of lines 62 and 188, 1983



APPENDIX E: WAVE HEIGHT AND PEAK PERIOD, 1981-1984

Table E1 lists wave height and peak period for the 4 years covered by this report (1981-1984). The wave heights contained in the table are equivalent to those presented graphically in Appendix D. The periods are the period associated with the maximum energy peak in the wave spectrum calculated from a discrete Fourier transform of the record. Details of these calculations can be found in the main text.

Table E1

Wave Data From 1981-1984

<u>JANUARY 1981</u>				<u>FEBRUARY 1981</u>			
<u>DAY</u>	<u>TIME</u>	<u>PERIOD (S)</u>	<u>HEIGHT (M)</u>	<u>DAY</u>	<u>TIME</u>	<u>PERIOD (S)</u>	<u>HEIGHT (M)</u>
1	0	10.0	1.1	1	100	8.0	0.7
2	1200	10.0	0.4	2	100	7.0	1.0
3	0	10.0	0.3	3	100	10.0	0.8
4	0	6.0	0.3	4	100	9.0	0.6
5	1200	6.0	1.2	5	100	12.5	0.7
6	100	6.0	0.6	6	100	6.0	0.6
7	100	12.0	0.3	7	100	14.0	0.3
8	115	5.0	0.9	8	100	12.0	0.5
9	100	7.0	0.7	9	100	8.0	0.8
10	105	4.0	0.7	10	700	10.3	0.6
11	105	5.0	1.4	11	100	9.0	2.2
12	105	4.0	0.8	11	700	9.0	2.1
13	105	6.0	1.1	11	1300	9.0	2.0
14	1310	12.0	0.8	12	100	9.0	1.0
15	105	10.0	0.5	13	100	7.0	1.2
16	100	4.0	0.6	14	100	9.0	1.9
17	1300	7.0	1.2	14	1300	12.0	2.1
18	100	7.0	1.2	15	100	10.0	1.6
20	1300	10.3	0.4	16	100	12.0	1.2
21	100	9.1	0.4	17	100	10.0	0.9
21	1900	8.0	2.0	18	100	9.0	0.6
22	100	9.0	1.7	19	100	9.0	0.5
23	100	9.0	0.5	20	100	7.0	0.8
24	100	5.0	0.4	21	100	8.0	0.6
25	100	3.0	0.4	22	100	9.0	0.9
26	100	6.0	0.4	23	100	12.0	2.7
27	100	10.8	0.4	23	700	14.0	2.2
28	100	5.4	0.4	23	1905	16.0	2.1
29	100	5.9	0.9	24	105	14.0	2.0
30	100	5.0	1.2	25	100	14.0	0.8
31	100	5.0	1.4	26	100	5.0	0.8
				27	100	10.0	1.5

(Continued)

(Sheet 1 of 22)

Table E1. (Continued)

				28	100	10.0	1.2
<u>MARCH 1981</u>				<u>APRIL 1981</u>			
<u>DAY</u>	<u>TIME</u>	<u>PERIOD (S)</u>	<u>HEIGHT (M)</u>	<u>DAY</u>	<u>TIME</u>	<u>PERIOD (S)</u>	<u>HEIGHT (M)</u>
1	100	12.0	0.8	1	100	8.0	0.4
2	100	10.0	0.6	2	100	6.0	0.5
3	115	10.0	0.6	3	100	8.0	0.3
4	100	5.0	0.6	4	100	14.0	0.3
5	100	7.0	0.5	5	100	6.0	0.6
6	100	16.0	1.7	7	700	9.0	0.6
7	100	10.0	1.2	8	100	9.0	0.5
8	100	12.0	1.2	9	1900	12.0	0.6
8	1900	14.0	2.0	10	100	11.0	0.6
9	100	14.0	2.0	11	100	10.0	0.6
9	700	14.0	2.5	12	100	10.0	0.5
10	100	14.0	1.6	13	100	5.0	1.1
11	815	12.0	1.0	13	1300	10.0	2.1
12	700	12.0	0.9	13	1900	11.0	2.0
13	100	14.0	0.5	14	100	11.0	2.0
14	100	12.0	0.3	15	100	10.0	1.2
15	100	6.0	0.7	16	100	7.0	0.9
16	100	9.0	0.3	17	100	8.5	0.7
17	100	6.0	1.6	18	100	6.4	0.7
18	110	12.0	0.6	20	1900	5.0	0.9
19	100	6.0	1.8	21	100	6.0	1.3
20	100	7.0	0.9	22	100	8.0	0.8
21	100	9.0	0.3	23	100	9.0	0.5
22	100	5.0	0.8	24	100	16.0	0.5
23	100	12.0	1.4	25	1300	13.7	0.8
23	700	14.0	2.2	26	100	5.1	1.0
23	1302	7.0	2.6	27	100	12.8	0.6
23	1900	8.0	3.1	28	100	12.1	0.5
24	100	10.0	2.7	29	100	3.8	0.6
24	700	12.0	2.8	30	100	7.0	0.6
24	1300	12.0	2.2				
24	1905	12.0	2.0				
25	117	12.0	1.4				
26	100	10.0	0.8				
27	100	10.0	0.8				
28	100	3.0	0.8				
29	1300	14.0	0.4				
30	100	14.8	0.7				
31	100	7.0	0.6				

(Continued)

(Sheet 2 of 22)

Table El. (Continued)

<u>MAY 1981</u>				<u>JUNE 1981</u>			
<u>DAY</u>	<u>TIME</u>	<u>PERIOD (S)</u>	<u>HEIGHT (M)</u>	<u>DAY</u>	<u>TIME</u>	<u>PERIOD (S)</u>	<u>HEIGHT (M)</u>
1	100	5.0	0.8	1	700	8.0	0.4
2	100	3.0	0.7	2	100	4.0	0.6
3	100	5.0	0.7	3	100	8.0	0.3
4	100	10.0	2.7	4	100	9.0	0.6
4	700	9.0	2.1	5	705	9.0	0.3
4	1300	11.3	2.0	6	100	9.1	0.4
4	1900	12.0	2.2	7	100	8.0	0.5
5	100	10.0	1.6	8	100	8.0	0.4
6	105	10.0	1.2	9	100	9.0	0.5
7	100	8.0	0.9	10	100	9.0	0.4
8	115	5.0	1.3	11	105	8.0	0.5
8	1900	7.0	2.1	12	100	8.0	0.5
9	100	8.0	1.8	13	100	8.0	0.4
10	100	8.0	1.0	14	100	8.0	0.3
11	100	8.0	0.9	15	100	8.0	0.5
12	100	6.0	0.8	16	100	10.0	0.4
13	100	8.0	0.6	17	100	9.0	0.5
14	105	9.0	0.6	18	100	4.0	0.9
15	100	10.0	0.8	19	100	8.0	0.6
16	1300	8.0	0.5	20	100	9.0	0.5
17	100	8.0	0.3	21	710	8.0	0.5
18	100	7.0	0.3	22	100	6.0	0.4
19	100	8.0	0.3	23	100	6.0	0.3
20	100	6.0	1.3	24	100	3.0	0.4
21	700	5.0	1.6	25	100	5.0	0.6
22	100	8.0	1.3	26	700	10.7	0.4
23	100	10.0	1.1	27	700	4.7	0.9
24	100	10.0	1.2	28	100	5.7	0.9
25	100	10.0	0.9	29	100	5.3	0.8
26	100	9.0	0.6	30	100	10.5	1.6
27	100	9.0	0.4	30	1300	11.5	2.3
28	100	6.0	0.6	30	1900	7.7	2.1
29	100	8.0	0.8				
30	100	8.0	0.6				
31	100	7.0	0.5				

<u>JULY 1981</u>				<u>AUGUST 1981</u>			
<u>DAY</u>	<u>TIME</u>	<u>PERIOD (S)</u>	<u>HEIGHT (M)</u>	<u>DAY</u>	<u>TIME</u>	<u>PERIOD (S)</u>	<u>HEIGHT (M)</u>
1	100	10.6	1.0	1	100	6.0	1.2
2	100	7.9	0.7	2	100	7.0	1.0
3	100	8.2	1.1	3	100	7.0	0.5
4	100	7.6	1.0	4	100	9.1	0.5
5	700	7.4	0.7	5	100	9.0	0.3

(Continued)

(Sheet 3 of 22)

Table E1. (Continued)

6	100	8.4	0.6	6	100	9.0	0.3
7	700	8.8	0.4	7	100	5.0	0.5
8	100	8.7	0.4	8	100	10.0	0.4
9	100	9.9	0.3	9	1300	7.0	0.4
10	100	10.0	0.3	10	100	9.0	0.5
11	1300	3.7	0.6	11	705	10.0	0.3
12	100	9.6	0.5	12	700	10.0	0.4
13	100	9.6	0.5	13	100	10.0	0.5
14	100	9.1	0.4	14	700	12.0	0.5
15	100	3.2	0.7	15	100	11.0	0.5
16	100	6.1	0.7	16	100	10.5	0.6
17	100	10.6	0.6	17	715	5.0	1.5
18	100	4.4	0.7	18	700	6.0	0.9
19	100	8.7	0.6	19	100	4.0	0.8
20	100	8.3	0.5	19	2000	8.0	2.6
21	100	6.4	0.6	20	200	9.0	2.8
22	700	6.6	0.5	20	800	9.0	3.0
23	100	8.4	0.7	20	1400	11.0	3.1
24	100	8.3	0.9	20	2000	10.0	2.8
25	100	6.8	0.9	21	200	11.0	2.4
26	100	7.7	0.6	21	800	12.0	2.4
27	100	8.2	0.5	21	1400	12.0	2.1
28	100	6.6	0.4	21	2000	12.0	2.1
29	100	2.1	0.5	22	200	12.0	2.0
30	100	6.0	1.4	22	800	11.0	2.0
31	100	4.0	0.9	23	200	12.0	2.2
				24	710	11.0	1.0
				25	700	12.0	0.6
				26	700	6.0	1.2
				27	700	8.0	1.0
				28	700	9.0	0.7
				29	100	8.0	0.7
				30	100	6.0	0.9
				31	100	7.0	0.9

SEPTEMBER 1981OCTOBER 1981

<u>DAY</u>	<u>TIME</u>	<u>PERIOD (S)</u>	<u>HEIGHT (M)</u>	<u>DAY</u>	<u>TIME</u>	<u>PERIOD (S)</u>	<u>HEIGHT (M)</u>
1	100	8.3	1.1	1	100	12.0	0.6
2	100	9.0	1.1	2	100	12.0	0.6
3	100	10.0	1.5	3	100	6.8	1.2
3	1300	12.0	2.0	4	100	6.0	1.0
3	1900	12.0	2.2	5	100	8.9	0.6
4	800	14.0	2.3	6	100	11.3	0.5
4	1400	12.0	2.5	7	100	3.6	0.6
4	2000	12.0	2.7	8	100	5.7	1.5
5	200	14.0	2.4	9	100	6.0	1.3
6	1300	11.9	1.6	10	100	6.0	0.7

(Continued)

(Sheet 4 of 22)

Table E1. (Continued)

7	100	12.5	1.4	11	100	5.0	1.0
8	700	11.4	1.1	12	100	6.0	1.9
9	100	10.8	0.8	12	700	6.0	2.0
10	100	10.2	0.9	12	1400	7.0	2.7
11	100	12.5	0.8	12	2000	7.0	2.2
12	100	11.4	0.6	13	200	8.0	2.6
13	100	10.2	0.6	13	900	8.0	2.5
14	100	11.8	0.7	13	1400	6.0	2.5
15	100	12.0	0.4	13	2000	6.0	2.3
16	200	14.0	1.0	14	100	8.1	2.2
17	700	8.0	1.1	14	700	9.4	2.6
18	100	12.0	1.0	14	1400	10.0	2.4
19	100	11.0	0.9	14	2000	9.0	2.1
20	100	7.0	0.3	15	200	10.0	2.0
21	800	8.0	0.2	15	800	11.0	2.0
22	100	11.0	0.4	15	1909	11.0	2.0
23	100	9.0	0.4	16	109	12.0	2.3
24	100	7.0	1.4	16	807	12.0	2.5
25	100	6.0	0.9	17	200	11.0	1.9
26	100	6.0	0.6	18	100	12.0	1.2
27	100	10.0	0.5	19	700	10.0	0.8
28	100	9.0	0.4	20	100	5.0	0.8
29	100	6.0	1.4	21	100	9.1	0.5
30	100	14.0	0.9	22	100	8.3	0.5
				23	1400	7.0	0.7
				24	100	5.0	1.6
				25	100	5.0	1.5
				26	100	7.0	1.5
				27	100	10.0	1.0
				28	100	6.7	0.9
				29	100	4.0	0.8
				30	200	9.0	2.2
				30	700	8.0	2.3
				30	1400	6.0	2.2
				30	1935	7.0	2.2
				31	200	7.0	2.0
				31	800	9.0	2.4

NOVEMBER 1981

DAY	TIME	PERIOD (S)	HEIGHT (M)
1	900	12.0	2.7
1	1400	12.0	2.0
1	2000	12.0	2.1
2	200	12.0	1.9
3	100	11.0	0.9
4	719	10.0	0.7
5	1405	7.0	0.5

DECEMBER 1981

DAY	TIME	PERIOD (S)	HEIGHT (M)
1	100	7.0	0.9
2	100	10.0	1.2
3	1300	9.0	0.6
4	100	6.0	0.6
5	100	5.0	1.1
5	900	10.0	2.3
5	1400	11.0	2.0

(Continued)

(Sheet 5 of 22)

Table E1. (Continued)

6	805	6.0	0.6	5	2000	12.0	2.6
7	700	7.0	1.0	6	200	12.0	2.3
8	700	11.0	0.7	6	800	12.0	2.0
9	700	14.0	0.6	7	100	11.1	1.1
10	700	4.0	0.9	8	100	12.3	0.5
11	700	4.0	1.2	9	100	5.0	0.8
12	800	7.0	2.7	10	100	7.0	1.4
12	1400	8.0	2.9	11	100	7.1	1.2
12	2000	9.0	3.0	12	100	6.0	0.7
13	200	10.0	3.0	13	100	7.0	1.1
13	800	12.0	3.5	14	100	9.0	0.8
13	1400	10.0	3.0	15	100	9.0	1.3
14	200	14.0	3.0	16	100	10.9	1.3
14	800	12.0	3.5	17	100	9.9	0.6
14	1340	12.0	3.1	18	100	9.0	0.4
14	2000	11.0	3.1	19	100	6.0	1.2
15	200	12.0	3.1	20	100	6.0	0.6
15	700	12.0	2.9	21	100	6.0	0.5
17	1900	5.6	0.9	22	100	9.4	0.5
18	100	7.0	0.7	23	100	6.4	0.6
19	100	4.0	0.8	24	1300	5.3	0.9
20	100	3.5	0.5	25	100	5.1	0.7
21	100	4.0	0.6	26	200	6.0	1.5
22	100	4.0	0.6	27	100	6.0	1.4
23	100	4.0	0.4	28	100	8.0	1.0
24	100	12.0	0.4	29	100	9.7	0.8
25	100	8.0	2.7	30	100	5.7	1.4
25	800	9.0	2.8	31	700	4.7	1.3
25	1400	12.0	2.7				
25	1900	13.7	2.5				
26	100	13.1	2.2				
26	800	12.0	2.6				
26	1500	14.0	2.5				
26	2000	14.0	2.0				
27	200	17.0	1.9				
28	100	14.0	1.0				
29	100	6.0	1.3				
30	100	4.0	0.9				

JANUARY 1982FEBRUARY 1982

<u>DAY</u>	<u>TIME</u>	<u>PERIOD (S)</u>	<u>HEIGHT (M)</u>	<u>DAY</u>	<u>TIME</u>	<u>PERIOD (S)</u>	<u>HEIGHT (M)</u>
1	100	10.0	2.9	1	100	8.0	0.9
1	700	11.0	2.1	2	100	5.0	1.0
2	100	10.0	1.3	3	100	7.0	1.1
3	1300	6.0	1.1	4	100	8.0	1.0
4	100	7.0	1.2	5	200	10.0	1.1
5	100	10.2	1.1	6	100	11.0	1.0

(Continued)

(Sheet 6 of 22)

Table E1. (Continued)

6	100	12.6	0.7	7	100	5.0	1.5
7	100	14.0	0.7	8	100	10.0	0.8
8	900	6.0	1.3	9	100	11.0	0.5
9	100	14.0	0.5	10	100	4.0	1.0
10	100	6.0	0.9	11	100	10.0	0.9
11	100	2.8	0.8	12	100	8.0	0.7
12	100	4.4	0.6	13	100	6.0	1.5
13	800	6.0	1.2	13	900	7.0	2.3
14	200	10.0	1.3	13	1400	8.0	2.0
14	1900	6.2	2.1	14	200	9.0	1.3
15	100	7.5	1.5	15	100	10.0	0.6
16	200	10.0	0.8	16	100	11.0	0.7
17	200	6.0	1.5	17	100	7.0	0.6
18	200	4.0	0.6	17	2000	10.0	2.6
19	100	11.0	0.3	18	200	12.0	2.8
20	100	6.0	0.8	18	800	11.0	3.1
21	100	5.0	0.6	18	1400	11.0	3.1
22	200	7.0	1.8	18	2000	12.0	2.9
23	100	7.0	1.8	19	200	11.0	2.8
24	100	10.6	1.5	19	200	11.0	2.8
25	100	4.0	0.7	19	800	11.0	2.2
26	100	8.4	0.6	20	100	11.0	0.8
26	800	6.0	2.0	21	100	7.0	0.5
26	1400	7.0	2.2	22	100	10.0	1.0
27	200	7.0	2.0	23	200	9.0	1.4
28	200	8.0	0.9	24	100	10.0	0.9
29	100	12.0	0.5	25	200	6.0	1.7
30	100	12.0	0.8	25	800	7.0	2.0
31	100	5.0	0.5	26	200	6.0	1.5
				27	200	11.0	1.0
				27	2300	7.0	2.1
				28	800	9.0	2.9
				28	1400	10.0	2.5
				29	2000	11.0	2.6

MARCH 1982

<u>DAY</u>	<u>TIME</u>	<u>PERIOD (S)</u>	<u>HEIGHT (M)</u>
1	200	11.0	2.2
2	903	10.0	0.9
3	100	8.0	0.6
4	200	6.0	1.0
5	705	8.0	0.9
6	100	3.0	0.9
7	200	10.0	1.2
8	800	6.0	1.2
9	100	8.0	0.9
10	730	5.0	0.8

APRIL 1982

<u>DAY</u>	<u>TIME</u>	<u>PERIOD (S)</u>	<u>HEIGHT (M)</u>
1	100	9.0	0.9
2	100	10.0	0.7
3	100	10.0	0.8
4	100	6.0	0.9
5	100	10.0	0.5
6	200	5.0	1.0
7	100	7.0	1.6
8	700	6.0	1.4
9	100	5.0	0.5
10	100	7.0	0.8

(Continued)

(Sheet 7 of 22)

Table E1. (Continued)

11	100	9.0	0.9	11	1300	8.0	0.5
12	100	11.0	0.7	12	100	11.0	0.5
13	100	12.0	0.6	13	100	4.0	0.5
14	100	11.0	0.6	14	100	7.0	0.5
15	100	11.0	0.5	15	100	6.0	0.7
16	900	8.0	2.0	16	100	5.0	1.1
16	1400	8.0	2.0	17	100	7.0	0.9
17	200	10.0	1.1	18	100	7.0	1.1
18	100	5.0	1.2	19	100	7.0	0.7
19	100	9.0	1.0	20	100	7.0	0.7
20	100	8.0	0.6	21	100	7.0	0.8
21	100	5.0	0.8	22	100	8.0	0.6
22	100	11.0	0.5	23	100	7.0	0.7
23	100	11.0	0.6	24	100	9.0	0.7
24	100	4.0	0.9	25	100	10.0	0.4
25	100	7.0	0.9	26	100	6.0	0.7
26	100	7.0	0.9	27	100	10.0	1.2
27	100	9.0	0.6	28	100	10.0	0.9
28	100	7.0	1.4	28	824	6.0	2.1
29	100	7.0	0.6	28	1400	7.0	2.5
30	100	9.0	0.5	29	205	9.0	1.8
31	100	9.0	0.7	30	200	8.0	1.3

MAY 1982

JUNE 1982

DAY	TIME	PERIOD (S)	HEIGHT (M)	DAY	TIME	PERIOD (S)	HEIGHT (M)
1	100	11.0	0.9	1	100	14.0	0.4
2	100	10.0	0.5	2	100	9.0	0.5
3	100	9.0	0.5	3	100	7.0	0.6
4	100	10.0	0.5	4	100	6.0	0.7
5	100	5.0	0.7	5	100	5.0	0.6
6	201	9.0	0.7	6	100	8.0	0.7
7	200	9.0	0.8	7	100	8.0	0.8
8	100	10.0	0.6	8	100	9.0	1.0
9	100	11.0	1.0	9	100	9.0	1.2
10	100	11.0	0.8	10	100	10.0	1.4
11	100	11.0	0.8	11	100	12.0	1.3
12	100	14.0	2.0	12	100	11.0	1.4
13	100	12.0	1.3	13	100	11.0	1.4
14	100	11.0	1.1	14	100	11.0	0.8
15	100	10.0	1.0	15	100	9.0	0.7
16	100	9.0	0.9	16	100	9.0	0.6
17	100	11.0	1.0	17	100	10.0	0.6
18	100	9.0	0.6	18	100	14.0	0.5
19	100	9.0	0.6	19	100	7.0	0.9
20	100	9.0	0.5	20	100	10.0	0.7
21	100	9.0	0.4	21	100	10.0	0.6
22	100	8.0	0.4	22	100	9.0	0.4

(Continued)

(Sheet 8 of 22)

Table E1. (Continued)

23	100	7.0	0.6	23	100	10.0	0.3
24	100	7.0	0.7	24	100	8.0	0.5
25	100	9.0	0.8	25	100	7.0	0.6
26	100	9.0	0.8	26	100	11.0	0.4
27	100	10.0	0.7	27	100	7.0	0.3
28	100	9.0	0.6	28	100	8.0	0.3
29	100	9.0	0.6	29	100	6.0	0.5
30	100	9.0	0.4	30	700	8.0	0.4
31	100	10.0	0.3				

<u>JULY 1982</u>				<u>AUGUST 1982</u>			
<u>DAY</u>	<u>TIME</u>	<u>PERIOD (S)</u>	<u>HEIGHT (M)</u>	<u>DAY</u>	<u>TIME</u>	<u>PERIOD (S)</u>	<u>HEIGHT (M)</u>
1	100	10.0	0.4	1	100	14.0	0.4
2	100	5.0	0.6	2	100	12.0	0.4
3	100	6.0	0.5	3	100	12.0	0.4
4	100	5.0	0.4	4	100	11.0	0.5
5	100	6.0	0.8	5	100	10.0	0.7
6	100	7.0	1.1	6	100	8.0	0.5
7	100	6.0	0.9	7	100	9.0	0.4
8	100	9.0	0.4	8	105	6.0	0.7
12	1300	8.0	0.4	9	100	9.0	0.5
13	100	11.0	0.4	10	700	8.0	0.3
14	100	11.0	0.5	11	100	8.0	0.3
15	100	10.0	0.4	12	100	7.0	0.4
16	100	10.0	0.4	13	100	6.0	1.1
17	100	7.0	0.4	14	100	6.0	0.6
18	100	11.0	0.4	15	100	6.0	0.5
19	100	9.0	0.3	16	100	6.0	0.4
20	100	7.0	0.3	17	100	7.0	0.4
21	100	2.0	0.3	18	100	8.0	0.3
22	100	7.0	0.7	19	100	10.0	0.4
23	100	10.0	0.4	20	100	6.0	0.4
24	100	7.0	0.3	21	100	6.0	0.4
25	100	4.0	0.5	22	100	4.0	0.8
26	100	10.0	0.6	23	100	6.0	0.7
27	100	8.0	0.4	24	100	6.0	0.6
28	100	9.0	0.4	25	100	10.0	0.4
29	100	7.0	0.4	26	737	6.0	1.5
30	100	7.0	0.5	27	100	6.0	0.8
31	100	9.0	0.5	28	100	9.0	0.4
				29	100	6.0	1.0
				29	800	6.0	2.1
				30	100	7.0	1.0
				31	100	8.0	0.5

(Continued)

(Sheet 9 of 22)

Table E1. (Continued)

<u>SEPTEMBER 1982</u>				<u>OCTOBER 1982</u>			
<u>DAY</u>	<u>TIME</u>	<u>PERIOD (S)</u>	<u>HEIGHT (M)</u>	<u>DAY</u>	<u>TIME</u>	<u>PERIOD (S)</u>	<u>HEIGHT (M)</u>
1	100	8.0	0.4	1	100	7.0	1.6
2	100	6.0	0.5	2	100	10.0	0.9
3	100	7.0	0.6	3	100	7.0	1.4
4	100	9.0	0.8	4	100	9.0	0.9
5	100	6.0	1.4	5	100	11.0	0.9
6	700	6.0	1.3	6	100	14.0	0.9
7	100	6.0	0.9	7	100	11.0	0.8
8	100	4.0	0.9	8	100	8.0	0.6
9	100	10.0	1.4	9	100	9.0	0.5
10	100	11.0	1.4	10	100	6.0	1.8
11	100	10.0	0.7	10	800	8.0	2.1
12	100	8.0	0.6	10	1415	12.0	2.6
13	100	6.0	0.7	10	2000	14.0	2.4
14	100	6.0	0.8	11	200	14.0	2.4
15	100	6.0	0.7	11	800	14.0	2.4
16	100	10.0	1.1	11	1403	14.0	2.6
17	100	11.0	1.1	11	2000	14.0	2.4
18	100	10.0	1.2	12	200	14.0	2.4
19	100	11.0	0.7	12	700	17.0	2.5
20	710	6.0	0.8	12	1500	17.0	2.6
21	100	8.0	0.5	12	2000	12.0	2.5
22	100	6.0	1.2	13	200	14.0	2.5
23	100	8.0	0.8	13	800	17.0	2.1
24	100	11.0	0.5	13	1900	12.0	2.0
25	100	9.0	0.9	14	822	14.0	1.5
26	100	5.0	1.4	15	100	12.0	1.1
27	100	8.0	1.3	16	100	11.0	0.4
28	100	8.0	0.8	17	100	6.0	1.1
29	100	9.0	0.6	18	100	14.0	1.0
30	100	6.0	1.2	19	100	14.0	0.7
				20	100	6.0	0.8
				21	100	7.0	0.9
				22	100	10.0	1.5
				23	100	5.0	1.4
				23	2000	6.0	2.1
				24	200	7.0	2.6
				24	800	8.0	3.1
				24	1400	10.0	3.5
				24	2000	12.0	3.4
				25	200	14.0	3.5
				25	800	14.0	3.3
				25	1400	12.0	3.0
				26	200	12.0	1.4
				27	100	10.0	1.8
				28	100	12.0	1.7
				29	100	12.0	1.3

(Continued)

(Sheet 10 of 22)

Table El. (Continued)

				30	100	11.0	0.9
				31	100	10.0	0.7
<u>NOVEMBER 1982</u>				<u>DECEMBER 1982</u>			
<u>DAY</u>	<u>TIME</u>	<u>PERIOD (S)</u>	<u>HEIGHT (M)</u>	<u>DAY</u>	<u>TIME</u>	<u>PERIOD (S)</u>	<u>HEIGHT (M)</u>
1	100	17.0	0.5	1	800	10.0	0.5
2	100	17.0	0.5	2	100	5.0	0.6
3	100	6.0	0.5	3	100	9.0	0.5
4	100	7.0	0.6	4	1300	10.0	0.5
5	100	6.0	0.9	5	100	10.0	0.5
6	100	8.0	0.8	6	100	12.0	0.7
7	100	7.0	0.7	7	100	11.0	0.6
8	100	9.0	0.7	8	100	6.0	1.2
9	700	11.0	0.5	9	100	6.0	1.0
10	100	5.0	0.9	9	2100	6.0	2.0
11	100	7.0	1.1	10	100	7.0	1.5
12	100	8.0	0.7	11	107	10.0	0.8
13	100	7.0	1.0	12	107	6.0	1.7
14	100	6.0	1.4	12	700	7.0	2.9
15	100	10.0	0.9	12	1400	11.0	2.4
16	100	6.0	1.4	12	2000	11.0	3.5
17	100	11.0	0.8	13	800	11.0	2.3
18	100	9.0	0.9	13	1400	12.0	2.2
19	100	7.0	1.3	14	1300	12.0	1.2
19	2000	8.0	2.1	15	100	12.0	0.9
20	200	8.0	2.3	16	100	7.0	1.0
20	800	10.0	2.1	17	100	6.0	2.0
20	1300	11.0	2.0	17	817	7.0	2.0
20	2000	12.0	2.3	18	100	6.0	1.8
21	200	12.0	2.3	18	800	7.0	2.2
21	800	12.0	2.2	18	1400	8.0	2.3
21	1400	12.0	2.0	18	2000	11.0	2.0
22	200	12.0	2.0	19	100	11.0	1.8
22	800	14.0	2.1	19	800	14.0	2.2
22	1500	14.0	2.0	19	1400	12.0	2.2
22	2000	14.0	2.0	19	2000	14.0	2.1
23	200	14.0	2.4	20	100	14.0	1.9
23	800	11.0	2.0	21	100	12.0	0.9
23	1400	14.0	2.6	22	700	17.0	0.9
23	2000	14.0	2.5	23	100	16.8	0.6
24	200	12.0	1.9	24	100	15.8	0.5
24	2000	7.0	2.3	25	100	14.0	0.6
25	100	6.0	2.0	26	100	15.3	0.5
26	100	6.0	0.8	27	100	7.8	0.6
27	100	10.0	0.4	28	100	5.7	0.8
28	100	7.0	1.2	29	100	6.3	0.8
29	100	6.0	1.2	30	100	4.9	1.3

(Continued)

(Sheet 11 of 22)

Table E1. (Continued)

30	100	7.0	0.4	31	100	5.5	1.9
<u>JANUARY 1983</u>				<u>FEBRUARY 1983</u>			
<u>DAY</u>	<u>TIME</u>	<u>PERIOD (S)</u>	<u>HEIGHT (M)</u>	<u>DAY</u>	<u>TIME</u>	<u>PERIOD (S)</u>	<u>HEIGHT (M)</u>
1	100	11.0	1.3	1	100	11.0	1.1
2	100	10.0	0.7	2	100	5.0	0.9
3	100	5.0	1.3	3	100	9.0	1.2
4	100	6.0	1.5	4	100	9.0	0.7
4	700	6.0	2.0	5	100	5.0	1.0
4	1900	7.0	2.0	6	100	8.0	1.0
5	100	9.0	1.9	7	100	9.0	1.6
6	100	7.0	1.2	8	100	11.0	1.0
7	100	9.0	0.7	9	100	12.0	0.8
8	100	9.0	0.4	10	100	6.0	0.7
9	100	4.0	1.0	11	100	6.0	2.2
10	100	7.0	1.9	11	700	8.0	2.8
10	700	10.0	2.6	11	1300	10.0	3.2
10	1300	10.0	2.4	11	1900	11.0	2.6
10	1900	10.0	2.2	12	100	12.0	2.4
11	100	10.0	2.1	12	700	12.0	2.6
12	100	10.0	1.0	13	100	12.0	1.5
12	1300	7.0	2.2	14	100	6.0	1.6
13	100	11.0	1.5	14	700	8.0	2.3
14	100	11.0	0.8	14	1300	10.0	3.0
15	100	14.0	0.9	14	1900	12.0	3.8
16	100	11.0	0.6	15	100	12.0	3.0
17	100	12.0	0.5	15	700	11.0	2.6
18	100	12.0	0.4	15	1300	12.0	2.0
19	1300	6.0	1.3	15	1900	12.0	2.0
20	100	8.0	1.5	16	100	11.0	1.6
21	100	6.0	1.4	17	100	12.0	0.9
21	1900	7.0	2.1	18	100	8.0	2.7
22	100	7.0	2.0	18	700	10.0	2.7
22	700	7.0	2.1	18	1300	11.0	2.4
23	100	9.0	1.6	18	1900	11.0	2.0
24	100	10.0	1.2	19	100	11.0	1.8
25	100	9.0	0.5	20	100	11.0	1.9
26	100	9.0	0.5	20	700	15.0	2.4
27	100	8.0	0.7	20	1300	15.0	2.7
27	1900	8.0	2.5	20	1900	16.0	2.7
28	100	9.0	2.4	21	100	15.0	2.8
28	700	11.0	3.5	21	700	13.0	2.9
28	1300	9.0	3.2	21	1300	15.0	2.5
28	1900	14.0	2.9	21	1900	14.0	2.7
29	100	12.0	2.8	22	100	14.0	2.2
29	700	12.0	2.8	22	700	13.0	2.0
29	1300	12.0	2.2	23	100	13.0	1.5

(Continued)

(Sheet 12 of 22)

Table El. (Continued)

29	1900	12.0	2.0	24	100	13.0	1.2
30	100	12.0	1.6	25	100	12.0	1.0
31	100	11.0	0.9	26	100	10.0	1.9
				26	700	11.0	2.7
				26	1300	12.0	2.8
				26	1900	11.0	2.3
				27	100	12.0	2.2
				27	700	14.0	2.2
				27	1300	12.0	2.0
				28	100	12.0	1.2

MARCH 1983APRIL 1983

<u>DAY</u>	<u>TIME</u>	<u>PERIOD (S)</u>	<u>HEIGHT (M)</u>	<u>DAY</u>	<u>TIME</u>	<u>PERIOD (S)</u>	<u>HEIGHT (M)</u>
1	100	8.0	1.8	1	100	7.0	2.6
1	700	11.0	2.8	1	700	11.0	2.2
1	1300	12.0	2.1	1	1300	11.0	2.0
1	1900	10.0	2.1	1	1900	10.0	2.0
2	100	11.0	1.5	2	100	12.0	1.8
3	100	11.0	0.9	3	100	8.0	1.8
4	100	10.0	0.6	4	100	11.0	0.9
5	100	12.0	0.4	5	100	9.0	0.5
6	100	10.0	0.6	6	100	9.0	0.4
7	100	7.0	1.0	7	100	14.0	0.3
8	100	8.0	0.6	8	100	9.0	0.3
9	100	9.0	1.2	9	100	8.0	0.6
10	100	10.0	1.2	10	100	11.0	1.3
11	100	9.0	1.0	11	100	13.0	1.1
12	100	10.0	1.6	12	100	10.0	0.7
12	1300	11.0	2.0	13	100	10.0	0.6
13	700	8.0	1.0	14	100	10.0	0.7
14	100	6.0	0.6	15	100	9.0	1.0
15	100	14.0	0.5	16	100	7.0	1.2
16	100	10.0	0.4	17	100	12.0	1.3
17	100	5.0	1.6	18	100	11.0	0.9
17	1300	8.0	2.0	19	100	6.0	1.7
17	1900	7.0	2.4	20	100	10.0	0.5
18	100	10.0	2.8	21	100	4.0	0.4
18	700	10.0	3.3	22	100	9.0	0.4
18	1300	11.0	3.0	23	100	10.0	0.5
18	1900	11.0	2.7	24	100	8.0	2.3
19	100	11.0	2.7	25	100	12.0	1.2
19	700	11.0	2.0	26	100	9.0	0.6
20	100	11.0	1.2	27	100	11.0	0.5
21	100	12.0	0.9	28	100	10.0	0.4
22	100	10.0	0.8	29	100	14.0	0.5
23	100	4.0	0.6	30	100	12.0	0.4
24	100	11.0	0.4				

(Continued)

(Sheet 13 of 22)

Table E1. (Continued)

24	1900	6.0	2.2
25	100	8.0	3.2
25	700	11.0	3.3
25	1300	12.0	3.3
25	1900	14.0	3.1
26	100	14.0	2.8
26	700	15.0	2.9
26	1300	13.0	2.8
26	1900	13.0	2.3
27	100	13.0	2.4
27	1900	12.0	2.1
28	100	11.0	1.9
29	100	10.0	0.8
30	100	5.0	0.5
31	100	7.0	0.8
31	1900	6.0	2.4

MAY 1983JUNE 1983

<u>DAY</u>	<u>TIME</u>	<u>PERIOD (S)</u>	<u>HEIGHT (M)</u>	<u>DAY</u>	<u>TIME</u>	<u>PERIOD (S)</u>	<u>HEIGHT (M)</u>
1	100	11.0	0.5	1	100	9.0	0.6
2	100	8.0	0.6	2	100	5.0	0.7
3	100	9.0	0.8	3	100	10.0	0.5
4	100	9.0	0.7	4	100	14.0	0.5
5	100	8.0	0.5	5	100	12.0	0.4
6	100	9.0	0.4	6	100	9.0	0.4
7	100	8.0	0.6	7	100	6.0	0.4
8	100	8.0	0.5	8	100	7.0	0.4
9	700	6.0	1.3	9	100	6.0	0.6
10	100	6.0	0.6	9	1900	7.0	2.0
11	100	9.0	0.6	10	100	7.0	1.8
12	100	10.0	0.8	11	100	8.0	1.1
13	100	5.0	0.9	12	100	9.0	0.9
14	100	8.0	0.5	13	100	9.0	0.6
15	100	10.0	0.5	14	100	8.0	0.4
16	100	12.0	0.4	15	100	9.0	0.5
17	100	7.0	1.8	16	100	6.0	0.5
18	100	9.0	1.0	17	100	9.0	0.6
19	100	9.0	1.0	18	100	8.0	0.8
20	100	8.0	0.9	19	100	9.0	0.9
21	100	8.0	0.8	20	100	9.0	0.8
22	100	9.0	0.6	21	100	9.0	0.6
23	100	9.0	0.5	22	100	4.0	0.9
24	100	7.0	0.5	23	100	6.0	1.1
25	100	8.0	0.5	24	100	9.0	0.8
26	100	17.0	0.6	25	100	9.0	0.5
27	100	8.0	0.6	26	100	11.0	0.3
28	100	14.0	0.6	27	100	11.0	0.3
29	100	11.0	0.8	28	100	11.0	0.3

(Continued)

(Sheet 14 of 22)

Table E1. (Continued)

30	100	10.0	0.8	29	100	4.0	0.4
31	100	9.0	0.7	30	100	7.0	1.4

JULY 1983

<u>DAY</u>	<u>TIME</u>	<u>PERIOD (S)</u>	<u>HEIGHT (M)</u>
1	100	6.0	0.8
2	100	7.0	0.6
3	100	9.0	0.5
4	100	10.0	0.6
5	100	8.0	0.5
6	100	17.0	0.3
7	100	3.0	0.6
8	100	8.0	0.7
9	100	7.0	0.6
10	100	8.0	0.5
11	100	6.0	0.6
12	100	7.0	0.4
13	100	10.0	0.4
14	100	12.0	0.4
15	100	10.0	0.3
16	100	10.0	0.3
17	100	10.0	0.2
18	100	10.0	0.4
19	100	10.0	0.3
20	100	10.0	0.3
21	100	10.0	0.3
22	100	7.0	0.5
23	100	8.0	0.7
24	100	8.0	0.5
25	100	10.0	0.4
26	700	14.0	0.7
27	100	14.0	0.6
28	100	14.0	0.6
29	100	8.0	0.6
30	100	7.0	0.7
31	100	10.0	0.4

AUGUST 1983

<u>DAY</u>	<u>TIME</u>	<u>PERIOD (S)</u>	<u>HEIGHT (M)</u>
1	100	12.0	0.3
2	100	7.0	0.4
3	100	8.0	0.4
4	100	17.0	0.3
5	100	10.0	0.9
6	100	9.0	0.6
7	100	7.0	0.6
8	100	10.0	0.4
9	100	14.0	0.4
10	100	14.0	0.3
11	100	14.0	0.5
12	100	7.0	0.4
13	100	5.0	1.0
14	100	7.0	1.5
15	100	8.0	1.0
16	100	9.0	0.7
17	100	8.0	0.8
18	100	8.0	0.5
19	100	9.0	0.4
20	100	10.0	0.4
21	100	10.0	0.3
22	100	5.0	0.5
23	100	6.0	0.3
24	100	4.0	0.6
25	100	7.0	1.1
26	100	7.0	0.2
27	100	7.0	0.7
28	100	9.0	0.6
29	100	8.0	0.5
30	100	7.0	0.5
31	100	6.0	0.7

SEPTEMBER 1983

<u>DAY</u>	<u>TIME</u>	<u>PERIOD (S)</u>	<u>HEIGHT (M)</u>
1	100	4.0	0.9
2	100	8.0	0.7
3	100	5.0	1.1
4	100	12.0	0.5
5	100	10.0	0.6
6	100	14.0	0.4

OCTOBER 1983

<u>DAY</u>	<u>TIME</u>	<u>PERIOD (S)</u>	<u>HEIGHT (M)</u>
1	100	11.0	0.9
2	100	10.0	0.6
3	100	10.0	0.5
4	100	14.0	0.6
5	100	14.0	0.5
6	100	14.0	0.5

(Continued)

(Sheet 15 of 22)

Table E1. (Continued)

7	100	14.0	0.4	7	100	14.0	0.5
8	100	11.0	0.3	8	100	12.0	0.9
9	100	6.0	0.7	9	100	6.0	0.7
10	100	10.0	0.4	10	100	6.0	1.1
11	100	8.0	0.3	10	1900	7.0	2.0
12	100	14.0	0.2	11	100	9.0	2.0
13	100	14.0	0.3	11	700	9.0	2.1
14	100	4.0	0.5	11	1300	10.0	2.0
15	100	8.0	2.6	12	100	10.0	1.9
15	700	8.0	2.2	12	700	11.0	2.0
15	1300	7.0	2.2	13	100	11.0	1.2
15	1900	9.0	2.0	14	100	11.0	1.1
16	100	11.0	1.7	15	100	11.0	0.7
17	100	7.0	1.1	16	100	9.0	0.6
18	100	10.0	0.7	17	100	11.0	0.8
19	100	11.0	0.6	18	100	10.0	0.6
20	100	10.0	0.4	19	100	9.0	0.5
21	100	9.0	0.5	20	100	5.0	1.2
22	100	4.0	0.9	20	1300	6.0	2.0
23	100	6.0	0.8	20	1900	8.0	2.2
24	100	10.0	0.5	21	100	9.0	2.1
25	100	4.0	0.6	21	700	7.0	2.5
26	100	8.0	0.8	21	1300	10.0	2.5
27	100	9.0	1.5	21	1900	8.0	2.3
28	100	10.0	1.1	22	100	8.0	2.1
28	700	10.0	2.1	22	700	10.0	2.1
28	1900	9.0	2.4	23	100	12.0	1.6
29	100	11.0	2.6	24	100	12.0	1.4
29	700	11.0	2.5	25	100	14.0	1.1
29	1300	11.0	3.0	25	1300	6.0	2.0
29	1900	12.0	2.8	25	1900	7.0	2.1
30	100	9.0	2.5	26	100	10.0	1.8
				27	100	12.0	1.2
				28	100	6.0	0.9
				29	100	11.0	0.2
				30	100	6.0	1.5
				31	100	7.0	0.9

NOVEMBER 1983

DECEMBER 1983

<u>DAY</u>	<u>TIME</u>	<u>PERIOD (S)</u>	<u>HEIGHT (M)</u>	<u>DAY</u>	<u>TIME</u>	<u>PERIOD (S)</u>	<u>HEIGHT (M)</u>
1	100	8.0	0.7	1	100	7.0	0.3
2	100	7.0	0.9	2	100	14.0	0.5
3	100	7.0	0.9	3	100	3.0	0.4
4	100	11.0	0.9	4	100	6.0	1.4
5	100	12.0	1.1	5	100	8.0	0.5
6	100	14.0	0.9	6	100	8.0	0.9
7	100	12.0	0.6	7	100	12.0	0.7

(Continued)

(Sheet 16 of 22)

Table E1. (Continued)

8	100	12.0	0.5	8	100	5.0	0.5
9	100	14.0	0.6	9	100	14.0	0.4
10	100	9.0	1.2	10	100	12.0	0.3
11	100	9.0	0.9	11	100	11.0	0.5
12	100	9.0	0.4	12	100	7.0	1.8
13	100	6.0	1.0	12	700	11.0	2.1
14	100	6.0	0.6	12	1300	9.0	2.9
15	100	5.0	0.4	12	1900	10.0	2.3
16	100	11.0	1.1	13	100	11.0	2.0
17	100	9.0	0.3	13	700	9.0	2.0
18	100	4.0	0.5	14	700	11.0	1.0
19	100	12.0	0.3	15	100	9.0	0.7
20	100	11.0	0.2	16	700	10.0	0.5
21	100	8.0	0.8	17	100	10.0	0.5
22	100	9.0	0.5	18	100	17.0	0.9
23	100	12.0	0.3	19	100	6.0	1.7
24	100	12.0	0.3	19	700	6.0	2.0
25	100	7.0	0.7	19	1300	7.0	2.6
26	100	10.0	0.4	20	100	9.0	2.0
27	100	10.0	0.2	21	100	7.0	1.7
28	100	12.0	0.3	21	1300	6.0	2.2
29	100	5.0	0.6	22	100	7.0	1.8
30	100	7.0	0.3	22	1300	10.0	2.1
				23	100	10.0	1.0
				24	100	5.0	1.2
				25	100	7.0	1.6
				26	100	5.0	0.8
				27	100	9.0	0.3
				28	100	14.0	0.1
				29	100	9.0	0.5
				30	100	8.0	1.4
				31	100	7.0	1.7

JANUARY 1984

<u>DAY</u>	<u>TIME</u>	<u>PERIOD (S)</u>	<u>HEIGHT (M)</u>
1	100	10.0	2.1
1	700	11.0	2.0
1	1300	11.0	2.3
2	100	7.0	1.9
3	100	11.0	1.2
4	100	12.0	1.1
5	100	11.0	0.7
6	100	5.0	0.5
7	100	9.0	0.4
8	100	5.0	0.9
9	100	10.0	0.3

FEBRUARY 1984

<u>DAY</u>	<u>TIME</u>	<u>PERIOD (S)</u>	<u>HEIGHT (M)</u>
1	100	6.0	0.9
2	100	11.0	0.6
3	100	11.0	0.5
4	100	7.0	1.0
5	100	8.0	0.8
6	100	9.0	0.6
7	100	6.0	1.1
8	100	6.0	1.0
9	100	8.0	0.6
10	100	10.0	0.3
11	100	10.0	0.4

(Continued)

(Sheet 17 of 22)

Table E1. (Continued)

10	100	5.0	0.6	12	100	11.0	0.5
11	100	8.0	1.5	13	100	6.0	0.4
11	700	7.0	2.3	14	100	8.0	1.4
11	1300	9.0	2.5	14	1300	10.0	2.0
11	1900	10.0	2.7	14	1900	11.0	2.0
12	100	7.0	2.6	15	100	10.0	2.5
12	700	9.0	2.7	16	100	10.0	1.4
12	1300	9.0	2.4	17	100	9.0	0.8
12	1900	6.0	2.6	18	100	10.0	0.9
13	100	11.0	2.1	19	100	10.0	0.7
13	700	9.0	2.1	20	100	8.0	0.5
13	1900	12.0	2.1	21	100	10.0	0.5
14	100	12.0	2.1	22	100	11.0	0.7
14	700	11.0	2.0	23	700	3.0	0.8
15	100	12.0	2.0	23	1300	7.0	2.0
16	100	10.0	1.4	24	100	11.0	0.9
17	100	11.0	0.9	25	100	11.0	0.4
18	100	9.0	0.8	26	100	7.0	0.5
19	100	9.0	1.5	27	100	5.0	0.6
20	100	7.0	1.1	28	100	9.0	2.3
21	100	10.0	0.7	29	100	10.0	0.6
22	100	6.0	1.1				
23	100	4.0	0.8				
24	100	10.0	0.7				
25	100	9.0	1.1				
26	100	11.0	0.6				
27	100	11.0	0.6				
28	100	10.0	0.8				
29	100	6.0	1.2				
30	100	9.0	0.6				
31	100	9.0	0.4				

MARCH 1984APRIL 1984

<u>DAY</u>	<u>TIME</u>	<u>PERIOD (S)</u>	<u>HEIGHT (M)</u>	<u>DAY</u>	<u>TIME</u>	<u>PERIOD (S)</u>	<u>HEIGHT (M)</u>
1	100	4.0	0.7	1	100	11.0	1.2
2	100	12.0	0.3	2	100	12.0	0.8
3	100	10.0	0.2	3	100	11.0	0.6
4	100	6.0	0.6	4	100	10.0	0.9
5	100	14.0	0.7	5	100	11.0	1.5
6	100	7.0	0.7	5	1300	12.0	2.0
7	100	6.0	1.4	6	100	12.0	1.0
8	100	12.0	0.8	7	100	9.0	0.7
9	100	7.0	0.5	8	100	11.0	0.7
10	100	10.0	1.2	9	100	11.0	0.7
12	1300	6.0	1.4	10	100	6.0	1.4
13	700	7.0	1.4	11	100	9.0	1.1
13	1900	10.0	2.0	12	100	7.0	1.0

(Continued)

(Sheet 18 of 22)

Table E1. (Continued)

14	100	10.0	1.6	13	100	11.0	0.8
15	100	10.0	0.8	14	100	9.0	0.8
16	100	12.0	0.8	15	100	8.0	0.8
17	100	12.0	1.1	16	100	12.0	1.2
18	100	7.0	1.8	17	100	9.0	0.8
19	100	12.0	1.5	18	100	11.0	0.5
20	100	14.0	1.1	19	100	11.0	0.5
21	100	10.0	1.0	20	100	9.0	0.4
22	100	11.0	0.7	21	100	10.0	0.4
23	100	11.0	0.5	22	100	10.0	0.3
24	100	11.0	0.3	23	100	11.0	1.2
25	100	6.0	0.5	24	100	12.0	1.0
26	100	7.0	0.6	25	100	11.0	0.5
27	100	10.0	1.4	26	100	12.0	0.3
28	100	9.0	0.8	27	100	11.0	0.4
29	100	10.0	1.2	28	100	10.0	1.0
30	100	8.0	1.4	29	100	11.0	1.3
31	100	12.0	1.1	30	100	11.0	1.2

MAY 1984

JUNE 1984

DAY	TIME	PERIOD (S)	HEIGHT (M)	DAY	TIME	PERIOD (S)	HEIGHT (M)
1	700	11.0	0.7	1	100	10.0	1.0
2	700	10.0	0.5	2	100	6.0	0.7
3	100	9.0	0.4	3	100	7.0	0.6
4	100	7.0	0.8	4	100	11.0	0.5
5	100	11.0	0.8	5	100	11.0	0.6
6	100	8.0	0.4	6	100	10.0	0.5
7	100	7.0	0.4	7	100	10.0	0.4
8	100	7.0	0.5	8	100	10.0	0.3
9	100	4.0	0.7	9	700	9.0	0.3
10	100	7.0	0.4	10	100	9.0	0.3
11	100	6.0	0.4	11	100	7.0	0.3
12	100	8.0	0.3	12	100	8.0	0.3
13	100	9.0	0.4	13	100	10.0	0.4
14	100	8.0	0.4	14	100	10.0	0.3
15	100	6.0	1.5	15	100	9.0	0.3
16	100	3.0	0.7	16	100	6.0	0.6
17	100	6.0	0.6	17	100	5.0	0.8
18	100	8.0	1.1	18	100	7.0	0.4
19	100	12.0	1.9	19	100	9.0	0.4
20	1300	11.0	0.4	20	100	9.0	0.6
21	100	9.0	0.3	21	100	9.0	0.5
22	100	10.0	0.3	22	100	7.0	0.7
23	700	10.0	0.4	23	100	5.0	0.9

(Continued)

(Sheet 19 of 22)

Table E1. (Continued)

24	100	5.0	0.7	24	100	4.0	0.8
25	100	7.0	0.6	25	100	7.0	0.9
26	100	6.0	0.6	26	100	10.0	0.8
27	100	7.0	0.6	27	100	9.0	0.7
28	100	9.0	0.5	28	100	9.0	0.7
29	100	6.0	0.7	29	100	11.0	0.5
30	100	8.0	1.0	30	100	7.0	0.6
31	100	6.0	1.8				
31	700	6.0	2.1				

JULY 1984AUGUST 1984

<u>DAY</u>	<u>TIME</u>	<u>PERIOD (S)</u>	<u>HEIGHT (M)</u>	<u>DAY</u>	<u>TIME</u>	<u>PERIOD (S)</u>	<u>HEIGHT (M)</u>
1	100	9.0	0.6	1	100	8.0	0.5
2	100	8.0	0.5	2	100	10.0	0.5
3	100	9.0	0.5	3	100	10.0	0.3
4	100	8.0	0.4	4	100	8.0	0.3
5	100	9.0	0.5	5	100	14.0	0.3
6	100	6.0	0.6	6	100	9.0	0.3
7	100	7.0	0.9	7	100	9.0	0.3
8	100	8.0	0.7	8	100	9.0	0.3
9	100	8.0	0.8	9	100	9.0	0.3
10	100	7.0	0.6	10	100	7.0	0.3
11	100	10.0	0.4	11	100	5.0	0.4
12	100	9.0	0.4	12	100	8.0	0.4
13	100	9.0	0.3	13	100	8.0	0.5
14	100	12.0	0.3	14	1300	5.0	0.5
15	100	7.0	0.3	15	100	7.0	0.4
16	100	9.0	0.4	16	100	7.0	0.5
17	100	10.0	0.4	17	100	8.0	0.4
18	100	9.0	0.5	18	100	10.0	0.4
19	100	8.0	0.5	19	100	9.0	0.5
20	100	17.0	0.5	20	100	10.0	0.3
21	100	17.0	0.5	21	100	6.0	1.0
22	100	14.0	0.6	22	100	6.0	0.6
23	100	7.0	0.7	23	100	5.0	0.6
24	100	12.0	0.5	24	100	6.0	0.4
25	100	14.0	0.3	25	100	6.0	0.6
26	100	14.0	0.3	26	100	6.0	1.3
27	100	14.0	0.4	27	100	8.0	1.0
28	100	9.0	0.4	28	100	10.0	0.6
29	100	4.0	0.8	29	700	8.0	0.5
30	100	5.0	0.8	30	100	9.0	0.4
31	100	6.0	0.6	31	700	10.0	0.3

(Continued)

(Sheet 20 of 22)

Table E1. (Continued)

<u>SEPTEMBER 1984</u>				<u>OCTOBER 1984</u>			
<u>DAY</u>	<u>TIME</u>	<u>PERIOD (S)</u>	<u>HEIGHT (M)</u>	<u>DAY</u>	<u>TIME</u>	<u>PERIOD (S)</u>	<u>HEIGHT (M)</u>
1	100	8.0	0.3	1	100	10.0	1.7
2	100	17.0	0.4	2	100	10.0	1.3
3	700	17.0	0.3	3	100	9.0	0.9
4	100	14.0	0.4	4	100	11.0	0.4
5	100	5.0	0.8	5	100	11.0	0.4
6	100	6.0	0.9	6	100	10.0	0.5
7	100	6.0	1.2	7	100	6.0	1.5
8	100	9.0	1.0	8	100	5.0	0.9
9	100	6.0	1.4	9	100	9.0	0.7
10	100	7.0	1.2	10	100	10.0	0.9
11	100	8.0	1.1	11	100	12.0	1.6
12	100	7.0	0.8	11	1300	9.0	2.0
13	100	5.0	1.0	11	1900	9.0	2.2
14	100	6.0	0.8	12	100	10.0	2.3
15	100	7.0	1.3	12	700	9.0	2.3
16	100	6.0	1.6	12	1300	11.0	2.5
17	100	7.0	1.9	12	1900	12.0	2.7
18	100	8.0	1.7	13	100	12.0	2.9
19	100	10.0	1.3	13	700	12.0	3.2
20	700	9.0	1.0	13	1300	12.0	3.3
21	100	11.0	0.8	13	1900	14.0	3.3
22	100	9.0	0.7	14	100	14.0	3.2
23	100	9.0	0.8	14	700	14.0	3.0
24	100	12.0	0.6	14	1300	12.0	2.8
25	100	11.0	0.6	14	1900	12.0	2.5
26	100	10.0	0.5	15	100	12.0	2.7
27	100	6.0	1.9	15	700	12.0	2.1
27	700	7.0	2.0	15	1300	12.0	2.1
28	100	9.0	1.4	16	100	12.0	1.6
29	100	10.0	1.3	17	100	12.0	1.6
29	1900	7.0	2.5	17	1900	14.0	2.0
30	100	9.0	2.7	18	100	17.0	1.5
30	700	10.0	2.5	18	1300	14.0	2.1
30	1300	11.0	2.5	19	100	17.0	1.7
30	1900	10.0	2.2	20	100	14.0	1.1
				21	100	11.0	0.8
				22	100	10.0	0.4
				23	100	11.0	0.4
				24	100	9.0	0.4
				25	100	7.0	0.5
				26	100	11.0	0.9
				27	100	11.0	0.8
				28	100	10.0	0.6
				29	100	10.0	0.5
				30	100	10.0	0.6
				31	100	9.0	0.9

(Continued)

(Sheet 21 of 22)

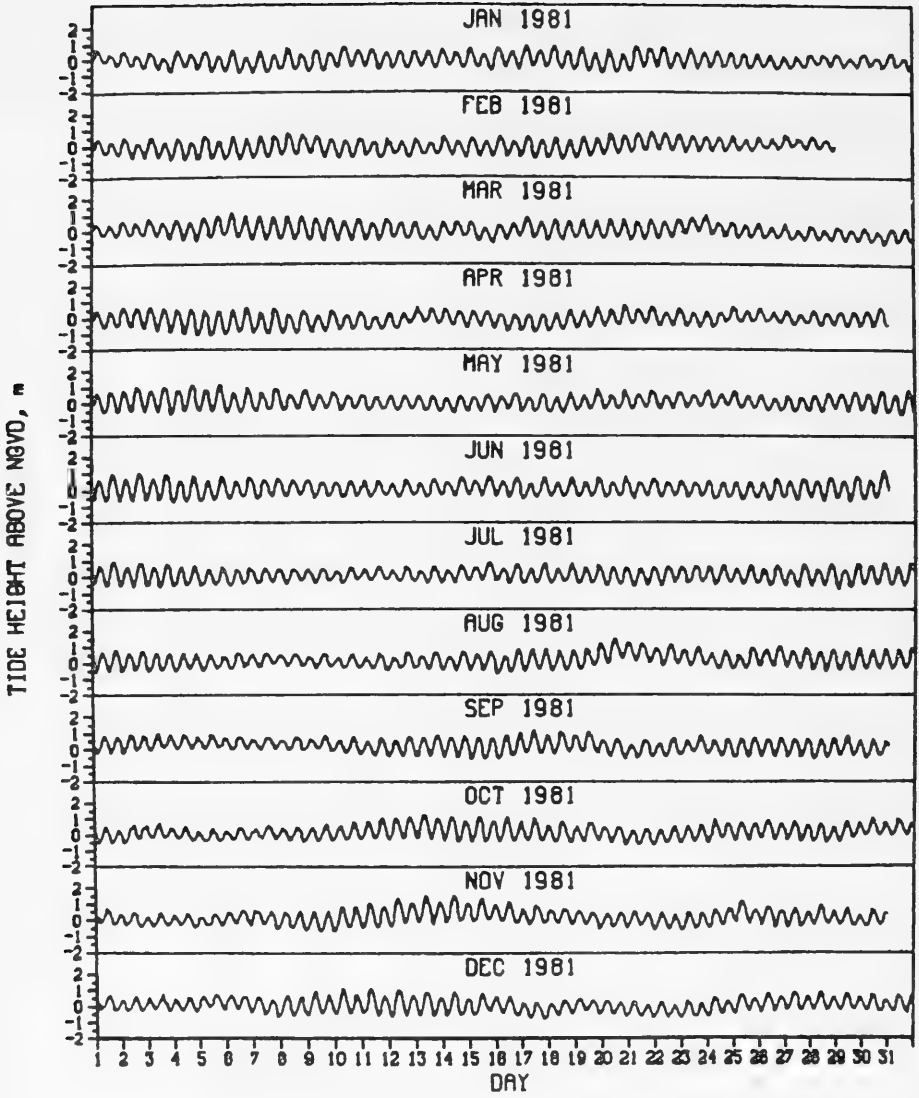
Table E1. (Concluded)

<u>NOVEMBER 1984</u>				<u>DECEMBER 1984</u>			
<u>DAY</u>	<u>TIME</u>	<u>PERIOD (S)</u>	<u>HEIGHT (M)</u>	<u>DAY</u>	<u>TIME</u>	<u>PERIOD (S)</u>	<u>HEIGHT (M)</u>
1	100	4.0	1.3	1	100	11.0	0.5
2	100	7.0	1.1	2	100	10.0	0.3
3	100	6.0	2.2	3	100	5.0	0.8
3	700	7.0	2.1	4	100	7.0	0.4
3	1300	7.0	2.1	5	1300	6.0	1.5
4	100	8.0	1.8	6	100	9.0	2.2
5	100	10.0	1.5	7	100	6.0	1.0
6	700	10.0	1.0	8	100	5.0	0.6
7	100	6.0	1.5	9	100	6.0	0.3
8	100	6.0	1.2	10	100	10.0	0.3
9	100	10.0	1.4	11	100	9.0	0.5
10	100	10.0	0.9	12	100	5.0	0.8
11	100	10.0	1.0	13	100	9.0	0.5
12	1300	12.0	1.2	14	100	10.9	0.7
13	100	12.0	0.9	15	100	12.3	1.2
14	100	14.0	1.5	16	100	9.7	1.0
15	100	7.0	0.8	17	100	9.8	0.9
16	100	11.0	0.4	18	100	10.9	0.9
17	100	5.0	1.1	19	100	9.8	0.6
18	100	5.0	0.5	20	100	12.3	0.9
19	100	5.0	0.4	21	100	12.3	0.8
20	100	6.0	1.7	22	100	10.9	0.7
20	700	6.0	2.1	23	100	9.8	0.4
21	100	7.0	1.8	24	100	4.5	0.8
22	100	4.0	1.2	25	100	9.8	0.6
23	100	6.0	1.5	26	100	6.9	1.6
24	100	4.0	1.2	27	100	8.8	0.9
25	100	6.0	0.8	28	100	8.8	0.5
26	100	8.0	0.6	29	100	10.9	0.4
27	100	8.0	0.6	30	100	9.8	0.4
28	100	9.0	0.6	31	100	6.4	1.1
29	100	8.0	0.8				
30	100	11.0	0.7				

(Sheet 22 of 22)

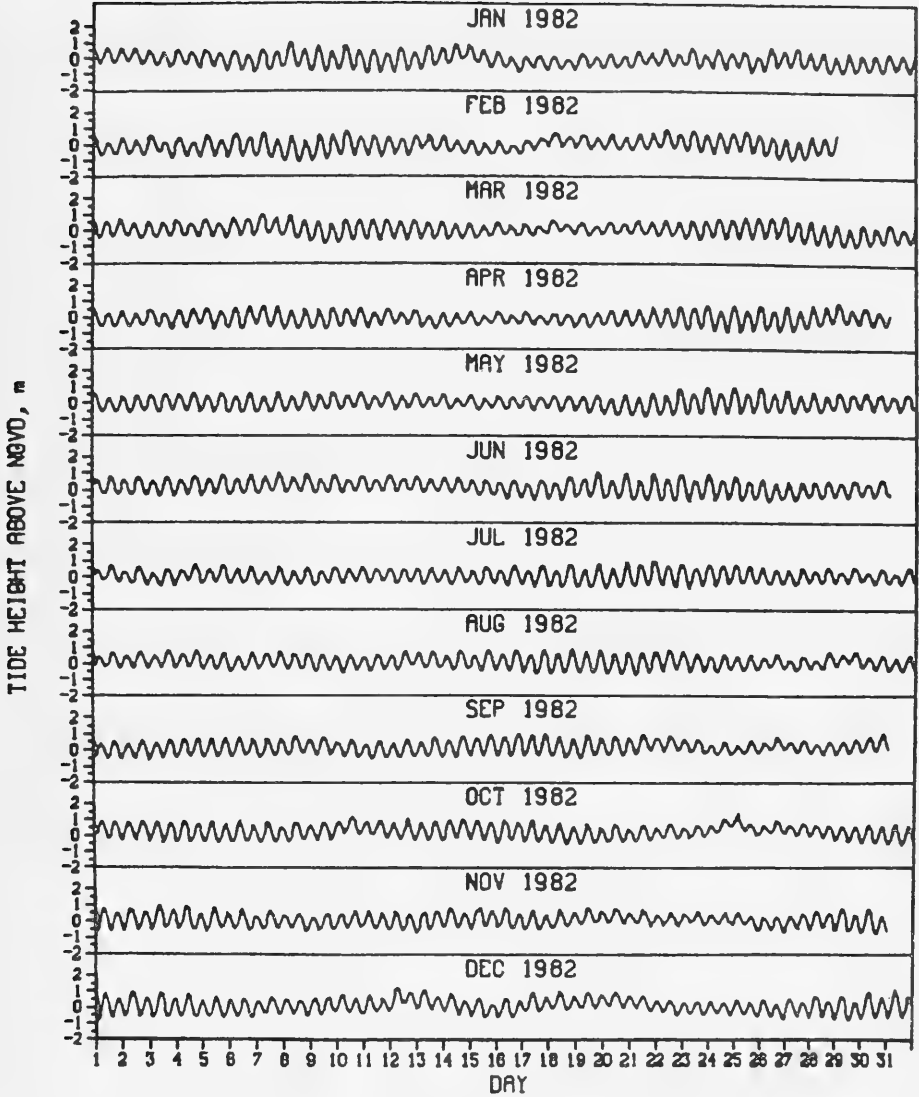
APPENDIX F: TIDE LEVELS AT PIER END, 1981-1984

This appendix contains plots of the observed tide levels at the end of the FRF pier. The data are collected by the National Oceanic and Atmospheric Administration/National Ocean Service (NOS) as part of their nationwide tide gaging program. Missing data have been interpolated by NOS. The tide gage, being located near the end of the pier, is occasionally within the surf zone. Thus, the tide data are influenced by setup, setdown, and storm surges, depending on the conditions at the time of the measurement.



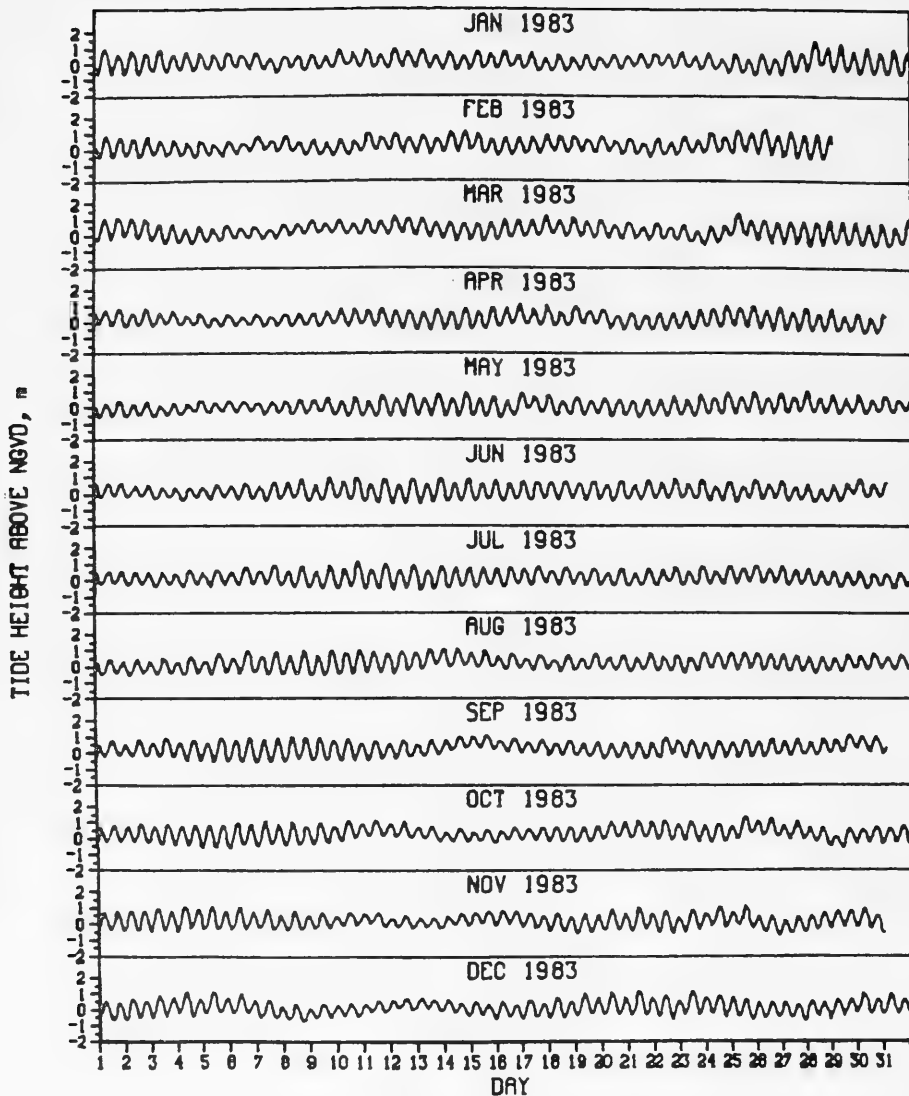
OBSERVED TIDE HEIGHTS AT FRF PIER END

Figure F1. Tide level record, 1981



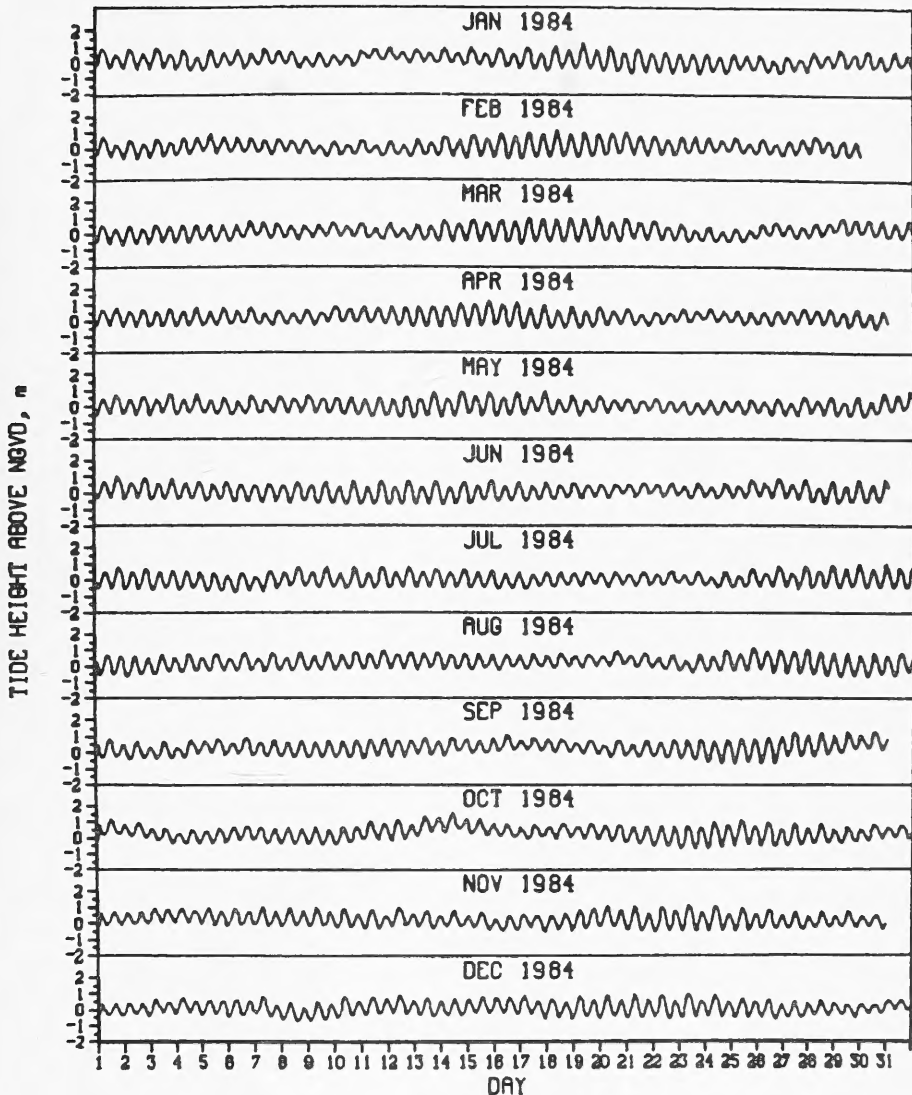
OBSERVED TIDE HEIGHTS AT FRF PIER END

Figure F2. Tide level record, 1982



OBSERVED TIDE HEIGHTS AT FRF PIER END

Figure F3. Tide level record, 1983



OBSERVED TIDE HEIGHTS AT FRF PIER END

Figure F4. Tide level record, 1984

