AN INVESTIGATION OF THE EFFECTS OF TEMPERATURE AND SUSPENDED SEDIMENT ON THE LANDSAT MSS REFLECTANCE OF JOHN H. KERR RESERVOIR

by

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(ABSTRACT)

The report herein consisted of two objectives, the first of which was a data collection effort in John H. Kerr Reservoir. Ten field monitoring trips were performed between March 30, 1981 and March 3, 1982. The temperature, velocity, and depth data from those trips are contained in Appendix A. Plots of temperature versus depth at the stations chosen in the reservoir are contained in Appendix B.

The second objective was an application of the database to Landsat MSS data available during the same period of record. The effects of temperature and total suspended solids on Landsat MSS reflectance were investigated.

The effect of increasing temperature was a notable decrease in reflectance especially in Bands 4 and 5. This temperature effect may have been influenced by other water quality parameters that were not measured. The effect of increasing total suspended solids was a pronounced reflectance increase in Band 5.

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CHAPTER 1

INTRODUCTION

The past decade has been conducive to environmental concern. An aspect of this concern was an interest in water quality, from which evolved new methodology for the acquisition of water quality data. An effort was made to develop methods through which large amounts of data could be gathered in a short time with limited manpower. Another influencing factor was the need for repetition over time of the gathering of water quality data, which further enforced the effort to develop improved methodology. Remote sensing was decidedly the way to go to achieve the goal of data acquisition within the time constraints. For a description of NASA's Landsat system, see Chapter 3.

1.1 Multispectral Scanner

The Corps of Engineers has been using remotely sensed data since the 1930's in the form of aerial photography (Engineer Pamphlet 70-1-1, 1979), sensing electromagnetic radiation in the visible and near infrared range. With new technology, the multispectral scanner was developed, which senses and digitizes reflectance of electromagnetic radiation within specified wavelength ranges. The multi-

spectral system is used on board aircraft as the modular multispectral scanner (MMS) and on Landsat as the multispectral scanner (MSS). The MMS splits the 0.407 to 1.060 μ m range down into 10 separate channels and has additionally a thermal (emitted infrared) band detecting from 8 to 14 μ m wavelengths (Table 1.1). The MSS splits the 0.5 to 1.1 μ m range into four channels (Table 1.2).

The multispectral scanner was designed for land applications. When applied to water bodies, it is notable that less than 3 percent of the incident light is reflected, to be detected by the MSS sensors (Blackwell and Boland, 1979; Boland, 1979). For this reason, water can be distinguished from land (usually best for Landsat application is MSS band 7), but on the negative side, water has a limited range of expected raw reflectance values. The application of Landsat to observation of water quality parameters has nevertheless proven suitable.

From Tables 1.1 and 1.2, it can be seen that the ranges in wavelengths of the MMS channels are narrower than those of the MSS on board Landsat, and thereby have the advantage of a more precise study of landform, vegetation, or water response to the narrower wavelength bands (Johnson, 1976). Two other advantages of the MMS over MSS use also present themselves. One is that aircraft flown observation offers much better resolution of the subject

area due simply to the lower altitude of flight. The other advantage is that the aircraft flight can be scheduled for a cloudless day; where, with Landsat, only what happens to be available can be considered for use. The primary advantage of use of Landsat over aircraft for remote sensing applications is that the Landsat flight need not be scheduled and the data is readily and relatively inexpensively available from the EROS Data Center in Sioux Falls, South Dakota. For the purposes of this study, use of Landsat data was chosen with John H. Kerr Reservoir as the study area.

1.2 Sources of Error

Ground information gathered by a remote sensor can be adversely altered by atmospheric conditions (Link, 1972; Link and Cress, 1974). The reflected or emitted electromagnetic energy can interact with the atmosphere and be incorrectly measured through absorption, reflection, refraction, diffraction, polarization, and emission of the electromagnetic energy (EP 70-1-1, 1979). Causes of these interactions in the atmosphere are clouds, haze, smoke, dust, and atmospheric moisture content (Blackswell and Boland, 1979). Figure 1.1 shows a pictorial representation of this interaction. Emission is caused by ambient electromagnetic energy in the air. Quantification

of these influences on MSS data is not feasible at this point, especially within the limited time constraints of this project.

Another source of error is the solar elevation angle. No correction was attempted for this as it has previously been determined to have very little influence on results (LeCroy, 1982). Time constraints do not permit confirmation of this claim.

In an attempt to minimize the effects of atmospheric conditions on Landsat MSS data, the tapes which were used were coverage of relatively cloudless days. Correction for the numerous influences on MSS data is not possible at this time and should be considered in review of any MSS related study (Sheffield, et. al., 1981).

1.3. Factors Affecting Measured Irradiance from a Water Body

In order to define the irradiance values detected by the Landsat MSS correctly as a response to surface conditions and atmospheric effects, these variables would first require definition and quantification. Because these factors are so numerous, the plausability of such an all-encompassing endeavor through use of Landsat on real earth data is questionable. A more reasonable approach would be to isolate and obtain sound understanding of the

major effects initially, and then build on that foundation by including additional variables while noting their influences individually. This type of approach would ideally be suited to investigation in the laboratory under controlled conditions. Fortunately, investigations of this nature have been pursued for hundreds of years, and developments since the mid-1800's are notable. In solutions of water as a solvent for various solutes, the major contributions to fluctuation in measured transmittance, absorptance, or reflectance are hydrogen ion activity, concentration, and temperature (Mellon, 1950). In this study, the irradiance response to a range of temperatures for approximately constant TSS was observed. The irradiance response to a range of TSS for approximately constant temperature was also noted.

The hydrogen-ion activity factor is the effect of acidity/basicity, or pH, of water solutions on the expected irradiance. Figure 1.2 shows the effect on transmittance of altering the pH of a solution of bromothymol blue dye in water, with concentration and temperature constant. Because all acids are electrolytes in water, the conductivity as well as the pH will be indicators of acidity. The electrical conductivity of the solution will depend on how completely the acid ionizes at a given concentration (Murphy and Rousseau, 1975). It is notable

at this point that the temperature of the solution affects the balance of the reaction, or disassociation, of an acid in solution with water (Jones, 1907; Jones, 1915; Mellon, 1950). These three parameters - pH, concentration, and temperature - are closely related. The irradiance that is detected by Landsat depends primarily on various concentrations as functions of pH and temperature, and on temperature alone.

An example of the effect of concentration on transmittance is shown in Figure 1.3. The effects of concentration and temperature are similar. Increasing temperature results in the same change as increasing dilution (Mellon, 1950). The general effect is to decrease reflectance in the Landsat wavelengths. An increased concentration of a solute that is highly absorptive in the visible regions where water is transparent will further suppress reflection in that region of the spec-As dilution increases, the water spectrum will become predominant. Water is highly absorptive, and generally reflectance decreases with increasing dilution. Similarly, reflectance increases with increasing concentration or decreases with increasing temperature. Rise in temperature also breaks down the molecular aggregates; therefore, the absorption cannot be due to the aggregates. The solvates become simpler both by rise in temperature

and by increased concentration (Jones, 1915). This change in absorption with dilution is greatest for aqueous solutions. The more dilute solution shows practically no temperature effect (Mellon, 1950). The no temperature effect is itself, however, dependent on the temperature of the source of radiation as well as the temperature of the body studied (Bramson, 1971). The effect of temperature on transmittance is depicted in Figure 1.4.

The major water quality constituents in a reservoir that affect the color and reflectance are concentrations of total suspended solids, directly; algae either directly or indirectly; and temperature. Concentration of algae is dependent on temperature and on the presence of nutrients and solar radiation. Total suspended solids generally cause a peak reflectance in the red portion of the visible spectrum, Band 5. Consequently, many investigators have found good correlation of TSS with Band 5 or with a ratio of Band 4/Band 5 (Bowker and Witte, 1975; Hergenrader, 1976; Morris and Kuo, 1982). Algae is visible as reflection in the green wavelength, or Band 4. Within a reservoir, one would expect an inverse relationship between TSS and algae. Reduction in light penetration is adverse to the development of algae.

The pH of a reservoir depends on the acidic and basic constituents present. The acidic components are

comprised in part of humic and fulvic acids from soil leaching or as a result of algal productivity. These concentrations within a reservoir are additional to any acidic component produced upstream. The basic or buffering components are measured as alkalinity. Upstream conditions offer major contributions to reservoir concentration, which would be expected to peak with stormflow. This would be especially pronounced following the algal productive summer months. Thus pH, conductivity, and alkalinity would be expected to follow a similar trend.

Unfortunately, the database compiled during this project allows consideration of TSS and temperature only. The effect of temperature on reflectance as measured by the Landsat MSS was sought independently of other parameters. Evidence supporting the validity of such an effort follows.

Temperature has been found to have a marked effect on the spectral properties of a body (Alpert, Kaiser and Szymanski, 1964; Bramson, 1971; Buckingham, Lippert and Bratos, 1978; Chantry, 1971; Edisbury, 1968; Jones, 1907; Jones, 1915; Mellon, 1950). A mathematical method for describing "color temperature" at relatively low temperatures (273-300°K) has been presented (Bramson, 1971), and is stated as follows:

For a constant temperature, every body has a perfectly definite wavelength distribution of radiance, and the shape of the spectral distribution curve can yield an accurate temperature of the body. In the case of visual photometry, radiation will have the same color at the same As the temperature temperatures. varies, the change in spectral composition will be accompanied by variations in the absolute values of the spectral radiance, at differing rates in different spectral regions. --- The procedure for color temperature determination may be applied in the infrared as well as the visible spectral region, at both high and low temperatures.

The effect of a temperature increase on an aqueous solution can visually be detected as an increase in the color of the solution, the solution becoming less transparent. The deepening of the color is usually due to a widening of the absorption bands (Jones, 1915). As the absorption bands widen, reflection will decrease, thus radiance detected by Landsat will decrease. Visually, a more peaked "reflection" spectrum appears as a bright or pronounced color at that wavelength. Decreasing the intensity of the peak decreases the brightness, while broadening the curve causes an increase in depth of color.

The temperature at which the dissolution of the solvent is affected may also have an effect on the absorption curve. Elevation of temperature beyond this level will cause an irreversible change in color (Mellon,

1950). Figure 1.5 shows the effect of heating an aqueous solution to such a level. In a reservoir, this could only be expected to take place in a very thin surface layer during periods of high solar radiation and is therefore probably not significant.

Depending on the spectral characteristics of the solute(s) present in a reservoir, the spectral response observed by Landsat will be above or below a reference curve which would be expected for perfectly clean water. For a constant concentration of TSS and other parameters, the effect of a temperature variation may be noted.

CHAPTER 2

DESCRIPTION OF THE WATERSHED*

The Roanoke River Basin is located in the southern part of Virginia and the northern part of North Carolina, including all or part of 15 counties in Virginia and 17 counties in North Carolina. The basin is roughly pear shaped, stretching a distance of approximately 220 miles in length and varying from 10 to 100 miles in width (see Figure 2.1). The basin area is 9,580 square miles above the mouth of the Roanoke River, and 7,800 square miles above John H. Kerr Reservoir. Although the upper part of the basin lies in the Blue Ridge and Allegheny Mountains, most of the area is in the Piedmont Plateau, whose main characteristic is that of rolling hills. Most of the streams in the basin are somewhat crooked and swift, traversing the area in well defined v-shaped valleys.

The Roanoke River itself rises in the Allegheny mountains to the west of Roanoke, Virginia, flows 400 miles in a southeasterly direction toward the Atlantic coast, and empties into Albemarle Sound, approximately 7 miles south of Plymouth, North Carolina.

^{*}Chapter 2 was written by Daniel M. Goodwin for NASA Project NAG1-123 and is included here as background material for the reader (15).

2.1 Temperature

The climate of the Roanoke River Basin is moderate, characterized by warm summers and somewhat cold and snowy winters (although these are usually not severe). The average annual temperature for the basin is about 58°F (14.4°C) and average monthly temperatures vary between 38°F (3.3°C) and 77°F (25°C).

2.2 Precipitation

The average annual precipitation over the entire Roanoke River Basin is approximately 43 inches and is well distributed throughout the year. The annual precipitation extremes for the basin are 27 and 56 inches. Precipitation varies from 50 inches near the mouth of the Ronaoke River to 35 inches at the river's headwaters. The average annual snowfall for the entire basin is about 13 inches, which does not appreciably alter flood flows (Weiss, et al., 1978).

2.3 Runoff

The annual runoff from the Roanoke River Basin averages 14 inches or approximately 32 percent of the annual precipitation. The runoff of the basin varies from an average of 1.5 cubic feet per second per square mile in the mountain tributaries of the Dan River to 1.0

cubic foot per second per square mile at the headwaters of the Roanoke River as measured near Roanoke, Virginia (Weiss, et al., 1978).

2.4 River Flow

Several flow characteristics for the Roanoke River at the location of John H. Kerr Dam are shown below:

Roanoke River Flow - cfs for the period January 1912-February 1982

Average	7,698
Maximum (17 August 1940)	270,000
Minimum (29 September 1970)	48
Maximum Monthly Average (August 1940)	36,980
Minimum Monthly Average (September 1954)	484

2.5 Vegetation

Over 60 percent of the drainage area in the Roanoke River Basin is forested by Virginia, Loblolly, and short-leaf pines. Mixed pine/hardwood stands are scattered throughout the basin. The area surrounding Kerr Reservoir is comprised of the above mentioned pines as well as a good number of small farms mainly growing either tobacco or corn. Vegetation on the lake margins and in the lake is severely limited due to the fluctuating water level.

2.6 Regional Geology

In the area surrounding Kerr Reservoir the soil is mostly igneous rocks and interlayered sedimentary rocks of uncertain age. These rocks are very susceptible to erosion. To the northwest of Kerr are large amounts of Granite, Horneblende Greiss including interlayered Mica, Quartz, and large portions of common metamorphic rocks such as Slates and Schists. These rocks are also very susceptible to erosive action. Further to the west is the area known as the Devonion Formation, almost entirely composed of sandstone and limestone. To the west of the Devonion Formation is the Calvert Formation consisting of mostly clay with small portions of sand. The Calvert Formation covers a large portion of the western side of the Roanoke River watershed. At the headwaters of the watershed the land consists of Granite, Dolomite, and large portions of Biotite Gneiss. This Gneiss is characterized by compositional layering, and is medium to coarse grained.

2.7 John H. Kerr Reservoir

The John H. Kerr Reservoir was designed and built by the U.S. Army Corps of Engineers for the reduction of flood damage, generation of hydroelectric power, maintenance of low water control for pollution abatement,

and water based recreation. The growing importance of this last use can be seen in Table 2.1.

A total of 117,000 acres was acquired for the project, with 83,000 acres lying below the full pool elevation of 320 feet at the dam site. The reservoir can store 2,324,000 acre-feet of water up to elevation 320. This is equivalent to a depth of 5.6 inches over the entire watershed area above Kerr Dam. This value does not include 484,000 acre-feet of storage below elevation 268 since the reservoir must be maintained to at least this elevation for power generation.

CHAPTER 3

LANDSAT SATELLITE CHARACTERISTICS*

The Landsat system was developed by the National Aeronautics and Space Administration (NASA) to help meet the increasing demand for man to manage the earth's limited natural resources. Data gathered by the Landsat has been applied to studies in the fields of geology, cartography, geography, land management, forestry, hydrology, and many others.

A series of satellites began with the launch of Earth Resources Technology Satellite 1 (ERTS) in July 1972. The experimental satellite proved the applicability of monitoring the earth's surface from space, and led to the launch of ERTS 2 in January 1975. It was after the successful launch of ERTS 2 that the new name Land Satellite (Landsat) was adopted. The new name distinguishes these satellites from the Seasat series of earth observation satellites.

Landsat 1 was turned off in January 1978. Landsat 2 continues to operate and Landsat 3 was launched in March of 1978. Plans are currently being developed for the

^{*}Chapter 3 was written by Melnert, Malone, and Scarpace for the Tennessee Valley Authority and is included here as background material for the reader (27).

fourth Landsat with a scheduled 1981 launch (Landsat 4 was launched in July of 1982). Imagery used in this study was obtained by Landsat 1 or Landsat 2.

Landsat satellites are launched into sun-synchronous near-polar orbits at an altitude of approximately 900 km (540 mi) (Table 3.1). This type of orbit ensures repeatable sun-illumination conditions for any particular date from year to year.

The satellites cross the equator every 103 minutes thus completing 14 orbits in 24 hours. Therefore, the next westward track of data for any orbit is acquired at the same sun time the following day (Figure 3.1). The earth rotates 2,760 km (1,650 mi) under the satellite at the equator during each orbit. The coverage width of each orbit pass is 185 km (115 mi) and the distance between adjacent orbits at the equator is 159 km (95 mi). Complete earth coverage is, therefore, completed by each satellite every 18 days. Landsat 2 was launched so that its orbit follows Landsat 1 by 9 days. Landsat 2 and 3 also provide 9-day coverage.

The instrumentation of Landsats 1 and 2 consists of two imaging systems, the multispectral scanner (MSS) and the return beam vidicon (RBV). Also on board are the data collection system (DCS) receiver and transmitter, and two wide band video tape recorders (Figure 3.2). Only data

from the MSS system was used in this study and need be considered.

The MSS is a line-scanning radiometer which collects data by creating images of the earth's surface in four spectral bands simultaneously. Radiation coming from the surface of the earth and its atmosphere is recorded as an analog signal which is converted to values of from 0 to 63. The numbers represent brightness values (BV), the amount of electromagnetic energy reflected from an area on the earth's surface in one wave length band.

The MSS scans the earth's surface from west to east (Figure 3.3). Twenty-four detectors are used to record six lines of data (Figure 3.4) in each of the four wave length bands (Table 1.2).

During a scan, the signal is sampled every 9.95 microseconds. For each band, approximately 3,300 samples are taken along a 185 km line (Figure 3.4). Thus, the instantaneous field of view (IFOV) of 79 m by 79 m moves about 56 m on the ground between each sample. The individual radiation measurements must be arranged on an image in a manner that preserves spatial relationships. Thus, the measurements are assigned dimensions of 56 m by 79 m so that geometric distortions are not introduced. The 56 m by 79 m area is called a Landsat picture element or pixel.

Landsat MSS imagery is placed in the public domain and is available as either photographic products or computer capatible magnetic tape.

For the user to locate the area of his interest, the continuous image of the MSS has been divided along the orbit path (north to south) into sections equal to the east-west width of the MSS scan, 185 km (115 mi). This division is always made as near to the same location as possible, thus creating nominal scenes of Landsat data. These scenes are assigned a unique identifying number corresponding to the orbit path and the east-to-west row of scenes (Figure 3.5).

Photographic products available include black and white prints of individual Landsat bands. These products cover one nominal scene of imagery 185 km by 185 km and are available in a variety of scales. Also available are false color infrared composites of selected scenes. These products utilize bands 4, 5, and 7 to create photographically the false color image.

Landsat computer compatible tapes (CCT) are available in one-tape, 1,600 bit-per-inch (bpi) or in two-tape 800 bpi format. (Also available at this time are geometrically corrected computer compatible tapes in two-tape, 1600 bpi format.)

CHAPTER 4

METHODOLOGY

In order to eventually utilize Landsat imagery for the extraction of water quality data, algorithms must first be developed relating water quality parameters to raw reflectance values in some form from the multispectral scanner. Successful attempts have been made at correlation of Landsat reflectance values to various water quality parameters (Bowker, et al., 1976; Colwell, 1966; Hergenrader, 1976). It is notable that most of those efforts utilized a correlation between data that were not temporally matched, some in fact with years difference were correlated. In a report by the Tennessee Valley Authority (Meinert et al, 1978), the following was recommended:

It is anticipated that much of the variance in these models could be eliminated if ground samples are taken concurrently with Landsat overpasses.

For development of reliable Landsat algorithms, then, collection of field measurements should be coordinated with the operation of Landsat (Bowker and Witte, 1975; Price, et al., 1979). This project consisted primarily of an insitu data collection effort in conjunction with Landsat overpasses. The data was then used in three research reports. One is a sediment budget for Kerr

Reservoir (Goodwin and Kuo, 1982), another is a correlation of Landsat data to insitu surface turbidity data from Kerr Reservoir (Morris and Kuo, 1982). This report contains a correlation of Landsat data with insitu surface temperature data, with consideration of total suspended solids concentrations.

4.1 Field Measurements*

The Virginia Polytechnic Institute and State University (VPI&SU) researchers involved in this study coordinated their data collection efforts with the overhead passage of NASA Landsat II. The Landsat passes over the Kerr Reservoir area every 18 days, with the reservoir being visible for two consecutive scenes on each of these days. The VPI&SU sampling was performed on ten separate occasions between April 1981 and March 1982. Thirteen stations, located along the entire length of Kerr Reservoir, were chosen so as to suitably monitor the distributions of suspended sediments and temperature fluctu-These stations can be seen in Figure 4.1. ations. stations were located near existing buoys for ease of relocation and thus for assurance that the data collected each trip would be comparable.

^{*}Section 4.1 was written by Daniel M. Goodwin for NASA Project NAG1-123 and is included here as background material for the reader (15).

Data collected at each designated station included water temperature and current velocity and direction at increments of 5 feet until a depth of 20 feet was reached. Below the 20 foot depth, each of these parameters was measured at 10 foot depth increments until the reservoir bottom was located. Also, any isothermal layers occurring between increments were traced to their existing location. Turbidity was measured at 1 meter increments, and similar to temperature, any large change between measured depths was investigated and specifically located. Air temperature, wind speed, and wind direction were also measured periodically, since a change in any of these parameters may result in an altered sediment pattern. Six Secchi depths were also obtained at each station using the following disks: 30 cm black, 30 cm white, 30 cm B/W and 20 cm B/W. Secchi depths provide a relative measure of the amount of suspended sediment in water. The deeper a Secchi disk is visible, the clearer the water must be.

In addition to this, streamflow data for the Roanoke, Dan, Hyco and Bannister Rivers, as well as the sediment load carried by the Roanoke and Dan Rivers, were obtained from the U.S. Geological Surveys, Water Resources Division. The U.S. Army Corps of Engineers Wilmington District provided Kerr Dam discharges, lake levels and morphometric information.

Current speed, current direction, water temperature, and instrument depth were measured with an ENDECO Type 110 remote reading current meter. The meter is an axial flow, ducted impeller specifically designed for continental shelf and estuarine environmental monitoring.

Current speed was measured by a neutrally balanced impeller riding on glass ball bearings in Delien races that turns a multipole, corrosion resistant ceramic magnet that is coupled to a magnetic reed switch. One rotation of the impeller provides four closures of the reed switch which are transmitted to the surface deck unit via a telemetering cable. However, current speed below 0.1 knots (as was almost always the case for Kerr Reservoir) must be monitored by visually counting the reed switch pulses for a given period of time. The conversion from pulses to knots is made as follows:

$$K = \frac{P}{Sx3.56}$$

where K = knots

P = number of pulses

S = time period in seconds for pulse count

All field data were converted to ft/min as follows

$$\frac{ft}{min} = P(0.949)$$

where P = number of pulses over a 30 second period. A 2-inch cup mini Pygmy current meter was piggy-backed on the ENDECO meter for current speed measurements. The use of this device was later discontinued due to the insensitivity of recording small readings. Current direction was monitored using a potentiometric compass to sense magnetic north. The direction data was telemetered to the deck readout unit and was displayed by the meter.

Ambient temperature was monitored by a thermo-linear thermistor sensor in the subsurface unit. These data were also telemetered to the deck readout unit and displayed by a meter. The temperature displayed by the ENDECO 110 was checked at a depth of 3 feet in Kerr Reservoir and corresponded exactly with the readings of a standard thermometer.

Instrument depth was monitored by an oil filled pressure transducer. The transducer is a pressure operated potentiometer in which position of the potentiometer wiper provides a voltage that is telemetered to a meter in the surface deck unit.

Measurement of turbidity was made with the Monteduro-Whitney Corporations' Transmissometer. The instrument consists of two parts: (1) the deck unit (model TMU-1B) which houses the cable spool and the meter, control switches and battery and (2) the probe, which is comprised

of a light source, light receiver, and prism. The instrument measures the percent difference in light received of the light transmitted, which is directly related to the level of total suspended solids (TSS). NASA Langley Research Center calibrated the instrument at three different path lengths (10 cm, 33 cm, 100 cm) in the Kerr Reservoir site and in the laboratory based primarily on results from using Kerr sediment and pure quartz deionized water. NASA results yielded a plot (of the three path lengths) from which TSS in parts per million (PPM) can be determined once the percent difference in light received is known. The NASA plot is shown in Figure 4.2.

To maintain assured accuracy of the transmissometer, two screens, one with large holes and one with smaller holes were initially held in front of the light receiving apparatus on the instrument. The percent of light received was recorded for each screen and subsequently checked before each research trip.

4.2 <u>Data Preparation and Plots</u>

The research trip data was subsequently coded and entered into the Virginia Tech IBM 370 computer as Statistical Analysis System (SAS) field data files (Appendix A) for later use of SAS regression analysis, and for the plotting of temperature against depth at stations within

the reservoir (Barr, et al., 1979; Hales, et al. 1981). Each plot, generated by SAS, contains at most five trips for a given station, and thus each station requires two plots to accommodate the ten trips. These plots are contained in Appendix B.

4.3 Extraction of Data from CCT's

Having accomplished the year of field data acquisition, the availability of suitable Landsat computer compatible tapes (CCT's) for regression analysis against the field data was queried of the EROS Data Center. The tapes which were found suitable for purchase are listed and dated in Table 4.1 with a list of trips, also dated for which insitu data was acquired. From Table 4.1, it can be seen that only two trips involving 13 points could be matched exactly with tape data.

The CCT's were ordered in the 1600 bits per inch, band sequential form in order to utilize specific programs written by Dr. Gregory T. Koeln of the Fish and Wildlife Department at VPI&SU for extraction of data from the tapes (Hockenbrink, 1978). Upon receipt of the CCT's from EROS Data Center, a program of Dr. Koeln's was used for tape verification after cataloguing and submitting the tapes to the VPI&SU Computing Center tape library. The use of this tape print (TPPRINT) program was vital in this research

effort as the EROS Data Center initially was in error with our order. The major items to verify were the scene identification and the bands contained on each tape.

Five basic steps were involved in the data extraction. First, black and white prints using Band 6 of each scene, which were also obtained from EROS Data Center, were examined to locate the approximate east-west and north-south ranges in pixel coordinates occupied on each scene by the reservoir. Each geometrically corrected scene contains 3659 pixels in the east-west direction and 2983 pixels in the approximately north-south direction.

These coordinates were used in Step 2, which was the production of computer generated maps of what part of the reservoir was covered by each scene. Kerr Reservoir requires two consecutive scenes for complete coverage by Landsat. The Roanoke branch of the reservoir is covered by Pass 17, Row 34 and is located in the southeast corner of this scene (Figure 4.3). The Nutbush branch of the reservoir is covered by Pass 17, Row 35 and is located in the northeast corner of the Landsat scene (Figure 4.4). Management of computer input and output was significantly complicated by the necessity of the two different Landsat scenes involved.

The generation of computer maps was performed using a subroutine RAW which accesses a program of Dr. Koeln's

which assigns symbols for prescribed reflectance ranges or values. The program involves a density slicing technique which creates a histograph of the pixel reflectance values (greytones) and assigns symbols as defined by the user for specific ranges or values of greytones (Williamson, et al., 1974). Band 7 (near infrared) shows most clearly the delineation between land and water because water is almost totally absorbtive of near infrared radiation and land forms generally reflect most near infrared radiation. As a rule of thumb, water rarely reflects values greater than 15 reflectance units. Using the preceding as background, the symbols were user-defined to be, generally, a "0" or "1" within the 0 to 15 reflectance units range. All others were defined symbols other than "0" or "1". The RAW routine was later altered to a form referred to as RAW4 such that non-water pixels generated blank spaces on the computer maps. The result of RAW or RAW4 was thus a computer generated map of each scene, with the reservoir clearly defined, and with a grid of pixel coordinates at page boundaries (Figure 4.5).

Once the reservoir was located, step 3 was carried out, which was the locating of our sampling stations within the reservoir. This was performed by using a survey map of Kerr Reservoir (Alexandria Drafting Co.,

1981) and the output of RAW or RAW4, resulting in pixel co-ordinates for the stations covered by each scene.

The fourth step involved a subroutine (RAW3) which accessed another of Dr. Koeln's programs. Each run of RAW3 required changes consisting of (1) the tape to be used and associated dates, and (2) the east-west and north-south ranges in pixel coordinates to be extracted from the tape. The program generated an output of raw pixel reflectance values within a grid of pixel coordinates. The sampling station pixels (located from RAW or RAW4) were then marked on the printouts as preparation for the next step.

Step 5 in the procedure for extraction of data from the CCT's was accomplished through the use of a short Fortran program (Appendix C) written by W. Sharp. The program is interactive in nature, querying the user first of data identification information (tape, station, etc.), then accepting input of a five by five matrix of pixel reflectance values centered about the station pixel from RAW or RAW4. Only the 3x3 "smoothed" value (T) was used in this analysis. The program created two external files, one containing the five by five matrix with necessary identification (Appendix D), and the other a SAS file containing identification, the center pixel value (C) and smoothed values of reflectance, one of which was to

be used for SAS regression analysis (Appendix E).

The smoothed values of reflectance, consisted of the following:

- T, the average of a three by three matrix surrounding the center pixel.
- 2. TL, the average of the top left four by four matrix within the five by five.
- 3. TR, the average of the top right four by four matrix within the five by five.
- 4. BL, the average of the bottom left four by four matrix within the five by five.
- 5. BR, the average of the bottom right four by four matrix within the five by five.
- 6. F, the average of the twenty-five reflectances contained in the five by five.

4.4 Development of Data for Regressions

At this point, two separate sets of data were available for use. The separate datasets had to first be related through a common variable and then merged for subsequent use of SAS. The logical variables to relate were the variable TRIP in the field data file and the variable TAPE in the Landsat data file. Another factor which promoted the use of these as common variables was that, as mentioned in Section 4.3, only two trips could

be matched exactly with tape data in the year's study. Consequently, the trip data for which no exact match of the tape data existed was related to tape data from Landsat passes from 18 days preceding or following the trip data used. Care must be taken in matching trip data to tape data even if separated by only 18 days. A significant storm event could markedly alter water quality parameters throughout the reservoir, and thus adversely bias any regression performed with such points included (U.S. Army Corps of Engineers, 1962). For the purposes of this report all possible correlations between Landsat data and reservoir field data were used in order to test the validity of such an effort. For this purpose, it was necessary to temporally adjust the trip temperature data to the related tape (Table 4.2).

The adjusted data was then applied in RSQUARE and STEPWISE procedures for linear regression analysis using the Statistical Analysis System to determine which band or combination of bands was most suitable for more detailed study.

4.5 Landsat MSS Band Products and Ratios

In the past, various sums, differences, products and ratios of MSS band reflectances have been used in biological application of regression analysis for such

purposes as relative greenness, vegetation index, and perpendicular-vegetation index (Tucker, 1979) and generally for the purpose of reduction in error due to peripheral effects (LeCroy, 1982). Ratios were used to model water quality parameters in Kansas reservoirs (Yarger and McCauley, 1975), and were found useful in mapping water quality in Saginaw Bay (Rogers, et al., 1976).

In this study, various ratios were considered in the statistical analysis. The ratios which were included in the initial analysis are contained in Table 4.3.

4.6 Regression Model Development

The dataset which was used for regression analysis (50 total observations) is contained in Tables 4.4 and 4.5. The values of T for bands 4 through 7 at various stations from particular tapes are contained in Table 4.4. The corresponding temperatures and adjusted temperatures are found in Table 4.5. Products and ratios of the four bands were created within the SAS routines to minimize the amount of tabular data presented.

The first type of analysis applied to the dataset used the RSQUARE procedure of SAS. RSQUARE is a linear model procedure which performs all possible combinations (the maximum and minimum to be included may be user

specified) for one or more dependent variables and a list of independent variables (Barr, et al., 1979). A maximum of 14 independent variables is suggested in the SAS User's Guide (); however, when limiting the number of possible combinations, more independent variables may be included. The RSQUARE procedure was used to determine which variables and combinations produced the best regression results in terms of the R² statistic.

The STEPWISE procedure was next used to provide more detailed information of what was determined from the RSQUARE procedure. The stepwise regression attempts to determine the best models (of combinations) in a forward search (adding variables) of the independent variable list by evaluation of certain statistics (Graybill, 1976; Wonnacott and Wonnacott, 1977). These statistics include R^2 , F statistic, and C_p .

4.6.1 Coefficient of Multiple Determination, R²

The coefficient of multiple determination measures the proportionate reduction of total variation in a dependent variable (temperature) associated with the use of independent variables (Neter and Wasserman, 1974), and is defined as follows:

$$R^2 = \frac{SSR}{SSTO} = 1 - \frac{SSE}{SSTO}$$

where

SSR = regression sum of squares

SSTO = total sum of squares

SSE = error sum of squares

The range of R^2 is between zero and 1, with one being the perfect fit. When R^2 is equal to 1, all observations are on the fitted line and SSE equals zero. In using the R^2 statistic to choose a model, the highest value of R^2 is sought for a minimum number of independent variables included in the model. Other statistics are also observed as R^2 changes in order to find the optimum.

4.6.2 Error Mean Square, MSE

The error mean square is an unbiased estimator of the variance σ^2 in error, and is given by the following:

$$MSE = \frac{SSE(X_n)}{n-2}$$

where

 $SSE(X_n) = error sum of squares (variable <math>X_n$) n = number of observations

The error sum of squares has n-2 degrees of freedom associated with it (Neter and Wasserman, 1974), and thus

accounts for the number of parameters in the model where the ${\mbox{R}}^2$ statistic does not. MSE is to be minimized as much as possible in the optimum model.

4.6.3 Mallows Statistic, C

The ${\rm C}_{\rm p}$ criterion is concerned with the total squared error of the n fitted observations for any given regression model (Neter and Wasserman, 1979). The error has a bias component and a random error component, and ${\rm C}_{\rm p}$ is an estimator of the total squared error. In using the ${\rm C}_{\rm p}$ criterion to detect bias in a model, the value of ${\rm C}_{\rm p}$ is ideally equal to the number of independent variables. The objective is to find the set of independent variables which yields the best results with respect to the ${\rm C}_{\rm p}$ criterion. Since it is desirable to use a model with few independent variables, the model with the lowest value for ${\rm C}_{\rm p}$ is desirable.

4.6.4 Coefficient of Partial Correlation, F Statistic

The F statistic is useful in determining the linearity of a model and is defined as follows:

 $F = \frac{MSR}{MSE}$

where

MSR = regression mean square

MSE = error mean square

For a better fitted line, the coefficient of partial correlation will have a greater value, and thus the regression line is accounting for the variation in the dependent variable. The significance of the F-value is noted by the PROB F statistic provided in the SAS output. A small F-probability is sought for a large F-value.

CHAPTER 5

RESULTS AND DISCUSSION

The results of the RSQUARE, STEPWISE, and BACKWARD linear regression models are found in Appendix F. A discussion of the results follows.

5.1 Exact Match Dataset, 13 Points

An attempt was made to verify the acceptability of use of the adjusted temperature data that was force matched to tape data. As a starting point, the dataset containing the 13 exact match points was considered. results of the RSQUARE procedure are found in Table 5.1. RSQUARE was performed on a list of 44 non-redundant independent variables (Table 4.3). STEPWISE was performed on those variables which were found to be significant through the RSQUARE procedure. The values of R2 were good, and examination of more detailed statistics from the STEPWISE procedure found in Table 5.2 indicated that Band 4 was significant and was the best one variable model in the dataset. The resulting value of R2 from Band 4 was Addition of any one of at least eight independent variables to Band 4 in the model significantly improved the R^2 value to at least 0.92, and in most cases improved the F-value somewhat (Appendix F). The additional

variable which resulted in the highest F-value and the lowest F-probability was 5X5BY6 (Table 5.2), with an R^2 of 0.93.

5.2 Entire Dataset, 50 Points

For the results of the RSQUARE procedure including all 50 points, refer to Table 5.3. The resulting values of R² were not as good as those for the 13 exact match points. The best one variable model for the 50 observations was 4X4BY5, yielding an R² of 0.60 (Table 5.5). Band 4 as the regressor yielded an R² of 0.41, or third in the group. It is notable that Band 4 played an important role in the two variable models, all of which produced values of R² greater than the best one variable model. The best two variable had an R² value of 0.68. Notice from Table 5.3 that addition of more independent variables did not significantly improve the value of R².

5.3 Exact Match and 50 Observation Datasets Statistically Compared

After noting the importance of Band 4 in regressions of both datasets, a second variable was then sought that would offer similar results when applied to either dataset. The only common second variable that offered significant and acceptable results was 5X5BY6, which provided the best value of R² when combined with Band 4 on the 13 observation dataset.

The resulting linear regression equations using Band 4 and 5X5BY6 as independent variables (on 13 points from Table 5.2, and on 50 points from Table 5.4) to model surface temperature in Kerr Reservoir follow.

$$TEMPC = 0.5932(Band 4) - 0.2058(5X5BY6) + 10.26$$
 (5.1)

$$ADJTEMPC = 1.038(Band 4) - 0.3055(5X5BY6) + 9.469$$
 (5.2)

Equation 5.1 resulted from the 13 observations and 5.2 from 50 observations. The two equations were very similar, which indicated that the temporal temperature adjustment may have been acceptable when applying the above equations on this particular dataset. To further investigate that question, each of the equations was applied to the 50 observation dataset and the results compared to the adjusted temperatures. These results are found in Table 4.5.

Figure 5.1(a) is a plot of the application of Equation 5.1 to the 13 exact match observations. A linear regression of actual temperatures versus the temperatures predicted by Equation 5.1 is shown with 90 percent confidence limits. The actual data points are also shown on the plot. In order to discover which tapes comprise the points used for regression, refer to Figure 5.1(b). Similarly, part (b) of all figures in Chapter 5 contain

the data points indicated by tape for the regression in part (a) of each figure.

In using Equation 5.1 to predict the adjusted temperatures, good correlation was noted for temperatures in the low to upper teens. However, when temperatures were in the twenties, Equation 5.1 predicted values in the mid-teens. And for temperatures of approximately six degrees celcius, Equation 5.1 predicted values between approximately seven and nine. Thus, Equation 5.1 failed to match the extreem temperatures.

The application of Equation 5.1 to the entire 50 point dataset is shown in Figure 5.2(a). For a best fit, the regression line shown should pass through the origin and have unit slope, and the 90 percent confidence limits should be close to the fitted line with all points falling within those limits. Figure 5.1(a) demonstrates these qualities, showing that equation 5.1 is closely predicting the actual temperatures included in the 13 point dataset. The application of Equation 5.1 to the entire dataset, however, yields a non-unit slope and wider confidence limits. Thus, Figure 5.2(a) depicts the limitations of application of Equation 5.1 to the larger dataset.

The extent that each equation is limited in a particular application would be quantifiable by

calculation of error, were the database more substantial. Only 13 points, however, are actual known values (ground truth data). This limits the reliability of such a rigorous approach, but error analysis will nevertheless be investigated to some degree later in this report. A visual approach was first used to determine which model appeared to be depicting the temperature conditions "best". For a specific model to be labelled "best", it must predict acceptably or at least better than the other models in application to both datasets.

Equation 5.2, as expected, proved to be the better general predictor of temperature for the entire 50 observations, although Equation 5.1 yielded excellent results when applied to that part of the dataset from which it was derived (tapes 1 and 9). The application of either equation to a contour plot on any day other than Equation 5.1 applied on November 15, 1981 Landsat data would not be recommended as the accuracy would be questionable. For a general idea of temperatures, Equation 5.2 would be useful. The application of Equation 5.2 to the 13 points can be seen in Figure 5.3(a) and applied to the 50 points in Figure 5.4(a).

5.4 Further Investigation for a Better Model

In examination of the plots of the application of Equations 5.1 and 5.2 to the 50 point dataset, it was noted that some outliers existed in the data. Also, some concern arose from the regression shown in Figure 5.3(a). Regression equation 5.2 is seen applied to 13 points in that figure. The confidence limits were close, but the origin-intercept and unit-slope conditions were not met. From these two equations and four applications, it was suspected that some adjustment of the coefficients and of the constant in the basic form of the equation might offer better overall results.

To investigate the possibility of a better equation, the outliers were first identified. Those points falling near and outside the confidence limits were data from tapes 3 and 1 (Figure 5.2(b) and Figure 5.4(b)). Deletion of the four points from tape 3 decreased the number of observations to 46 and increased the value of R² from 0.63 to 0.75 (Table 5.6). The F-value also increased significantly from 40 to 64 and the MSE was reduced from 18 to 10. The Cp and PROB>F (significance) values remained the same and were good in both cases. The regression of temperature with Band 4 and 5X5BY6 as independent variables on the new 46 point dataset resulted in the following equation:

ADJTEMPC = 0.9554(Band 4) - 0.3145(5X5BY6) + 10.21 (5.3)

The application of Model 3 (Equation 5.3) to Landsat data for the 13 point dataset is shown in Figure 5.5(a). Some improvement was noted here over the application of Model 2. The slope and intercept were both closer to optimum. Figure 5.6(a) shows the application of Model 3 to the database from which it was derived; and, as expected, the slope and intercept were good. Also note that the confidence limits were much narrower than those for Model 2 on 50 points (Figure 5.4(a)). When Model 3 was applied on the entire 50 points, the regression remained of nearly unit slope (Figure 5.7(a)) and passed very close to the origin.

To further investigate the possibility of a better model equation, tape 1 data was also deleted from the database. Removal of the three points formerly contributing from tape 1 decreased the number of observations to 43 and further increased the R² value to 0.82 (Table 5.7). The F-value also further increased to 88 and the MSE was reduced somewhat to eight. Again, the Cp and PROB>F values remained the same. The following equation resulted.

ADJTEMPC = 1.157(Band 4) - 0.3328(5X5BY6) + 8.161 (5.4)

The application of Model 4 (Equation 5.4) to the 13 point dataset is shown in Figure 5.8(a). Clearly, this was the worst model when applied to the exact match points. The probable reason for the evident poor behavior is that Equation 5.4 was being forced to model an excessive number of points from which it was not developed.

From the preceding, it can be deduced that Model 1 is of course the best predictor of temperature for May 1 and November 15, 1981. When temperatures predicted by Model 1 are compared to a larger database consisting of temporally adjusted temperatures from field data, the correlation is not as easily acceptable. Any predicted temperature could be incorrect by plus or minus seven degrees celcius within the 90 percent confidence limits. Model 3 offers the best general application results of the four models studied, though bettering the confidence interval to only plus or minus five degrees celcius.

5.5 Evaluation of Error

In the evaluation of error, each tape was first considered separately, and the combinations of tapes that were observed in plot form were then developed. Table 5.8 contains the absolute error and percent error for each observation and model. The error was calculated in the following manner:

(T - T) / T =
$$\Delta$$
T / T model A A A

Where T = actual temperature for tapes 1 and 9, A and adjusted temperature for tapes 3, 5, 7, and 12.

Multiplication by 100 yeilded percent error. A negative error or percent error indicated that the model predicted low for that observation. These results were then averaged for each tape (Table 5.9). The values in the columns with the heading "average group error" were calculated in the following manner:

Average Group Error = (1/n) $\sum_{i=1}^{n}$ $(100 \Delta T / T)$ A i and contain the averages, in percent, of the sums of the individual percent errors for each model. This quantity represented how high or low the model predicted temperatures on the average. A value close to zero indicated that the model passed through the center of the group of data points.

The values in the columns with the heading "average total error" were calculated in the following manner:

Average Total Error =
$$(1/n)$$
 $\sum_{i=1}^{n} (100 | \Delta T| / T)$ A i

and contain the averages, in percent, of the sums of the absolute values of the percent errors for each model.

This quantity represented the average amount of error for the group of points (each tape).

From Table 5.9, the accuracy with which each model predicted temperatures for each of the six tapes can be seen. Only tapes 1 and 9 contained exact match data points. The application of error calculation to the other tapes showed only how well each model predicted the adjusted temperatures and should not be interpreted as actual "error".

The error was then calculated for various combinations of tapes and summarized in Tables 5.10 and 5.11. Table 5.10 contains values representing the closeness of fit in percent, and Table 5.11 contains the average error in percent of each model for the various combinations of tapes. The optimum value for each of these parameters is zero. The starred values are the data for the tapes from which the models were developed. From these two tables it is evident, once again, that Model 1 was best for the exact match points with less than five percent error. Model 3 was the best of the remaining models, predicting high by almost 18 percent.

For modelling the entire dataset, Model 3 was the best with the closest fit, but with an average error of 21 percent. Model 1 was second best with an average error of 25 percent, predicting high by approximately eight percent. Because Model 1 was significantly better than any model when applied to the exact match ground truth data, and since this model was not significantly inferior to the best predictor (Model 3) of the dataset containing adjusted temperatures as well, Model 1 can be chosen as the best overall regression of temperature in this study.

CHAPTER 6

SUMMARY AND CONCLUSIONS

This report has presented a description of the extraction of data from Landsat computer compatable tapes and of the subsequent development of linear regression equations designed to predict surface temperature in the Kerr Reservoir from Landsat MSS data. Using only Landsat data that matched exactly with field data, good correlation was found through use of MSS Band 4. Use of (Band 5)² /Band 6 and Band 4 as independent variables improved the correlation considerably in comparison with Band 4 alone. Application of these same variables to a dataset including exact match and temporally adjusted temperature data yielded fair results and a very similar regression equation to that of the matched-only data.

6.1 <u>Effects of Temperature and</u> Total Suspended Solids

The evidence of importance of Band 4 in the regressions is supportive of earlier findings by other researchers that a correlation of Landsat MSS values and temperature should exist. The intensity of green light should change more rapidly than red light but more slowly than blue light (Bramson, 1971). The field and Landsat data verify this claim. Blue light however is not

detected by Landsat, but the curve is increasing toward the blue wavelengths from the near infrared. correlation of temperature with Band 5 has been found (Rogers, 1976), in which case the TSS effect (or lack thereof) may have been influencing the use of Band 5. model used in this study included a negative 5X5BY6 term which would cancel the TSS peak effect in Band 5. the TSS effect was an evident peak in Band 5, either slope approaching the peak (4BY5 or 5BY6) would describe the TSS effect. The variable 5X5BY6 represents the slope 5BY6 multiplied by Band 5. The order of the effect of TSS on any of the Landsat bands is uncertain; and, the order of the TSS cancellation (5X5BY6) is probably a major factor in the increased error of any model when applied to more adjusted data points because the TSS effect does not appear to be linear (Table 6.1, Figure 6.1).

Other Landsat users neglect consideration of temperature entirely. From the evidence presented in the introduction, the Landsat detection curve should be dependent on reflection enhancing and inhibiting concentrations and on color temperature. Total suspended solids concentration enhances reflection. Any other concentrations may be temperature dependent during periods of algal production within the reservoir. Nevertheless,

Landsat may have been detecting the organic compounds rather than the temperature. Because the best model was developed from periods when algal productivity would be severely limited, the levels of organics within the reservoir would not be due to production within the reservoir. Thus, no temperature dependency would exist other than the change of the dissociation constant of the organics with temperature. If the preceding assumptions are true, then the regression has shown that there was a temperature effect on the Landsat remotely sensed data, either direct or indirect (Figure 6.2). The effect of increased temperature appeared to be a suppression of the reflectance detected by Landsat. This effect was evident over Bands 4 and 5 especially, as expected.

Unfortunately, a firm conclusion to that effect cannot be made on the basis of the field data because organics were not measured. Correlation of spectral reflectance with dissolved organic carbon has been found (Witte et al, 1982). In that study the effect of increased humic acid concentration was noted for approximately constant turbidity, though no consideration was mentioned of either the temperature or the pH. Considerable heat could have been added to the water by the solar simulator and the pH was altered by adding increments of acid to the solution.

6.2 Limitations and Recommendations

The results and conclusions presented herein should be considered cautiously for the following reasons:

- 1. The multispectral scanner on board Landsat is a low resolution device with even more limitation when applied to a water body. The range in pixel reflectances is small compared with the range in temperatures.
- 2. Landsat MSS data is subject to influence by conditions of the atmosphere, for correction of which very little is known at this time. Clear cloudless days were chosen for this study and a ratio was used to limit atmospheric and other effects.
- 3. The regression equations are based on a small database, though larger than average when compared with the databases of many other similar studies. Only thirteen points were of matched data, and the remainder of the 50 total observations were temporally adjusted to match available tape data.
- 4. Additional information is needed in a study of this nature. Laboratory measurement of transmittance and reflectance concurrently of a solution with known humic or other concentration should be made.

 Monitored or controlled turbidity, temperature, and pH could be expected to reduce errors considerably.

5. The lack of water quality data for the period of this study must be considered in the evaluation of the results presented.

The availability of Landsat MSS data is severely limited due to poor atmospheric conditions. increasing cost of CCT's and of computer time are adverse to the application of Landsat to the water quality problems in which good quantification is sought. of the limited range in reflectances of Landsat when applied to water bodies, this application is not strongly Thirteen-channel MMS on board an aircraft recommended. could be considered as a viable solution to this shortcoming following a more thorough effort at quantification of water response in the Alternatively, the addition of an operative emitted I.R. band would make Landsat more suitable for applications involving temperature, and would lessen the problems related to such factors as haze and smoke encountered in the visible and near-visible wavelengths. Within Bands 4 through 7, however, at least the major effects still need to be accounted for to insure the development of useful algorithms.

Until such time as atmospheric problems can be readily dealt with, the use of Landsat will be hampered by

the limited availability of cloud-free imagery.

Improvement of the resolution of the sensing device is also desirable. In addition, it would be more conclusive to extend studies of this nature for several years in order to solidify the database. Perhaps in that instance many of the preceding problems would become either more or less significant and thereby become less prominent concerns.

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TABLES

TABLE 1.1

Aircraft MMS Channels and Wavelengths (adapted from Blackwell and Boland, 1979)

Channel Number	Center Wavelength	Spectral Bandwidth
•	$\lambda_{\mathbf{c}}$, $\mu \mathbf{m}$	Δ, μm
1	0.410	0.06
2	0.465	0.05
3	0.515	0.05
4	0.560	0.04
.5	0.600	0.04
6	0.640	0.04
7	0.680	0.04
8	0.720	0.04
9	0.910	0.10
10	1.015	0.09
11		8 - 14 (emitted IR)

TABLE 1.2

Landsat MSS Channels and Wavelengths
(NASA, 1972)

Band	4	Visible green	0.5 - 0.6	μm
Band	5	Visible red	0.6 - 0.7	μш
Band	6	Invisible reflected IR	0.7 - 0.8	μm
Band	7	Invisible reflected IR	0.8 - 1.1	μm

TABLE 2.1

Kerr Reservoir Attendance Figures (Weiss, 1978)

	Attendence at	
Year	John H. Kerr Dam and Reservoir	
1967	2,685,423	
1968	2,737,400	
1969	2,666,700	
1970	3,007,100	
1971	3,275,600	
1972	3,008,000	
1973	3,195,700	
1974	3,276,700	
1975	3,721,900	

TABLE 3.1

Characteristics of the Landsat Orbit (Nasa, 1972)

Orbital Parameter	Actual O	rbit
Semi-major axis	7285.82	km
Inclination	99.114	deg
Period	103.267	min
Eccentricity	.000	5
Time of equatorial crossing	9:42	a.m.
Coverage cycle	18	days
Duration of cycle	251	revs
Distance between adjacent tracks at the equator	159.38	km
Distance between successive tracks at the equator	2,760	km
Altitude	880 - 940	km

TABLE 4.1
Landsat Tape and Field Trip Information

Row ¹	Scene ID	Cloud Cover /Quality	Tape Date	Tape No.	Trip No.	Trip Date	No. of Points
35	8222 911 5120	20/5888	5/1/81	1	1	5/1/81	3
					2	5/18/81	
35	8223 451 5111	30/5555	6/24/81	23	3	6/24/81	
34	8223 811 5095	10/5555	7/30/81	3			4^4
					4	8/16/81	
34	8223 911 5095	30/5555	8/17/81	43			
					5	9/3/81	
34	8224 351 5092	10/5555	9/22/81	5			124
35	8224 351 5095	10/5555	9/22/81	6			
					6	10/8/81	
34	8224 711 5100	00/5888	10/28/81	7			
35	8224 811 5102	00/5858	10/28/81	8			
34	8224 891 5104	20/5555	11/15/81	9	7	11/15/81	L 10
3,5	8224 891 5111	10/8888	11/15/81	10			
35	8225 071 5114	00/8855	12/03/81	11	8 ⁵	12/3/81	
34	8225 611 5124	10/8888	1/26/82	12			94
35	8225 611 5130	30/8888	1/26/83	13			
		•			9	2/12/82	
					10	3/2/82	

^{1.} Pass 17.

Cloud cover in %/quality scaled 1(min) to 8(max) for Bands 4, 5, 6, and 7.

^{3.} Excessive atmospheric moisture, tapes not usable.

^{4.} Trip data adjusted to match tape date, see Table 4.2.

^{5.} No data gathered on Nutbush branch this trip.

TABLE 4.2
Temporal Temperature Adjustment (Linear)

TAPE 3

Station	Trip 3	Adjusted Temperature	Trip 4	Temperature (3-4)
1	28.8	28.4	28.2	0.6
2	28.4	28.3	28.2	0.2
3	28.4	28.3	28.2	0.2
4	28.8	28.6	28.5	0.3
Date	6/24/81	7/30/81	8/16/81	
	36 d	lays 18 da	ys	

TAPE 5

Station	Trip 5	Adjusted Temperatu	ce Trip 6	Temperature (5-6)
1	26.8	21.4	15.9	10.9
2	26.8	22.3	17.8	9.0
3	26.9	23.9	20.8	6.1
4	26.9	22.8	18.7	8.2
5	26.8	23.2	19.5	7.3
6	27.0	23.6	20.1	6.9
7	27.1	23.6	20.1	7.0
8	27.0	23.7	20.3	6.7
9	26.9	23.6	20.2	6.7
10	26.7	23.3	20.3	6.0
11	26.7	23.4	20.1	6.6
12	26.1	23.1	20.1	6.0
Date	9/3/81	9/22/81	10/8/81	
	18	days	18 days	

TABLE 4.2 (continued)

TAPE 7

Station	Trip 6	Adjusted Temperature	Trip 7	Temperature (6-7)
1	15.9	13.0	10.1	5.8
2	17.8	13.9	10.0	7.8
3	20.8	16.4	12.0	8.8
4	18.7	15.1	11.5	7.2
5	19.5	16.0	12.5	7.0
6	20.1	16.7	13.2	6.9
7	20.1	16.8	13.5	6.6
8	20.3	17.1	13.8	6.6
9	20.2	17.1	14.0	6.2
10	20.3	17.2	14.0	6.3
11	20.1	16.8	13.4	6.7
12	20.1	16.6	13.0	7.1
Date	10/8/81	10/28/81	11/15/81	
	18	days 18 day	ys	

TAPE 12

		Adjusted		Temperature
Station	Trip 8	Temperature	Trip 9	(8-9)
1	7.0	5.9	5.5	1.5
2	7.0	5.7	5.3	1.7
3	7.2	5.8	5.3	1.9
4	7.8	5.7	5.0	2.8
5	9.0	5.9	4.9	4.1
6	9.8	5.9	4.6	5.2
7	10.2	6.2	4.9	5.3
8	11.0	5.9	4.2	6.8
. 9	11.3	5.7	3.8	7.5
10		-	3.8	
Date	12/3/81	1/26/82	2/12/82	
	54	days 18	days	

TABLE 4.3

Landsat Band Products and Ratios Included in the SAS Analysis

4X4	Band	4	Х	Band	4			
4X5	Band	4	X	Band	5			
4X6	Band	4	X	Band	6			
4X7	Band	4	X	Band	7			
5X5	Band	5	X	Band	5			
5X6	Band	5	X	Band	6			
5X7	Band	5	X	Band	7			
6X6	Band	6	X	Band	6			
6X7	Band	6	X	Band	7			
7X7	Band	7	X	Band	7			
4BY5	Band	4	/	Band	5			
4BY6	Band	4	/	Band	6			
4BY7	Band	4	/	Band	7			
5BY6	Band	5	/	Band	6			
5BY7	Band	5	/	Band	7			
6BY7	Band	6	/	Band	7			
4X4BY5	Band	4	X	Band	4	/	Band	5
4X4BY6	Band	4	X	Band	4	/	Band	6
5X5BY4	Band	5	X	Band	5	/	Band	4
5X5BY6	Band	5	X	Band	5	/	Band	6
5X5BY7	Band	5	X	Band	5	/	Band	7
6X6BY4	Band	6	Х	Band	6	/	Band	4
6X6BY5	Band	6	X	Band	6	/	Band	5
6X6BY7	Band	6	X	Band	6	/	Band	7
7X7BY4	Band	7	X	Band	7	/	Band	4
7X7BY5	Band	7	X	Band	7	/	Band	5
7X7BY6	Band	7	X	Band	7	/	Band	6
4X5BY6	Band	4	X	Band	5	/	Band	6
4X5BY7	Band	4	X	Band	5	1	Band	7
4X6BY5	Band	4	X	Band	6	/	Band	5
4X6BY7	Band	4	X	Band	6	/	Band	7
4X7BY5	Band	4	Х	Band	7	/	Band	5
4X7BY6	Band	4	X	Band	7	/	Band	6
5X6BY4	Band	5	X	Band	6	/	Band	4
5X6BY7	Band	5	X	Band	6	/	Band	7
5X7BY4	Band	5	X	Band	7	7	Band	4
5X7BY6	Band	5	X	Band	7	/	Band	
6X7BY4	Band	6	X	Band	7	/	Band	4
6X7BY5	Band	6	X	Band	7	/	Band	5

TABLE 4.4

Landsat Band Data (T Values Matched with Trip Data)

TABLE 4.5

Adjusted Field Data and Model Results

			•				
TAPE	STATION	TEMP_C	ADJTEMPC	EQ.5.1	EQ.5.2	EQ.5.3	EQ.5.4
11133335555555555557777777777779999999999	112312341234567890121234567890121234567902123456789	18.222588899801093719888751132311100552500053330 6928 18.2222222222222222222222222222222222	18.8.4.3.6.4.3.9.8.2.6.6.7.6.3.4.1.0.9.4.1.0.7.8.1.1.2.8.6.1.0.0.5.5.2.5.0.0.0.9.7.8.7.9.9.2.9.7.2.4.4.3.3.6.4.3.9.8.2.2.2.2.2.2.2.3.3.3.6.5.6.6.7.7.7.7.6.6.0.0.5.5.2.5.0.0.9.7.8.7.9.9.2.9.7.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1	198.5.5.4.5.0.9.2.1.4.6.9.2.2.5.1.6.9.5.3.9.0.2.4.4.5.6.5.5.4.9.7.3.6.2.3.0.8.4.6.5.8.0.7.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1	2222212111	4.3.6.3.6.3.2.1.4.1.5.8.3.2.1.6.5.4.4.0.8.7.9.8.6.9.2.8.7.8.5.9.0.9.0.1.7.7.6.7.0.3.6.1.4.0.5.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1	22221248.41701732780890985350699874090120000427825941 22221211122422111128.8874090120000427825941 11111111111111111111111111111111111

TABLE 5.1

RSQUARE Results, 13 Exact Match Points

```
RSQUARE PROCEDURE WITH THE FOLLOWING AS INDEPENDENT VARIABLES
                                                                   BAND_4 BAND_5 BAND_6 BAND_7
_4X4___5X5___6X6___7X7__
                 _6X6_
_5X6_
                                                    REGRESSION MODELS FOR DEPENDENT VARIABLE ADJTEMPC
N=
                          13
NUMBER IN
                                                   R-SQUARE
                                                                                                   VARIABLES IN MODEL
       MODEL
                                            0.56513249
                                                                                                    BAND 7
                                            0.58944561
               1
                                                                                                   BAND_6
                                                                                                   _4X7_
_5X7BY6_
_5BY6_
                                            0.60098913
                                            0.62826938
                                            0.64423745
                                                                                                   __4X7BY5_
_4BY5_
                                            0.69145503
              1
                                            0.70520200
                                            0.72906116
                                                                                                     _4X6_
                                                                                                  _4X5_
_4X7BY6_
                                            0.74494309
                                            0.77942371
                                                                                                   _4X4BY5_
                                            0.83382715
                                           0.84159061
                                                                                                      4X4
              1
                                                                                                      4X6BY5_
              1
                                            0.84432107
              1
                                            0.85072024
                                                                                                   BAND_4
                                                                                                  BAND_4 _6BY7_
BAND_4 _4X6BY7_
BAND_4 _5X6BY7_
BAND_4 _4BY7_
              222222222
                                            0.92604868
                                            0.92630257
                                            0.92675535
                                            0.92837838
                                                                                                  BAND_4 _4BY7

_4X4BY5_ _4X7BY6_

BAND_4 _4X4BY7_

BAND_4 _5BY7_

BAND_4 _5X5BY7_

BAND_4 _5X5BY7_

_4X4BY5_ _5X7BY6_

_4X7 _6X7_

_5X5BY6_ _4X4_

BAND_4 _5X5BY6_

_7X7_ _4X7_
                                            0.92849112
                                            0.92852513
                                            0.92880523
                                            0.92904277
                                            0.92919357
                                            0.93230232
              2
                                            0.93348715
              2
                                           0.93389050
              2
                                            0.93420418
             2
                                                                                                     _7X7___4X7
                                           0.94344450
                                                                                                BAND_7 _ 4X6BY5 _ 5X7BY6 _ 7X7BY5 _ 4X5 _ 4X7 _ BAND_5 _ 7X7BY4 _ 5X7 _ 7X7BY5 _ 5X5 _ 4X7 _ 5X5BY6 _ 6X6BY4 _ 5X5 _ 7X7BY5 _ 4X6 _ 4X7 _ 8AND_5 _ 7X7BY5 _ 4X6 _ 4X7 _ 8BND_5 _ 7X7BY5 _ 4X7 _ 7X7BY5 _ 4X7BY5 _ 5X7 _ 7X7BY5 _ 4X7BY6 _ 7X7 _ 7X7BY6 _ 4X7BY6 _ 7X7 _ 7X7BY6 _ 6X7BY4 _ 5X7 _ 5X5BY6 _ 6X7BY4 _ 5X7 _ 5X5BY4 _ 7X7BY5 _ 5X7 _ 5X5BY4 _ 7X7BY4 _ 5X7 _ 5X5BY4 _ 7X7BY5 _ 5X7 _ 5X5BY4 _ 7X7BY5 _ 5X7 _ 5X5BY4 _ 7X7BY4 _ 5X7 _ 5X5BY4 _ 7X7BY5 _ 5X7 _ 5X7BY5 _ 5X7 _ 5X5BY5 _ 5X7 _ 5X7 _ 5X7BY5 _ 5X7 _ 5X7BY5 _ 5X7 _ 5X7BY5 _ 5X7
              3
                                           0.96194652
              3
                                           0.96236513
                                           0.96315720
                                           0.96342452
              3
                                           0.96378062
                                           0.96400872
                                           0.96467335
                                           0.96570519
              3
                                           0.96628477
                                           0.96929121
                                           0.97038549
                                           0.97251960
              3
                                           0.97348948
                                           0.97488593
                                                                                                      5X5BY4___7X7BY4__
             3
```

TABLE 5.2

STEPWISE Results for 13 Exact Match Point
Dataset of Band 4 and 5X5BY6 as Independent
Variables Modelling Temperature

STEPWISE PROCEDURE WITH THE FOLLOWING AS INDEPENDENT VARIABLES BAND_4 5X5BY6_ USING TAPES 1 & 9

STEP 1 V	ARIABLE BAND_	4 ENTERED	R SQUARE = 0 . $C(P) = 13$.		
	DF SU	JM OF SQUARES	MEAN SQUARE	F	PROB>F
REGRESSION ERROR TOTAL	1 11 12	88.51155103 15.53152589 104.04307692	88.51155103 1.41195690	62.69	0.0001
	B VALUE	STD ERROR	TYPE II SS	F	PROB>F
INTERCEPT BAND_4	4.16339038 0.61731749	0.07796853	88.51155103	62.69	0.0001
STEP 2 VARIABLE _5X5BY6_ ENTERED R SQUARE = 0.93420418 C(P) = 3.00000000					
	ANTABLE _JAJE	SYO_ ENTERED			
		M OF SQUARES			PROB>F
REGRESSION ERROR TOTAL		-	C(P) = 3.0	00000000	PROB>F
ERROR	DF SU 2 10	97.19747780 6.84559913	C(P) = 3.0 MEAN SQUARE 48.59873890	00000000 F	

TABLE 5.3

RSQUARE Results, 50 Point Dataset

```
AS INDEPENDENT VARIABLES
                                                      REGRESSION MODELS FOR DEPENDENT VARIABLE ADJTEMPC
N=
                          50
NUMBER IN
                                                      R-SQUARE
                                                                                                        VARIABLES IN MODEL
       MODEL
                                                                                                        _7X7BY6_
_4X7_
                                              0.08710159
                                              0.11345258
                1
                                                                                                        -5X6BY4
                                              0.12665166
                                                                                                           4X5BY6_
                                              0.12914230
                                              0.18838671
0.26148196
                                                                                                            5X5BY6
                                                                                                        5X5BY4_
                                              0.27041450
                                                                                                           4X7BY5
                                                                                                            4X7BY6_
                                              0.28914447
                                              0.33142114
                                                                                                           4X6BY5
                                              0.33421045
                                                                                                           4X4BY6
                                              0.36500733
                                                                                                           4X4.
                                              0.41178345
                                                                                                        BAND 4
                                                                                                           4BY5
                                              0.41680165
                                                                                                          4X4BY5
                                              0.60066607
                                                                                                       BAND_4 5X6BY4_

4X6 5X6

4BY5 4X4

BAND_4 5X5

5X5 4X5

5X5BY4 4X4
               2
                                              0.63551239
               2
                                              0.63778052
               2
                                              0.63834652
               222222222
                                              0.63881903
                                                                                                       5X5 4X5

5X5BY4 4X4

BAND 4 4BY5

5X5BY4 4X5

5X6BY4 4X6

BAND 4 BAND 5
                                              0.64735725
                                              0.65433351
                                              0.66061532
                                              0.66103889
                                              0.66383671
                                              0.66433750
                                                                                                        5X5BY4 4X6
BAND 5 5X5BY4
BAND 4 5X5BY4
BAND 6 5X6BY4
                                              0.66704741
                                              0.67422091
                                              0.67925564
               2
                                              0.68277743
                                                                                                      BAND_6 _ 4X6BY7 _ 5X6BY4 _ BAND_6 _ 5X5BY4 _ 4X4 
BAND_6 _ 5BY7 _ 5X6BY4 _ BAND_6 _ 4X5BY7 _ 5X6BY4 _ BAND_6 _ 4X5BY7 _ 5X6BY4 _ BAND_6 _ 5X6BY4 _ BAND_4 BAND_6 _ 5X6BY4 _ BAND_5 _ 5X5BY4 _ 4X6BY5 _ BAND_6 _ 5X5BY4 _ 4X6BY5 _ BAND_6 _ 5X5BY4 _ 6X6BY5 _ BAND_6 _ 4X5BY6 _ 5X6BY4 _ BAND_6 _ 4X5BY6 _ 5X6BY4 _ BAND_6 _ 4X4BY6 _ 5X6BY4 _ BAND_6 _ 5BY6 _ 5X6BY4 _ BAND_6 _ 4BY6 _ 5X6BY4 _ BAND_6 _ 5BY6 _ 5X6BY6 _ 5X6BY4 _ BAND_6 _ 5BY6 _ 5X6BY6 _ 5X6
               3
                                              0.69325905
                                              0.69333624
                                              0.69340146
                3
                                              0.69340478
                3
                                              0.69351892
                                              0.69352279
                                              0.69406398
                                              0.69443829
                3
                                              0.69752551
                                              0.69793744
                                              0.70397300
                3
                                              0.70542524
                                              0.70783888
                                              0.71100037
```

TABLE 5.3 (continued)

	RSQUARE PROCEDURE USING THE FOLLOWING BAND_4 BAND_5 BAND_6 BAND_7
N= 50	REGRESSION MODELS FOR DEPENDENT VARIABLE ADJTEMPC
NUMBER IN MODEL	R-SQUARE VARIABLES IN MODEL
4 4 4 4 4 4 4 4 4 4 4 4	0.71798028 BAND_4 BAND_5 _4BY6 _4X4BY6_ 0.71842458 BAND_4 _4BY5 _ 4X4BY5 _ 4X5_ 0.71862639 BAND_5 _4BY6 _ 5X5BY6 _ 5X6BY4_ 0.71895162 BAND_4 _5X6BY4 _ 4X4 _ 4X6_ 0.71906879 BAND_6 _4BY6 _ 5X6BY4 _ 7X7_ 0.71950345 BAND_6 _4BY6 _ 5X5BY4 _ 6X6BY4_ 0.7196225 BAND_6 _4BY6 _ 7X7BY5 _ 5X6BY4_ 0.72070609 BAND_7 _5X6BY4 _ 4X6 _ 4X7_ 0.72078948 BAND_4 _4BY5 _ 4X4BY5 _ 5X5_ 0.72093343

TABLE 5.4

STEPWISE Results for 50 Point Dataset of Band 4 and 5X5BY6 as Independent Variables Modelling Temperature

STEPWISE PROCEDURE WITH THE FOLLOWING AS INDEPENDENT VARIABLES BAND 4 $_5 \times 5 \times 6$ USING TAPES 1,3,5,7,9 & 12

STEP 1 V	ARIABLE BAND	_4 ENTERED	R SQUARE = 0. $C(P) = 29$.		
	DF S	SUM OF SQUARES	MEAN SQUARE	F	PROB>F
REGRESSION ERROR TOTAL	1 48 49	965.79690646 1379.60309354 2345.40000000	965.79690646 28.74173112	33.60	0.0001
	B VALUE	STD ERROR	TYPE II SS	F	PROB>F
INTERCEPT BAND_4	0.67887249 0.99924152		965.79690646	33.60	0.0001
STEP 2 V	ARIABLE _5X5	BY6_ ENTERED	R SQUARE = 0. C(P) = 3.	63140650 00000000	
	DF S	SUM OF SQUARES	MEAN SQUARE	F	PROB>F
REGRESSION ERROR TOTAL	47	1480.90080611 864.49919389 2345.40000000	740.45040305 18.39359987	40.26	0.0001
	B VALUE	STD ERROR	TYPE II SS	F	PROB>F
INTERCEPT BAND_4 5X5BY6	9.46921907 1.03790159 -0.30545756	0.13809232	1039.0586211 515.1038997	56.49 28.00	0.0001 0.0001

TABLE 5.5

Regression of Independent Variable 4X4BY5 on 50 Point Dataset, Best Single Regressor

	_ 4 _4X4В <u>\(\bar{Y}\)5</u>	WISE PROCEDURE US BAND_4 BAND_5 BY54BY64BY7_ 4X4BY64X4BY	5 BAND_6 5BY65BY7 75X5BY46X6BY5		
	_4X5BY6	4X5BY74X6BY5 _4X45X54X5_	54X6BY75X6BY4 _4X65X6_	-	
	STEPWISE REGRESS	ION PROCEDURE FOR	DEPENDENT VARIABLE	ADJTEMPC	
STEP 1	VARIABLE _4X4BY5_		ARE = 0.60066607 = 67.22915314		
•	DF	SUM OF SQUARES	MEAN SQUARE	E	PROB>F
REGRESSIO ERROR TOTAL	N 1 48 49	1408.80219065 936.59780935 2345.40000000	1408.80219065 19.51245436	72.20	0.0001
	B VALUE	STD ERROR	TYPE II SS	F	PROB>F
INTERCEPT _4X4BY5_	4.53825957 0.72053328	0.08479788	1408.80219065	72.20	0.0001

TABLE 5.6

Regression of Independent Variables
Band 4 and 5X5BY6 on Dataset
Containing Tapes 1,5,7,9, and 12
(Tape 3 Deleted, 46 Observations Included)

STEPWISE PROCEDURE WITH THE FOLLOWING AS INDEPENDENT VARIABLES BAND_4 _5X5BY6_ USING TAPES 1,5,7,9 & 12

STEP 1 V	ARIABLE BAND	_4 ENTERED	R SQUARE = 0. C(P) = 52.		
	DF S	UM OF SQUARES	MEAN SQUARE	F	PROB>F
REGRESSION ERROR TOTAL	1 44 45	757.08132609 953.79606522 1710.87739130	757.08132609 21.67718330	34.93	0.0001
	B VALUE	STD ERROR	TYPE II SS	F	PROB>F
INTERCEPT BAND_4	1.05176290 0.92260877		757.08132609	34.93	0.0001
STEP 2 V	ARIABLE _5X5	BY6_ ENTERED	R SQUARE = 0. C(P) = 3.	74719803 00000000	
	DF S	UM OF SQUARES	MEAN SQUARE	F	PROB>F
REGRESSION ERROR TOTAL	43	1278.36421936 432.51317194 1710.87739130	639.18210968 10.05844586	63.55	0.0001
	B VALUE	STD ERROR	TYPE II SS	F.	PROB>F
INTERCEPT BAND_4 _5X5BY6_	10.21376132 0.95537567 -0.31445870	0.10644106 0.04368098	810.32804126 521.28289328	80.56 51.83	0.0001 0.0001

TABLE 5.7

Regression of Independent Variables Band 4 and 5X5BY6 on Dataset Containing Tapes 5,7,9, and 12 (Tapes 1 & 3 Deleted, 43 Observations Included)

STEPWISE PROCEDURE WITH THE FOLLOWING AS INDEPENDENT VARIABLES BAND_4 _5X5BY6_ USING TAPES 5,7,9 & 12

STEP 1 V	ARIABLE BAN	ND_4 ENTERED	R SQUARE = 0 C(P) = 75		
	DF	SUM OF SQUARES	MEAN SQUARE	F	PROB>F
REGRESSION ERROR TOTAL	1 41 42	793.57034835 885.05709351 1678.62744186	793.57034835 21.58675838	36.76	0.0001
	B VALU	JE STD ERROR	TYPE II SS	. F	PROB>F
INTERCEPT BAND_4	-0.8729269 1.0712499		793.57034835	36.76	0.0001
STEP 2 V	ARIABLE _5>	5BY6_ ENTERED	R SQUARE = 0 C(P) = 3		
	DF	SUM OF SQUARES	MEAN SQUARE	F	PROB>F
REGRESSION ERROR TOTAL	2 40 42	1368.65169755 309.97574431 1678.62744186	684.32584877 7.74939361	88.31	0.0001
	B VALU	E STD ERROR	TYPE II SS	F	PROB>F
INTERCEPT					

TABLE 5.8

Absolute and Percent Errors for Each Model on the 50 Point Dataset

			Mode	el 1	Mode	el 2	Mode	el 3	Mode	e i 4
TAPE	STATION	. Τ _Δ	Δ^\intercal	100 <u>A</u> T/T	<i>-</i> -∠ ∆ T	100 <u>∆</u> T/T	Δτ	100 <u>∆</u> T/T	Δ^{T}	100 <u>∆</u> T/T
		~								
1 1 1	11 12 13	18.7 18.2 18.4	0.3 - 0.2 - 0.1	1.60 - 1.10 - 0.54	7.4 6.5 6.6	39.57 35.71 35.87	6.0 5.0 5.2	32.09 27.47 28.26	8.2 7.1 7.3	43.85 39.01 39.67
3 3 3	1 2 3 4	28.4 28.3 28.3 28.6	-12.9 -16.9 -10.8 -13.6	-45.42 -59.72 -38.16 -47.55	- 7.6 -14.8 - 4.8 - 9.7	-26.76 -52.30 -16.96 -33.92	- 9.1 -15.7 - 6.0 -10.4	-32.04 -55.48 -21.20 -36.36	- 8.4 -15.4 - 4.3 - 9.8	-29.58 -54.42 -15.19 -34.27
55555555555	1 2 3 4 5 6 7 8 9 10 11	21.4 22.3 23.9 22.8 23.6 23.6 23.6 23.6 23.7 23.6 23.3	7.51 - 7.6.8 - 6.6.7 - 7.51 - 7.5.2 - 5.8 - 6.2	-35.05 -27.35 -32.64 -28.07 -28.45 -28.39 -31.36 -31.65 -30.08 -26.61 -24.79 -26.84	- 2.5 - 2.5 - 1.1 - 1.2 - 2.7 - 0.8 - 0.6	-10.28 -2.24 -10.46 -4.82 -6.03 -5.08 -10.59 -11.39 -8.90 -3.43 0.85 -2.60	- 4.3 - 3.8 - 2.3 - 2.4 - 2.3 - 3.6 - 1.8 - 1.7	-20.09 - 8.52 -15.90 -10.09 -10.34 - 9.75 -14.41 -15.19 -12.71 - 7.73 - 4.27 - 7.36	- 2.0 - 0.2 - 0.2 - 0.8 - 1.1 - 0.9 - 2.5 - 1.5 - 0.6 - 0.3	- 9.35 - 0.90 - 9.21 - 3.51 - 4.74 - 3.81 - 9.75 - 10.55 - 8.05 - 2.15 2.56 - 1.30
7 7 7 7 7 7 7 7 7 7	1 2 3 4 5 6 7 8 9 10 11	13.0 13.9 16.4 15.1 16.0 16.7 16.8 17.1 17.2 16.8 16.6	0.56.5.1.8 - 2.4.8.3 - 5.6.6.5.7 - 11.3 - 11.2	3.85 - 4.32 -15.24 -27.15 -36.25 -31.74 -38.10 -38.60 -32.16 - 9.88 - 7.74 - 7.23	4.1 3.5 1.5 - 4.6 - 3.6 - 5.3 - 5.3 - 3.8 2.4	31.54 23.02 9.15 -17.22 -29.38 -21.56 -32.14 -30.99 -22.22 10.47 13.10 14.46	3.9 0.3 - 3.2 - 5.1 - 55.3 - 1.5 - 2.1	23.08 13.67 1.83 -21.19 -32.50 -24.55 -35.12 -34.50 -25.15 8.72 11.90 12.65	3.9 3.5 3.5 4.3 5.4 6.3 1.7 2.2	30.00 22.30 9.15 -21.85 -34.38 -26.35 -37.50 -35.67 -26.32 9.88 12.50 13.25
999999999	1 2 3 4 5 6 7 9 10	10.1 10.0 12.0 11.5 12.5 13.2 13.5 14.0 14.0	0.8 0.7 0.3 0.1 - 0.9 - 0.5 - 1.2 - 0.6 1.6	7.92 7.00 2.50 0.87 - 2.40 - 6.82 - 3.70 - 8.57 - 4.29 12.31	2.3 2.1 2.5 2.0 1.4 2.1 1.4 2.3 5.2	22.77 21.00 20.83 17.39 16.00 10.61 15.56 10.00 16.43 40.00	1.7 1.5 1.9 1.5 1.4 0.8 1.6 0.7 1.7	16.83 15.00 15.83 13.04 11.20 6.06 11.85 5.00 12.14 35.38	1.6 1.4 2.0 1.4 1.5 0.9 1.7 1.0 2.0 5.0	15.84 14.00 16.67 12.17 12.00 6.82 12.59 7.14 14.29 38.46
12 12 12 12 12 12 12 12	1 2 3 4 5 6 7 8	5.9 5.7 5.8 5.7 5.9 5.9	3.6 2.1 2.2 1.9 1.4 0.9 2.8 2.8	61.02 36.84 37.93 33.33 23.73 15.25 45.16 47.46	4.4 1.8 2.1 1.4 0.6 0.0 3.6 3.5	74.58 31.58 36.21 24.56 10.17 0.00 58.06 59.32	3.8 1.3 1.5 0.9 0.2 - 0.5 2.8 2.6	64.41 22.81 25.86 15.79 3.39 - 8.47 45.16 44.07	3.5 0.5 0.9 0.1 - 0.7 - 1.4 2.7 2.5	59.32 8.77 15.52 1.75 -11.86 -23.73 43.55 42.37

TABLE 5.9

Sums and Averages of Errors for Each Tape and Model

				•
		(a) Tape 1	(n=3 observati	ions)
Model	sum group error	average group error	sum total error	average total error
1	- 0.04	- 0.01	3.24	1.08
2	111.15	37.05	111.15	37.05
3	87.82	29.27	87.82	29.27
4	122.53	40.84	122.53	40.84
		(b) Tape 3	(n=4 observati	ions)
Model	sum group error	average group error	sum total error	average total error
1	-190.85	-47.71	190.85	47.71
. 2	-129.94	-32.49	129.94	32.49
3	-145.08	-36.27	145.08	36.27
4	-133.46	-33.37	133.46	33.37
		(c) Tape 5	(n=12 observat	tions)
Model	sum group error	average group error	sum total error	average total error
1	-354.28	-29.52	354.28	29.52
2	- 74.97	- 6.25	76.67	6.39
3	-136.36	-11.36	136.36	11.36
4	- 60.76	- 5.06	65.88	5.49

TABLE 5.9 (continued)

(d) Tape	7	(n=12)	observ	vations \
----------	---	--------	--------	-----------

		(d) Tape /	(n=12 observat	cions)
Model	sum group error	average group error	sum total error	average total error
. 1	-244.56	-20.38	252.26	21.02
2	- 51.77	- 4.31	255.25	21.27
3	-101.16	- 8.43	244.86	20.41
4	- 84.99	- 7.08	279.15	23.26
		(e) Tape 9	(n=10 observat	tions)
Model	sum group error	average group error	sum total error	average total error
i	4.82	0.48	56.38	5.64
2	190.59	19.06	190.59	19.06
3	142.33	14.23	142.33	14.23
4	149.98	15.00	149.88	15.00
		(f) Tape 12	2 (n=9 observat	tions)
Model	sum group error	average group error	sum total error	average total error
1	360.37	40.04	360.37	40.04
2	369.92	41.10	369.92	41.10
3	272.67	30.30	289.61	32.18

25.66

230.93

266.52

29.61

TABLE 5.10

Closeness of Fit in Percent [$(1/n)\sum_{i=1}^{n}(100 \Delta T/T)$] of Each Model for Various Combinations of Tapes

Tapes	s <u>Included</u>	<u>n</u>	Model 1	Model 2	Model 3	Model 4
1,3	,5,7,9,12	50	- 8.49	8.30*	2.40	4.48
1,	5,7,9,12	46	- 5.08	11.85	5.77*	7.78
	5,7,9,12	43	- 5.53	10.09	4.13	5.47*
3,	,5,7, 12	37	-11.60	3.06	- 2.97	- 1.30
1,	9	13	0.37*	23.21	17.70	20.96

^{*} indicates particular model was derived from corresponding tapes

TABLE 5.11

Average Error in Percent [$(1/n)\sum_{i=1}^{n}(100 \mid \Delta T \mid /T)$] of Each Model for Various Combinations of Tapes

Tapes	Included	n	Model 1	Model 2	Model 3	Model 4
1,3,	5,7,9,12	50	24.35	22.67*	20.92	20.35
1,	5,7,9,12	46	22.32	21.82	19.59*	19.22
	5,7,9,12	43	23.80	20.75	18.91	17.71*
3,	5,7, 12	37	31.29	22.48	22.05	20.14
1,	9	13	4.59*	23.21	17.70	20.96

^{*} indicates particular model was derived from corresponding tapes

TABLE 6.1
TSS, Temperature, and Landsat Data

0 B S	T R I P	S T A T I O N	S T E M P	A D J T E M P C	T S S P P	¥ SECCHI	T A P E	B A N D	B A N D	B A N D	B A N D
1 2 3 4 5 6 7 8 9 0 1 1 2 3 1 4 5 6 7 8 9 1 1 1 2 3 1 4 5 6 7 8 9 1 1 1 2 3 1 4 5 6 7 8 9 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	1113333555555555555577777777777	112312341234567890121234567902	18.7 18.4 28.2 28.5 26.8 26.8 26.9 27.0 26.7 10.0 11.5 13.6 14.0 13.0	18.44433.64439826676341100055250000 18.4433.6439826676341100055250000	4.4.62.87.62.08.65.86.50.81.00.03.25.83.15.38.38.39.39.39.39.39.39.39.39.39.39.39.39.39.	175 145 138 715 160 61 145 155 220 235 110 105 180	1113333555555555555559999999999	23.56 23.22 23.00 22.44 151.00 15.22 27.22 22.11 20.67 18.33 19.11 18.00 17.67 18.56 20.33 19.44 12.89 13.01 12.67 13.22 13.67 14.11	15.56 16.11 20.22 22.22 18.78 12.00 36.51 12.05 19.22 13.89 14.56 13.89 14.56 13.87 14.58 13.33 15.78 13.33 14.41 12.00 13.56 13.15 14.11	9.44 8.89 15.56 12.578 13.89 21.44 12.11 11.678 8.89 22.67 9.226 6.007 77.00 5.89 10.566 77.00 5.89 5.767 77.56	2.27.1.25.1.6.44443803.06116137000099022

FIGURES

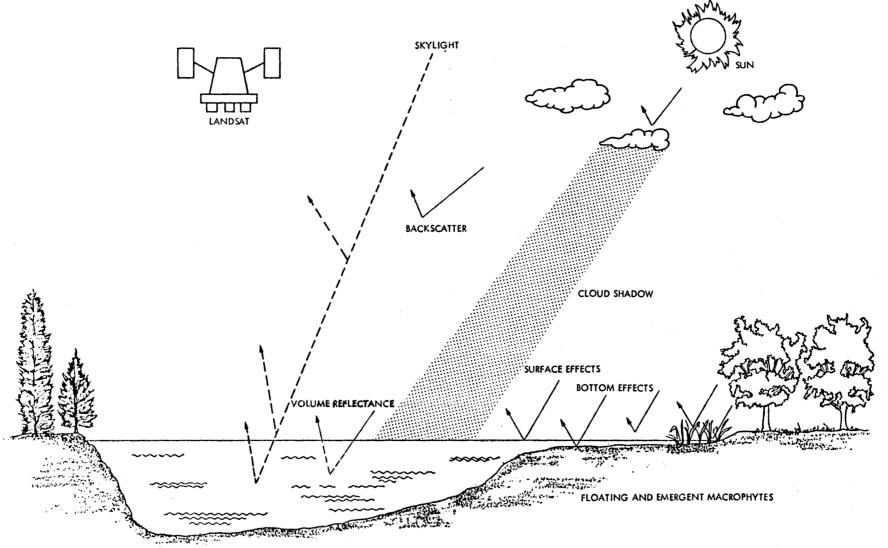
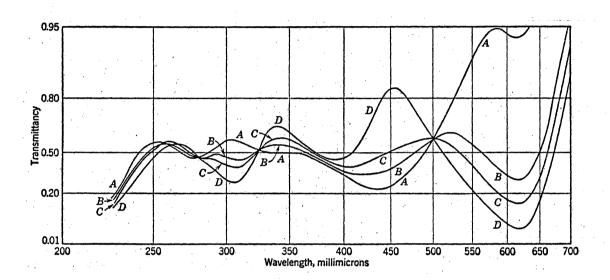


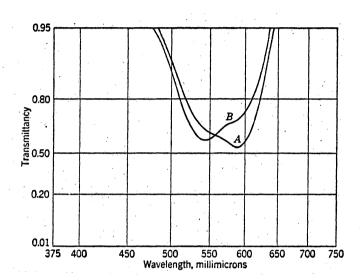
Figure 1.1 Some Components and Interactions of Light with Hypothetical Lake and Atmosphere (Blackwell and Boland, 1979)



Solvent = Water

A = pH 5.45;
B = pH 6.95;
C = pH 7.50;
D = pH 11.60.

Figure 1.2 Absorbtion Spectra of Bromothymol Blue at Various Hydrogen-ion Activities (Mellon, 1950)

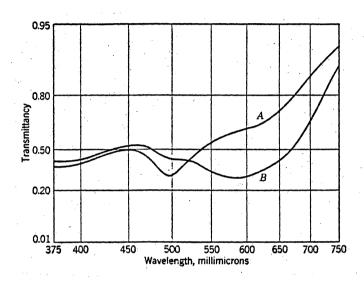


Solvent = Water

A = 0.4 mg/l in a 10-cm cell

B = 20.0 mg/1 in a 0.2-cm cell

Figure 1.3 Effect of Concentration on Absorption Spectrum of Formyl Violet S4B (Mellon, 1950)

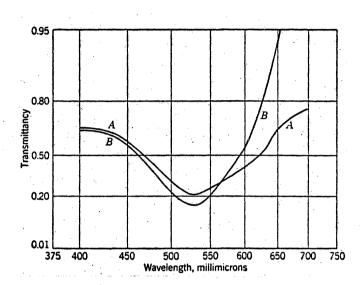


Solvent = Water

A = 25 degrees celcius

B = 50 degrees celcius

Figure 1.4 Effect of Temperature on Absorption Spectrum of Eriochrome Verdon A (Mellon, 1950)



Solvent = Water

A = dye dissolved at 25 degrees celcius

B = dye dissolved at 85 degrees celcius

Figure 1.5 Effect of Solution Heating on Absorbtion Spectrum of Diamine Violet N (Mellon, 1950)

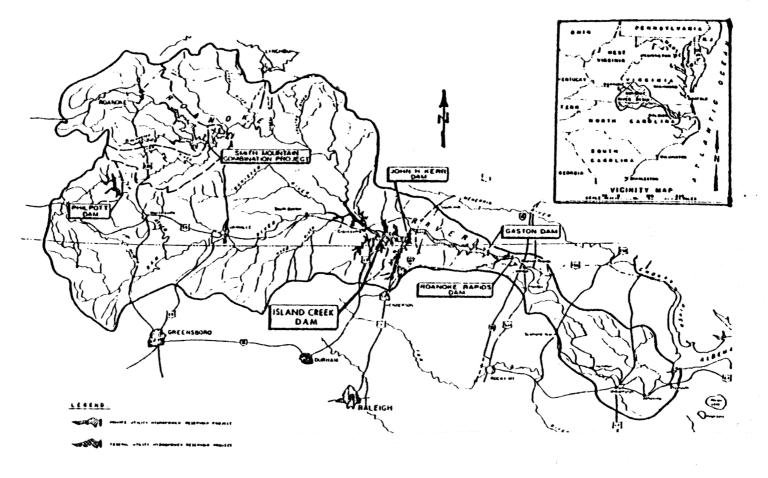


Figure 2.1 Roanoke River Basin (U.S. Army Corps of Engineers, 1962)

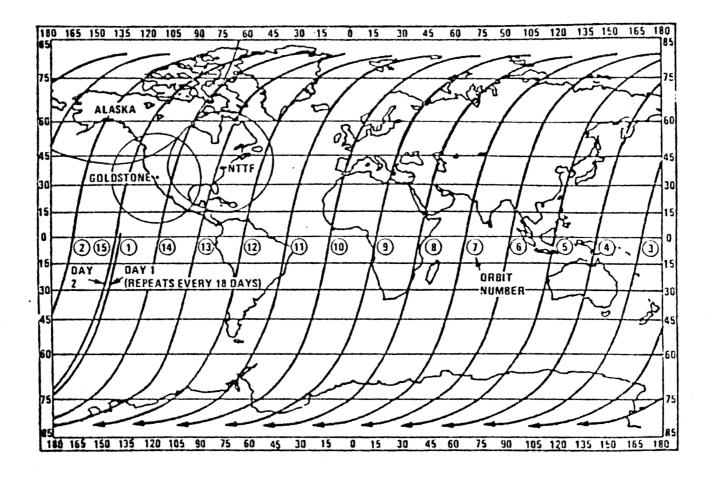


Figure 3.1 Landsat Orbital Tracks for One Day of Coverage (NASA, 1972)

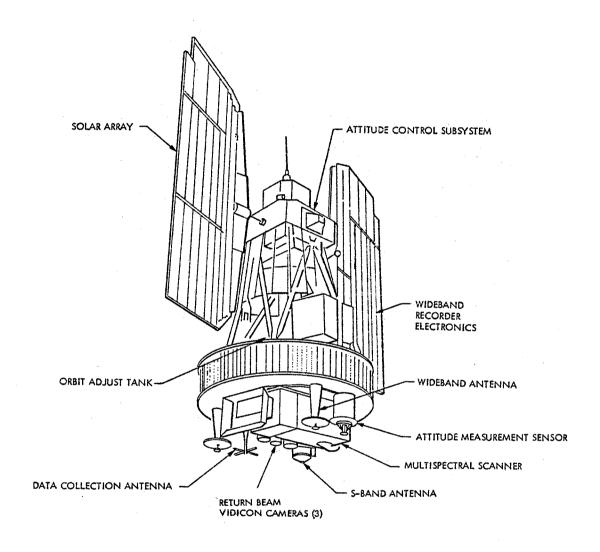


Figure 3.2 Landsat Configuration (NASA, 1972)

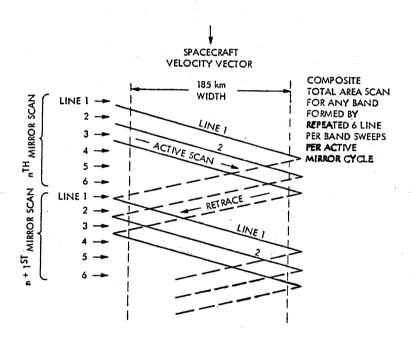


Figure 3.3 Scanning Arrangement of MSS (NASA, 1972)

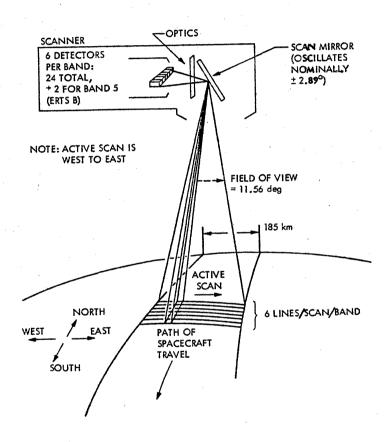


Figure 3.4 Scanning Pattern of MSS on the Earth's Surface (NASA, 1972)

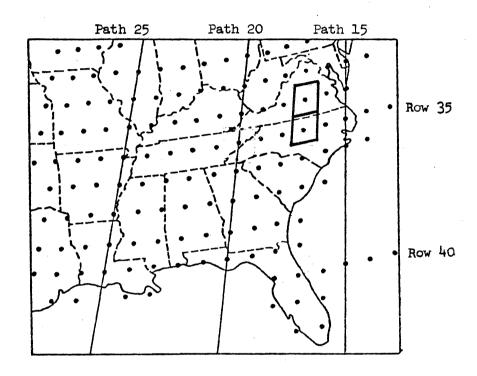


Figure 3.5 Nominal Scenes for Landsat Imagery (Adapted from Meinert, et al, 1978)

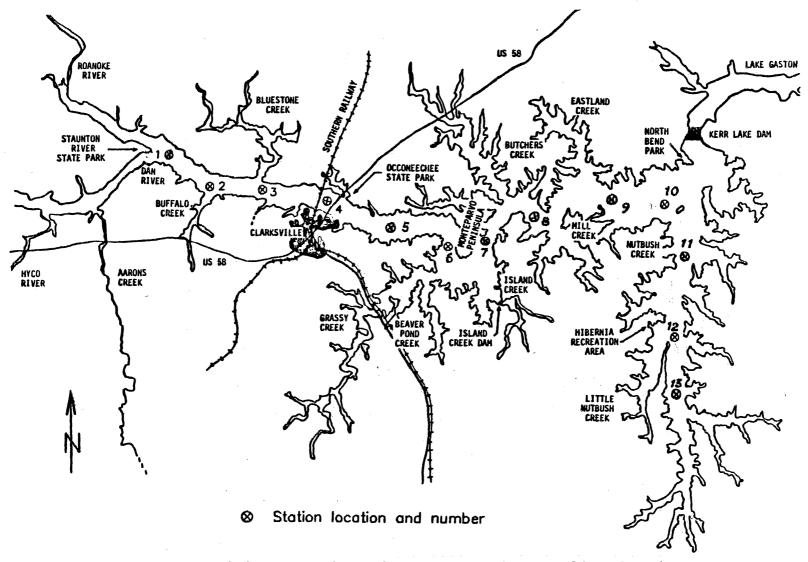


Figure 4.1 Location of V.P.I. & S.U. Sampling Stations (Adapted from LeCroy, 1982)

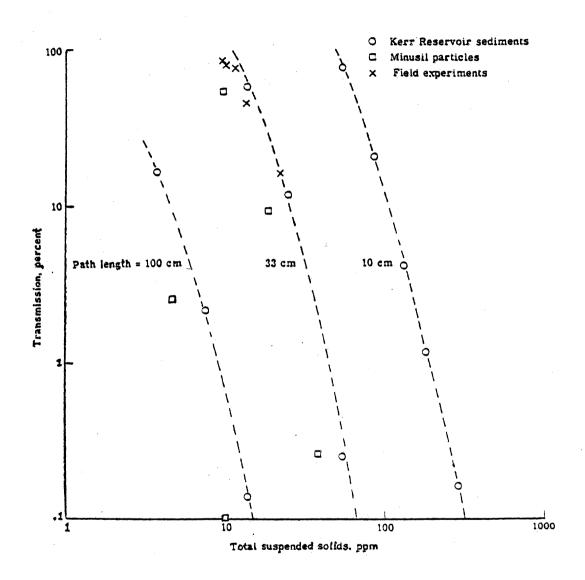


Figure 4.2 Total Suspended Solids Versus Beam Transmission (Usry and Whitlock, 1981)

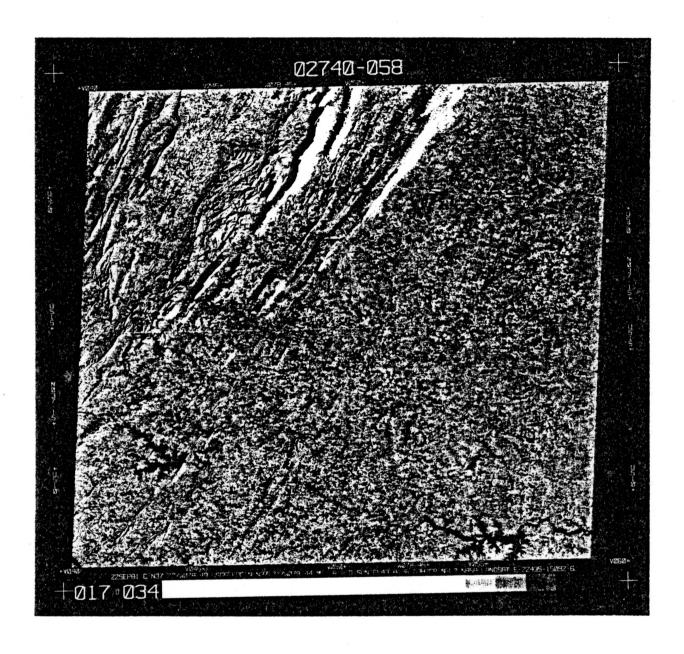


Figure 4.3 Band 6 Image of Pass 17, Row 34 on September 22, 1981

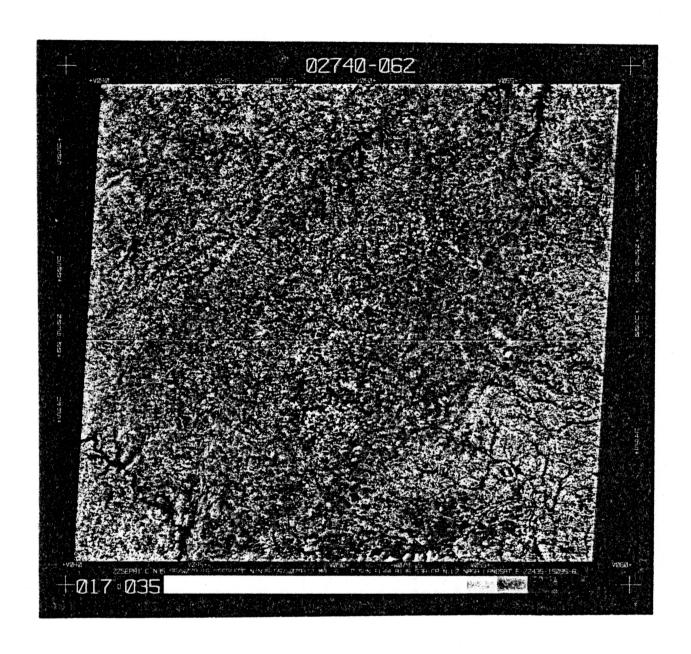


Figure 4.4 Band 6 Image of Pass 17, Row 35 on September 22, 1981

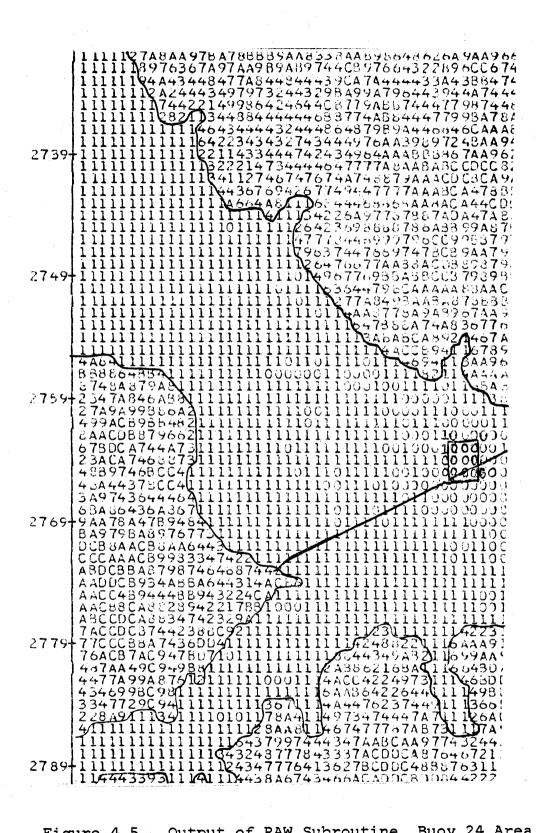
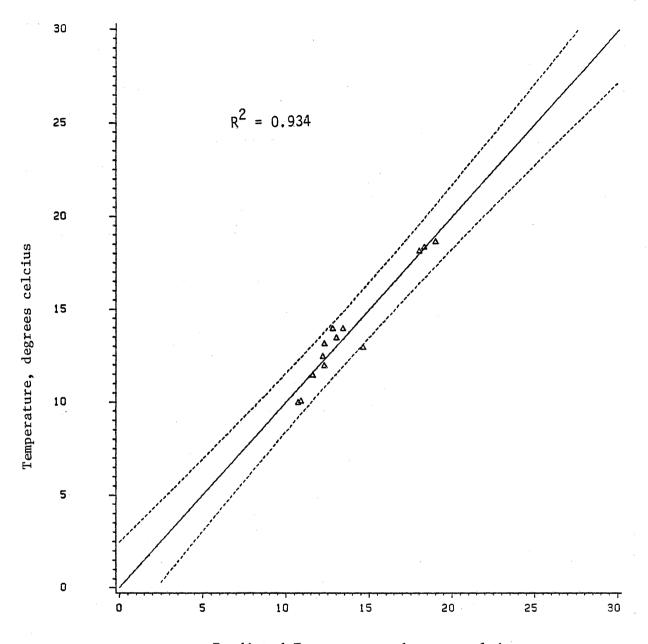


Figure 4.5 Output of RAW Subroutine, Buoy 24 Area Showing Location of Land and Water Pixels



Predicted Temperature, degrees celcius

Figure 5.1 Application of Equation 5.1 to 13 Exact Match Points

(a) Linear Regression of Temperature (Degrees Celcius) versus Model 1 with 90 Percent Confidence Limits

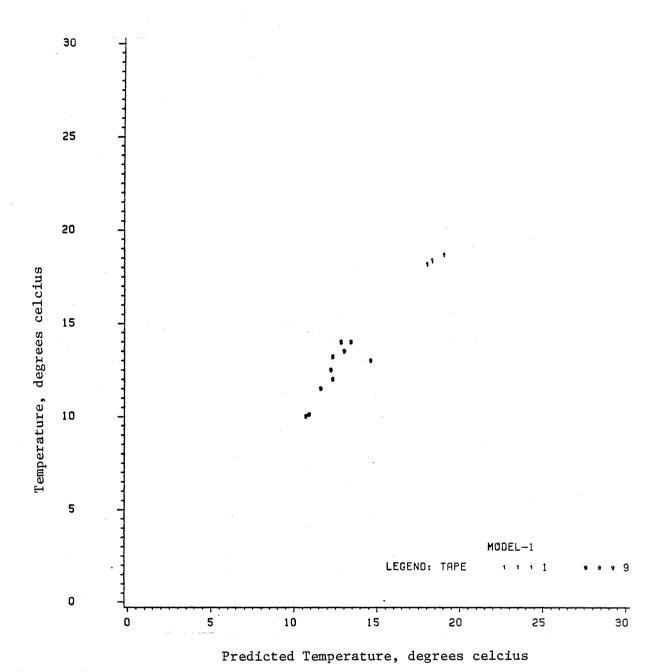
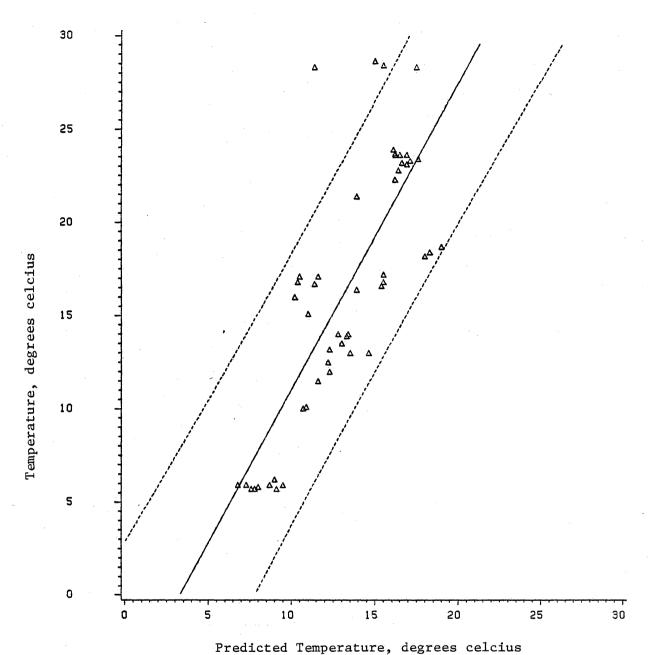


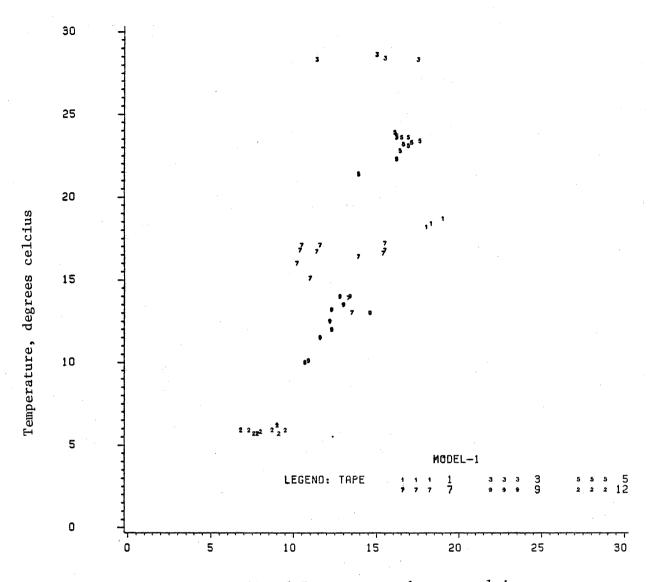
Figure 5.1 Application of Equation 5.1 to 13 Exact Match Points



, ,

Figure 5.2 Application of Equation 5.1 to 50 Point Dataset

(a) Linear Regression of Temperature (Degrees Celcius) versus Model 1 with 90 Percent Confidence Limits



Predicted Temperature, degrees celcius

Figure 5.2 Application of Equation 5.1 to 50 Point Dataset

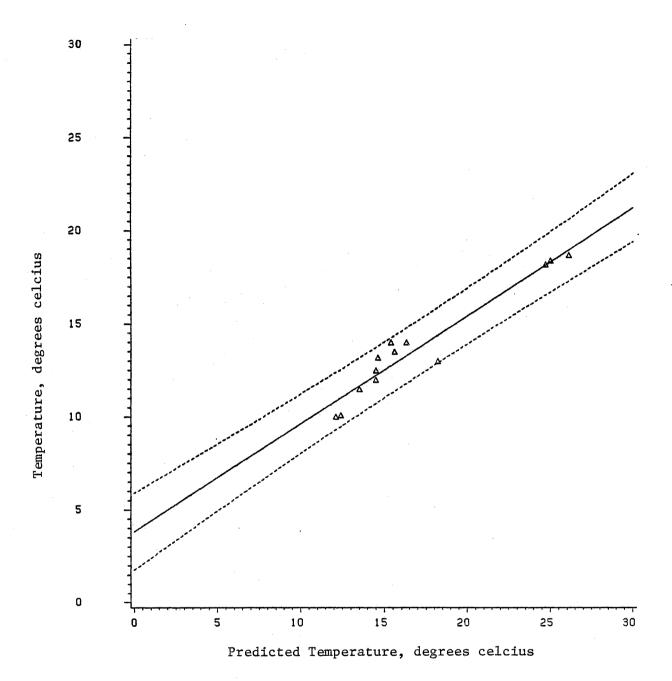


Figure 5.3 Application of Equation 5.2 to 13 Exact Match Points

(a) Linear Regression of Temperature (Degrees Celcius) versus Model 2 with 90 Percent Confidence Limits

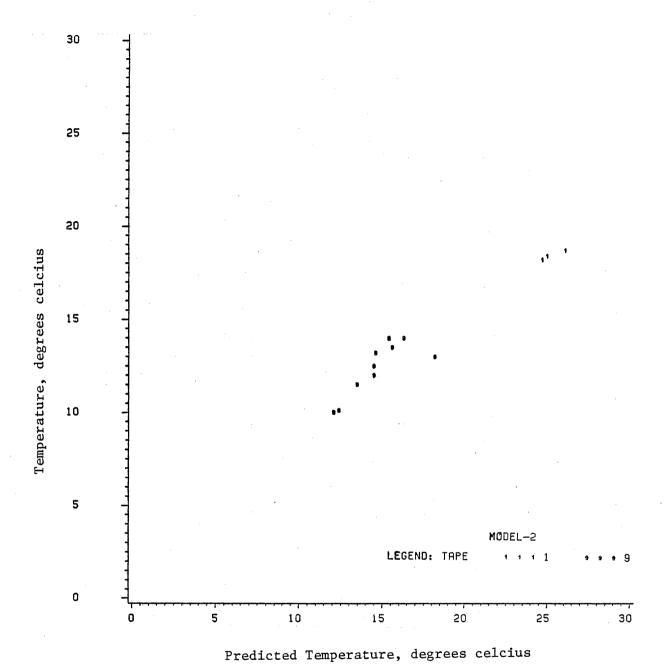


Figure 5.3 Application of Equation 5.2 to 13 Exact Match Points

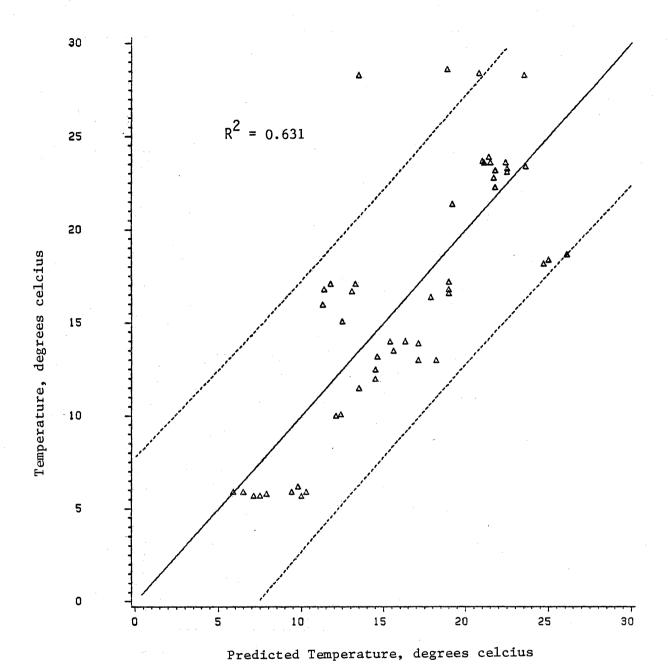
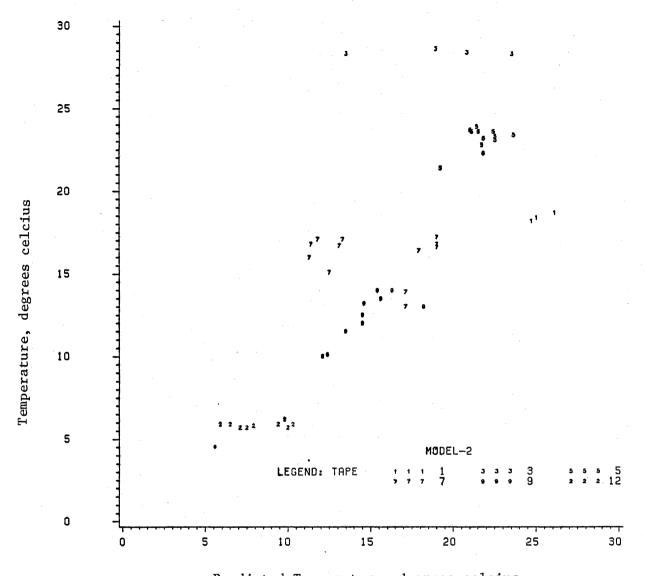


Figure 5.4 Application of Equation 5.2 to 50 Point Dataset

(a) Linear Regression of Temperature (Degrees Celcius) versus Model 2 with 90 Percent Confidence Limits



Predicted Temperature, degrees celcius

Figure 5.4 Application of Equation 5.2 to 50 Point Dataset

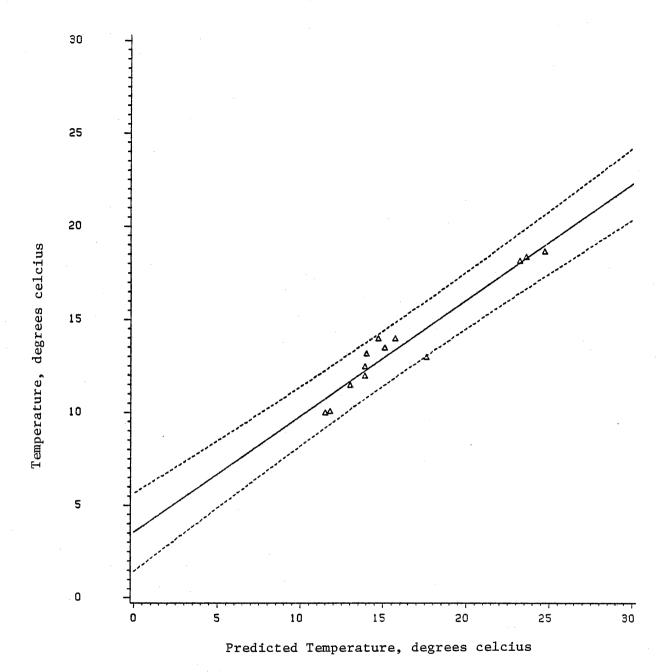


Figure 5.5 Application of Equation 5.3 to 13 Exact Match Points

(a) Linear Regression of Temperature (Degrees Celcius) versus Model 3 with 90 Percent Confidence Limits

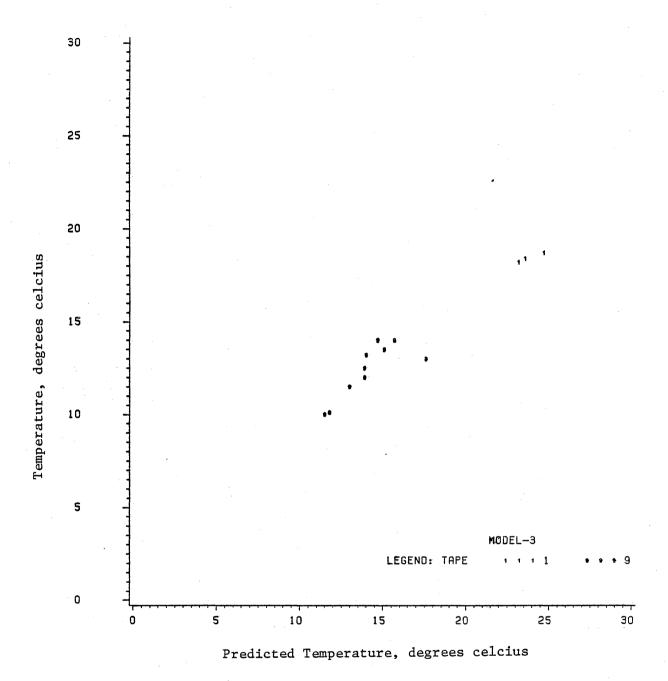
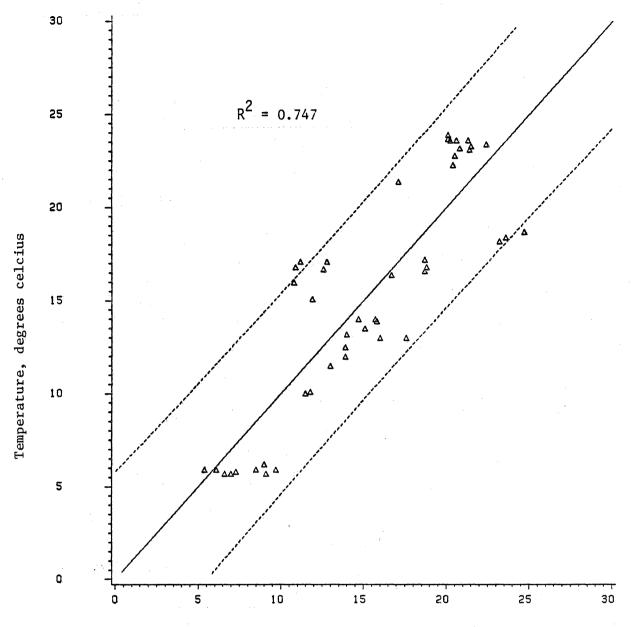


Figure 5.5 Application of Equation 5.3 to 13 Exact Match Points



Predicted Temperature, degrees celcius

Figure 5.6 Application of Equation 5.3 to 46 Point Dataset (Tape 3 Deleted)

(a) Linear Regression of Temperature (Degrees Celcius) versus Model 3 with 90 Percent Confidence Limits

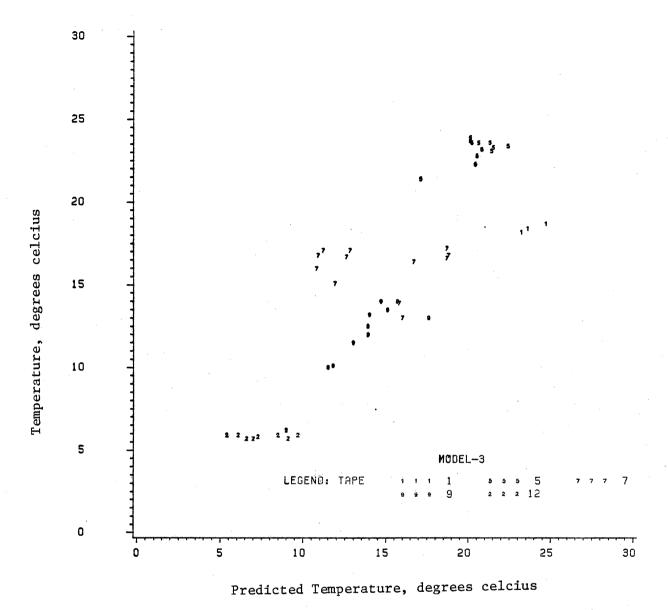


Figure 5.6 Application of Equation 5.3 to 46 Point Dataset (Tape 3 Deleted)

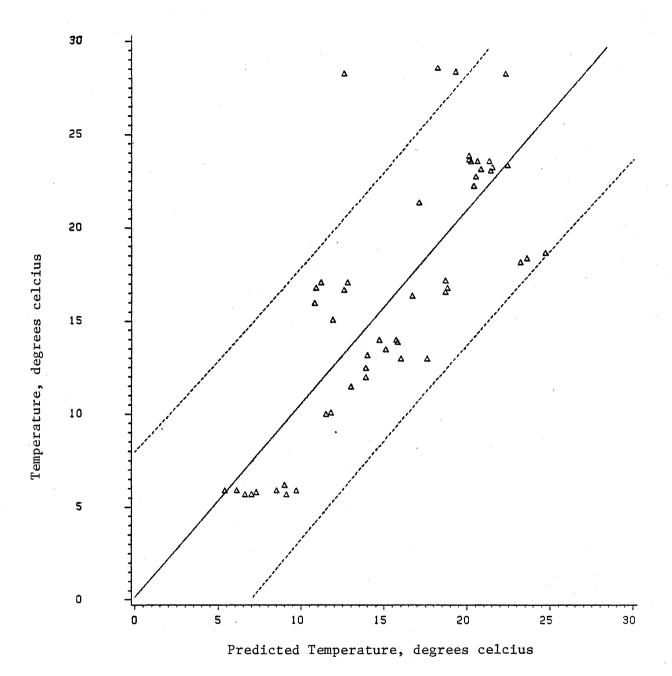


Figure 5.7 Application of Equation 5.3 to 50 Point Dataset

(a) Linear Regression of Temperature (Degrees Celcius) versus Model 3 with 90 Percent Confidence Limits

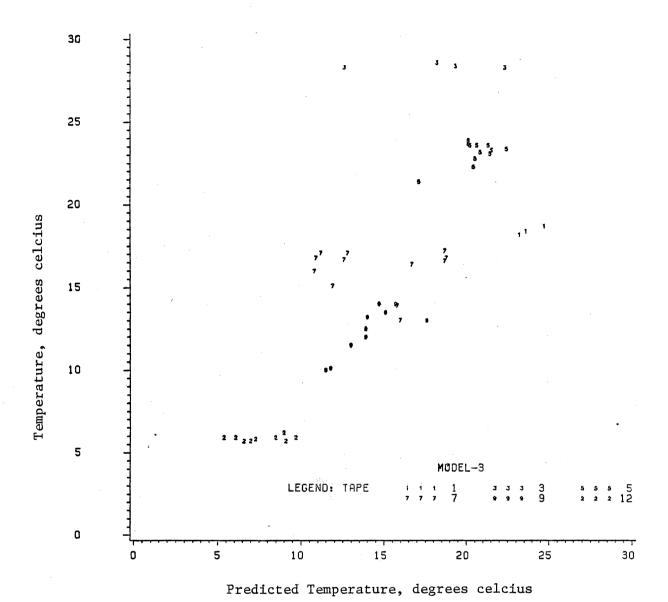
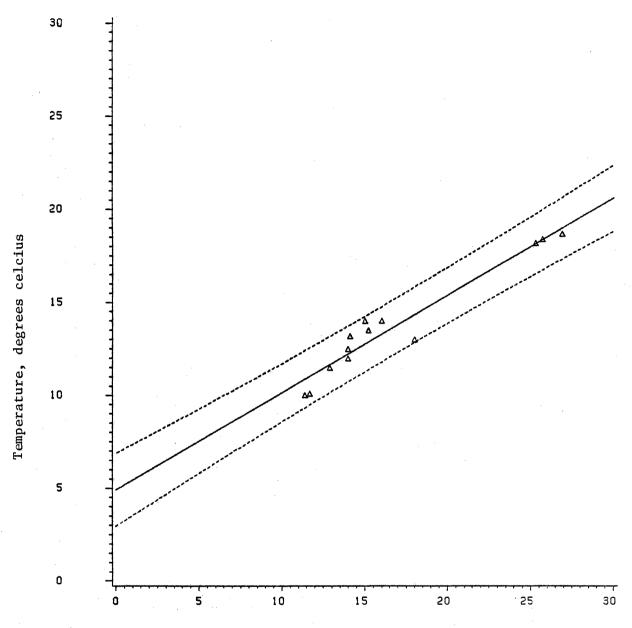


Figure 5.7 Application of Equation 5.3 to 50 Point Dataset



Predicted Temperature, degrees celcius

Figure 5.8 Application of Equation 5.4 to 13 Exact Match Points

(a) Linear Regression of Temperature (Degrees Celcius) versus Model 4 with 90 Percent Confidence Limits

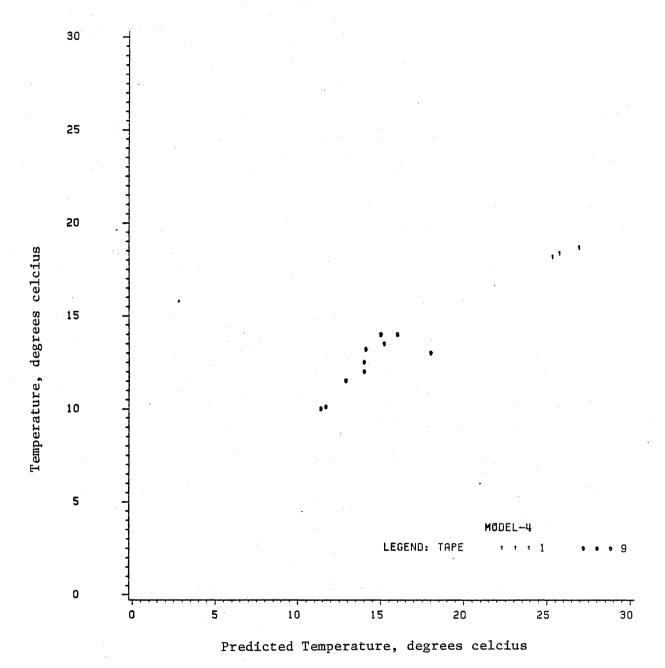


Figure 5.8 Application of Equation 5.4 to 13 Exact Match Points

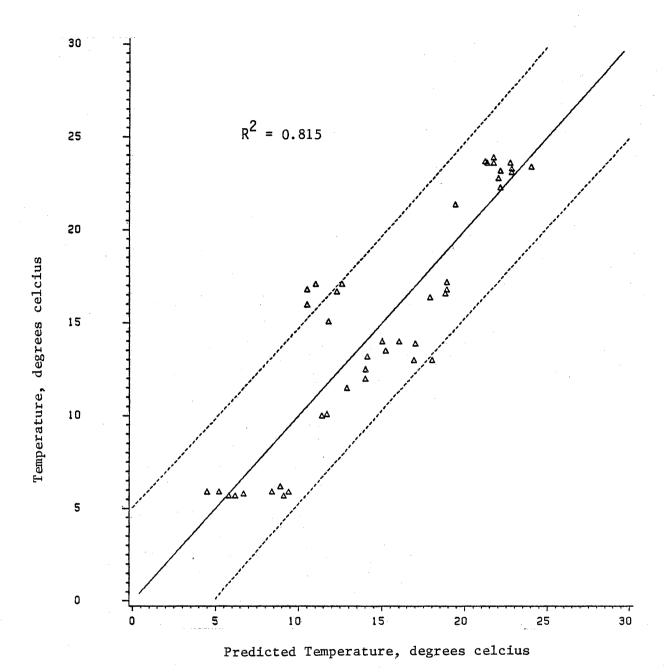


Figure 5.9 Application of Equation 5.4 to 43 Point Dataset (Tapes 1 and 3 Deleted)

(a) Linear Regression of Temperature (Degrees Celcius) versus Model 4 with 90 Percent Confidence Limits

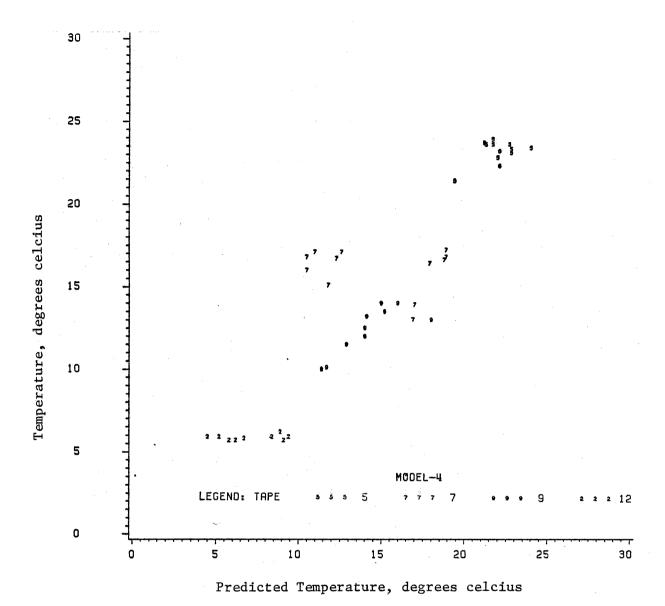


Figure 5.9 Application of Equation 5.4 to 43 Point Dataset (Tapes 1 and 3 Deleted)

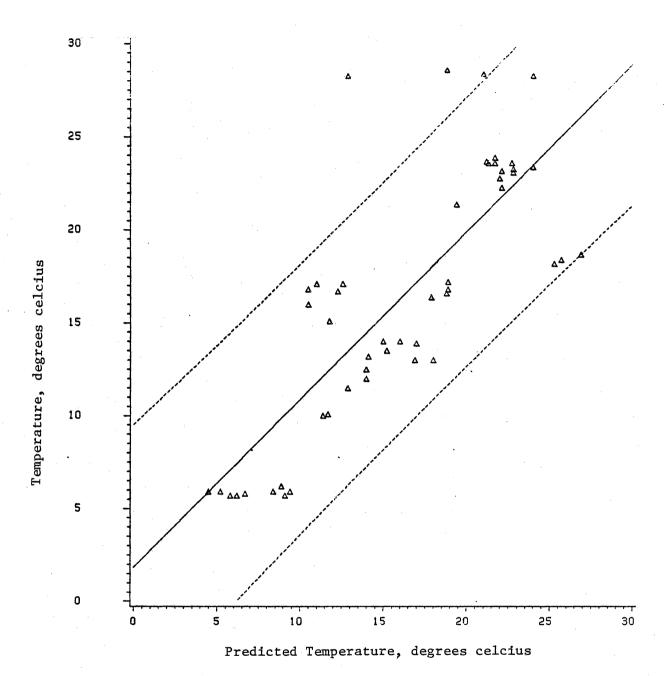


Figure 5.10 Application of Equation 5.4 to 50 Point Dataset

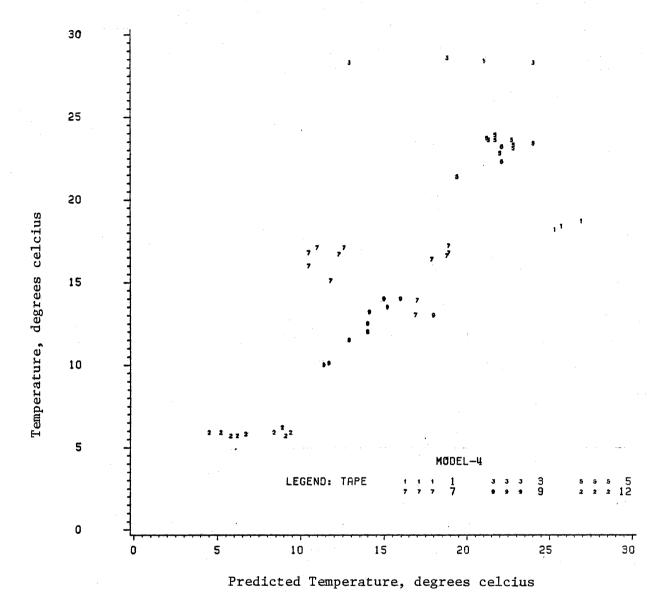
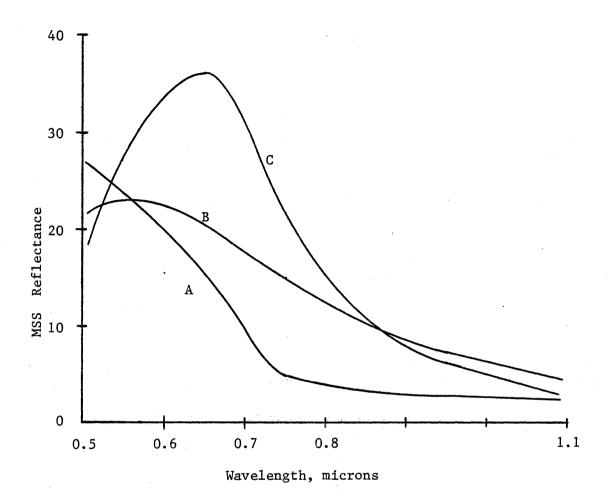


Figure 5.10 Application of Equation 5.4 to 50 Point Dataset

(a) Linear Regression of Temperature (Degrees Celcius) versus Model 4 with 90 Percent Confidence Limits

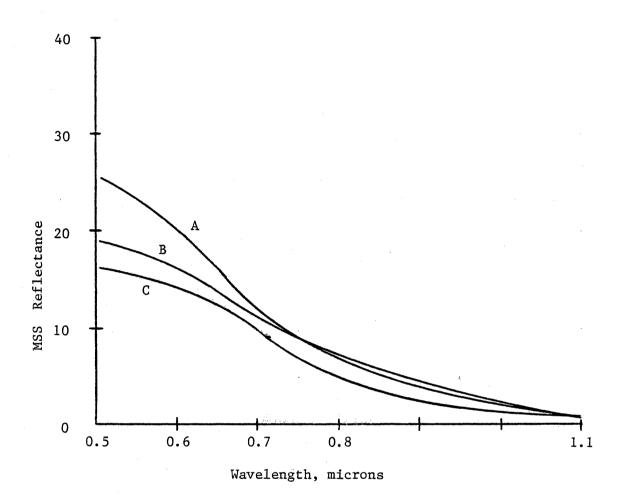


A: TSS = 4.3 ppm, T = 18.7 degrees celcius

B: TSS = 5.6 ppm, T = 18.4 degrees celcius

C: TSS =19.2 ppm, T = 21.4 degrees celcius

Figure 6.1 Effect of Total Suspended Solids in Kerr Reservoir on Irradiance Detected by Landsat MSS



A: T = 18.2 degrees celcius, TSS = 4.4 ppm

B: T = 23.6 degrees celcius, TSS = 4.0 ppm

C: T = 28.6 degrees celcius, TSS = 3.6 ppm

Figure 6.2 Effect of Temperature in Kerr Reservoir on Irradiance Detected by Landsat MSS

APPENDIX A

Kerr Reservoir Field Data

APPENDIX A

					D	ATE=30APR	81				
BUOY	TRIP	TIME	DEPTH_FT	TEMP_C	CURDIR	VELOCITY	CLICKS	ATDEGC	MINWIND	MAXWIND	XSECTN
100	1				•	•			•	•	1
24	1	1345	1.5	20.50	112	11.066	11	•	•	•	1
24	1	1345	5.0	20.50	110	10.060	10	•	•	•	1
24	1	1345	10.0	20.00	90	10.060	10	•	•	•	1
24	1	1345	15.0	17.75	350	9.054	9		•	•	1
22	1	1120	2.0	20.50	140	16.096	1 <u>6</u>	•	•	•	1
22 22	1	1120	5.0	20.00	15	7.042	10 9 16 7 5 4 6 3 0	•	•	•	. 1
22	1	1120	10.0	19.00	255	5.030	5	•	•	•	1
22	1	1120	15.0	17.00	205	4.024	4	•	•	•	1
22	1	1120	20.0	15.70	235	6.036	6	•	•	•	1
22	1	1120	25.0	15.20	305	3.018	3	•	•	•	
20	1	1010	1.0	20.00	0	0.000	10	•		• .	!
20	1	1010	10.0	19.75	0	10.060	10	•	•	•	1
20	1	1010	20.0	16.50	30	0.000	0	•	•	•	. 1
18	1	1500	5.0	20.00	140	19.114	19 9 2 5	•	•	•	1
18	1	1500	10.0	19.50	105	9.054	9	•	•	•	1
18	1	1500	15.0	17.20	50	2.012	2	•	•	•	4
18	1	1500	20.0	16.00	325	5.030	2	•	•	. •	1
18	1	1500	25.0	15.90	17 0	14.084	14	21.8	•	•	i
15 15	1	1600	5.0	20.10 19.20	188	3.018	3	21.8	•	•	i
12	1	1600 1600	10.0 15.0	17.20	225	1.006	1	21.8	•	•	i
15 15 15 15 11	1 1	1600	20.0	16.50	260	0.000	ò	21.8	•	•	i
15	;	1600	25.0	16.00	278	1.006	1	21.8	•	•	i
15	i	1600	30.0	15.80	292	1.006	i	21.8	•	•	i
11	i	1700	5.0	18.20	60	16.096	16		•	-	i
ii	i	1700	10.0	17.80	65	12.072	12	•	-	•	1
ii	i	1700	15.0	16.50	90	4.024	4	•		•	1
ii	i	1700	20.0	16.20	142	0.000	ó	•	•	•	1
ii	i	1700	25.0	15.60	205	6.036	6				1
ii	i	1700	30.0	15.20	195	8.048	4 0 6 8				1 -
ii	i	1700	35.0	14.90	205	0.000	Ō	•	•	•	1
ii	i	1700	40.0	14.50	155	4.024	0 4		•	•	1
ii	i	1700	45.0	14.00	150	0.000	0	•	•	•	1
ii	i	1700	50.0	13.20	105	2.012	2	•	•	•	1
ii	- 1	1700	55.0	12.20	60	11.066	11	•	•	•	1
11	1	1700	60.0	11.80	45	12.072	12	•	•	•	1
11	1	1700	66.0	11.60							1

					D/	ATE=01MAY	31				
BUOY	TRIP	TIME	DEPTH_FT	TEMP_C	CURDIR	VELOCITY	CLICKS	ATDEGC	MINWIND	MAXWIND	XSECTN
8	1	835	5	18.2	248	18.108	18		•	• .	1
8	1	835	10	18.0	265	9.054	9	•	•	•]
8888888855555555333333333	1	835	15	18.0	245	5.030	9 5 1	•	•	•	1
8]	835	20	17.7	235	1.006		•	•	•	1
8	1	835	30	15.6	205 130	5.030 4.024	5 4	•	• '	•	. 1
B .	1 1	835 835	40 50	15.0 13.9	97	4.024	4	•	•	•	1
O.	1	835	60	12.8	75	1.006	1	•	•	•	1
Š	i	945	5	18.1	260	11.066	11	15.5	•	•	i
5	i	945	10	18.0	265	10.060	10	15.5		•	1
5	i	945	15	18.1	270	8.048	- 8	15.5	•	•	1
5	i	945	20	17.9	295	4.024	4	15.5	•	•	1
5	1 .	945	30	16.4	150	7.042	7	15.5	•	•	1
5	1	945	40	15.2	97	10.060	10 5 3	15.5	•	•	1 .
5	1	945	50	13.2	55	5.030	5	15.5	•	•	1
5	1	945	60	11.8	260	3.018	3	15.5	•	•	1
3	1	1100	5	19.5	290	9.054	9 7	•	•	•	1
3	1	1100	10	19.1	245	7.042	3	•	•	•	1
3	1	1100		18.8	200 110	3.018	3 14	•	•	•	1
3	1	1100 1100	20 30	17.5 15.9	125	14.084 3.018	3	•	•	•	1
3. 2	1	1100	40	15.2	180	1.006	1.	•	•	•	i
3	i	1100	50	13.0	283	1.006	i	•	•	•	i
3	i	1100	60	11.8	80	0.000	Ó	•			1
Ď	i	1153	5	18.7	262	3.018	3	•	•	•	1
Ď	1	1153	10	18.7	200	10.060	10	•		•	1
D	1	1153	15	18.1	180	7.042	7		•		1
D	1	1153	20	17.4	•	•	•	•	•	• •	1
G	1	1320	5	18.2	•	•		•	•	•	1
Ģ	1	1320	10	17.1	•	•	•	•	•	• .	1
G	1	1320	15	17.0	•	•	•	• ·	•	•	1
Ğ.	1	1320	20	16.5	•	•	•	•	•	•	1
G	1	1320	30	15.5 14.6	•	•	•	•	•	•	1
G G	1	1320 1320	40 50	13.5	•	•	•	•	•	•	i
K	i	1250	50 5	18.4	215	10.060	10	•	•	•	i
ĸ	i	1250	10	17.6	270	4.024	.4	•	•	·	1
÷κ	i	1250	15	16.3	325	12.072	12		•	•	, 1
ĸ	i	1250	20	16.0	308	10.060	10	•	•	•	1
Ŕ	i	1250	30	15.1	300	23.138	23	•	•	•	1
K	i	1250	40	14.2	•		•	•	•	•	1

					D	ATE=18MAY	31					,
BUOY	TRIP	TIME	DEPTH_FT	TEMP_C	CURDIR	VELOCITY	CLICKS	ATDEGC	MINWIND	MAXWIND	XSECTN	
100 24 24 24	2 2 2 2	835 835 835	5 10 15	21.0 20.2 19.8	305 263 173	7.042 0.000 4.024	7 0 4	16.8 16.8 16.8	•	•	1 1 1 1	
24 22 22	2 2	835 1000 1000	17 5 10 15	19.3 20.5 20.0	270 30	6.036 2.012	6 2	16.8	•	•	1 1 1	
22 20 20 20	2 2 2	1000 1140 1140 1140	5 10 15	19.0 20.0 19.8 19.5	240 165 250	2.012 1.006 2.012	2 1 2	:	•	:	1 1 1	
20 20 18 18	2 2 2	1140 1140 1230 1230	20 21 5 10	18.5 18.3 19.8 19.6	135 175 140	0.000 3.018 4.024	3 4	:	•	:	1 1 1	
18 18 18 15	2 2 2	1230 1230 1230 1345	15 20 25 5	19.0 18.5 17.8 19.2	125 65 60	6.036 5.030 5.030	6 5 5 3	•	•	•	1 1	
15 15 15 15	2 2 2 2	1345 1345 1345 1345		19.0 18.8 18.2 17.5	130 165 145 105	3.018 1.006 4.024 5.030	3 1 4 5	•	•	•	1 1	
15 11 11 11	2 2 2 2	1345 1430 1430 1430	30 5 10 15	16.0 19.5 19.0 18.6	45 60 130	2.012 5.030 4.024	2 5 4	16.5 16.5 16.5	• •	0 0 0	1 1 1	
11 11 11 11	2 2 2 2	1430 1430 1430 1430	20 30 40 50	18.1 16.9 15.0 14.0	195 195 60 45	7.042 5.030 14.084 22.132	7 5 14 22	16.5 16.5 16.5 16.5	•	0 0 0	1 1 1	
11 11 8 8	2 2 2 2	1430 1430 1530 1530	60 62 5 10	13.1 12.9 19.2 19.0	45 55 110	0.000 2.012	22 0 2 2	16.5 16.5	:	0 0	1 . 1 . 1	
8 8 8	2 2 2	1530 1530 1530 1530	15 20 30 40	18.8 18.1 17.5 15.5	30 100 45 60	2.012 2.012 1.006 8.048	2 1 8	:	• • •	•	1 1 1	
8 5 5	2 2 2 2	1530 1530 900 900	50 56 5 10	14.1 13.8 18.9 19.0	65 315 80	8.048 2.012 4.024	8 2 4	•	•	•	1 1 1	
8855555555	2 2 2 2	900 900 900 900	15 20 30 34	19.0 19.0 18.1 17.0	40 305 15 120	5.030 10.060 15.090 23.138	5 10 15 23	•	•	•	1 1 1	
5 5 5	2 2 2	900 900 900	40 50 60	15.5 13.6 12.2	105 120 45	16.096 2.012 0.000	16 2 0	•	•	•	1 1 1	

	DATE=19MAY81											
BUOY	TRIP	TIME	DEPTH_FT	TEMP_C	CURDIR	VELOCITY	CLICKS	ATDEGC	MINWIND	MAXWIND	XSECTN	
3	2	1330	5	17.7	105	6.036	6				1	
3	222222222222222222222222222222222222222	1330	10	17.8	120	11.066	11	•	•	•	i	
3	2	1330	15	17.8	110	9.054	ġ	•	•		i	
3	ž	1330	20	17.8	75	13.078	13	•	•	•	1	
3	2	1330	30	14.8	90	8.048	8	•	•	•	1	
3	2	1330	40	14.0	35	6.036	6	•	•		1	
3	2	1330	50	12.2	90	8.048	8		•	•	1	
3	2	1330	56	11.2	•	•			•	•	1	
D	2	1230	5	17.2	175	8.048	8		•	•	1	
D	2	1230	10	17.3	275	14.084	14	•	•	•	1	
D	2	1230	15	17.5	195	7.042	7	•	•	•	1	
D	2	1230	18	17.3	•	•	•	•	•	•	1	
G G	2	1115	5	18.2	290	8.048	8	•	•	•	1 .	
G	2	1115	10	18.1	320	10.060	10	•	•	•	1	
G	2	1115	15	18.1	315	11.066	11	۰	•	•	1	
G	2	1115	20	18.0	295	14.084	14	•		•	1	
G G G	2	1115	30	18.0	315	13.078	13	•	•		1	
G	2	1115	36	16.8	15	16.096	16	•	•	•	1	
G -	2	1115	40	15.8	345	14.084	14	•	•	•	1	
G	2	1115	50	15.5	•	•	•	•	•	•	1	
K	2	1000	5	18.9	180	17.102	17	•	•	•	1	
K	2	1000	10	19.0	150	15.090	15	•	•	•	7	
K	2	1000	15	19.0	135	8.048	8	•	•	•	1	
K	2	1000	20	19.0	90	8.048	8	•	•	•	1	
K	2	1000	30	18.2	15	8.048	8	•	•	•	7	
K	2	1000	40	17.2	•	•	•		•	•	1	

						D/	ATE=24JUN8	31				
BUOY	TRIP	TIME	DEPTH_	FT	TEMP_C	CURDIR	VELOCITY	CLICKS	ATDEGC	MINWIND	MAXWIND	XSECTN
100	3	845	5		28.8	165	25.150	25	75	•	5.0	1
24	3	1000			28.4	310	11.066	11	•	0 .	0.0	1
24	3	1000	10		28.2	335	1.006	1	•	0	0.0	1
24	3	1000	15		28.0	235	3.018	3. 3	•	0 0	0.0 2.5	1
22 22	3 3	1130 1130	5 10		28.4 28.2	345 290	3.018 2.012	2	• .	ő	2.5	i
22 22	3	1130	15		28.0	260	11.066	11	•	ŏ	2.5	i
20	3	1200	5		28.8	15	15.090	15	•	ŏ	10.0	i
20	3	1200	10		28.6	30	7.042	7	•	0	10.0	1
20	3	1200	15		28.2	160	8.048	8	•	0	10.0	1
20	3	1200	20		26.5	175	20.120	20	•	0	10.0	1
18	3	1815	5		29.7	285	6.036	6	•	•	7.0	1
18	3	1815	10		29.0	20	11.066	11 6	•		7.0 7.0	1
18 18	3	1815 1815	15 20		28.6 28.0	180	6.036	0	•	. •	7.0	i
15	3	1330	5		28.9	25	17.102	17	•	•	0.0	i
15	3	1330	10		28.6	330	12.072	12			0.0	1
15	3	1330	15		27.9	45	11.066	11			0.0	1
15	3	1330	20		26.0	100	9.054	9		•	0.0	1
15	3	1330	30		22.8	195	8.048	8	•	• '	0.0	1
15	3	1330	33		22.0	155	4.024	4	92	. •	0.0 2.5	1
11	3	1420 1420	5 10		30.0 29.8	210 270	12.072 14.084	12 14	92 92	•	2.5	1
11 11	3 3	1420			29.0	210	21.126	21	92	•	2.5	i
11	3	1420	20		26.8	240	1.006	-i	92	•	2.5	1
ii	3	1420	30		22.0	45	18.108	18	92	•	2.5	1
11	3	1420	40		19.7	40	12.072	12	92		2.5	1
11	3	1420	50		18.2	.60	0.000	0	92	•	2.5	1
11	3	1420	58		17.5	•	11.066	11	92	ò	2.5 2.5	1
8	3	1530	5		29.7 29.2	280 10	0.000	0	•	0	2.5	1
8	3 3	1530 1530	10 15		29.2	30	1.006	1	•	ŏ	2.5	i
8	3	1530	20		25.6	90	4.024	4	•	ŏ	2.5	i
8	3	1530	30		21.2	330	0.000	Ó	•	Ö	2.5	1
8	3	1530	40		18.9	20	4.024	4	•	0	2.5	1
8	3	1530	50		18.0	125	2.012	2	•	0	2.5	1
8855555555	3	1530	56		17.0	•	3.018	3	•	0	2.5	1
5	3	1700	5		29.5	90 135	3.018 11.066	3 11	•	•	6.0 6.0	1
ב	3 3	1700 1700	10 15		29.1 29.0	105	7.042	7	•	•	6.0	i
ラ 5	. 3	1700	20		25.8	165	23.138	23	•	•	6.0	i
5	3	1700	30		20.8	145	17.102	17	•	•	6.0	1
5	3	1700	40		18.5	245	2.012	2 5	•	•	6.0	1
5	3	1700	50		17.7	55	5.030	5	•	•	6.0	1
5	3	1700	57		16.9	•	•		•	•	6.0	1

					D	ATE=25JUN8	31				
BUOY	TRIP	TIME	DEPTH_FT	TEMP_C	CURDIR	VELOCITY	CLICKS	ATDEGC	MINWIND	MAXWIND	XSECTN
3	3	830	5	28.8	45	12.072	12	75	5	7	1
3	3	830	10	28.7	0	11.066	11	75	5	7 7	i
3 .	. 3	830	15	28.7	52	9.054	Ġ	75	ś	7	i
3	3	830	żó	28.4	305	3.018	9 3	75	ś	7	i
3	3	830	22	24.5	005			75	. 5	ż	i
3	3 3	830	27.	23.0	•	•		75	5	7	i
3	3	830	30	20.5	215	9.054	ġ	75 75	5	7	1
3	3	830	40	18.5	170	5.030	5	75	5	7	1
3 3 3 3 3 3 3 D	3	830	50	14.5	180	2.012	9 5 2 6	75 75	555555555	7	1
3	3	830	60	12.5	215	6.036	6	75	5	7	1
	3	930	5	28.5	35	33.198	33	•	•	13	1
D	3	930	10	28.3	35	24.144	24	•	•	13	, 1
D	3	930	15	28.2	20	14.084	14	•	•	13	1
D	3	930	16	28.1	•		. •	•	•	13	1
G	3	1015	5	28.5	27	23.138	23	•	•	10]
Ğ	3	1015	10	28.3	15	20.120	20	•	•	10	1
G	3	1015	15	28.2	15	25.150	25	•	•	10	1
G	3	1015	20	23.9	75	8.048	8	•	•	10	1
G	3	1015	30	19.5	150	2.012	8 2 13	•	•	10	- 1
G	3	1015 1015	40	18.0 17.0	130	13.078 10.060	10	•	•	10 10	1
66666K	3	1015	50 53	16.5	140	10.000	10	•	•	10	1
L L	3	1100	5	28.6	10	15.090	15	•	•		1
ĸ	3	1100	10	28.3	20	27.162	27	•	•	ź	1
ĸ	3	1100	15	26.0	195	19.114	10	• •	•	5	i
ĸ	3	1100	20	24.7	240	7.042	19 7	•	•	5	i
ĸ	3	1100	21	22.5	- 10·		•	•	•	5	1
ĸ	3	1100	22	22.2	•	•	-	•	-	5	i
ĸ	333333333333333333333333333	1100	23	22.0		•	•	•	•	5555555555555	. 1
ĸ	3	1100	24	20.5	•	•	•	•	•	5	.1
ĸ	3	1100	25	20.3	210	11.066	11	•	•	5	1
K	3	1100	30	19.0	195	21.126	21	•	•	5	1
V	3	1100	35	18 3	_					5	1

					D	ATE=16AUG	31				
BUOY	TRIP	TIME	DEPTH_FT	TEMP_C	CURDIR	VELOCITY	CLICKS	ATDEGC	MINWIND	MAXWIND	XSECTN
5	4	1440	20	27.3	345	1.006	1	26.8		9	1 '
5 5 5	4	1440	25	27.3	240	7.042	7	26.8		9	1
5 .	4	1440	30	26.9	290	15.090	15	26.8		9	1
. 5	4	1440	40	25.6	330	14.084	14	26.8		9	1
5 5 5	4	1440	50	20.3	315	8.048	8 /	26.8		9	1
5	4	1440	60	18.3	260	2.012	2	26.8		9	1
3	4	1510	60 2 5	28.1	115	10.060	10	26.8		9 9 2 2 2 2 2 2 2 2	1
3	4	1510	5	28.1	110	6.036	6	26.8		2	1
3	4	151.0	10	27.9	250	13.078	13	26.8		2	1
3	4	1510	15	27.5	175	6.036	6 5 4	26.8		2	1
3	4	1510	20	27.4	320	5.030	5	26.8		2	1
3	4	1510	25	27.3	305	4.024	4	26.8		2	. 1
3	4	1510	30	27.3	295	1.006	1	26.8	•	. 2	1
3	4	1510	40	25.0	85	5.030	5 8 3	26.8		. 2	1
3	4	1510	50	21.1	100	8.048	8	26.8		2	1
3	4	1510	60	18.4	305	3.018	3	26.8	•	2	1
D	4	1540	5	28.6	45	19.114	19		•	0	1
D	4	1540	5	28.0	55	10.060	10	•		0	1
D	4	1540	10	27.6	265	9.054	9	•	•	0	1 -
D	4	1540	15	27.3	245	29.174	29	•		0	. 1
D	4	1540	20	27.2	230	30.180	30	•	•	0	1
D	4	1540	25	27.2	230	28.168	28	•	•	0	1
D	4	1540	30	26.6	250	27.162	27	•		0	1
D	4	1540	40	24.5	235	11.066	11	•	•	0	1

DATE=17AUG81													
BUOY	TRIP	TIME	DEPTH_FT	TEMP_C	CURDIR	VELOCITY	CLICKS	ATDEGC	MINWIND	MAXWIND	XSECTN		
G	4	1040	2.0	27.0	215	21.126	21	20.8	•	20	1		
G	4	1040	5.0	27.0	245	21.126	21	20.8	•	20	1		
G	4	1040	10.0	27.0	185	18.108	18	20.8	•	20	1		
G	4	1040	15.0	27.0	160	9.054	9	20.8	•	20	1		
G G	4	1040	20.0	27.0	250	18.108	18	20.8	•	20	1		
G	4	1040	30.0	25.5	30	9.054	9	20.8		20	1		
G	4	1040	40.0	23.5	45	10.060	10	20.8	•	20	1		
K	4	1115	2.0	27.0	225	23.138	23	21.5	•	15	1		
K	4	1115	5.0	26.8	210	19.114	19	21.5	•	15	1		
K	4	1115	10.0	26.8	215	17.102	17	21.5		15	1		
K	4	1115	15.0	26.8	205	14.084	14	21.5	•	15	1		
K	4	1115	20.0	26.8	290	15.090	15	21.5	•	15	1		
K	4	1115	30.0	26.6	35	20.120	20	21.5	•	15	1		
K	4	1115	32.5	25.5	•	•		21.5		15	1		

~~					D/	ATE=03SEP	31				
BUOY	TRIP	TIME	DEPTH_FT	TEMP_C	CURDIR	VELOCITY	CLICKS	ATDEGC	MINWIND	MAXWIND	XSECTN
12222222222221111111111111111111111111	55555555555555555555555555555555555555	11200 11200	2.250.000000000000000000000000000000000	88519889853188309042119189729120058439145950855012203362509 666666666666666576555476555544331765555443266665544321066655443 2222222222222222222222222222222222	329805550055000555255555555500550055500050500050505000555000555000505	3.018 22.1320 3.018 25.0318 29.0542 11.0630 11.0640 11.0642 11.0642 11.0642 11.0642 11.0642 11.0642 11.0642 11.0642 11.0642 11.0642 11.0642 11.0642 11.0642 11.0642 11.0642 12.0184 12.0184 13.0184 14.0184 16.0184 17.0184	32532973154148968717444404982537394675193.48359717204577117	16666000055555599999988888889999999999999		46666666666655555555555333333338888888888	111111111111111111111111111111111111111

DATE=03SEP81													
BUOY	TRIP	TIME	DEPTH_FT	TEMP_C	CURDIR	VELOCITY	CLICKS	ATDEGC	MINWIND	MAXWIND	XSECTN		
3	5	1820	50.0	22.9	64	4.024	4	24.9		10	1		
3	5 .	1820	53.5	21.8	•	•	•	24.9	•	10	1		
3	5	1820	59.0	20.8	32	2.012	2	24.9		10	1		
D	5	1900	2.0	26.7	285	10.060	10	24.0		7	1		
D	5	1900	5.0	26.8	310	7.042	7	24.0		7	1		
D	5	1900	10.0	26.0	320	4.024	4	24.0	•	• 7	1		
D	5	1900	15.0	24.9	180	6.036	6	24.0		7	1		
D	5	1900	20.0	24.5	195	2.012	2	24.0	•	7	1		
D	5	1900	30.0	24.1	105	3.018	3	24.0	•	7	1		

DATE=04SEP81													
BUOY	TRIP	TIME	DEPTH_FT	TEMP_C	CURDIR	VELOCITY	CLICKS	ATDEGC	MINWIND	MAXWIND	XSECTN		
G	5	1230	2	26.1	285	5.030	- 5	25.3	•	5	1		
G	5	1230	5	26.0	300	9.054	. 9	25.3	•	5	1		
G	5	1230	10	25.8	110	15.090	. 15	25.3	•	5	1		
G	5	1230	15	25.2	45	11.066	11	25.3		5	1		
Ğ	5	1230	20	25.2	110	7.042	7	25.3		5	1		
Ğ	5	1230	25	24.0				25.3		5	1 .		
Ğ	5	1230	30	24.0	10	10.060	10	25.3		5	1		
Ř	5	1305	2	26.7	295	3.018	3	24.9		5	1		
K	5	1305	5	26.5	240	5.030	5	24.9		5	1		
ĸ	5	1305	10	26.0	195	6.036	6	24.9		5	1		
K	5	1305	15	24.8	300	2.012	2	24.9		5	1		
ĸ	5	1305	20	24.1	300	4.024	4	24.9	•	5	1		
ĥ	5	1305	30	23.9	255	4.024	4	24.9	•	<u>5</u> .	1		

					D/	ATE=080CT8	31				
BUOY	TRIP	TIME	DEPTH_FT	TEMP_C	CURDIR	VELOCITY	CLICKS	ATDEGC	MINWIND	MAXWIND	XSECTN
100	6	1200	2.0	16.9	166	11.066	11	16 16	•	14 14	A A
100 100	6	1200 1230	4.5 2.0	16.9 19.0	165	9.054	9	16	•	14	Ĉ
100	6	1215	2.0	15.9	130	12.072	12	16	•	•	1
100	6	1215	5.0	17.1	150	12.072	12	16	•	•	1
24 24	6 6	1250 1250	2.0 5.0	18.1 18.0	135 140	16.096 14.084	16 14	•	•	•	A A
24	. 6	1325	2.0	17.9	180	18.108	18	•	•	:	C
24	6	1340	2.0	20.0	180	16.096	16	•	•	•	D
24 24	6 6	1340 1340	5.0 9.0	19.8 19.5	195 165	10.060 3.018	10 3	•	•	•	D D
24	6	1310	2.0	17.8	180	10.060	10	•	•	6	1,
24	6	1310	5.0	17.8	180	10.060	10	•	•	6	1
24 24	6 6	1310 1310	10.0 12.0	17.8	315	8.048 8.048	· 8 8	•	•	6	1 1
24	6	1310	15.0	17.4	350	15.090	15	:	:	6	i
24	6	1310	18.0	17.4	255	5.030	5	•	•	6	1
22 22	6 6	1415 1415	2.0 5.0	20.0 20.1	160 175	22.132 19.114	22 19	•	•	•	B B
22	6	1415	10.0	19.8	175	9.054	9	:	•	•	В
22	6	1430	2.0	19.4	145	23.138	23	• .	•	•	C
22 22	6 6	1430 1430	5.0 10.0	19.5 19.6	160 155	21.126 17.102	21 17	•	•	•	C C
22	6	1400	2.0	20.8	200	8.048	8		•	12	1
22	6	1400	5.0	20.7	325	8.048	8	•	•	12	1
22	6	1400	9.0	20.1 20.7	285 175	10.060 19.114	10 19	•	•	12	1 A
20 20	6 6	1355 1355	2.0 5.0	19.3	165	16.096	16	•	•	5	Â
20	6	1355	10.0	18.8	80	5.030	5	•	•	5 5 5 5 5 5	Α
20	6	1355	15.0	18.8	20 15	11.066 8.048	11 8	•	•	5	A
20 20	6 6	1355 1355	20.0 25.0	18.8 18.6	5			•	•	5	Â
20	6	1520	2.0	18.7	140	13.078	13	•		•	1
20	- 6	1520	5.0	18.7	95 345	8.048 10.060	8 10	•	•	•	1 1
20 20	6 6	1520 1520	10.0 15.0	18.4 18.2	355	14.084	. 14	•	•	•	i
20	6	1520	20.0	18.2	315	9.054	9	•	•	•	1 .
20	6	1520	25.0	18.1	210 170	11.066	11 8	•	•	•	1 A
18 18	6 6	1550 1550	2.0 5.0	19.9 19.9	175	8.048 6.036	6	•	•		Â
18	6	1550	10.0	19.8	305	12.072	12	•	•	•	Α
18	6	1550	15.0 20.0	19.3 19.2	300 5	7.042 7.042	7 7	•	•	•	A A
18 18	6 6	1550 1550	23.0	19.2	•			•	•	•	Α .
18	6	1630	2.0	19.2	140	18.108	18	•	•	•	C
18	6	1630 1630	5.0 10.0	19.3 19.2	140 185	11.066 9.054	11 9	•	•	•	C C
18 18	6 6	1630	15.0	19.2	255	6.036	6	•	•	•	č
18	6	1630	20.0	19.2	330	8.048	8	•		•	Ç
18	6	1640	2.0	19.4	175	16.096	16	•	•	•	D D
18 18	6 6	1640 1640	5.0 10.0	19.3 19.3	105 115	11.066 7.042	11 7	•	•	•	Ď
18	6	1640	15.0	19.3	80	4.024	4	•	•	•	D -
18	6	1640	20.0	19.3	295	6.036	6	•	•	•	D 1
18 18	6 6	1610 1610	2.0 5.0	19.5 19.4	160 170	14.084 12.072	14 12	•	•	•	1
18	6	1610	10.0	19.3	225	2.012	2	•	•	•	1
18	6	1610	15.0	19.2	255	5.030	5 2	• .	•	•	1
18	6	1610	20.0	19.1	15	2.012	2	•	•	•	1

					D	ATE=080CT8	31				
BUOY	TRIP	TIME	DEPTH_FT	TEMP_C	CURDIR	VELOCITY	CLICKS	ATDEGC	MINWIND	MAXWIND	XSECTN
18	6	1610	25	19.1	240	11.066	11		•		1
18	6 .	1610	30	19.1	230	4.024	4		•	0:	1
15	6	1730	2 5	20.0	175	12.072	12	•		•	Α
15	6	1730	5	20.0	160	12.072	12	•	•	•	Α
15 15	6	1730	10	20.0	155	7.042	7.	•	•	•	Α
15	6	1730	15	20.0	135	7.042		•	•-	•	Α
15	6	1730	20	20.0	210	9.054	7 9 6 6 7	•	•	•	A
15	6	1730	30	20.0	240	6.036	6	•	•	•	Α
15 15 15 15	6 6 6	1730	40	19.8	105	6.036	6	•	•	. •	Α
15	6	1730	44	19.6	120	7.042		•	• .	•	A
15	6	1810	2 5	20.0	140	9.054	9	•	•	Ō	Č.
15	6 6 6	1810	5	20.0	110	11.066	11	•	• .	0	Č
15	6	1810	10	20.1	140	7.042	7	• .	•	0	C
15 15	6	1810		20.0	40	3.018	3	•	•	0	C
15	6	1810	20	20.0	20	14.084	14	•	•	Ò	C
- 15	6	1810	30	20.0	330	8.048	8	•	. •	0	C.
15	6	1810	40	20.0	75	5.030	5	•	•	0	G
15	.6	1840	2 5	20.0	195	10.060	10	•	•	0	ט
15 15	6	1840	5	20.0	210	3.018	3	•	•	0	D.
15	6	1840	10	20.0	225	8.048	8	•	•	. 0	D
15	6 6	1840	15	20.0	15	5.030	3 8 5 6	•	•	0	ט
15	6	1840	20	20.0	325	6.036		. •	•	. 0	ט
15	6	1840	30	19.9	350	0.000	0	•	•	. 0	D
15	6	1750	2 5	20.1	100	10.060	10	•	•	•	1
15	6	1750	5	20.1	145	12.072	12	•	•	•	!
15	6	1750	10	20.1	30	1.006	1	•	•	. •	i 1
15	6	1750	15	20.1	60	5.030	5	•	•	•	1
15	6	1750	20	20.0	290	4.024	4	•	•	•	1
15	6	1750	24	20.0	300	7.042	1	•	•	•	i

					DA	ATE=090CT8	31				
BUOY	TRIP	TIME	DEPTH_FT	TEMP_C	CURDIR	VELOCITY	CLICKS	ATDEGC	MINWIND	MAXWIND	XSECTN
111111111111111111118888888888555555555	\mathbf{c}	1130 1130 1130 1130 1130 1130 1130 11200 1200	2505000042505000082505000062505000082505000002505250505 1123455 1123455 1123455 1123456 112233 1122	20.11.10.00.09.99.99.99.32.11.11.12.22.21.13.32.22.22.11.99.99.99.99.99.99.99.99.99.99.99.99.	210505055505550055005550055000550005500	$\begin{array}{c} 0.0368848484446260440064420688246824420006680034864624420006635.00458640024600000000000000000000000000000000$	06358348941765495950145147513071324125616181742556685576967	16.8 16.8 16.8 16.8 16.8 16.8 16.8 16.8		000000000000000005555555555500000000000	AAAAAAAAAAI111111111111111111111111111

DATE=090CT81													
	BUOY	TRIP	TIME	DEPTH_FT	TEMP_C	CURDIR	VELOCITY	CLICKS	ATDEGC	MINWIND	MAXWIND	XSECTN	
	ĸ	6	1530	2	20.2	270	18.108	18	•	•	0	1	
	K	6	1530	5	19.9	230	7.042	7		•	0	1	
	K	6	1530	10	19.7	20	13.078	13		•	0	1	
	K	6	1530	15	19.7	215	6.036	6			0	1	
	K	6	1530	20	19.6	260	3.018	3			0	1	
	ĸ	6	1530	30	19.4		10 060	10			ń	1	

					D	ATE=15NOV	31				
BUOY	TRIP	TIME	DEPTH_FT	TEMP_C	CURDIR	VELOCITY	CLICKS	ATDEGC	MINWIND	MAXWIND	XSECTN
100 100 24 24 22 22 22	7 7 7 7 7 7	1000 1000 1050 1050 1145 1145	3.0 5.0 2.0 5.0 2.0 5.0 10.0	10.1 10.0 10.0 10.0 12.0 11.5	250 240 345 340 265 345 330	5.030 9.054 8.048 13.078 15.090 8.048 9.054	5 9 8 13 15 8 9	15.5 15.5		14 14 • 3 3	1 1 1 1 1 1
22 20 20 20 20 20 20 18 18 18	7 7 7 7 7 7 7 7	1145 1315 1315 1315 1315 1315 1410 1410 1410	12.0 2.0 5.0 10.0 15.0 20.0 24.0 2.0 5.0	11.0 11.5 11.5 11.5 11.5 11.5 12.5 12.5	10 25 330 0 360 15 210 235 225	12.072 15.090 5.030 10.060 17.102 9.054	12 15 5 10 17 9	:		3 15 15 15 15 15 15 15 15	1 1 1 1 1 1 1 1
18 15 15 15 15 15 15 11 11 11 11	7 7 7 7 7 7 7 7 7 7	1410 1530 1530 1530 1530 1530 1530 1545 1645 1645 1645 1645	15.0 2.0 5.0 10.0 20.0 25.0 2.0 5.0 10.0 15.0 20.0 30.0 40.0	12.5 13.2 13.2 13.2 13.2 13.8 13.8 13.8 13.8 13.8 13.8	90 180 195 270 210 120 180 25 20 290 200 225 45 33 350	19.114 20.120 17.102 10.060 9.054 11.066 10.060 11.066 5.030 14.084 12.072 10.060 5.030 10.060	19 20 17 10 9 11 10 11 5 15 14 12 10 5	10.0 10.0 10.0 10.0 10.0 10.0	12 • • • • • • • • • • • • • • • • • • •	15 18 18 18 18 18 18 7 7 7 7 7 7	1 1 1 1 1 1 1 1 1 1 1
11 85555555555333333333GGGGGGGG	777777777777777777777777777777777777777	1645 1410 1410 1410 1410 1410 1410 1410 1410 1330 1330 1330 1330 1330 1230 1230 1230 1230 1230 1230 1230 1230 1230 1230 1230 1230	55.0 2.00 10.00 15.00 15.00 10.0	13.5 14.0 15.0 16.0	125 135 150 295 295 215 110 275 240 215 220 240 290 125 240 290 125 240 255 240 255 240 255 265 275 275 275 275 275 275 275 275 275 27	17.102 12.072 9.054 8.048 8.048 6.036 6.036 9.054 13.078 12.072 13.078 16.096 23.138 8.048 15.090 18.108 8.048 17.102 11.066 7.042 10.060 5.030 11.066	17 12 9 8 8 6 6 9 13 12 13 16 23 8 15 18 8 17 11 7	16.55 16.55 16.55 16.55 16.55 16.55 16.55	4 10 10 10 10 10 10 10 10 10 	7 12 12 12 12 12 12 12 11 11 11 11 11 11	

K 7 1115 2 K 7 1115 5 K 7 1115 10	13.5 17 12.5 19 12.5 6		2 17	: :	8 8 8	1 1 1
		A CARLO SECTION OF THE SECTION OF TH				
		DATE=15N	0V81			

				D/	ATE=03DEC	31				
BUOY TRIP	TIME	DEPTH_FT	TEMP_C	CURDIR	VELOCITY	CLICKS	ATDEGC	MINWIND	MAXWIND	XSECTN
100 8 100 8 24 8 24 8 24 8 22 8 22 8 22 8 20 8 20 8 20 8 20 8 20	1117 1117 11145 11145 1215 1215 1215 1240 1240 1240 1240 1240	24359350 350 10350 15022	7.0 7.0 7.0 7.0 7.2 7.5 7.8 7.8 7.8 7.8	190 170 210 160 300 285 315 200 210 225 330 335	13.078 8.048 3.018 4.024 4.024 8.048 9.054 11.066 6.036 8.048 22.132 22.132	13 8 3 4 4 8 9 11 6 8 22 22	12.1 12.1	8 8 8 12 12 12 12 12	10 10 10 	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
18 8 18 8 18 8 18 8 18 8	1350 1350 1350 1350 1350	2 5 10 15 20	9.0 9.0 9.0 9.0	105 120 180 55 135	18.108 19.114 20.120 11.066 8.048	18 19 20 11 8	12.0 12.0 12.0 12.0 12.0	•	:	1 1 1 1
18 15 15 15 15 15 15 15 15 11 11 11 11 11	1350	24 2 5 0 5 0 5 0 5 0 5 0 5 0 5 0 5 0 5 0 5	9.8 9.8 9.8 9.8 9.8 10.3 10.6 10.7 11.1 11.1 11.3 11.3 11.3 11.3 11.3 11	145 135 1370 845 995 150 165 185 135 100 110 110 110 110 110 110 110 110 11	16.096 15.0998 9.0544 1.0066 15.0954 9.0530 8.0054 9.054 13.078 3.018 9.054 13.078 13.078 13.078 14.0024 14.0842 14.0842 14.0842 14.0954 15.096 16.096 17.096 17.096 17.096 17.096	.658915995893339383342447879671	12.0			
3 8 D 8 G 8 K 8	•	•	•	•	•	•	•	•	•	1 1 1

					D/	ATE=12FEB	32				
BUOY	TRIP	TIME	DEPTH_FT	TEMP_C	CURDIR	VELOCITY	CLICKS	ATDEGC	MINWIND	MAXWIND	XSECTN
100 100 100 24 24 22 22 22 22 20 20 20 20 20	9999999999999999	1150 1150 1150 1220 1220 1250 1250 1250	2 5 10 2 5 2 5 10 15 20 2 5 10 5 2 5 2 5 2 5 2 5 2 5 2 5 2 5 2 5 2 5	5445555555445554444 545555555445554444	130 120 115 140 125 285 230 115 90 100 245 160 155 85 150	8.048 6.036 6.036 12.072 13.078 1.006 6.036 5.030 11.066 7.042 5.030 7.042 6.036 14.084 12.072 13.078	8 6 6 12 13 1 6 5 11 7 5 7 6 14 12 13	8 8 8		0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	1 1 1 1 1 1 1 1 1 1 1
05555555555555555555555555555555555555	,99999999999999999999999999999999999999	1420 1420 1420 1420 1500 1500 1500 1500 1500 1500 1500 15	·2505050025050000250500002505000025050000250500002505000025050500002505000025050000		10555505050555525000550555005550005555000555500550055550005555	11.066 3.018 6.036 10.060 5.0330 42.012 1.0006 4.0042 2.012 1.0006 4.0048 9.0512 7.0018 9.0012 6.036 6.036 6.036 6.036 4.0024 8.048 1.0006 4.0048 1.0006 8.0016 8.001	1136055422114789273566021264121185783221113			.55555550000000000000000000000000000000	

DATE=12FEB82													
BUOY	TRIP	TIME	DEPTH_FT	TEMP_C	CURDIR	VELOCITY	CLICKS	ATDEGC	MINWIND	MAXWIND	XSECTN		
3	9	1730	50	3.7	130	2.012	2		•	•	1		
3	9	1730	60	3.7	135	1.006	1		•	•	1 .		
D-	9 .	1700	2	3.5	290	7.042	7			•	1		
D	9	1700	5	3.5	280	4.024	4				1		
D	9	1700	10	3.5	310	5.030	5				1		
D	9	1700	15	3.5	205	5.030	5			-	1		
D	9	1700	20	3.4	115	6.036	- 6	_			1		
D	9	1700	30	3.5	45	3.018	3		•	•	1		
D	ģ	1700	40	3.5	35	5.030	Š		•	•	1		
D	9	1700	5ŏ	3.4	80	5.030	5	-	•	•	i		
Ď	ģ	1700	60	3.4	50	1.006	í	•	•	•	i		

					D/	ATE=13FEB8	32				
BUOY	TRIP	TIME	DEPTH_FT	TEMP_C	CURDIR	VELOCITY	CLICKS	ATDEGC	MINWIND	MAXWIND	XSECTN
G	9	1430	2	4.1	165	12.072	12	•	3	5	1
G	9	1430	5	4.1	90	3.018	3	۰	3	5	1
G	9	1430	10	4.1	60	11.066	11	•	3	5	1
G	9	1430	15	4.1	295	9.054	9	•	3	5	1
G	9	1430	20	4.1	300	4.024	4	•	3	5	1
G	9	1430	30	4.1	240	5.030	5		3	5	1
G	9	1430	40	4.1	5	8.048	8		3	5	1
K	9	1345	2	4.6	225	18.108	18	4.9			1
K	9	1345	5	4.6	135	7.042	7	4.9			1
K	9	1345	10	4.6	205	9.054	9	4.9			1
·K	9	1345	15	4.6	255	11.066	11	4.9	•	•	1
K	9	1345	20	4.5	95	11.066	11	4.9			1
K	9	1345	30	4.4	305	2.012	2	4.9	•	•	1
K	9	1345	36	4.4	280	6.036	6	4.9			1

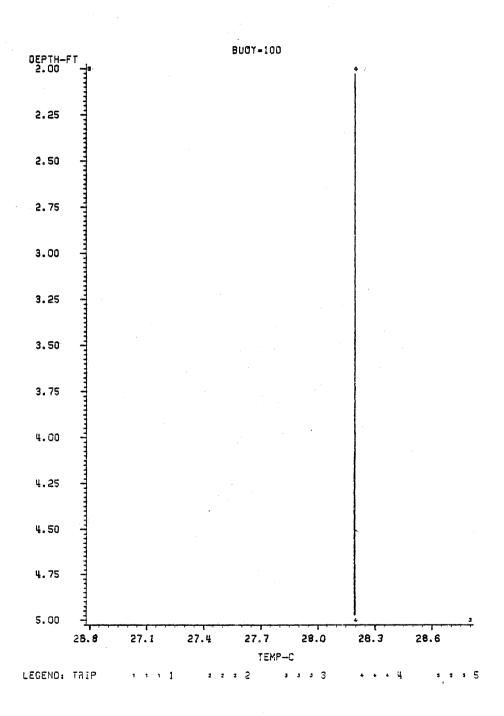
						ATE=02MAR				~	
BUOY	TRIP	TIME				VELOCITY			MINWIND	MAXWIND	XSECTN
11112222222222222211111111111111111111	10 10 10 10 10 10 10 10 10 10 10 10 10 1	1020 1020 1026 1046 1046 1100 1100 11100 1120 1120 1120 1120 11	2502592505052505025052505250525052505250	555555665444776666777766666676666666666	150 1755 1810 1810 1810 1810 1810 1810 1810 18	21.126 21.138 12.108 12.108 12.108 12.109 12.109 12.109 13.108	21342571687502054818661 22112687502054818661 211112687502054818661	7.2 7.2 7.2 8.3 8.3 8.3 8.3 8.3 8.3 11.7 11.7 11.7 11.7 11.7		666666777777111111111888888888855555559999999999	

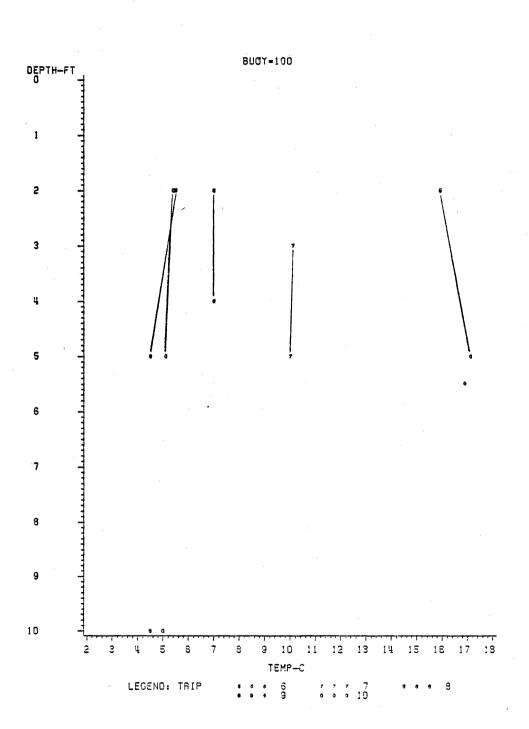
DATE=02MAR82													
	BUOY	TRIP	TIME	DEPTH_FT	TEMP_C	CURDIR	VELOCITY	CLICKS	ATDEGC	MINWIND	MAXWIND	XSECTN	
	3	10	_	2	5.5	185	18.108	18		•	20	1	
	3	10	٠	5	5.3	210	•	•			20	1	
	3	10	•	10	5.4	220	•	•		•	20	1	
	3	10		20	5.3	225	. •		•	•	20	1	
	3	10		30	5.4	230	•		. •	•	20	1	
	3	. 10		40	5.1	250	•	•	•		20	1	
	3	10	•	50	5.0	230		•	•	•	20	1	
	3	10	•	60	5.0	230	•	•	•	•	20	1	
	D	10		•	•	•	•	•	•	•	•	1	
	G	10		•	•	•	•	•	. •.	•	•	1	
	K	10	_		_	_	_	_	_		_	1	

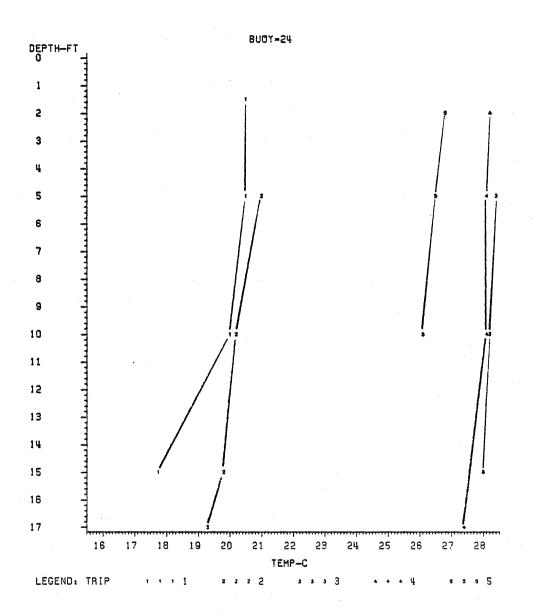
APPENDIX B

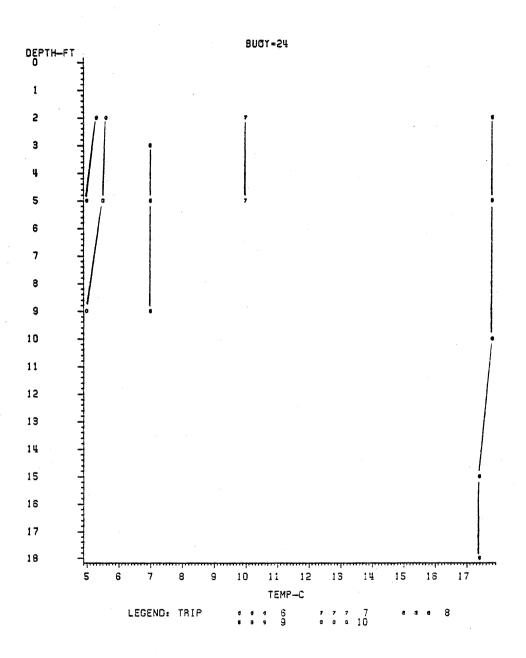
Temperature Plots

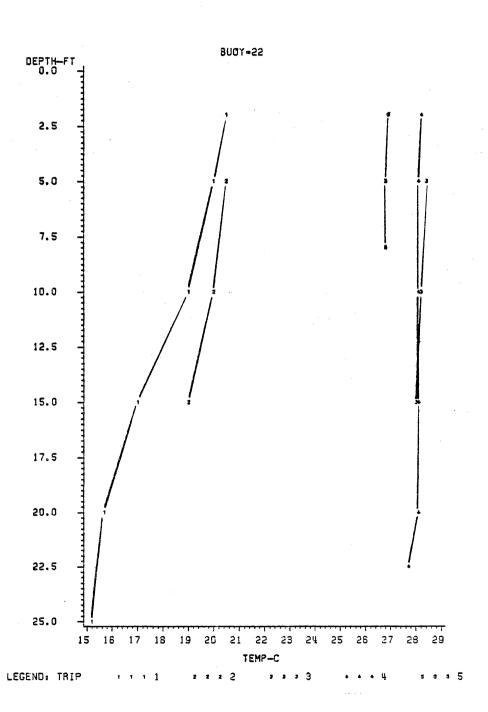
APPENDIX B

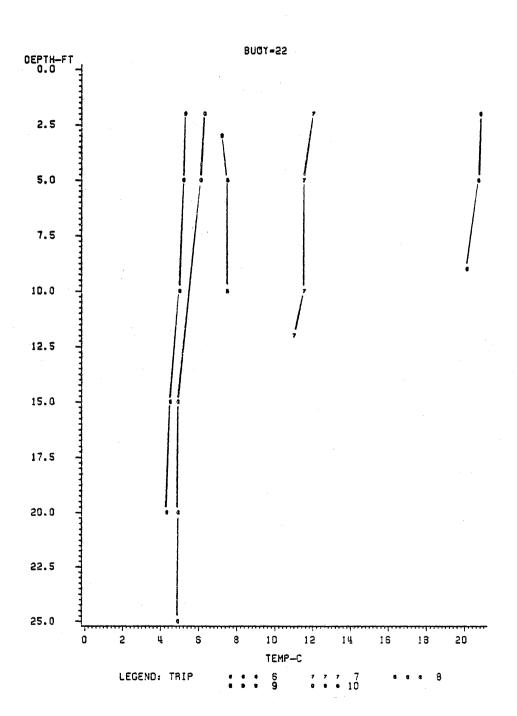


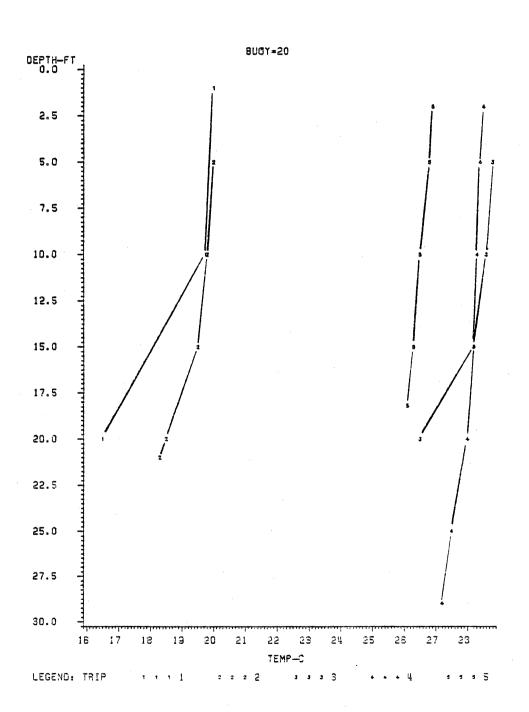


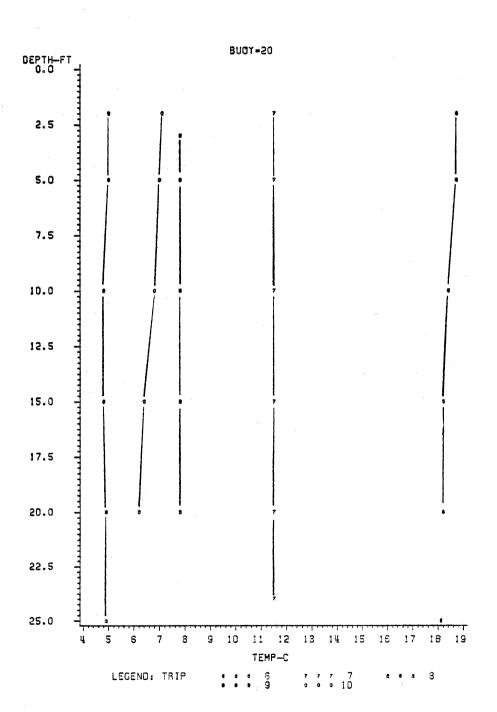


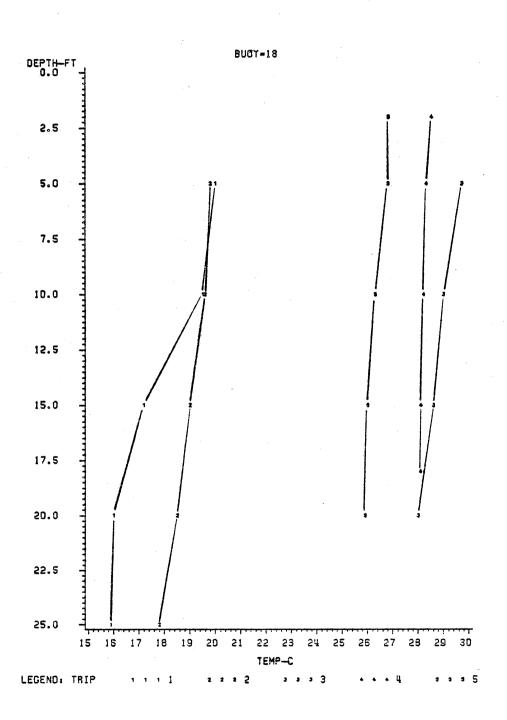


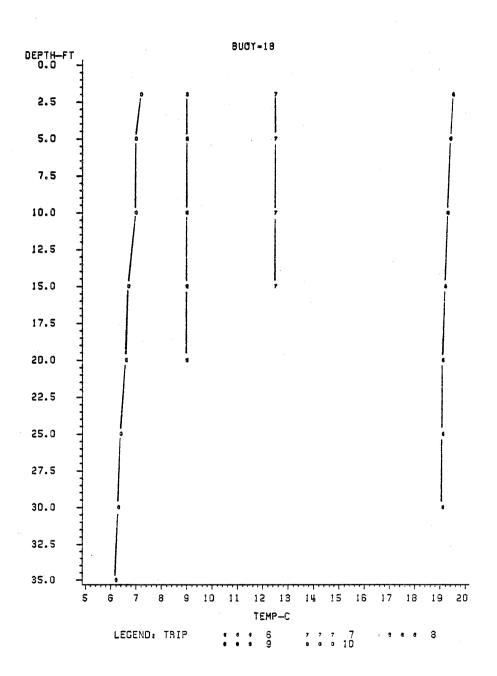


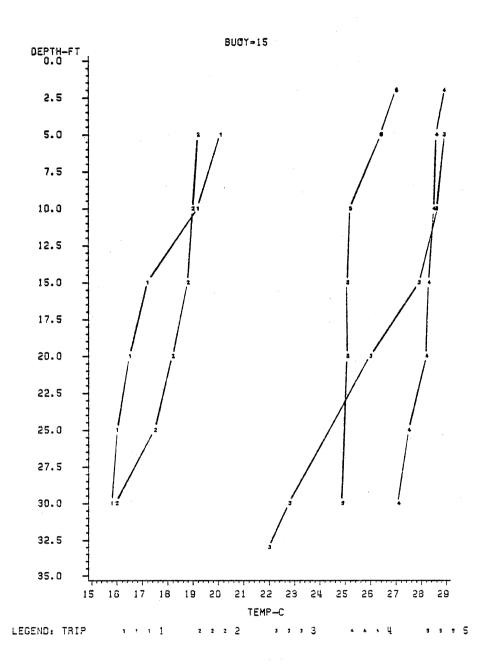


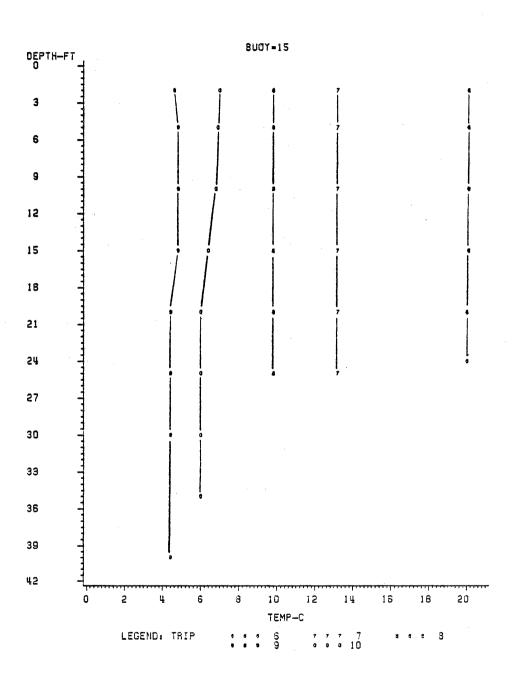


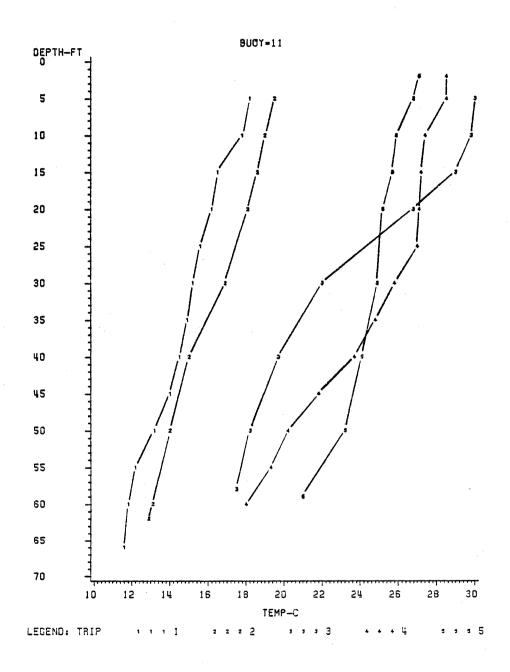


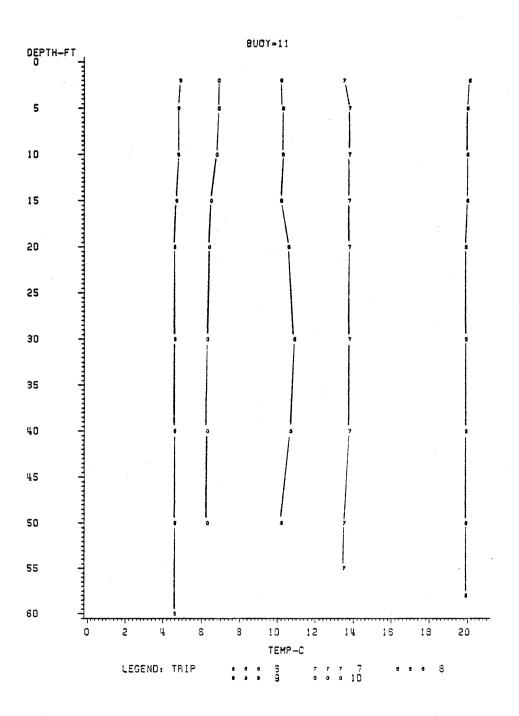


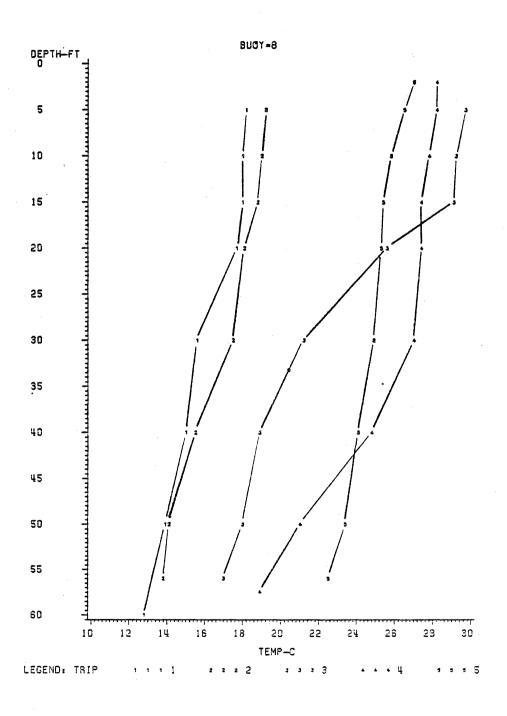


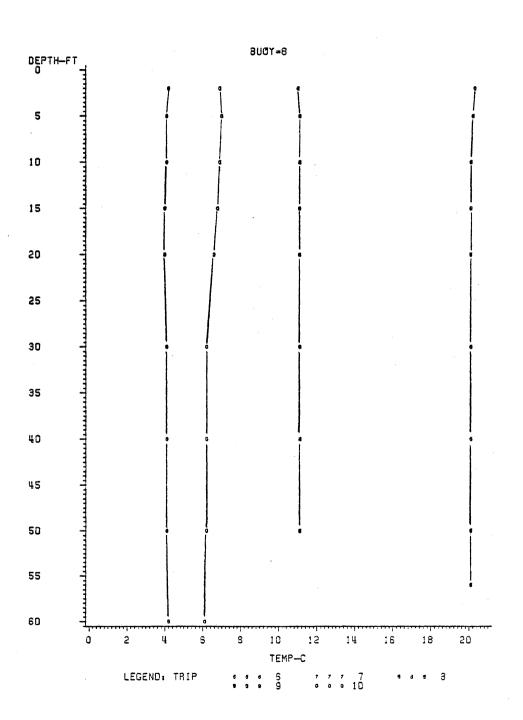


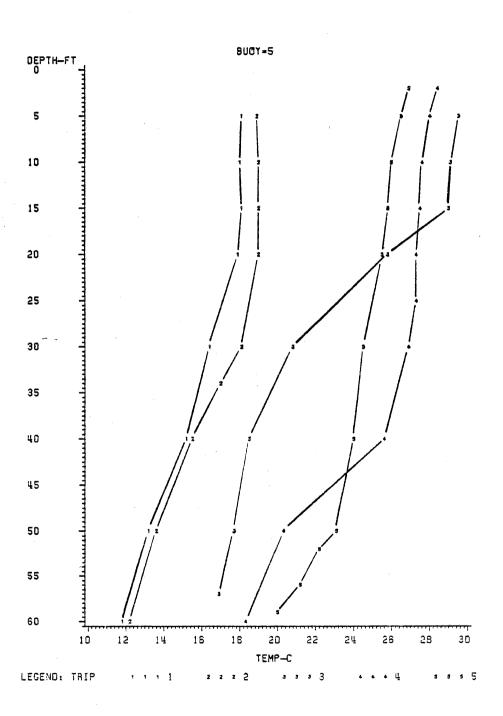


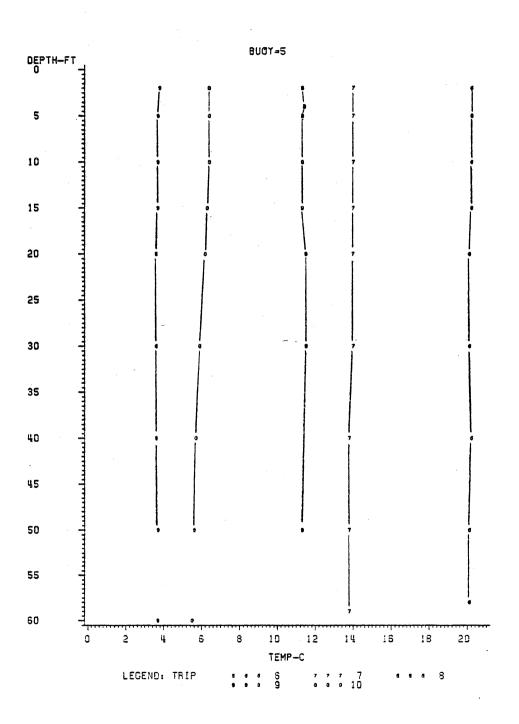


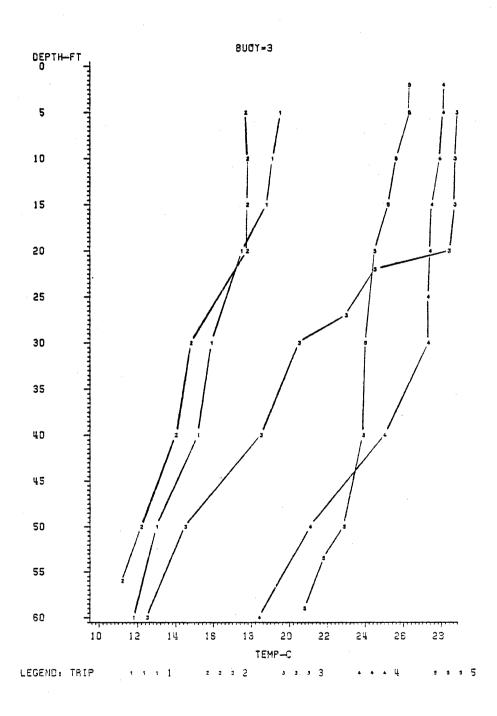


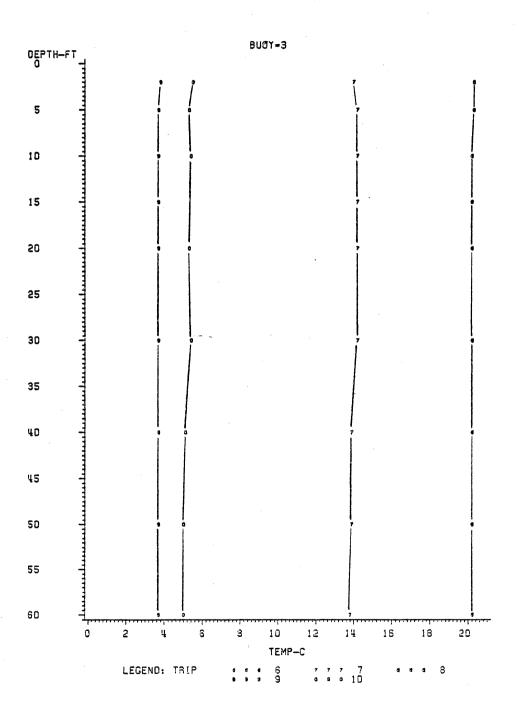


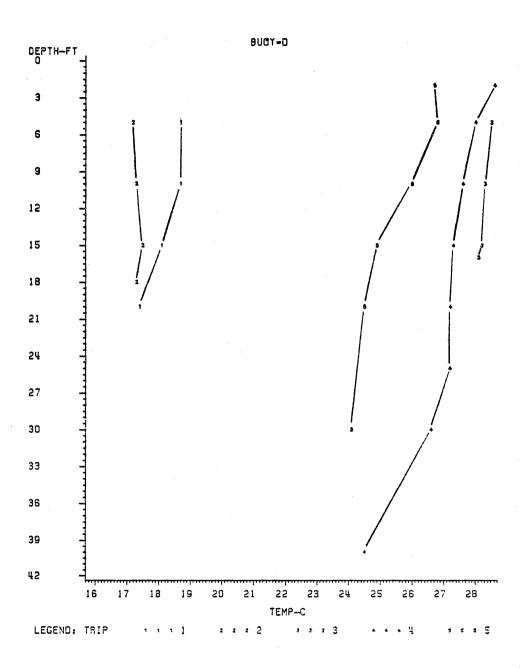


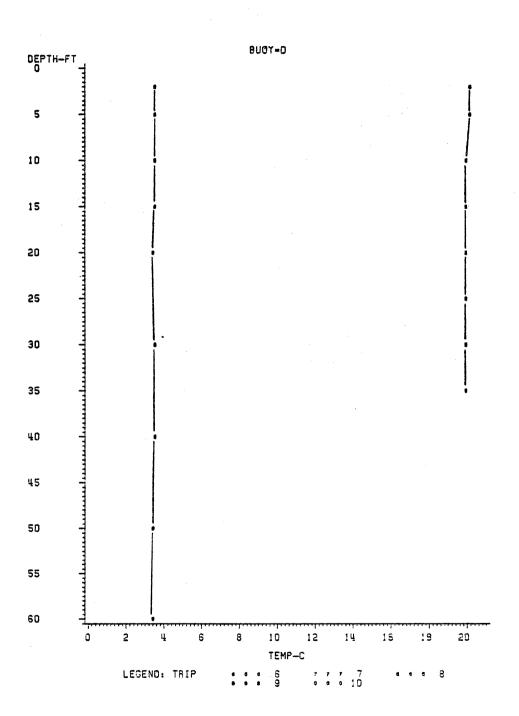


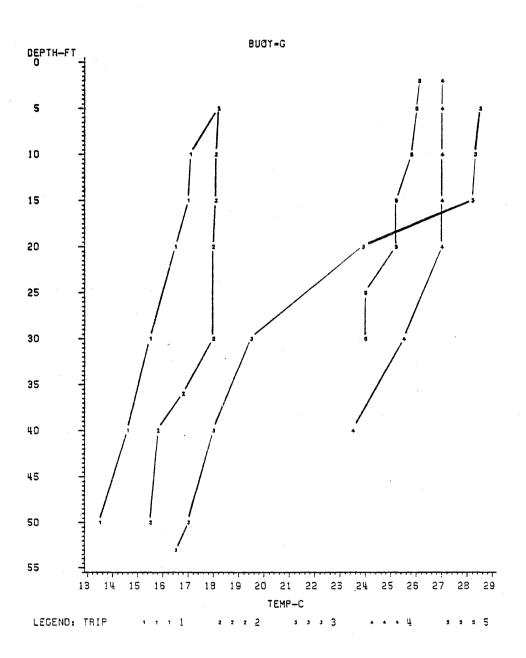


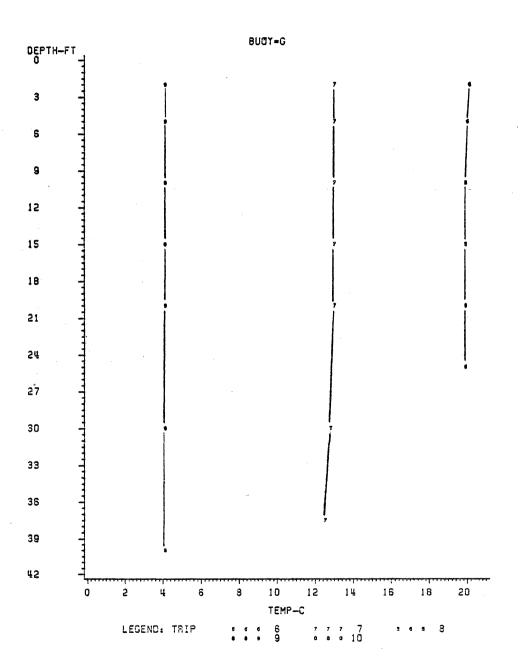




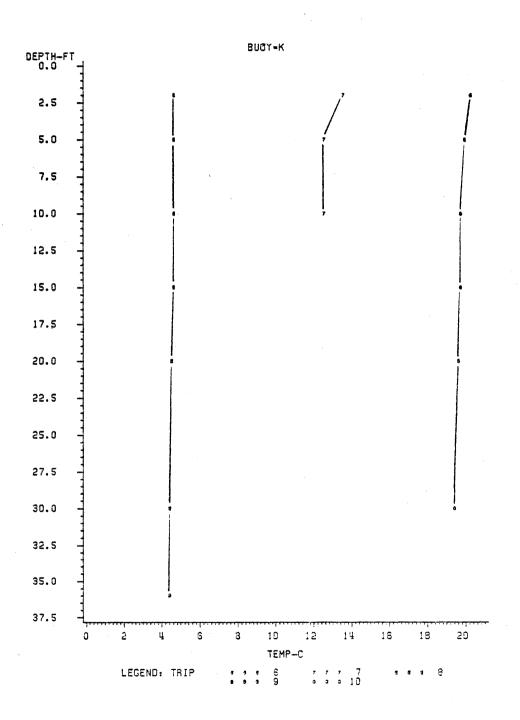












APPENDIX C

Landsat Data Smoothing Program

APPENDIX C

```
C$JOB
                           WATFIV
           INTEGER Z1(5,5),C
DIMENSION Z(5,5)
CHARACTER T*2,S*2,B*1,BU*3
*** *** *** ***
                                                       ***
C###
C QUERY USER FOR CATALOGUEING INFORMATION
       1 WRITE(4,2)
1 WRITE(4,2)
2 FORMAT(1X,'INPUT TAPE NUMBER (RIGHT JUSTIFY, TWO CHARACTERS)')
READ(3,3,ERR=1)T
3 FORMAT(A2)
     9 WRITE(4,10)
10 FORMAT(1X, INPUT LANDSAT BAND (4-7, ONE CHARACTER)')
READ(3,11,ERR=9)B
       6 WRITE(4,7)
7 FORMAT(1X,'INPUT BUOY (LEFT JUSTIFY, 3 CHAR.,FILL IN SPACES)')
READ(3,5,ERR=6)BU
5 FORMAT(A3)
* *** *** *** *** *** *** ***
IF(BU.EQ.'8
                                    ) S= '
           IF(BU.EQ.'5
IF(BU.EQ.'3
                                     )S=' 9'
                                    )S='10'
           IF(BU.EQ.'D
IF(BU.EQ.'G
IF(BU.EQ.'K
*** ***
                                 ')S='11'
')S='12'
')S='13'
C***
                                  ***
C QUERY USER FOR INPUT OF PIXEL REFLECTANCE VALUES (RAW DATA)
     13 WRITE(4,14)
14 FORMAT(1X, 'INPUT FIRST LINE'/1X, 'X XX XX XX')
READ(3,15, ERR=13)(Z1(1,N), N=1,5)
15 FORMAT(12,4(1X,12))
    15 FORMAT(12,4(1X,12))
16 WRITE(4,17)
17 FORMAT(1X, INPUT SECOND LINE'/1X,'X XX XX XX XX')
    READ(3,15,ERR=16)(Z1(2,N),N=1,5)
18 WRITE(4,19)
19 FORMAT(1X, INPUT THIRD LINE'/1X,'X XX XX XX')
    READ(3,15,ERR=18)(Z1(3,N),N=1,5)
20 WRITE(4,21)
21 FORMAT(1X, INPUT FOURTH LINE'/1X,'X XX XX XX')
     DO 205 N=1,5
   Z(M,N)=Z1(M,N)
205 CONTINUE
```

```
200 CONTINUE ***
                          ***
                                  ***
       COMPUTATION OF AVERAGE (SMOOTHING) VALUES
      2
      4
      4
      4
            Z(5,1)+Z(5,2)+Z(5,3)+Z(5,4)+Z(5,5))/25.0
C QUERY USER FOR CORRECTNESS OF DATA BEFORE WRITING TO FILES
   42 WRITE(4,43)T,B,S,BU
43 FORMAT(1X, TAPE ,A2,'
DO 350 M=1,5
                                     BAND ',A1,' STATION ',A2,' BUOY ',A3/)
   WRITE(4,44)(Z1(M,N),N=1,5)
44 FORMAT(5(3X,12)/)
  350 CONTINUE
   WRITE(4,45)
45 FORMAT(1X, IS THE ABOVE CORRECT? ( YES=1 , QUIT=9 , START THIS 8 ONE OVER = 8 )')
   READ(3,46)|
46 FORMAT(|11)
       IF(I.EQ.9)GO TO 90
IF(I.EQ.1)GO TO 299
IF(I.EQ.8)GO TO 65
   WRITE(4,47)
47 FORMAT(1X, INPUT COORDINATES OF INCORRECT POINT (ROW COL)')
  READ(3,48)M,N

48 FORMAT(11,1X,11)

WRITE(4,49)

49 FORMAT(1X, INPUT CORRECT PIXEL VALUE (RIGHT JUSTIFY, 2 CHAR.)')

READ(3,351)Z1(M,N)

351 FORMAT(12)
        GO TO 42
C WRITE TO TWO FILES
```

APPENDIX D

Raw Landsat Data

APPENDIX D

TAPE	1	BAND 4	STATION 11	BUOY D		24	24	25	. 24	24	ROW 1
TAPE	i	BAND 4	STATION 11	BUOY D		25	25	24	22	24	ROW 2
TAPE	i	BAND 4	STATION 11	BUOY D		25	25	23	21	24	ROW 3
TAPE	i	BAND 4	STATION 11	BUOY D		24	24	24	24	24	ROW 4
	i	BAND 4	STATION 11	BUOY D		24	22	23	24	24	ROW 5
TAPE				BUOY G		23	23	23	23	24	ROW 1
TAPE	1	BAND 4			1		23 24	24	24	23	ROW 2
TAPE	1	BAND 4	STATION 12	BUOY G		24					
TAPE	1	BAND 4	STATION 12	BUOY G		23	23	23	23	23	ROW 3
TAPE	1	BAND 4	STATION 12	BUOY G		23	22	23	23	23	ROW 4
TAPE	1	BAND 4	STATION 12	BUOY G		23	22	23	23	23	ROW 5
TAPE	1	BAND 4	STATION 13	BUOY K		23	21	20	22	25	ROW 1
TAPE	1	BAND 4	STATION 13	BUOY K		23	19	19	23	31	ROW 2
TAPE	1	BAND 4	STATION 13	BUOY K		20	19	22	29	36	ROW 3
TAPE	1	BAND 4	STATION 13	BUOY K		1.7	18	25	33	39	ROW 4
TAPE	1	BAND 4	STATION 13	BUOY K		21	24	32	38	44	ROW 5
TAPE	1	BAND 5	STATION 11	BUOY D		17	17	16	16	16	ROW 1
TAPE	1	BAND 5	STATION 11	BUOY D		16	16	16	15	16	ROW 2
TAPE	1	BAND 5	STATION 11	BUOY D		15	16	16	15	16	ROW 3
TAPE	1	BAND 5 BAND 5	STATION 11	BUOY D		16	16	15	15	15	ROW 4
TAPE	1	BAND 5	STATION 11	BUOY D		15	15	15	15	15	ROW 5
TAPE	1		STATION 12	BUOY G		16	17	16	16	16	ROW 1
TAPE	1	BAND 5 BAND 5	STATION 12	BUOY G		16	17	16	16	16	ROW 2
TAPE	i	BAND 5	STATION 12	BUOY G		17	16	16	16	16	ROW 3
TAPE	i	BAND 5	STATION 12	BUOY G		16	15	16	17	16	ROW 4
TAPE	i	BAND 5	STATION 12	BUOY G		16	15	16	17	16	ROW 5
			STATION 12	BUOY K		15	16	14	17	22	ROW 1
TAPE	1	BAND 5				17	14	17	19	30	ROW 2
TAPE	1	BAND 5	STATION 13					-			ROW 2
TAPE	. 1	BAND 5	STATION 13	BUOY K		16	14	20	28	35	
TAPE	1	BAND 5	STATION 13	BUOY K		14	15	21	34	39	ROW 4
TAPE	1	BAND 5	STATION 13	BUOY K		16	20	28	38	45	ROW 5
TAPE	1	BAND 6	STATION 11	BUOY D		10	9	9	9	9	ROW 1
TAPE	1	BAND 6	STATION 11	BUOY D		9	9	9	9	9	ROW 2
TAPE	1	BAND 6	STATION 11	BUOY D		9	9	9	10	. 9	ROW 3
TAPE	1	BAND 6	STATION 11	BUOY D		10	9	10	11	10	ROW 4
TAPE	1	BAND 6	STATION 11	BUOY D		9	8	9	8	9	ROW 5
TAPE	1	BAND 6	STATION 12	BUOY G		10	10	9	10	10	ROW 1
TAPE	1	BAND 6	STATION 12	BUOY G		8	9	9	10	10	ROW 2
TAPE	1	BAND 6	STATION 12	BUOY G		7	7	9.	9	9	ROW 3
TAPE	1	BAND 6	STATION 12	BUOY G		8	9	9	9	9	ROW 4
TAPE	1	BAND 6	STATION 12	BUOY G		8	8	9	10	8	ROW 5
TAPE	1	BAND 6	STATION 13	BUOY K		11	10	10	12	16	ROW 1
TAPE	i	BAND 6	STATION 13	BUOY K		13	10	13	12	24	ROW 2
TAPE	i	BAND 6	STATION 13	BUOY K		11	8	16	21	31	ROW 3
TAPE	i	BAND 6	STATION 13	BUOY K		· 9	10	16	29	33	ROW 4
TAPE	i	BAND 6	STATION 13	BUOY K		13	19	25	35	41	ROW 5
TAPE	i	BAND 7	STATION 11	BUOY D		1	1	- <u>í</u>	ĺ	4	ROW 1
TAPE	i	BAND 7	STATION 11	BUOY D		ż	2	ż	2	3	ROW 2
TAPE	1	BAND 7	STATION 11	BUOY D		3	3	3	3	3	ROW 3
	1	BAND 7	STATION 11	BUOY D		3	3	3	3	3	ROW 4
TAPE	-	BAND 7	STATION 11	BUOY D		2	3	1	3	2	ROW 5
TAPE	1			BUOY G		2	2 3	3	3	1	ROW 1
TAPE	1	BAND 7		BUOY G		3 2 3 3	2	4	2	ź	ROW 2
TAPE	1	BAND 7				3	1	4	1	4	ROW 2
TAPE	1	BAND 7	STATION 12			2	i		3	3	ROW 4
TAPE	1	BAND 7	STATION 12	BUOY G			-	2			
TAPE	1	BAND 7	STATION 12	BUOY G		2	2	2	3	2	ROW 5

TAPE	1	BAND 7	STATION 13	BUOY K	5	3	3	3	5	ROW 1
TAPE	_ i ·	BAND 7	STATION 13	BUOY K	5	4	4	ě	14	ROW 2
TAPE	1	BAND 7	STATION 13	BUOY K	4	4	6	11	21	ROW 3
TAPE	1	BAND 7	STATION 13	BUOY K	4	4	8	18	22	ROW 4
TAPE	1	BAND 7	STATION 13	BUOY K	6	9	16	25	27	ROW 5
TAPE	3	BAND 4	STATION 1	BUOY 100	21	21	20	20	20	ROW 1
TAPE	3	BAND 4	STATION 1	BUOY 100	23	22	22	22	22	ROW 2
TAPE	. 3	BAND 4	STATION 1	BUOY 100	24	24	23	22	25	ROW 3
TAPE	3	BAND 4	STATION 1	BUOY 100	24	24	22	21	23	ROW 4
TAPE	3	BAND 4	STATION 1	BUOY 100	22	22	22	22	23 16	ROW 5 ROW 1
TAPE	3	BAND 4	STATION 2	BUOY 24 BUOY 24	16 16	16 17	16 16	16 16	16	ROW 1
TAPE	3	BAND 4 BAND 4	STATION 2 STATION 2	BUOY 24 BUOY 24	15	15	14	14	14	ROW 2
TAPE TAPE	3	BAND 4 BAND 4	STATION 2 STATION 2	BUOY 24	15	15	14	15	14	ROW 4
TAPE	3	BAND 4	STATION 2	BUOY 24	15	14	14	15	15	ROW 5
TAPE	. 3	BAND 4	STATION 3	BUOY 22	19	19	20	19	19	ROW 1
TAPE	3	BAND 4	STATION 3	BUOY 22	21	19	21	21	21	ROW 2
TAPE	3	BAND 4	STATION 3	BUOY 22	21	20	21	21	21	ROW 3
TAPE	3	BAND 4	STATION 3	BUOY 22	22	22	22	22	22	ROW 4
TAPE	3	BAND 4	STATION 3	BUOY 22	24	23	23	- 25	23	ROW 5
TAPE	3	BAND 4	STATION 4	BUOY 20	15	16	15	15	16	ROW 1
TAPE	3	BAND 4	STATION 4	BUOY 20	15	15	14	14	15	ROW 2
TAPE	3	BAND 4	STATION 4	BUOY 20	15	15	15	16	15	ROW 3
TAPE	3	BAND 4	STATION 4	BUOY 20	15	16	16	16	15	ROW 4
TAPE	3	BAND 4	STATION 4	BUOY 20	16	16	16	16	15	ROW 5
TAPE	3	BAND 5	STATION 1	BUOY 100	21	19	20	19	19	ROW 1
TAPE	3	BAND 5	STATION 1	BUOY 100	22	21	21	21	21	ROW 2
TAPE	3	BAND 5	STATION 1	BUOY 100	24	23	22	22	23	ROW 3
TAPE	3	BAND 5	STATION 1	BUOY 100	24	23	23	24 24	22 22	ROW 4 ROW 5
TAPE	3	BAND 5	STATION 1	BUOY 100 BUOY 24	25 22	24 22	23 20	22	23	ROW 1
TAPE TAPE	3	BAND 5 BAND 5	STATION 2 STATION 2	BUOY 24	20	21	20	21	20	ROW 2
TAPE	3	BAND 5	STATION 2	BUOY 24	20	20	22	21	20	ROW 3
TAPE	3	BAND 5	STATION 2	BUOY 24	22	22	22	22	. 22	ROW 4
TAPE	3	BAND 5	STATION 2	BUOY 24	22	22	22	22	23	ROW 5
TAPE	3	BAND 5	STATION 3	BUOY 22	17	17	18	17	16	ROW 1
TAPE	3	BAND 5	STATION 3	BUOY 22	17	19	19	17	17	ROW 2
TAPE	3	BAND 5	STATION 3	BUOY 22	17	19	19	17	17	ROW 3
TAPE	3	BAND 5	STATION 3	BUOY 22	18	19	20	20	20	ROW 4
TAPE	3	BAND 5	STATION 3	BUOY 22	19	20	22	22	23	ROW 5
TAPE	3	BAND 5	STATION 4	BUOY 20	11	12	11	11	12	ROW 1
TAPE	3	BAND 5	STATION 4	BUOY 20	11	11	11	12	12	ROW 2
TAPE	3	BAND 5	STATION 4	BUOY 20	12	11	12	12	11	ROW 3
TAPE	3	BAND 5	STATION 4	BUOY 20	13	13	13	13	13	ROW 4 ROW 5
TAPE	3	BAND 5	STATION 4	BUOY 20 BUOY 100	14 11	15 11	14 10	13 9	13 13	ROW 5 ROW 1
TAPE	3	BAND 6 BAND 6	STATION 1 STATION 1	BUOY 100 BUOY 100	13	12	13	11	8	ROW 2
TAPE TAPE	3	BAND 6 BAND 6	STATION 1	BUOY 100	13	13	14	14	13	ROW 3
TAPE	3	BAND 6	STATION 1	BUOY 100	12	12	12	12	12	ROW 4
TAPE	3	BAND 6	STATION 1	BUOY 100	13	12	13	13	12	ROW 5
TAPE	3	BAND 6	STATION 2	BUOY 24	13	11	13	14	14	ROW 1
TAPE	3	BAND 6	STATION 2	BUOY 24	12	12	12	11	10	ROW 2
TAPE	3	BAND 6	STATION 2	BUOY 24	12	12	12	11	10	ROW 3
TAPE	3	BAND 6	STATION 2	BUOY 24	13	12	12	12	12	ROW 4
TAPE	3	BAND 6	STATION 2	BUOY 24	13	11	11	12	13	ROW 5

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TAPE	3	BAND 6	STATION	3	BUOY 22	13	12	12	11	9	ROW 1
TAPE	3	BAND 6	STATION	3	BUOY 22	11	12	15	12	11	ROW 2
TAPE	3	BAND 6	STATION	3 .	BUOY 22	11	11	16	14	11	ROW 3
TAPE	3	BAND 6	STATION	3	BUOY 22	13	13	16	16	13	ROW 4
TAPE	3	BAND 6	STATION	3	BUOY 22	13	15	16	16	15	ROW 5 ROW 1
TAPE	3	BAND 6	STATION	4	BUOY 20	6	6	7	6	7	ROW 1 ROW 2
TAPE	3	BAND 6	STATION	4	BUOY 20	6	6	6	6 8	7 7	ROW 2
TAPE	3	BAND 6	STATION	4 4	BUOY 20 BUOY 20	6 7	6 8	6 8	8	7	ROW 4
TAPE	3 3	BAND 6		4	BUOY 20	8	9	10	9	8	ROW 5
TAPE		BAND 6 BAND 7	STATION	1	BUOY 100	2	3	3	2	2	ROW 1
TAPE TAPE	3 3	BAND 7	STATION	1	BUOY 100	4	3	2	2	2	ROW 2
TAPE	3	BAND 7	STATION	i	BUOY 100	4	2	ī	ō	4	ROW 3
TAPE	3	BAND 7	STATION	i	BUOY 100	3	3	i	ž	2	ROW 4
TAPE	3	BAND 7	STATION	i	BUOY 100	ž	3	2	2 3 6	2	ROW 5
TAPE	3	BAND 7	STATION	ż	BUOY 24	ō	2	2	6	3	ROW 1
TAPE	3	BAND 7	STATION	2	BUOY 24	2	2 2 3	2	3	٠1	ROW 2
TAPE	3	BAND 7	STATION	2	BUOY 24	4	3	3	3 2	2	ROW 3
TAPE	3	BAND 7	STATION	2	BUOY 24	3	3	. 1	2	3	ROW 4
TAPE	3	BAND 7	STATION	2	BUOY 24	2 6	2	1	3	3 -	ROW 5
TAPE	3	BAND 7	STATION	3	BUOY 22	- 6	4	7	5 6	3	ROW 1
TAPE	3	BAND 7	STATION	3	BUOY 22	3	3	6	6	6	ROW 2
TAPE	3	BAND 7	STATION	3	BUOY 22	4	4	6	5 6	5 5	ROW 3
TAPE	3	BAND 7	STATION	3	BUOY 22	5 5 2	5	8		<i>5</i>	ROW 4 ROW 5
TAPE	3	BAND 7	STATION	3	BUOY 22	2	7	9	8 1	2	ROW 5 ROW 1
TAPE	3	BAND 7	STATION	4 4	BUOY 20 BUOY 20	1	1	0 1	3	1	ROW 2
TAPE	3	BAND 7 BAND 7	STATION STATION	4	BUOY 20	3	1	1	1	3	ROW 3
TAPE TAPE	3 3	BAND 7 BAND 7	STATION	4	BUOY 20	3	ź	2	ż	ž	ROW 4
TAPE	3	BAND 7	STATION	4	BUOY 20	1	2	2	2	2	ROW 5
TAPE	5	BAND 4	STATION	1	BUOY 100	26	27	25	25	27	ROW 1
TAPE	5	BAND 4	STATION	i	BUOY 100	27	25	25	24	26	ROW 2
TAPE	5	BAND 4	STATION	1	BUOY 100	29	26	27	27	27	ROW 3
TAPE	5	BAND 4	STATION	1	BUOY 100	29	29	29	29	29	ROW 4
TAPE	5	BAND 4	STATION	1	BUOY 100	31	31	28	29	31	ROW 5
TAPE	5	BAND 4	STATION	2	BUOY 24	24	24	22	23	23	ROW 1
TAPE	5	BAND 4	STATION	2	BUOY 24	24	24	22	22	22	ROW 2
TAPE	5	BAND 4	STATION	2	BUOY 24	22	23	21	22	24	ROW 3
TAPE	5	BAND 4	STATION	2	BUOY 24	22	22	21	22	24	ROW 4 ROW 5
TAPE	5	BAND 4	STATION	2	BUOY 24 BUOY 22	24 20	22 20	22 20	19 20	19 20	ROW 5 ROW 1
TAPE	5	BAND 4	STATION	3 3	BUOY 22 BUOY 22	20	19	20	20	20	ROW 2
TAPE	5	BAND 4 BAND 4	STATION STATION	3	BUOY 22	21	20	20	20	20	ROW 3
TAPE TAPE	5 5	BAND 4	STATION	3	BUOY 22	24	24	22	21	21	ROW 4
TAPE		BAND 4		3	BUOY 22	22	22	21	20	21	ROW 5
TAPE	5 5	BAND 4	STATION	ŭ	BUOY 20	18	18	21	21	21	ROW 1
TAPE	5	BAND 4	STATION	4	BUOY 20	20	20	21	21	19	ROW 2
TAPE	5	BAND 4	STATION	4	BUOY 20	20	20	19	19	19	ROW 3
TAPE	5	BAND 4	STATION	4	BUOY 20	. 19	19	19	19	19	ROW 4
TAPE	5	BAND 4	STATION	4.	BUOY 20	19	19	19	19	19	ROW 5
TAPE	5	BAND 4	STATION	5	BUOY 18	18	18	18	18	18	ROW 1
TAPE	5	BAND 4	STATION	5	BUOY 18	19	19	19	19	19	ROW 2
TAPE	5	BAND 4	STATION	5 5 5	BUOY 18	18	18	18	18	18	ROW 3 ROW 4
TAPE	5	BAND 4	STATION		BUOY 18	18	18	18	18	18	
TAPE	5	BAND 4	STATION	5	BUOY 18	18	18	18	18	18	ROW 5

TAPE	6	BAND 4	STATION 6	BUOY 15	18	18	19	19	19	ROW 1
	5						19	18	19	ROW 2
TAPE	5	BAND 4	STATION 6	BUOY 15	20	19				
TAPE	5	BAND 4	STATION 6	BUOY 15	20	19	19	19	19	
TAPE	5	BAND 4	STATION 6	BUOY 15	19	19	20	20	19	ROW 4
TAPE	5	BAND 4	STATION 6	BUOY 15	18	18	19	19	19	ROW 5
TAPE	5	BAND 4	STATION 7	BUOY 11	18	18	19	18	19	ROW 1
TAPE	5	BAND 4	STATION 7	BUOY 11	18	18	19	19	19	ROW 2
TAPE	5	BAND 4	STATION 7	BUOY 11	18	17	18	18	18	ROW 3
TAPE	5	BAND 4	STATION 7	BUOY 11	17	17	18	18	18	ROW 4
TAPE	5	BAND 4	STATION 7	BUOY 11	17	18	18	18	18	ROW 5
	2				18	19	18	18	18	ROW 1
TAPE	5	BAND 4	STATION 8	BUOY 8						ROW 2
TAPE	5	BAND 4	STATION 8	BUOY 8	17	18	18	17	17	
TAPE	5	BAND 4	STATION 8	BUOY 8	17	17	18	17	17	ROW 3
TAPE	5	BAND 4	STATION 8	BUOY 8	16	17	19	18	16	ROW 4
TAPE	5	BAND 4	STATION 8	BUOY 8	17	18	19	18	17	ROW 5
TAPE	5	BAND 4	STATION 9	BUOY 5	18	18	16	16	15	ROW 1
TAPE	5	BAND 4	STATION 9	BUOY 5	18	18	17	17	16	ROW 2
TAPE	5	BAND 4	STATION 9	BUOY 5	18	18	18	18	19	ROW 3
TAPE	5	BAND 4	STATION 9	BUOY 5	17	18	18	18	19	ROW 4
TAPE	· 5	BAND 4	STATION 9	BUOY 5	18	18	18	19	19	ROW 5
			STATION 10	BUOY 3	19	19	16	16	19	ROW 1
TAPE	5 5	BAND 4					18	18	19	ROW 2
TAPE	5	BAND 4	STATION 10	BUOY 3	19	18				
TAPE	5	BAND 4	STATION 10	BUOY 3	19	18	19	19	19	
TAPE	5	BAND 4	STATION 10	BUOY 3	19	19	19	19	19	ROW 4
TAPE	5	BAND 4	STATION 10	BUOY 3	19	19	19	19	19	ROW 5
TAPE	5	BAND 4	STATION 11	BUOY D	20	21	20	20	21	ROW 1
TAPE	5	BAND 4	STATION 11	BUOY D	19	19	20	20	20	ROW 2
TAPE	5	BAND 4	STATION 11	BUOY D	21	21	21	21	20	ROW 3
TAPE	5	BAND 4	STATION 11	BUOY D	20	20	21	20	20	ROW 4
TAPE	5	BAND 4	STATION 11	BUOY D	18	19	20	19	19	ROW 5
TAPE	5	BAND 4	STATION 12	BUOY G	21	20	20	20	18	ROW 1
	2			BUOY G	21	19	19	19	19	ROW 2
TAPE	5	BAND 4	STATION 12			19	19	19	20	ROW 3
TAPE	5	BAND 4	STATION 12	BUOY G	20					ROW 4
TAPE	5	BAND 4	STATION 12	BUOY G	19	18	20	23	21	
TAPE	5	BAND 4	STATION 12	BUOY G	18	20	21	20	19	ROW 5
TAPE	5	BAND 5	STATION 1	BUOY 100	34	33	31	32	36	ROW 1
TAPE	5	BAND 5	STATION 1	BUOY 100	37	35	34	33	35	ROW 2
TAPE	5	BAND 5	STATION 1	BUOY 100	39	37	38	35	35	ROW 3
TAPE	5	BAND 5	STATION 1	BUOY 100	40	38	38	37	36	ROW 4
TAPE	5	BAND 5	STATION 1	BUOY 100	41	38	40	40	39	ROW 5
TAPE	5	BAND 5	STATION 2	BUOY 24	22	22	22	20	22	ROW 1
TAPE	5	BAND 5	STATION 2	BUOY 24	21	21	21	20	21	ROW 2
	5		STATION 2	BUOY 24	21	20	20	20	19	ROW 3
TAPE	2			BUOY 24	22	21	21	21	19	ROW 4
TAPE	5 5	BAND 5	STATION 2	BUOY 24	23	21	22	23	20	ROW 5
TAPE		BAND 5	STATION 2				20	17	19	ROW 1
TAPE	5	BAND 5	STATION 3	BUOY 22	19	20				
TAPE	5	BAND 5	STATION 3	BUOY 22	19	19	21	17	19	ROW 2
TAPE	5	BAND 5	STATION 3	BUOY 22	19	18	21	19	18	ROW 3
TAPE	5	BAND 5	STATION 3	BUOY 22	19	19	19	19	17	ROW 4
TAPE	-5	BAND 5	STATION 3	BUOY 22	19	19	18	19	18	ROW 5
TAPE	5	BAND 5	STATION 4	BUOY 20	18	18	17	15	-15	ROW 1
TAPE	5	BAND 5	STATION 4	BUOY 20	18	17	16	15	15	ROW 2
TAPE	5	BAND 5	STATION 4	BUOY 20	16	16	16	17	17	ROW 3
TAPE	5	BAND 5	STATION 4	BUOY 20	16	16	16	17	17	ROW 4
	5	BAND 5	STATION 4	BUOY 20	16	16	16	16	16	ROW 5
TAPE)	DANU 3	SIATION 4	5001 20	10					

TAPE	5	BAND 5	STATION 5	BUOY 18	13	14	13	13	13	ROW 1
TAPE	5	BAND 5	STATION 5	BUOY 18	13	14	14	14	14	ROW 2
TAPE	5	BAND 5	STATION 5 STATION 5	BUOY 18	14	14	14	14	14	ROW 3
TAPE	5	BAND 5	STATION 5	BUOY 18	14	14	13	14	13	ROW 4
TAPE	- 5	BAND 5	STATION 5	BUOY 18	13	14	13	14	13	ROW 5
TAPE	5	BAND 5	STATION 6	BUOY 15	16	15	14	15	16	ROW 1
	2		STATION 6	BUOY 15	16	15	13	15	17	ROW 2
TAPE	5	BAND 5		BUOY 15	16	15	14	15	16	ROW 3
TAPE	2	BAND 5	STATION 6			15	15	15	15	ROW 4
TAPE	5	BAND 5	STATION 6	BUOY 15 BUOY 15	15 16	15	15	15	15	ROW 5
TAPE	5	BAND 5	STATION 6			14	14	14	14	ROW 1
TAPE	5	BAND 5	STATION 7		14					
TAPE	5	BAND 5	STATION 7	BUOY 11	15	14	15	15	15	ROW 2
TAPE	5	BAND 5	STATION 7	BUOY 11	15	15	15	15	15	ROW 3
TAPE	5	BAND 5	STATION 7	BUOY 11	15	15	13	14	14	ROW 4
TAPE	5	BAND 5	STATION 7	BUOY 11	14	14	14	13	14	ROW 5
TAPE	5	BAND 5	STATION 8	BUOY 8	15	15	14	14	15	ROW 1
TAPE	5	BAND 5	STATION 8	BUOY 8	15	15	14	14	14	ROW 2
TAPE	5	BAND 5 BAND 5	STATION 8	BUOY 8	14	14	14	14	13	ROW 3
TAPE	5	BAND 5	STATION 8	BUOY 8	14	14	13	13	13	ROW 4
TAPE	5	BAND 5	STATION 8	BUOY 8	14	14	13	14	13	ROW 5
TAPE	5	BAND 5	STATION 9	BUOY 5	13	14	14	12	13	ROW 1
TAPE	5	BAND 5 BAND 5	STATION 9	BUOY 5	13	14	14	13	13	ROW 2
TAPE	5	BAND 5	STATION 9	BUOY 5	13	13	14	14	13	ROW 3
TAPE	5	BAND 5 BAND 5	STATION 9	BUOY 5	13	14	14	13	13	ROW 4
TAPE	5	BAND 5	STATION 9	BUOY 5	14	14	14	13	13	ROW 5
TAPE	5	BAND 5	STATION 10	BUOY 3	13	13	13	14	14	ROW 1
TAPE	5	BAND 5 BAND 5	STATION 10	BUOY 3	14	14	15	14	14	ROW 2
TAPE	5 5	BAND 5	STATION 10	BUOY 3	14	14	15	14	.15	ROW 3
TAPE	5	BAND 5	STATION 10	BUOY 3	14	14	14	14	16	ROW 4
TAPE	5	BAND 5	STATION 10	BUOY 3	14	15	15	- 15	15	ROW 5
TAPE	5	BAND 5 BAND 5	STATION 11	BUOY D	16	16	17	17	17	ROW 1
TAPE	5	BAND 5	STATION 11	BUOY D	16	16	16	16	16	ROW 2
TAPE	5	BAND 5	STATION 11	BUOY D	16	16	15	14	15	ROW 3
TAPE	5 5	BAND 5 BAND 5	STATION 11	BUOY D	15	16	15	14	16	ROW 4
TAPE	5	BAND 5	STATION 11	BUOY D	15	16	16	15	16	ROW 5
TAPE	5	BAND 5	STATION 12	BUOY G	16	16	16	16	16	ROW 1
TAPE	5 5	BAND 5	STATION 12	BUOY G	16	16	16	16	16	ROW 2
	5	BAND 5	STATION 12	BUOY G	15	15	16	16	16	ROW 3
TAPE	5	BAND 5	STATION 12	BUOY G	15	15	16	16	16	ROW 4
TAPE	5		STATION 12	BUOY G	15	15	15	15	16	ROW 5
TAPE	2			BUOY 100	20	19	16	16	18	ROW 1
TAPE	5 5			BUOY 100	22	21	17	16	18	ROW 2
TAPE	2	BAND 6			23	24	22	21	22	ROW 3
TAPE	5 5 5	BAND 6	STATION 1	BUOY 100 BUOY 100	23 24	25	23	24	24	ROW 4
TAPE	5	BAND 6	STATION 1	BUOY 100	26	27	25	24	24	ROW 5
TAPE		BAND 6	STATION 1	BUOY 24	13	13	13	13	13	ROW 1
TAPE	5	BAND 6	STATION 2	BUOY 24	12	12	13	11	12	ROW 2
TAPE	5	BAND 6	STATION 2 STATION 2	BUOY 24	13	12	12	11	11	ROW 3
TAPE		BAND 6	STATION 2		13	13	13	12	12	ROW 4
TAPE	5	BAND 6	STATION 2				13	12	12	ROW 5
TAPE	5	BAND 6	STATION 2	BUOY 24	13	13	13	10	12	ROW 1
TAPE	5	BAND 6	STATION 3	BUOY 22	12	12	13	10	11	ROW 1
TAPE	5	BAND 6	STATION 3	BUOY 22	11	12			10	ROW 2
TAPE	5	BAND 6	STATION 3	BUOY 22	10	12	12	11		
TAPE	5	BAND 6	STATION 3	BUOY 22	11	11	12	12	11	
TAPE	5	BAND 6	STATION 3	BUOY 22	11	11	11	11 .	12	ROW 5

TAPE TAPE TAPE TAPE	5 5 5 5	BAND 6 BAND 6 BAND 6 BAND 6	STATION 4 STATION 4 STATION 4 STATION 4	BUOY 20 BUOY 20 BUOY 20 BUOY 20	11 10 10 10	10 10 10 9	9 10 10 10	11 10 9 10	11 12 11 10	ROW 1 ROW 2 ROW 3 ROW 4
TAPE	5	BAND 6 BAND 6	STATION 4 STATION 5	BUOY 20 BUOY 18	11 9	. 9 9	10 9	11 9	11 9	ROW 5 ROW 1
TAPE TAPE	5	BAND 6	STATION 5	BUOY 18	9	9	9	9	10	ROW 2
TAPE	5	BAND 6 BAND 6	STATION 5 STATION 5	BUOY 18 BUOY 18	9	9 10	8 8	8 9	9 10	ROW 3 ROW 4
TAPE TAPE	5 5	BAND 6	STATION 5	BUOY 18	9	10	9	10	11	ROW 5
TAPE	5	BAND 6	STATION 6	BUOY 15	9	9	9	9	9	ROW 1
TAPE TAPE	5 5	BAND 6 BAND 6	STATION 6 STATION 6	BUOY 15 BUOY 15	10 10	9 10	9	9 9	9 10	ROW 2 ROW 3
TAPE	5	BAND 6	STATION 6	BUOY 15	10	10	10	1Ó	10	ROW 4
TAPE	5	BAND 6	STATION 6	BUOY 15	10	10	10	10	10	ROW 5 ROW 1
TAPE TAPE	5	BAND 6 BAND 6	STATION 7 STATION 7	BUOY 11 BUOY 11	10	9	10 10	9 9	9 9	ROW 1
TAPE	5	BAND 6	STATION 7	BUOY 11	9	10	9	9	9	ROW 3
TAPE	5	BAND 6	STATION 7 STATION 7	BUOY 11 BUOY 11	8	9 9	9	9 9	9	ROW 4 ROW 5
TAPE TAPE	5	BAND 6 BAND 6	STATION 7 STATION 8	BUOY 8	9 10	10	10	10	10	ROW 1
TAPE	5 5	BAND 6	STATION 8	BUOY 8	9	10	9	- 9	10	ROW 2
TAPE TAPE	5	BAND 6 BAND 6	STATION 8 STATION 8	BUOY 8 BUOY 8	9	8 8	8 8	9 9	10 10	ROW 3 ROW 4
TAPE	· 5 ·	BAND 6	STATION 8	BUOY 8	9	10	8	9	9	ROW 5
TAPE	5	BAND 6	STATION 9	BUOY 5	8	9.	9	8	9 .	ROW 1
TAPE	5	BAND 6	STATION 9 STATION 9	BUOY 5 BUOY 5	8	8 8	9 9	9 9	9	ROW 2 ROW 3
TAPE TAPE	5 5	BAND 6 BAND 6	STATION 9 STATION 9	BUOY 5	8	9	9	10	10	ROW 4
TAPE	5	BAND 6	STATION 9	BUOY 5	9	9	9	10	- 9	ROW 5
TAPE	5 5	BAND 6 BAND 6	STATION 10 STATION 10	BUOY 3 BUOY 3	9	9 10	12 12	9 10	9 10	ROW 1 ROW 2
TAPE TAPE	5	BAND 6 BAND 6	STATION 10	BUOY 3	9	8	10	10	8	ROW 3
TAPE	5	BAND 6	STATION 10	BUOY 3	9	9	10	10	8	ROW 4
TAPE	5 5	BAND 6	STATION 10 STATION 11	BUOY 3 BUOY D	9	10 10	10 10	9 11	9 11	ROW 5 ROW 1
TAPE TAPE	5	BAND 6 BAND 6	STATION 11	BUOY D	10	10	10	10	10	ROW 2
TAPE	5	BAND 6	STATION 11	BUOY D	11	11	10	10	11	ROW 3
TAPE	5	BAND 6	STATION 11 STATION 11	BUOY D BUOY D	11 11	11 11	10 10	10 10	11 10	ROW 4 ROW 5
TAPE TAPE	5 5	BAND 6 BAND 6	STATION 12	BUOY G	10	12	11	10	9	ROW 1
TAPE	5	BAND 6	STATION 12	BUOY G	10	11	11	10	10	ROW 2
TAPE	5 5	BAND 6 BAND 6	STATION 12 STATION 12	BUOY G BUOY G	10 11	10 10	10 11	11 11	11 11	ROW 3 ROW 4
TAPE TAPE	5	BAND 6	STATION 12	BUOY G	10	10	9	iò	ii	ROW 5
TAPE	5	BAND 7	STATION 1	BUOY 100	6	6	6	5	6	ROW 1
TAPE TAPE	5	BAND 7 BAND 7	STATION 1 STATION 1	BUOY 100 BUOY 100	6 6	6 7	6 5	6 7	6 6	ROW 2 ROW 3
TAPE	5	BAND 7	STATION 1	BUOY 100	7	7	4	7	7	ROW 4
TAPE	5	BAND 7	STATION 1	BUOY 100	6	4	. 6	6	4	ROW 5 ROW 1
TAPE TAPE	5 5	BAND 7 BAND 7	STATION 2 STATION 2	BUOY 24 BUOY 24	3	3 3	3 3	3 3	3 3	ROW 1 ROW 2
TAPE	5	BAND 7	STATION 2	BUOY 24	3	4	3	4	3	ROW 3
TAPE	5	BAND 7	STATION 2	BUOY 24	3	4	3	4 4	4 3	ROW 4
TAPE	5	BAND 7	STATION 2	BUOY 24	3	2	3	4	્ર	ROW 5

TAPE	5	BAND 7	STATION 3	BUOY 22	3	4	2	3	2	ROW 1
TAPE	5	BAND 7	STATION 3	BUOY 22	3	3	4	. 3	4	ROW 2
TAPE	5	BAND 7	STATION 3	BUOY 22	4	4	4	ŭ	4	ROW 3
TAPE		BAND 7	STATION 3	BUOY 22	3	3	3	3	3	ROW 4
	5		STATION 3	BUOY 22	5	3	3	3	3	ROW 5
TAPE	2				5		3	3	4	ROW 1
TAPE	5	BAND 7	STATION 4	BUOY 20 BUOY 20	3	3	3	3	3	ROW 2
TAPE	5	BAND 7	STATION 4	BUOY 20	3	3	3	3		
TAPE	5	BAND 7	STATION 4	BUOY 20	2	2 2 3	2 2 3	3	3	ROW 3
TAPE	5	BAND 7	STATION 4	BUOY 20	2	2	2	2	2	ROW 4
TAPE	5 5	BAND 7	STATION 4	BUOY 20	2 2 3 2 3				1	ROW 5
TAPE		BAND 7	STATION 5	BUOY 18	2	4	3	1	2	ROW 1
TAPE	5 5 5	BAND 7	STATION 5 STATION 5 STATION 5 STATION 5 STATION 6	BUOY 18	3	4	4	1	2	ROW 2
TAPE	5	BAND 7	STATION 5	BUOY 18	2	2	2	3	3	ROW 3
TAPE	5	BAND 7	STATION 5	BUOY 18	. 1	2 2	2	1	2	ROW 4.
TAPE	5	BAND 7	STATION 5	BUOY 18	2	2	2	1	1	ROW 5
TAPE	5	BAND 7	STATION 6	BUOY 15	- 4	4	3	3	3	ROW 1
TAPE	5 5	BAND 7	STATION 6	BUOY 15	3	5	4	3	2	ROW 2
TAPE	5	BAND 7	STATION 6	BUOY 15	2	4	5	2	3	ROW 3
TAPE	5	BAND 7	STATION 6	BUOY 15	3 2 3	4	4	2 3	3	ROW 4
TAPE	5	BAND 7	STATION 6	BUOY 15	3	3	4	2	1	ROW 5
TAPE	5	BAND 7	STATION 7	BUOY 11	3 2 3	3	1	2 2 3 3 3 3	2	ROW 1.
TAPE	5 5	BAND 7	STATION 7	BUOY 11	3	3	3	3	3	ROW 2
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TAPE	5	BAND 7	STATION 12	BUOY G	3	4	5	5		
TAPE	5 7	BAND 7	STATION 12	BUOY G	<u> </u>	3	5	6	5	ROW 5
TAPE		BAND 4	STATION 1	BUOY 100	17	15	15	17	20	ROW 1
TAPE	7	BAND 4	STATION 1	BUOY 100	18	17	17	18	18	ROW 2
TAPE	7	BAND 4	STATION 1	BUOY 100	18	17	17	18	18	ROW 3
TAPE	7	BAND 4	STATION 1	BUOY 100	18	19	19	18	19	ROW 4
TAPE	7	BAND 4	STATION 1	BUOY 100	19	19	19	18	19	ROW 5

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TAPE	· 7	BAND 5	STATION 2	BUOY 24	33	32	32	32	27	ROW 1
TAPE	7	BAND 5	STATION 2	BUOY 24	35	35	35	33	29	ROW 2
TAPE	7	BAND 5	STATION 2	BUOY 24	34	34	34	33	33	ROW 3
TAPE	7	BAND 5	STATION 2	BUOY 24	33	33	34	35	35	ROW 4
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TAPE	7 7	BAND 5 BAND 5	STATION 4 STATION 4	BUOY 20 BUOY 20	12	12	12	12	12	ROW 3
TAPE TAPE	7	BAND 5	STATION 4	BUOY 20	13	13	13	12	13	ROW 4
TAPE	7	BAND 5	STATION 4	BUOY 20	13	13	13	12	13	ROW 5
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TAPE	7	BAND 5	STATION 5	BUOY 18	10	9	10	10	9 .	ROW 3
TAPE	7	BAND 5	STATION 5 STATION 5 STATION 5 STATION 6	BUOY 18	9	9	10	9	9	ROW 4
TAPE	7	BAND 5	STATION 5	BUOY 18	9	9	9	9	. 9	ROW 5
TAPE	7	BAND 5	STATION 6	BUOY 15	11	10	9	. 9	9	ROW 1
TAPE	7	BAND 5	STATION 6	BUOY 15	10	. 9	. 9	. 9	9	ROW 2
TAPE	7	BAND 5	STATION 6	BUOY 15	9	9	9	10	9	ROW 3
TAPE	7	BAND 5	STATION 6	BUOY 15	10	9	10	10	9	ROW 4
TAPE	7	BAND 5	STATION 6	BUOY 15	9	10	10	10 9	10	ROW 5 ROW 1
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TAPE	7	BAND 5	STATION 11	BUOY D	8	7	8	8	8	ROW 1
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TAPE 7 BAND 6 STATION 9 BUOY 5 2 2 2 3 2 ROW 3 TAPE 7 BAND 6 STATION 9 BUOY 5 4 4 2 4 1 ROW 4 TAPE 7 BAND 6 STATION 9 BUOY 5 5 3 2 3 2 ROW 1 TAPE 7 BAND 6 STATION 10 BUOY 3 2 2 3 3 2 ROW 1 TAPE 7 BAND 6 STATION 10 BUOY 3 3 2 2 3 3 ROW 2 TAPE 7 BAND 6 STATION 10 BUOY 3 2 2 3 4 2 ROW 3 TAPE 7 BAND 6 STATION 10 BUOY 3 2 2 3 4 2 ROW 3 TAPE 7 BAND 6 STATION 10 BUOY 3 2 2 3 2 1 ROW 4							2		3	3	
TAPE 7 BAND 6 STATION 9 BUOY 5 2 2 2 3 2 ROW 3 TAPE 7 BAND 6 STATION 9 BUOY 5 4 4 2 4 1 ROW 4 TAPE 7 BAND 6 STATION 9 BUOY 5 5 3 2 3 2 ROW 1 TAPE 7 BAND 6 STATION 10 BUOY 3 2 2 3 3 2 ROW 1 TAPE 7 BAND 6 STATION 10 BUOY 3 3 2 2 3 3 ROW 2 TAPE 7 BAND 6 STATION 10 BUOY 3 2 2 3 4 2 ROW 3 TAPE 7 BAND 6 STATION 10 BUOY 3 2 2 3 4 2 ROW 3 TAPE 7 BAND 6 STATION 10 BUOY 3 2 2 3 2 1 ROW 4				STATION 9	BUOY 5	3	3	3	3		
TAPE 7 BAND 6 STATION 9 BUOY 5 5 3 2 3 2 ROW 5 TAPE 7 BAND 6 STATION 10 BUOY 3 2 2 3 3 2 ROW 1 TAPE 7 BAND 6 STATION 10 BUOY 3 3 2 2 3 3 ROW 2 TAPE 7 BAND 6 STATION 10 BUOY 3 2 2 3 4 2 ROW 3 TAPE 7 BAND 6 STATION 10 BUOY 3 2 2 3 2 1 ROW 4				STATION 9	BUOY 5	2	2	2	3	2	
TAPE 7 BAND 6 STATION 10 BUOY 3 2 2 3 3 2 ROW 1 TAPE 7 BAND 6 STATION 10 BUOY 3 3 2 2 3 3 ROW 2 TAPE 7 BAND 6 STATION 10 BUOY 3 2 2 3 4 2 ROW 3 TAPE 7 BAND 6 STATION 10 BUOY 3 2 2 3 2 1 ROW 4					BUOY 5	4	4	2			
TAPE 7 BAND 6 STATION 10 BUOY 3 2 2 3 3 2 ROW 1 TAPE 7 BAND 6 STATION 10 BUOY 3 3 2 2 3 3 ROW 2 TAPE 7 BAND 6 STATION 10 BUOY 3 2 2 3 4 2 ROW 3 TAPE 7 BAND 6 STATION 10 BUOY 3 2 2 3 2 1 ROW 4					BUOY 5	5	3	2	3		ROW 5
TAPE 7 BAND 6 STATION 10 BUOY 3 2 2 3 2 1 ROW 4					BUOY 3	2	2	3	3		
TAPE 7 BAND 6 STATION 10 BUOY 3 2 2 3 2 1 ROW 4					BUOY 3	3	2	2			
TAPE 7 BAND 6 STATION 10 BUOY 3 2 2 3 2 1 ROW 4				STATION 10	BUOY 3	2	2	3			
	TAPE		BAND 6		BUOY 3			3			
	TAPE	7	BAND 6	STATION 10	BUOY 3	2	2	^2	1	3	ROW 5

	-	5445	OTATION 4		DUOV D	•	•		4		DOW 1
TAPE	7	BAND 6		1	BUOY D	1	1	2	1.	1	ROW 1
TAPE	7	BAND 6		1	BUOY D	2 2	2	4	2	1	ROW 2
TAPE	7	BAND 6		1	BUOY D	2	4	3	2	2	ROW 3
TAPE	7	BAND 6		1	BUOY D	2	3	2	2	2	ROW 4
TAPE	7	BAND 6		1	BUOY D	2	2	2	2	2	ROW 5
TAPE	7	BAND 6		2	BUOY G	2	2	2	. 3	3	ROW 1
TAPE	7	BAND 6	STATION 1	2	BUOY G	1	0	0	0	1	ROW 2
TAPE	7	BAND 6	STATION 1	2	BUOY G	0	1	1	1	2	ROW 3
TAPE	7	BAND 6	STATION 1	2	BUOY G	1	2	3	2	2	ROW 4
TAPE	7	BAND 6	STATION 1	2	BUOY G	3	3	3	2	1	ROW 5
TAPE	7	BAND 7	STATION	1	BUOY 100	6	. 8	7	9	9	ROW 1
TAPE	7	BAND 7	STATION	1	BUOY 100	8	7	6	9	9	ROW 2
TAPE	7	BAND 7	STATION	1	BUOY 100	10	8	5	7	8	ROW 3
TAPE	7	BAND 7	STATION	1	BUOY 100	8	7	. 5	7	7	ROW 4
TAPE	7	BAND 7	STATION	i	BUOY 100	7	7	7	7	9	ROW 5
TAPE	7	BAND 7	STATION	ż	BUOY 24	10	ġ	ġ	7	7	ROW 1
TAPE	7	BAND 7	STATION	2	BUOY 24	10	10	10	ģ	ġ	ROW 2
TAPE		BAND 7	STATION	2	BUOY 24	8	9	10	10	11	ROW 3
	7		STATION	2	BUOY 24	10	10	10	10	12	ROW 4
TAPE	7	BAND 7		2			11	11	10	11	ROW 5
TAPE	7	BAND 7	STATION	2		9					ROW 1
TAPE	7	BAND 7	STATION	3	BUOY 22	5	6	6	5 5	3	
TAPE	7	BAND 7	STATION	3	BUOY 22	4	4	4		5	
TAPE	7	BAND 7	STATION	3	BUOY 22	4	4	4	4	4	ROW 3
TAPE	7	BAND 7	STATION	3	BUOY 22	6	5	6	5	3	ROW 4
TAPE	7	BAND 7	STATION	3	BUOY 22	6	7	7	6	3	ROW 5
TAPE	7	BAND 7	STATION	4	BUOY 20	0	-0	0	1	Q	ROW 1
TAPE	7	BAND 7	STATION	4	BUOY 20	0	0	0	1	0	ROW 2
TAPE	7	BAND 7	STATION	4	BUOY 20	0	1	0.	0	1	ROW 3
TAPE	7	BAND 7	STATION	4	BUOY 20	0	0	0	0	0	ROW 4
TAPE	7	BAND 7	STATION	4	BUOY 20	0	0	1	0	0	ROW 5
TAPE	7	BAND 7	STATION	5	BUOY 18	0	0	0	0	0	ROW 1
TAPE	7	BAND 7	STATION	5	BUOY 18	Ó	0	0	0	0	ROW 2
TAPE	7	BAND 7	STATION	5	BUOY 18	Õ	1	Ó	0	0	ROW 3
TAPE	7	BAND 7	STATION	5 5	BUOY 18	ŏ	Ó	ō	Ŏ	Ō	ROW 4
TAPE	7	BAND 7	STATION	5	BUOY 18	ŏ	ŏ	ŏ	Ŏ	Ŏ	ROW 5
TAPE	7	BAND 7	STATION	6	BUOY 15	ŏ	ŏ	ŏ	ŏ	ŏ	ROW 1
TAPE	7	BAND 7	STATION	6	BUOY 15	ŏ	ŏ	ŏ	ŏ	ŏ	ROW 2
TAPE	7	BAND 7	STATION	6	BUOY 15	ŏ	ŏ	ŏ	ŏ	ŏ	ROW 3
TAPE	7	BAND 7	STATION	6	BUOY 15	ŏ	ŏ	ŏ	ŏ	ŏ	ROW 4
TAPE		BAND 7	STATION	6	BUOY 15	ŏ	1	ŏ	ŏ.	ŏ	ROW 5
	7		STATION	7	BUOY 11	ő	ó	ŏ	ő	ŏ	ROW 1
TAPE	7	BAND 7				ő	ő	ŏ	ŏ	ŏ	ROW 2
TAPE	7	BAND 7	STATION	7			-		1	ő	ROW 3
TAPE	7	BAND 7	STATION	7	BUOY 11	1	0	0		-	ROW 4
TAPE	. 7	BAND 7	STATION	7	BUOY 11	1	0	0	0	0	ROW 5
TAPE	7	BAND 7	STATION	7	BUOY 11	0	0	0 1	0	ő	ROW 1
TAPE	7	BAND 7	STATION	8	BUOY 8	0	0	•	0	-	
TAPE	7	BAND 7	STATION	8	BUOY 8	0	0	0	0	0	
TAPE	7	BAND 7	STATION	8	BUOY 8	0	0	0	1	1	ROW 3
TAPE	7	BAND 7	STATION	8	BUOY 8	0	0	0	0	0	ROW 4
TAPE	7	BAND 7	STATION	8	BUOY 8	0	Ó	0	0	0	ROW 5
TAPE	7	BAND 7	STATION	9	BUOY 5	0	0	0	0	0	ROW 1
TAPE	7	BAND 7	STATION	9	BUOY 5	0	0	0	0	0	ROW 2
TAPE	7	BAND 7	STATION	9	BUOY 5	0	0	0	0	0	ROW 3
TAPE	7	BAND 7	STATION	9	BUOY 5	0	0	0	0	0	ROW 4
TAPE	7	BAND 7	STATION	9	BUOY 5	0	0	0	0	0	ROW 5

TAPE	7	BAND 7	STATION 10	BUOY 3	0	0	-0	0	0	ROW 1
	7				0	ŏ	0	ŏ	ŏ	ROW 2
TAPE	7	BAND 7	STATION 10	BUOY 3	Ö	-		ŏ	ŏ	
TAPE	7	BAND 7	STATION 10	BUOY 3	-	0	0	_	-	
TAPE	7	BAND 7	STATION 10	BUOY 3	0	0	0	0	0	ROW 4
TAPE	7	BAND 7	STATION 10	BUOY 3	0	0	0	0	0	ROW 5
TAPE	. 7	BAND 7	STATION 11	BUOY D	0	0	0	0	0	ROW 1
TAPE	7	BAND 7	STATION 11	BUOY D	0	0	0	. 0	0	ROW 2
TAPE	7	BAND 7	STATION 11	BUOY D	0	0	0	0	0	ROW 3
TAPE	7	BAND 7	STATION 11	BUOY D	0	0	-0	0	0	ROW 4
TAPE	7	BAND 7	STATION 11	BUOY D	0	0	0	0	0	ROW 5
TAPE	7	BAND 7	STATION 12	BUOY G	0	0	1	0	0	ROW 1
TAPE	7	BAND 7	STATION 12	BUOY G	0	0	0	0	0	ROW 2
TAPE	7	BAND 7	STATION 12	BUOY G	1	. 0	0	0	0	ROW 3
TAPE	7	BAND 7	STATION 12	BUOY G	1	0	0	0	0	ROW 4
TAPE	7	BAND 7	STATION 12	BUOY G	.0	Ō	Ŏ	Ŏ	Ŏ	ROW 5
TAPE	ģ	BAND 4	STATION 1	BUOY 100	14	14	13	14	14	ROW 1
TAPE	ó	BAND 4	STATION 1	BUOY 100	12	13	14	14	14	ROW 2
TAPE	9	BAND 4	STATION 1	BUOY 100	12	12	12	14	13	ROW 3
TAPE	9	BAND 4	STATION 1	BUOY 100	13	13	11	13	13	ROW 4
		BAND 4	STATION 1	BUOY 100	13	13	13	13	13	ROW 5
TAPE	9					14	12	12	13	ROW 1
TAPE	9	BAND 4	STATION 2	BUOY 24	13	14		13	13	ROW 2
TAPE	9	BAND 4	STATION 2	BUOY 24	14		13			
TAPE	9	BAND 4	STATION 2	BUOY 24	14	12	14	13	12	ROW 3
TAPE	9	BAND 4	STATION 2	BUOY 24	12	12	12	14	13	ROW 4
TAPE	9	BAND 4	STATION 2	BUOY 24	12	13	11	13	13	ROW 5
TAPE	9	BAND 4	STATION 3	BUOY 22	13	12	13	13	13	ROW 1
TAPE	9	BAND 4	STATION 3	BUOY 22	13	12	13	14	13	ROW 2
TAPE	9	BAND 4	STATION 3	BUOY 22	13	14	13	13	14	ROW 3
TAPE	9	BAND 4	STATION 3	BUOY 22	13	14	13	12	14	ROW 4
TAPE	9	BAND 4	STATION 3	BUOY 22	13	13	13	12	11	ROW 5
TAPE	9	BAND 4	STATION 4	BUOY 20	. 13	14	14	14	14	ROW 1
TAPE	9	BAND 4	STATION 4	BUOY 20	13	13	13	13	13	ROW 2
TAPE	9	BAND 4	STATION 4	BUOY 20	13	13	12	12	13	ROW 3
TAPE	9	BAND 4	STATION 4	BUOY 20	12	13	12	13	13	ROW 4
TAPE	9	BAND 4	STATION 4	BUOY 20	12	13	15	13	13	ROW 5
TAPE	ģ.	BAND 4	STATION 5	BUOY 18	12	14	15	15	14	ROW 1
TAPE	ģ	BAND 4	STATION 5	BUOY 18	12	13	14	14	13	ROW 2
TAPE	ģ	BAND 4	STATION 5 STATION 5	BUOY 18	13	13	13	13	13	ROW 3
TAPE	9	BAND 4	STATION 5	BUOY 18	13	13	13	13	12	ROW 4
TAPE	9	BAND 4	STATION 5 STATION 5	BUOY 18	13	13	13	12	13	ROW 5
TAPE	9	BAND 4	STATION 6	BUOY 15	12	12	12	12	13	ROW 1
	9		STATION 6	BUOY 15	12	13	13	13	13	ROW 2
TAPE		BAND 4			14	14	13	13	14	ROW 3
TAPE	9.	BAND 4	STATION 6	BUOY 15 BUOY 15	13	14	13	13	14	ROW 4
TAPE	9	BAND 4	STATION 6		12	13	13	13	14	ROW 5
TAPE	9	BAND 4	STATION 6	BUOY 15	11	11	12	12	11	ROW 1
TAPE	9	BAND 4	STATION 7	BUOY 11	11	- 11	13	12	ii	ROW 2
TAPE	9	BAND 4	STATION 7	BUOY 11			14		12	ROW 2
TAPE	9	BAND 4	STATION 7	BUOY 11	12	14	14	13	12	ROW 3
TAPE	9	BAND 4	STATION 7	BUOY 11	13	14	- •	13		
TAPE	9	BAND 4	STATION 7	BUOY 11	12	13	13	12	11	ROW 5
TAPE	9	BAND 4	STATION 8	BUOY 8	13	13	14	14	15	ROW 1
TAPE	9	BAND 4	STATION 8	BUOY 8	13	. 13	15	15	14	ROW 2
TAPE	9	BAND 4	STATION 8	BUOY 8	13	12	12	13	13	ROW 3
TAPE	9	BAND 4	STATION 8	BUOY 8	13	12	12	12	13	ROW 4
TAPE	9	BAND 4	STATION 8	BUOY 8	13	13	13	13	13	ROW 5

TAPE	0	BAND 4	STATION 9	BUO	Y 5	14	14	15	14	14	ROW 1
	9			BUO		14	14	14	14	14	ROW 2
TAPE											
TAPE	9	BAND 4	STATION 9	BUO		15	13	15	13	13	ROW 3
TAPE	9	BAND 4	STATION 9	BUO		14	1.3	14	13	13	ROW 4
TAPE	9	BAND 4	STATION 9	BUO		13	13	13	13	13	ROW 5
TAPE	9	BAND 4	STATION 10	BUO		15	12	13	14	12	ROW 1
TAPE	9	BAND 4	STATION 10	BUO	Y 3	14	13	14	15	12	ROW 2
TAPE	9	BAND 4	STATION 10	BUO	Y 3	14	14	14	14	13	ROW 3
TAPE	9	BAND 4	STATION 10	BUO	Y 3	13	13	13	13	13	ROW 4
TAPE	9	BAND 4	STATION 10	BUO		13	14	14	13	12	ROW 5
TAPE	ģ	BAND 4	STATION 11	BUO	_	13	13	14	13	13	ROW 1
TAPE	ģ	BAND 4	STATION 11	BUO		13	14	14	13	14	ROW 2
TAPE	9	BAND 4	STATION 11	BUO		15	15	15	15	15	ROW 3
	9		STATION 11	BUO		15	15	14	15	15	ROW 4
TAPE	. 9					13	13	13	13	13	ROW 5
TAPE	9	BAND 4	STATION 11	BUO						13	ROW 1
TAPE	9	BAND 4	STATION 12	BUO		13	12	14	13		
TAPE	9	BAND 4	STATION 12	BUO		16	14	14	15	15	ROW 2
TAPE	9	BAND 4	STATION 12	BUO		15	15	14	14	14	ROW 3
TAPE	9	BAND 4	STATION 12	BUO		15	14	13	14	16	ROW 4
TAPE	9	BAND 4	STATION 12	BUO		15	13	13	14	16	ROW 5
TAPE	9	BAND 5	STATION 1	BUO	Y 100	14	13	13	14	13	ROW 1
TAPE	9	BAND 5	STATION 1	BUO	Y 100	14	13	13	14	13	ROW 2
TAPE	9	BAND 5	STATION 1	BUO	Y 100	14	14	14	14	14	ROW 3
TAPE	9	BAND 5	STATION 1	BUO	Y 100	14	14	14	14	14	ROW 4
TAPE	9	BAND 5	STATION 1	BUO		14	14	14	14	14	ROW 5
TAPE	ģ	BAND 5	STATION 2	BUO		13	13	13	13	13	ROW 1
TAPE	ģ	BAND 5	STATION 2	BUO		13	13	13	13	13	ROW 2
TAPE	ģ	BAND 5	STATION 2		Y 24	13	13	13	. 13	13	ROW 3
TAPE	9	BAND 5	STATION 2	BHO	Y 24	13	14	15	13	13	ROW 4
TAPE	9	BAND 5	STATION 2	BUO		14	15	15	14	13	ROW 5
TAPE	9	BAND 5	STATION 3	BUO		13	13	13	13	14	ROW 1
		DAND 5	STATION 3	BUO		13	13	13	14	13	ROW 2
TAPE	9	BAND 5		BUO		13	13	14	14	13	ROW 3
TAPE	9	BAND 5	STATION 3							_	ROW 4
TAPE	9	BAND 5	STATION 3	BUO		14	13	15	14	14	
TAPE	9	BAND 5	STATION 3		Y 22	14	14	16	14	14	ROW 5
TAPE	9	BAND 5	STATION 4	BUO		16	15	15	14	15	ROW 1
TAPE	9	BAND 5	STATION 4	BUO	Y 20	15	14	16	14	14	ROW 2
TAPE	9	BAND 5	STATION 4		Y 20	15	14	14	14	14	ROW 3
TAPE	9	BAND 5	STATION 4	BUO		15	15	14	15	15	ROW 4
TAPE	9	BAND 5	STATION 4	BUO	Y 20	15	15	16	15	15	ROW 5
TAPE	9	BAND 5	STATION 5	BUO	Y 18	14	14	13	14	14	ROW 1
TAPE	9	BAND 5	STATION 5	BUO	Y 18	14	14	12	13	15	ROW 2
TAPE	9	BAND 5	STATION 5	BUO	Y 18	14	14	14	15	15	ROW 3
TAPE	9	BAND 5	STATION 5	BUO	Y 18	14	15	. 15	15	15	ROW 4
TAPE	ģ.	BAND 5	STATION 5 STATION 5 STATION 6	BUO		15	15	15	15	15	ROW 5
TAPE	9	BAND 5	STATION 6	BUO		13	13	13	13	13	ROW 1
TAPE	ģ.	BAND 5	STATION 6	BUO		13	13	13	13	13	ROW 2
TAPE	á	BAND 5	STATION 6	BUO		13	13	13	13	14	ROW 3
TAPE	9	BAND 5	STATION 6	BUO		13	13	13	12	12	ROW 4
TAPE	9	BAND 5	STATION 6	BUO		13	13	14	13	12	ROW 5
TAPE	9	BAND 5	STATION 7	BUO		12	13	13	12	11	ROW 1
			STATION 7	BUO		12	12	13	12	12	ROW 2
TAPE	9					12	12	12	11	12	ROW 2
TAPE	9	BAND 5	STATION 7	BUO		13	13	12	11	11	ROW 4
TAPE	9	BAND 5	STATION 7	BUO							
TAPE	9	BAND 5	STATION 7	BUO	Y 11	12	12	12	11	10	ROW 5

TAPE	9	BAND 5	STATION 8	BUOY 8	1:	3 14	. 14	13	13	ROW 1
TAPE	ģ	BAND 5	STATION 8	BUOY 8	1		13	13	13	ROW 2
		DAND 5			i			14	12	ROW 3
TAPE	9	BAND 5	STATION 8	BUOY 8						
TAPE	9	BAND 5	STATION 8	BUOY 8	11			13	12	ROW 4
TAPE	9	BAND 5	STATION 8	BUOY 8	14	∔ 13	. 13	13	13	ROW 5
TAPE	9	BAND 5	STATION 9	BUOY 5	1:	3 13	13	13	14	ROW 1
TAPE	ó	BAND 5	STATION 9	BUOY 5	13			13	14	ROW 2
		DAND 5		BUOY E						
TAPE	9	BAND 5	STATION 9	BUOY 5	13			13	14	
TAPE	9	BAND 5	STATION 9	BUOY 5	11			14	13.	ROW 4
TAPE	9	BAND 5	STATION 9	BUOY 5	11	+ 14	. 14	14	12	ROW 5
TAPE	9	BAND 5	STATION 10	BUOY 3	12	2 12	11	11	11	ROW 1
TAPE	-ģ	BAND 5	STATION 10	BUOY 3	13			11	11	ROW 2
	á	BAND 5	STATION 10	BUOY 3	12			11	12	ROW 3
TAPE		DAND 5							12	ROW 4
TAPE	9	BAND 5	STATION 10	BUOY 3	1:			11		
TAPE	9	BAND 5	STATION 10	BUOY 3	13			12	12	ROW 5
TAPE	9	BAND 5	STATION 11	BUOY D	12	2 13	12	13	13	ROW 1
TAPE	9	BAND 5	STATION 11	BUOY D	12	2 13	12	13	13	ROW 2
TAPE	ģ.	BAND 5	STATION 11	BUOY D	12			13	12	ROW 3
		DANDE		BUOY D	13			13	13	ROW 4
TAPE	9	BAND 5								
TAPE	9	BAND 5	STATION 11	BUOY D	1:			13	13	ROW 5
TAPE	9	BAND 5	STATION 12	BUOY G	12			13	13	ROW 1
TAPE	9	BAND 5	STATION 12	BUOY G	1.	3 13	12	12	12	ROW 2
TAPE	9	BAND 5	STATION 12	BUOY G	12	2 12	12	12	12	ROW 3
TAPE	ģ.	BAND 5	STATION 12	BUOY G	12			12	13	ROW 4
	7	DAND			12	12	12	12	13	ROW 5
TAPE	9	BAND 5	STATION 12	BUOY G						
TAPE	9	BAND 6	STATION 1	BUOY 100		5 5	5	5	5	
TAPE	9	BAND 6	STATION 1	BUOY 100	(5 5	5	5	6	ROW 2
TAPE	9	BAND 6	STATION 1	BUOY 100		5 6	5	5 6	6	ROW 3
TAPE	· 9	BAND 6	STATION 1	BUOY 100	i	5 7	6	6	7	ROW 4
TAPE	ģ	BAND 6	STATION 1	BUOY 100		7 7	Ğ	6	7	ROW 5
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TAPE	9	BAND 6	STATION 2	BUOY 24		5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	5 5 5 6	5 5 5 5 5 6 6	5	ROW 3
TAPE	9	BAND 6	STATION 2	BUOY 24		5 5 5 5 3 8	5	5	5	ROW 4
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TAPE	ģ	BAND 6	STATION 3	BUOY 22		3 8	7	6	7	ROW 1
			STATION 3	BUOY 22	- '	5 7		š	6	ROW 2
TAPE	. 9	BAND 6			,		7	6	7	ROW 3
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TAPE	9	BAND 6	STATION 3	BUOY 22	9	5 7			8	ROW 4
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TAPE	9	BAND 6	STATION 4	BUOY 20	(5 7	' 6	6	6	ROW 1
TAPE	ģ	BAND 6	STATION 4	BUOY 20		76		7	7	ROW 2
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				BUOY 15	,	5 7		6	6	ROW 1
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TAPE	9	BAND 6	STATION 6	BUOY 15		7 7		7		
TAPE	9	BAND 6	STATION 6	BUOY 15		5 5	5 5	6	6	ROW 3
TAPE	9	BAND 6	STATION 6	BUOY 15	(5 6	5	5	7	ROW 4
TAPE	9	BAND 6	STATION 6	BUOY 15	(56	7	5	7	ROW 5

TAPE	9	BAND 6	STATION 7	BUOY 11	5	5	6	6	5	ROW 1
TAPE	ģ	BAND 6	STATION 7	BUOY 11	5 7	7.	7	6	7	ROW 2
TAPE	9	BAND 6	STATION 7	BUOY 11	6	7	6	5	7	ROW 3
TAPE	9	BAND 6	STATION 7	BUOY 11	4	5	5	5	5	ROW 4
TAPE	9	BAND 6	STATION 7	BUOY 11	6	6	6	6	5	ROW 5
TAPE	9	BAND 6	STATION 8	BUOY 8	6	6	7	6	6	ROW 1
TAPE	9	BAND 6	STATION 8	BUOY 8	6	5	8	7	7	ROW 2
TAPE	9	BAND 6	STATION 8	BUOY 8	6	6	6	6	6	ROW 3
TAPE	9	BAND 6	STATION 8	BUOY 8	6	6	6	7	7	ROW 4
TAPE	9	BAND 6	STATION 8	BUOY 8	7	6	6	7	7	ROW 5
TAPE	9	BAND 6	STATION 9	BUOY 5 BUOY 5	6	8 7	6 7	7 7	6 6	ROW 1 ROW 2
TAPE	9	BAND 6	STATION 9 STATION 9	BUOY 5 BUOY 5	7 7	7	7	7	7	ROW 2
TAPE TAPE	9	BAND 6 BAND 6	STATION 9	BUOY 5	8	5	6	8	7	ROW 4
TAPE	9	BAND 6	STATION 9	BUOY 5	8	5 6	6	9	6	ROW 5
TAPE	9	BAND 6	STATION 10	BUOY 3	6	6	5	6	5	ROW 1
TAPE	9	BAND 6	STATION 10	BUOY 3	8	6	5	5	5	ROW 2
TAPE	ģ.	BAND 6	STATION 10	BUOY 3	8	6	5 6	5	6	ROW 3
TAPE	ģ.	BAND 6	STATION 10	BUOY 3	6	Ğ.	6	5 5 6	6	ROW 4
TAPE	9	BAND 6	STATION 10	BUOY 3	7	8	7	6	6	ROW 5
TAPE	9	BAND 6	STATION 11	BUOY D	6	8	6	7	7	ROW 1
TAPE	9	BAND 6	STATION 11	BUOY D	7	7	7	7	7	ROW 2
TAPE	9	BAND 6	STATION 11	BUOY D	8	8	8	7	7	ROW 3
TAPE	9	BAND 6	STATION 11	BUOY D	8	6	6	8	6	ROW 4
TAPE	9	BAND 6	STATION 11	BUOY D	8	6	· <u>7</u>	8	6	ROW 5
TAPE	9	BAND 6	STATION 12	BUOY G	8	8	7	7	6	ROW 1
TAPE	9	BAND 6	STATION 12	BUOY G	8	8	8	8	8	ROW 2
TAPE	9	BAND 6	STATION 12	BUOY G	8	6	7 7	9 8	9 8	ROW 3 ROW 4
TAPE	9	BAND 6	STATION 12	BUOY G	7	7 8	8	6	6	ROW 5
TAPE	9	BAND 6	STATION 12 STATION 1	BUOY G BUOY 100	6 0	ő	0	0	1	ROW 1
TAPE TAPE	9	BAND 7 BAND 7	STATION 1	BUOY 100	ő	ŏ	Ö	ŏ	i	ROW 2
TAPE	9	BAND 7	STATION 1	BUOY 100	ŏ	ŏ	ŏ	ŏ	ó	ROW 3
TAPE	ģ	BAND 7	STATION 1	BUOY 100	ŏ	ĭ	ŏ	ŏ	ŏ	ROW 4
TAPE	ģ	BAND 7	STATION 1	BUOY 100	ĭ	ż	ŏ	ŏ	1	ROW 5
TAPE	9	BAND 7	STATION 2	BUOY 24	0	0	0	1	0	ROW 1
TAPE	9	BAND 7	STATION 2	BUOY 24	0	0	0	1	0	ROW 2
TAPE	9	BAND 7	STATION 2	BUOY 24	1	1	0	1	0	ROW 3
TAPE	9	BAND 7	STATION 2	BUOY 24	1	0	0	0	Ō	ROW 4
TAPE	9	BAND 7	STATION 2	BUOY 24	0	0	0	0	0	ROW 5
TAPE	9	BAND 7	STATION 3	BUOY 22	0	0	0	0	0	ROW 1
TAPE	9	BAND 7	STATION 3	BUOY 22	0	0	1	1	0	ROW 2
TAPE	9	BAND 7	STATION 3	BUOY 22	1	1	1 0	1	0	ROW 3 ROW 4
TAPE TAPE	9	BAND 7 BAND 7	STATION 3 STATION 3	BUOY 22 BUOY 22	1	0	ő	ò	ő	ROW 5
TAPE	9	BAND 7	STATION 3	BUOY 20	2	1	ő	ő	ŏ	ROW 1
TAPE	9	BAND 7	STATION 4	BUOY 20	3	ż	ŏ	ĭ	Ŏ,	ROW 2
TAPE	ģ.	BAND 7	STATION 4	BUOY 20	2	2	ŏ	ż	ž	ROW 3
TAPE	ý	BAND 7	STATION 4	BUOY 20	ī	1	ŏ	1	1	ROW 4
TAPE	ģ.	BAND 7	STATION 4	BUOY 20	Ò	Ó	Ō	0	0	ROW 5
TAPE	9	BAND 7	STATION 5	BUOY 18	1	1	1	1	1	ROW 1
TAPE	9	BAND 7	STATION 5	BUOY 18	1.	1	1 .	1	1	ROW 2
TAPE	9	BAND 7	STATION 5	BUOY 18	1	1	1	1	1	ROW 3
TAPE	9	BAND 7		BUOY 18	1	0	1	2	2	ROW 4
TAPE	9	BAND 7	STATION 5	BUOY 18	0	0	0	2	1	ROW 5

TAPE 9 BAND 7 STATION 6 BUOY 15 0 1 1 0 0 ROW 17 TAPE 9 BAND 7 STATION 6 BUOY 15 1 1 1 1 1 1 1 ROW 3 TAPE 9 BAND 7 STATION 6 BUOY 15 1 1 1 1 1 1 1 1 ROW 3 TAPE 9 BAND 7 STATION 6 BUOY 15 1 2 2 2 0 1 1 ROW 5 TAPE 9 BAND 7 STATION 6 BUOY 15 2 2 2 2 0 1 1 ROW 5 TAPE 9 BAND 7 STATION 7 BUOY 11 2 2 0 2 1 ROW 5 TAPE 9 BAND 7 STATION 7 BUOY 11 2 2 0 2 1 ROW 5 TAPE 9 BAND 7 STATION 7 BUOY 11 2 2 0 1 ROW 4 TAPE 9 BAND 7 STATION 7 BUOY 11 1 1 1 2 0 1 ROW 4 TAPE 9 BAND 7 STATION 7 BUOY 11 0 0 0 0 0 0 ROW 5 TAPE 9 BAND 7 STATION 7 BUOY 11 0 0 0 0 0 0 ROW 5 TAPE 9 BAND 7 STATION 7 BUOY 11 0 0 0 0 0 0 ROW 5 TAPE 9 BAND 7 STATION 8 BUOY 8 3 1 1 2 2 ROW 1 TAPE 9 BAND 7 STATION 8 BUOY 8 3 1 1 2 2 2 ROW 1 TAPE 9 BAND 7 STATION 8 BUOY 8 3 1 1 2 2 2 ROW 1 TAPE 9 BAND 7 STATION 8 BUOY 8 1 2 1 0 2 2 ROW 1 TAPE 9 BAND 7 STATION 8 BUOY 8 1 2 1 0 2 2 ROW 1 TAPE 9 BAND 7 STATION 8 BUOY 8 1 2 1 0 2 2 ROW 1 TAPE 9 BAND 7 STATION 8 BUOY 8 1 2 1 0 2 2 ROW 1 TAPE 9 BAND 7 STATION 8 BUOY 8 1 2 1 0 2 2 ROW 1 TAPE 9 BAND 7 STATION 8 BUOY 8 1 2 0 1 0 ROW 5 TAPE 9 BAND 7 STATION 8 BUOY 8 1 2 0 1 0 ROW 5 TAPE 9 BAND 7 STATION 9 BUOY 5 2 2 1 1 1 1 1 ROW 1 TAPE 9 BAND 7 STATION 9 BUOY 5 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2				· .						•		
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TAPE 12		STATION 6	BUOY 15	10	9	10	10	9	ROW 4
TAPE 12		STATION 6	BUOY 15	10	10	10	10	10	ROW 5
TAPE 12	BAND 4	STATION 7	BUOY 11	15	15	15	14	13	ROW 1
TAPE 12		STATION 7	BUOY 11	15	14	15	15	12	ROW 2
TAPE 12	BAND 4	STATION 7	BUOY 11	15	15	15	14	14	ROW 3
TAPE 12	BAND 4	STATION 7	BUOY 11	13	12	13	12	13	ROW 4
TAPE 12		STATION 7	BUOY 11	12	13	12	12	12	ROW 5
TAPE 12	BAND 4	STATION 8	BUOY 8	13	13	15	14	12	ROW 1
TAPE 12		STATION 8	BUOY 8	15	14	14	14	14	ROW 2
TAPE 12		STATION 8	BUOY 8	16	15	14	14	16	ROW 3
TAPE 12	BAND 4	STATION 8	BUOY 8	15	14	15	14	15	ROW 4
TAPE 12	BAND 4	STATION 8	BUOY 8	15	15	17	16	16	ROW 5
TAPE 12	BAND 4	STATION 9	BUOY 5	15	15	14	14	14	ROW 1
TAPE 12	BAND 4	STATION 9	BUOY 5	14	14	12	14	14	ROW 2
TAPE 12	BAND 4	STATION 9	BUOY 5 BUOY 5	16	16	15	15	15	ROW 3
TAPE 12	BAND 4	STATION 9		14	14.	14	14	13	ROW 4
TAPE 12	BAND 4	STATION 9	BUOY 5	13	13	13	13	13	ROW 5
TAPE 12	BAND 4	STATION 10	BUOY 3	10	10	. 10	11	13	ROW 1
TAPE 12	BAND 4	STATION 10	BUOY 3	10	10	9	9	6	ROW 2
TAPE 12	BAND 4	STATION 10	BUOY 3	12	10	8	8	5	ROW 3
TAPE 12	BAND 4	STATION 10	BUOY 3	13	10	9	8	6	ROW 4
TAPE 12	BAND 4	STATION 10	BUOY 3	12	10	9	8	7	ROW 5
TAPE 12	BAND 4	STATION 11	BUOY D	4	4	6	6	5	ROW 1
TAPE 12	BAND 4	STATION 11	BUOY D	5	4	5 5	5	5	ROW 2
TAPE 12	BAND 4	STATION 11	BUOY D	6	6	5	6	6	ROW 3
TAPE 12	BAND 4	STATION 11	BUOY D	6	6	6	6	6	ROW 4
TAPE 12	BAND 4	STATION 11	BUOY D	7	7	6	7	6	ROW 5
TAPE 12	BAND 4	STATION 12	BUOY G	7 5 5 5 5	. 6	5	5	6	ROW 1
TAPE 12	BAND 4	STATION 12	BUOY G	5	4	4	3	4	ROW 2
TAPE 12	BAND 4	STATION 12	BUOY G	5	5 5	6	4	3	ROW 3
TAPE 12		STATION 12	BUOY G	5	5	6	5	4	ROW 4
TAPE 12		STATION 12	BUOY G	5	6	5	5	. 6	ROW 5
TAPE 12		STATION 1	BUOY 100	27	31	32	37	42	ROW 1
TAPE 12	BAND 5	STATION 1	BUOY 100	22	23	24	28	34	ROW 2
TAPE 12		STATION 1	BUOY 100	19	20	19	20	24	ROW 3
TAPE 12		STATION 1	BUOY 100	21	22	20	20	21	ROW 4
TAPE 12		STATION 1	BUOY 100	23	21	21	22	21	ROW 5
TAPE 12		STATION 2	BUOY 24	20	20	21	20	21	ROW 1
TAPE 12		STATION 2	BUOY 24	20	20	20	20	21	ROW 2
TAPE 12		STATION 2	BUOY 24	21	21	21	21	21	ROW 3
TAPE 12		STATION 2	BUOY 24	22	20	21	21	22	ROW 4
TAPE 12		STATION 2	BUOY 24	21	19	20	20	22	ROW 5
TAPE 12	BAND 5	STATION 3	BUOY 22	23	23	23	28	43	ROW 1
TAPE 12		STATION 3	BUOY 22	21	23	23	23	32	ROW 2
TAPE 12		STATION 3	BUOY 22	20	22	22	21	24	ROW 3
TAPE 12		STATION 3	BUOY 22	22	21	21	21	22	ROW 4
TAPE 12	BAND 5	STATION 3	BUOY 22	22	22	22	22	22	ROW 5

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TAPE 12 BAND 6 STATION 2 BUOY 24 9 10 10 10 10 ROW 1 TAPE 12 BAND 6 STATION 2 BUOY 24 10 10 10 10 11 ROW 2 TAPE 12 BAND 6 STATION 2 BUOY 24 10 10 11 10 12 ROW 3 TAPE 12 BAND 6 STATION 2 BUOY 24 10 11 10 10 11 ROW 4	TAPE 12	BAND 6								
TAPE 12 BAND 6 STATION 2 BUOY 24 9 10 10 10 10 ROW 1 TAPE 12 BAND 6 STATION 2 BUOY 24 10 10 10 11 ROW 2 TAPE 12 BAND 6 STATION 2 BUOY 24 10 10 11 10 12 ROW 3 TAPE 12 BAND 6 STATION 2 BUOY 24 10 11 10 10 11 ROW 4	TAPE 12	BAND 6	STATION 1							
TAPE 12 BAND 6 STATION 2 BUOY 24 10 10 10 10 11 ROW 2 TAPE 12 BAND 6 STATION 2 BUOY 24 10 10 11 10 12 ROW 3 TAPE 12 BAND 6 STATION 2 BUOY 24 10 11 10 10 11 ROW 4	TAPE 12	BAND 6		BUOY 24	9	10	10	10	10	
TAPE 12 BAND 6 STATION 2 BUOY 24 10 10 11 10 12 ROW 3 TAPE 12 BAND 6 STATION 2 BUOY 24 10 11 10 10 11 ROW 4				BUOY 24	10	10	10	10	11	
TAPE 12 BAND 6 STATION 2 BUOY 24 10 11 10 10 11 ROW 4					10	10	11	10	12	ROW 3
			STATION 2						11	ROW 4
	TAPE 12	BAND 6				11	10	10	10	ROW 5

TAPE	12	BAND 6	STATION 3	1	BUOY 22		13	12	14	19	38	ROW 1
TAPE	12	BAND 6	STATION 3	3	BUOY 22		12	11	12	13	25	ROW 2
TAPE	12	BAND 6	STATION 3	Ì.	BUOY 22		11	11	11	10	15	ROW 3
TAPE	12	BAND 6	STATION 3		BUOY 22		12	11	10	11	14	ROW 4
TAPE	12	BAND 6	STATION 3		BUOY 22		13	11	11	11	12	ROW 5
TAPE	12	BAND 6	STATION 4		BUOY 20		ğ	9	ġ	10	11	ROW 1
				•	BUOY 20		ģ	ģ	ģ.	.9	10	ROW 2
TAPE	12	BAND 6								9	9	ROW 3
TAPE	12	BAND 6	STATION 4		BUOY 20		9	9	9			
TAPE	12	BAND 6	STATION 4		BUOY 20		10	10	11	10	10	ROW 4
TAPE	12	BAND 6	STATION 4		BUOY 20		11	10	10	10	9	ROW 5
TAPE	12	BAND 6	STATION 5)	BUOY 18		9	9	9	9	8	ROW 1
TAPE	12	BAND 6	STATION 5	ò	BUOY 18		10	10	10	10	9	ROW 2
TAPE	12	BAND 6	STATION 5	,	BUOY 18		10	9	9	10	8	ROW 3
TAPE	12	BAND 6	STATION 5	,	BUOY 18		9	9	8	9	9	ROW 4
TAPE	12	BAND 6	STATION 5	,	BUOY 18		9	10	9	9	10	ROW 5
TAPE	12	BAND 6	STATION 6	5	BUOY 15		11	11	10	10	9	ROW 1
TAPE	12	BAND 6	STATION 6	,	BUOY 15		10	10	9	9	10	ROW 2
TAPE	12	BAND 6	STATION 6		BUOY 15		10	10	10	10	9	ROW 3
TAPE	12	BAND 6	STATION 6		BUOY 15		10	9	10	10	9	ROW 4
TAPE	12	BAND 6	STATION 6		BUOY 15		10	10	10	10	10	ROW 5
TAPE	12	BAND 6	STATION 7	,	BUOY 11		15	15	15	14	13	ROW 1
TAPE	12	BAND 6	STATION 7		BUOY 11		15	14	15	15	12	ROW 2
TAPE	12	BAND 6	STATION 7		BUOY 11		15	15	15	14	14	ROW 3
TAPE	12	BAND 6	STATION 7		BUOY 11		13	12	13	12	13	ROW 4
TAPE	12		STATION 7		BUOY 11		12	13	12	12	12	ROW 5
		BAND 6					13	13	15	14	12	ROW 1
TAPE	12	BAND 6	STATION 8		BUOY 8			14	14	14	14	ROW 2
TAPE	12	BAND 6	STATION 8		BUOY 8		15					
TAPE	12	BAND 6	STATION 8		BUOY 8		16	15	14	14	16	ROW 3
TAPE	12	BAND 6	STATION 8		BUOY 8		15	14	15	14	15	ROW 4
TAPE	12	BAND 6	STATION 8		BUOY 8		15	. 15	17	16	16	ROW 5
TAPE	12	BAND 6	STATION 9		BUOY 5		15	15	14	14	14	ROW 1
TAPE	12	BAND 6	STATION 9		BUOY 5		14	14	12	14	14	ROW 2
TAPE	12	BAND 6	STATION 9		BUOY 5		16	16	15	15	15	ROW 3
TAPE	12	BAND 6	STATION 9)	BUOY 5		14	14	14	14	13	ROW 4
TAPE	12	BAND 6	STATION 9)	BUOY 5		13	13	13	13	13	ROW 5
TAPE	12	BAND 6	STATION 10)	BUOY 3		10	10	10	11	13	ROW 1
TAPE	12	BAND 6	STATION 10)	BUOY 3		10	10	9	9	6	ROW 2
TAPE	12	BAND 6	STATION 10)	BUOY 3		12	10 .	8	8	5	ROW 3
TAPE	12	BAND 6	STATION 10)	BUOY 3		13	10	9	8	6	ROW 4
TAPE	12	BAND 6	STATION 10)	BUOY 3		12	10	9	8	7	ROW 5
TAPE	12	BAND 6	STATION 11		BUOY D		5	4	5	5	5	ROW 1
TAPE	12	BAND 6	STATION 11		BUOY D		5	6	5 5 6	5 6 6	6	ROW 2
TAPE	12	BAND 6	STATION 11		BUOY D		6	6	6	6	6	ROW 3
TAPE	12	BAND 6	STATION 11		BUOY D		6 7	7	6	7	6	ROW 4
TAPE	12	BAND 6	STATION 11		BUOY D		7	7	6	6	6	ROW 5
TAPE	12	BAND 6	STATION 12		BUOY G		3	4	4	3	4	ROW 1
TAPE	12	BAND 6	STATION 12		BUOY G		Š	5	6	4	3	ROW 2
TAPE	12	BAND 6	STATION 12		BUOY G		3 5 5 5	5 5 6	6		4	ROW 3
TAPE	12	BAND 6	STATION 12		BUOY G		ź	6	5	5 5	6	ROW 4
TAPE	12	BAND 6	STATION 12		BUOY G		á	7	5 7	6	6	ROW 5
TAPE	12	BAND 7	STATION 12		BUOY 100		2	4	á	9	11	ROW 1
TAPE	12	BAND 7	STATION 1		BUOY 100		1	ī	ŏ	2	' <u>5</u>	ROW 2
	12				BUOY 100		2	i	ŏ	ō	1	ROW 3
TAPE		BAND 7				٠	3	1	1	2	2	ROW 4
TAPE	12	BAND 7	• • • • • • • •		BUOY 100			5		1	3	
TAPE	12	BAND 7	STATION 1		BUOY 100		9	フ	6	1	3	ROW 5

TAPE 12	BAND 7	STATION 2	BUOY 24	3	2	2	2	3	ROW 1
TAPE 12	BAND 7	STATION 2	BUOY 24	3	2	- 2	3	3	ROW 2
			BUOY 24	2	1	. 3	3	Ť	ROW 3
TAPE 12	BAND 7	STATION 2					1	2	ROW 4
TAPE 12	BAND 7	STATION 2	BUOY 24	0	0	1			
TAPE 12	BAND 7	STATION 2	BUOY 24	0	1	0	1	3	ROW 5
TAPE 12	BAND 7	STATION 3	BUOY 22	2	2	3	11	30	ROW 1
TAPE 12	BAND 7	STATION 3	BUOY 22	2	3	2	5	10	ROW 2
TAPE 12	BAND 7	STATION 3	BUOY 22	1	4	2	3	0	ROW 3
TAPE 12	BAND 7	STATION 3	BUOY 22	Ó	2	2	Ō	0	ROW 4
TAPE 12	BAND 7	STATION 3	BUOY 22	ž	ō	3	ž	ĭ	ROW 5
				0	1	2	3	ò	ROW 1
TAPE 12	BAND 7		BUOY 20	-		2	3	2	ROW 2
TAPE 12	BAND 7	STATION 4	BUOY 20	1	2	2	2		
TAPE 12	BAND 7	STATION 4	BUOY 20	2	2	0	2	2	ROW 3
TAPE 12	BAND 7	STATION 4	BUOY 20	2	2	Ō	2	1	ROW 4
TAPE 12	BAND 7	STATION 4	BUOY 20	2	2	0	2	0	ROW 5
TAPE 12	BAND 7	STATION 5	BUOY 18	3	2	1	0	0	ROW 1
TAPE 12	BAND 7	STATION 5	BUOY 18	2	2	2	2	2	ROW 2
TAPE 12	BAND 7	STATION 5	BUOY 18	1	2	1	2	2	ROW 3
TAPE 12	BAND 7	STATION 5 STATION 5	BUOY 18	ó	1	Ó	ō	1	ROW 4
			BUOY 18	ŏ	o i	ŏ	ŏ	ò	ROW 5
TAPE 12		STATION 5		_	1	1	ő	ŏ	ROW 1
TAPE 12	BAND 7	STATION 6	BUOY 15	0				-	
TAPE 12	BAND 7	STATION 6	BUOY 15	1	3	2	2	0	ROW 2
TAPE 12	BAND 7	STATION 6	BUOY 15	2	2	2	2	2	ROW 3
TAPE 12	BAND 7	STATION 6	BUOY 15	1	1	2	1	2	ROW 4
TAPE 12	BAND 7	STATION 6	BUOY 15	1	0	1	0	1	ROW 5
TAPE 12	BAND 7	STATION 7	BUOY 11	.3	2	3	2	3	ROW 1
TAPE 12	BAND 7	STATION 7	BUOY 11	3 2 3	1	2	2 2 3	1	ROW 2
TAPE 12	BAND 7	STATION 7	BUOY 11	. 3	Ò	3	3	0	ROW 3
TAPE 12	BAND 7	STATION 7	BUOY 11	3	ž	5	3	ž	ROW 4
			BUOY 11	3	3	4	3	3	ROW 5
TAPE 12	BAND 7				4	3	3	3	ROW 1
TAPE 12	BAND 7	STATION 8	BUOY 8	4			3		
TAPE 12	BAND 7	STATION 8	BUOY 8	2	2	4	2	2	ROW 2
TAPE 12	BAND 7	STATION 8	BUOY 8	1	- 2	3	2 3	1	ROW 3
TAPE 12	BAND 7	STATION 8	BUOY 8	2	2	2	3	1	ROW 4
TAPE 12	BAND 7	STATION 8	BUOY 8	3	3	3	3	2	ROW 5
TAPE 12	BAND 7	STATION 9	BUOY 5	2 2 2 3 3	4	2	5	4	ROW 1
TAPE 12	BAND 7	STATION 9	BUOY 5	2	3	2	3	2	ROW 2
TAPE 12	BAND 7	STATION 9	BUOY 5	2	2	2	2	2	ROW 3
TAPE 12	BAND 7	STATION 9	BUOY 5 BUOY 5	3	3	2 3 2	3	3	ROW 4
TAPE 12	BAND 7	STATION 9	BUOY 5	3	4	ž	ž	4	ROW 5
			BUOY 3	ĭ	3	3	3	6	ROW 1
TAPE 12				,	1	3	ŏ	1	ROW 2
TAPE 12	BAND 7	STATION 10	BUOY 3	3		3			
TAPE 12	BAND 7	STATION 10	BUOY 3	3 2 2	0	0	0	0	
TAPE 12	BAND 7	STATION 10	BUOY 3	2	1	1	0	1	ROW 4
TAPE 12	BAND 7	STATION 10	BUOY 3	2	2	3	0	2	ROW 5
TAPE 12	BAND 7	STATION 11	BUOY D	1	0	1	1	1	ROW 1
TAPE 12	BAND 7	STATION 11	BUOY D	0	0	1	1	0	ROW 2
TAPE 12	BAND 7	STATION 11	BUOY D	0	0	0	0	0	ROW 3
TAPE 12	BAND 7	STATION 11	BUOY D	1	0	0	0	1	ROW 4
TAPE 12	BAND 7	STATION 11	BUOY D	1	ĺ	Ŏ	1	3	ROW 5
TAPE 12	BAND 7	STATION 12	BUOY G	i	i	ĭ	i	ŏ	ROW 1
TAPE 12	BAND 7	STATION 12	BUOY G	i	í	i	i	ĭ	ROW 2
	BAND 7	STATION 12	BUOY G	ò	ó	ó	i	i	ROW 3
TAPE 12				. 0	ŏ	ŏ	i	2	ROW 4
TAPE 12	BAND 7	STATION 12				2	ż	2	ROW 5
TAPE 12	BAND 7	STATION 12	BUOY G	2	2	2	۷	2	C WUM

APPENDIX E

Smoothed Landsat Data

APPENDIX E

TAPE	BAND	STATION	BUOY	С	Т	TL	TR	BL	BR	F
1111111111113333333333333333333355555555	4445556667777444455556666677777444444444	1123112311234123412341234123456789011212345678901121	DGKDGKDGKDGK1242000 12422000 12422000 12422000 122221111 122221111 1222211111 1222211111 1222211111	23221129 1 46341522292426613619109898889198016445445562	23.2056 562 23.056 16.124 85.626 85.626 16.222 16.222 16.222 17.225 182.578 19.644 10.222 11.788 12.578 12.578 12.578 13.658	23.1945 949.6619988895 949.66198889 949.66198889 949.66198889 949.6619889 949.6619889 949.6619889 949.6619889 949.6619889 949.6619889 949.6619889 949.6619889 949.66198889 949.6619889 949.6619889 949.6619889 949.6619889 949.6619889 949.6619889 949.6619889 949.6619889 949.6619889 949.6619889 949.6619889 949.6619889 949.6619889 949.6619889 949.6619889 949.66198889 949.6619889 949.6619889 949.6619889 949.6619889 949.6619889 949.6619889 949.6619889 949.6619889 949.6619889 949.6619889 949	1965 139 1940 4065 35 45 981 881 885 105 106 20 106 107 107 108 108 108 108 108 108 108 108 108 108	93.188613998.625058881000538851160.6255288.31000538851160.5258.31000538851112986.5251.52219.2251.3111111111111111111111111111111111	23.019.066.0194.668.445.68.445.68.445.006.005.006.75.008.908.008.008.008.008.008.008.008.008	23.17.72.26 84.27.27.26 1.2.29.36 1.2.29.36 1.2.20.46.49.49.40 1.2.20.00.82.49.40.49.40.69.40.69.69.69.69.69.69.69.69.69.69.69.69.69.

TAPE	BAND	STATION	BUOY	С	т	TL	TR	BL	BR	F
555555555555555555555777777777777777777	666666666667777777777777444444444455555555	23456789011212345677901121234567890121234567890112123456	22218511853DG122221151153DG1222218511853DG1222218511853DG1222218511853DG122221851	1220899890005342253141247992321121213949209909868373523	12.167889.266.144443380.30661.66827.26.476.2337673346607033326693228944446111.21.11.21.11.12.1.11.234.66070.3322.23.12.11.11.11.12.11.11.12.12.11.11.12.12.	11.98.4496391.6631.651.651.651.651.651.651.651.651.651.65	2.50300899.2943866811099.31999988475100411099999889100633322332233247189399999999999999999999999999999999999	12.33140096618138100544438006006884405688961159999888550330553444380060068844056889611533880855031016333223332323232323343808555033085550330433322333232323232333333333333333	12.1383 13.12533306661148818812999999999999999999999999999999	12.4320.6620.4480.020.4880.822.111.111.111.111.111.111.111.111.111

TAPE	BAND	STATION	BUOY	С	Т	TL	TR	BL	BR	F
777777777777777799999999999999999999999	6666667777777777777444444444444555555555	7890112123456789011212345678901121234567890112123456789011	11 8 5 3 D G 104 220 11 8 5 3 D G 104 220 11 11 8 5 3 D G 104 220 11 11 8 5 3 D G 104 220 11 11 11 8 5 3 D G 104 220 11 11 8 5 3 D G 104 220 11 11 11 11 11 11 11 11 11 11 11 11 11	3323315040000000000111323342545443444324322255787566768	2.67 2.89 2.567 1.78 9.756 0.110 0.000 0.000 12.89 13.67 13.22 13.11 12.67 13.567 14.41 14.78 13.567 14.41 14.78 13.567 7.000 9.38 13.67 14.41 14.78 15.67 16.77 17.75 1	32.950 196 196 196 196 196 196 196 197 198 198 198 198 198 198 198 198	32.74436530665600690000698836464454555906390050655165188833855530000000000000000000000000000	223.3449160609600003118800106543635515000443555676.25676767	22.22.17.0.40.0000000000000000000000000000000	222221779400000000000000000000000000000000000

TAPE	BAND	STATION	BUOY	С	Ť	TL	TR	BL	BR	, F
999999999999991121212121212121212121212	67777777777774444444444444555555555566666666	121234567890112123456789011212345678901121234	G 104 G 104 208 151 853 D G 104 208 151 853 D G 104 208 151 853 D G 104 208 151 1853 D G 104 208 151 161 161 161 161 161 161 161	70010112123229011990545856912200256401291119905458660320	7.0.3370000 01.3070000 11.0009330022222221144377922004477678011.001.307011.001.001.307011.001.001.307011.001.307011.001.307011.001.307011.001.307011.001.307011.001.307011.001.307011.001.307011.001.307011.001.307011.001.307011.001.307011.001.307011.001.307011.001.307011.001.307011.001.0	7.003.513.006.814.819.3.81.88.66.514.3.81.80.008.5.10.000.1.10.000.3.3.919.13.81.88.66.5.10.000.0.1.10.000.0.3.3.919.13.81.88.66.5.10.000.0.3.3.919.13.81.88.66.5.10.000.0.3.3.919.13.81.5.000.0.0.0.0.0.0.0.0.0.0.0.0.0.0.0.0.	7.0000.8100.8100.8386.6691.998.4696.900.8800.8810.6506.810.881.188.4696.900.8881.188.599.6691.998.6691.999.314.18.546.06.565.8804.48800.8881.6691.998.6691.996.81990.3381.6691.999.314.18.546.0691.990.3381.6691.999.314.18.546.0691.990.3381.6691.999.314.18.546.091.999.314.18.546.091.999.314.18.546.091.999.314.18.546.091.999.314.1999.314.	7.00.00.98866990960388661091960638860979488699096000000000000000000000000000000	7.3198500500499936699111885559063449539644465591113993144385599055658112213993344446591112111111111111111111111111111111111	7.000.00000000000000000000000000000000

TAPE	BAND	STATION	BUOY	С	·T	TL	TR	BL	BR	F
12 12 12 12 12 12 12	7 7 7 7 7 7 7	5 6 7 8 9 10 11	18 15 11 8 5 3 D	1 2 3 3 2 0	1.33 1.89 2.33 2.44 2.56 0.67 0.22	1.31 1.44 2.44 2.56 2.69 1.44 0.38	1.25 1.44 2.13 2.44 2.81 1.44 0.38	0.94 1.44 2.63 2.44 2.56 1.25 0.38	1.06 1.44 2.31 2.31 2.63 0.94 0.50	1.04 1.20 2.44 2.48 2.76 1.60 0.56
12	7	12	G	0	0.56	0.63	0.75	0.88	1.06	0.96

APPENDIX F

Additional RSQUARE, STEPWISE, and BACKWARD Procedures Results

APPENDIX F

STEPWISE PROCEDURE WITH THE FOLLOWING AS INDEPENDENT VARIABLES BAND_4 _6BY7_USING TAPES 1 & 9

STEPWISE REGRESSION PROCEDURE FOR DEPENDENT VARIABLE ADJTEMPC

STEP 1	VARIABLE BAND_4 ENTERED	R SQUARE = 0 . $C(P) = 11$.		
	DF SUM OF SQUARES	MEAN SQUARE	F	PROB>F
REGRESSION ERROR TOTAL	1 88.51155103 11 15.53152589 12 104.04307692	88.51155103 1.41195690	62.69	0.0001
	B VALUE STD ERROR	TYPE II SS	F	PROB>F
INTERCEPT BAND_4	4.16339038 0.61731749 0.07796853	88.51155103	62.69	0.0001
STEP 2	VARIABLE _6BY7_ ENTERED	R SQUARE = 0. C(P) = 3.		
	DF SUM OF SQUARES	MEAN SQUARE	F	PROB>F
REGRESSION ERROR	96.34895438 10 7.69412254	48.17447719 0.76941225	62.61	0.0001
TOTAL	12 104.04307692			
TOTAL	12 104.04307692 B VALUE STD ERROR	TYPE II SS	F	PROB>F

STEPWISE PROCEDURE WITH THE FOLLOWING AS INDEPENDENT VARIABLES BAND_4 4X6BY7_ USING TAPES 1 & 9

STEPWISE REGRESSION PROCEDURE FOR DEPENDENT VARIABLE ADJTEMPC

STEP 1	VARIABLE BA	ND_4 ENTERED	R SQUARE = 0 C(P) = 11	. 85072024 . 25576265	
	DF	SUM OF SQUARES	MEAN SQUARE	F	PROB>F
REGRESSION ERROR TOTAL	1 11 12	88.51155103 15.53152589 104.04307692	88.51155103 1.41195690	62.69	0.0001
	B VAL	UE STD ERROR	TYPE II SS	F	PROB>F
INTERCEPT BAND_4	4.163390 0.617317		88.51155103	62.69	0.0001
STEP 2	VARIABLE _4	×6BY7_ ENTERED	R SQUARE = 0. C(P) = 3.	. 92630257 . 00000000	
	DF	SUM OF SQUARES	MEAN SQUARE	F	PROB>F
REGRESSION ERROR TOTAL	1 2 10 12	96.37536964 7.66770729 104.04307692	48.18768482 0.76677073	62.84	0.0001
	B VAL	UE STD ERROR	TYPE II SS	F	PROB>F
INTERCEPT BAND_4 4X6BY7	5.488884 0.574574 -0.005111	0.05898661	72.75315906 7.86381860	94.88 10.26	0.0001 0.0095

STEPWISE PROCEDURE WITH THE FOLLOWING AS INDEPENDENT VARIABLES BAND_4 _5X6BY7_ USING TAPES 1 & 9

STEPWISE REGRESSION PROCEDURE FOR DEPENDENT VARIABLE ADJTEMPC

STEP 1 VARIABLE BAND_4 ENTERED			R SQUARE = 0.85072024 C(P) = 11.38097890			
	DF SU	JM OF SQUARES	MEAN SQUARE	F	PROB>F	
REGRESSION ERROR TOTAL		88.51155103 15.53152589 104.04307692	88.51155103 1.41195690	62.69	0.0001	
	B VALUE	STD ERROR	TYPE II SS	F	PROB>F	
INTERCEPT BAND_4	4.16339038 0.61731749	0.07796853	88.51155103	62.69	0.0001	
STEP 2 VA	ARIABLE _5X6E	BY7_ ENTERED	R SQUARE = 0.9 C(P) = 3.0			
	DF SU	M OF SQUARES	MEAN SQUARE	F	PROB>F	
REGRESSION ERROR TOTAL		96.42247834 7.62059858 104.04307692	48.21123917 0.76205986	63.26	0.0001	
	B VALUE	STD ERROR	TYPE II SS	F	PROB>F	
INTERCEPT	5 60262391			89.61		

STEPWISE PROCEDURE WITH THE FOLLOWING AS INDEPENDENT VARIABLES BAND 4 $-4\mathrm{BY7}_-$ USING TAPES 1 & 9

			R SQUARE = 0.85072024 C(P) = 11.84283457		
	DF SU	M OF SQUARES	MEAN SQUARE	F	PROB>F
REGRESSION ERROR TOTAL		88.51155103 15.53152589 104.04307692	88.51155103 1.41195690	62.69	0.0001
	B VALUE	STD ERROR	TYPE II SS	F	PROB>F
INTERCEPT BAND_4	4.16339038 0.61731749	0.07796853	88.51155103	62.69	0.0001
STEP 2	VARIABLE _4BY7	_ ENTERED	R SQUARE = 0. C(P) = 3.	92837838 00000000	
	DF SU	M OF SQUARES	MEAN SQUARE	F	PROB>F
REGRESSION ERROR TOTAL	10	96.59134293 7.45173399 104.04307692	48.29567146 0.74517340	64.81	0.0001
	B VALUE	STD ERROR	TYPE II SS	F	PROB>F
INTERCEPT	5.62364830				

STEPWISE PROCEDURE WITH THE FOLLOWING AS INDEPENDENT VARIABLES BAND_4 _4X4BY7_ USING TAPES 1 & 9

STEP 1 VARIABLE BAND_4 ENTERED		R SQUARE = 0.85072024 C(P) = 11.88562866			
	DF SI	JM OF SQUARES	MEAN SQUARE	F	PROB>F
REGRESSION ERROR TOTAL		88.51155103 15.53152589 104.04307692	88.51155103 1.41195690	62.69	0.0001
	B VALUE	STD ERROR	TYPE II SS	F	PROB>F
INTERCEPT BAND_4	4.16339038 0.61731749		88.51155103	62.69	0.0001
STEP 2 V	ARIABLE _4X4E	BY7_ ENTERED	R SQUARE = 0.9 C(P) = 3.0		
	DF SU	JM OF SQUARES	MEAN SQUARE	F	PROB>F
REGRESSION ERROR TOTAL		96.60661133 7.43646559 104.04307692	48.30330567 0.74364656	64.95	0.0001
	B VALUE	STD ERROR	TYPE II SS	F	PROB>F
INTERCEPT BAND_4 _4X4BY7_	0.57804287	0.05782234 0.00066241	74.31822114 8.09506030	99.94 10.89	

STEPWISE PROCEDURE WITH THE FOLLOWING AS INDEPENDENT VARIABLES BAND 4 $-5\mathrm{BY7}_-$ USING TAPES 1 & 9

STEP 1 V	STEP 1 VARIABLE BAND_4 ENTERED			R SQUARE = 0.85072024 C(P) = 11.96779970	
	DF S	UM OF SQUARES	MEAN SQUARE	F	PROB>F
REGRESSION ERROR TOTAL		88.51155103 15.53152589 104.04307692	88.51155103 1.41195690	62.69	0.0001
	B VALUE	STD ERROR	TYPE II SS	F	PROB>F
INTERCEPT BAND_4	4.16339038 0.61731749		88.51155103	62.69	.0.0001
STEP 2 V	ARIABLE _5BY	7_ ENTERED	R SQUARE = 0.9 C(P) = 3.0		
	DF S	UM OF SQUARES	MEAN SQUARE	F	PROB>F
REGRESSION	2	04 405751.04			
ERROR TOTAL	2 10 12	96.63575421 7.40732271 104.04307692		65.23	0.0001
	10 12 B VALUE	7.40732271 104.04307692		65.23 F	

STEPWISE PROCEDURE WITH THE FOLLOWING AS INDEPENDENT VARIABLES BAND_4 _4X5BY7_ USING TAPES 1 & 9

			R SQUARE = 0.85072024 C(P) = 12.03799169		
	DF SI	JM OF SQUARES	MEAN SQUARE	F	PROB>F
REGRESSION ERROR TOTAL		88.51155103 15.53152589 104.04307692	88.51155103 1.41195690	62.69	0.0001
	B VALUE	STD ERROR	TYPE II SS	F	PROB>F
INTERCEPT BAND_4	4.16339038 0.61731749	0.07796853	88.51155103	62.69	0.0001
STEP 2 V	ARIABLE _4X5	BY7_ ENTERED	R SQUARE = 0.9 C(P) = 3.0		•
	DF SI	JM OF SQUARES	MEAN SQUARE	F	PROB>F
REGRESSION ERROR TOTAL	2 10 12	96.66046830 7.38260862 104.04307692	48.33023415 0.73826086	65.46	0.0001
	B VALUE	STD ERROR	TYPE II SS	F	PROB>F
INTERCEPT BAND_4 _4X5BY7_	0.56692732		69.61324009 8.14891727	94.29 11.04	0.0001 0.0077

STEPWISE PROCEDURE WITH THE FOLLOWING AS INDEPENDENT VARIABLES BAND_4 _5X5BY7_ USING TAPES 1 & 9

STEP 1 / VA	ARIABLE BAND	_4 ENTERED	R SQUARE = 0.8 C(P) = 12.0		
	DF St	JM OF SQUARES	MEAN SQUARE	F	PROB>F
REGRESSION ERROR TOTAL		88.51155103 15.53152589 104.04307692	88.51155103 1.41195690	62.69	0.0001
	B VALUE	STD ERROR	TYPE II SS	F	PROB>F
INTERCEPT BAND_4	4.16339038 0.61731749	0.07796853	88.51155103	62.69	0.0001
STEP 2 VA	ARTABLE _5X5E	BY7_ ENTERED	R SQUARE = 0.9 C(P) = 3.0		
	DF St	M OF SQUARES	MEAN SQUARE	F	PROB>F
REGRESSION ERROR TOTAL	2 10 12	96.67615807 7.36691886 104.04307692	48.33807903 0.73669189	65.62	0.0001
	B VALUE	STD ERROR	TYPE II SS	F	PROB>F
	5.60424721 0.56034892 -0.00191293		66.76488523 8.16460703	90.63 11.08	

PROCEDURE USING THE FOLLOWING BAND_4 BAND_5 BAND_6 6 5X6 4BY5 4BY6 4BY7 5BY6 RSQUARE 4X4 5X5 4X5 4X6 **5BY6 5BY7** 4X4BY6 6X6BY5 5X6BY4 4X4BY5 4X4BY7 5X5BY4 4X6BY7 4X5BY7 4X6BY5 4X5BY6 AND THE RECIPROCALS THEREOF AS INDEPENDENT VARIABLES

REGRESSION MODELS FOR DEPENDENT VARIABLE ADJTEMPC N= 50 NUMBER IN MODEL R-SQUARE VARIABLES IN MODEL 0.02564007 0.02760783 1BY4X5_ _5X5 _7BY4X5_ 1 1 0.02767582 0.03227362 BAND_5 _1BY4X6_ _4X5_ _4BY6_ _5BY6_ _6BY6VF 0.03290005 1 0.04834220 0.05780739 0.06213129 _6BY4X5_ _4X6_ _7BY4X4_ 0.06476954 0.06844126 0.07408661 _6BY5_ _4BY5X5 0.08062777 0.10473255 5X6BY4_ 0.12665166 _5X6BY4_ _4X5BY6_ _7BY5_ _6BY4_ _5BY4X6_ 0.12914230 0.16779471 0.20062971 0.22694701 _5X5BY4_ 0.26148196 _4X6BY5_ _4X4BY6_ 0.33142114 0.33421045 _4X4BY6 _4X4_ BAND_4 _4BY5_ 0.36500733 0.41178345 0.41680165 _48Y5_ _18Y4X4_ _18Y4_ _58Y4_ _68Y4X4_ _4X48Y5_ 0.45851069 0.46126297 1 0.48733055 1 0.48813236 1 0.60066607 0.60742636 _5BY4X4_ 1 5X5BY4 1BY4XLBAND_5 5BY4 4BY6 5BY4X6 5BY6 6BY4X4 1BY4 5X6BY4 1BY4 5X6BY4 1BY4 4X4 5BY4 4X6BY5 5X5BY4 4X4 5BY4 1BY4XL 4BY5 1BY4XL 4BY5 1BY4XL 1BY5 5BY4 1BY4 1BY5 5BY4 1BY4 1BY4 1BY5 5BY4 1BY4 1BY4 1BY5 5X5BY4 4X5 BAND 4 4BY5 5X6BY4 4X6 BAND 4 BAND 5 6BY4X4 4X6 BAND 4 BAND 5 6BY4X4 4X6 2 0.64883827 1BY4X4_ 0.64896427 2222222222222222222 0.65034880 0.65058808 0.65246771 0.65414353 0.65433351 0.65512115 0.65545020 0.65639330 5BY4X4_ 0.65686787 0.65755717 0.65964903 0.66061532 0.66103889 0.66223988 0.66383671 0.66433750 0.66674276 0.66704741

RSQUARE PROCEDURE USING THE FOLLOWING

BAND_4 BAND_5 BAND_6

4X4 5X5 4X5 4X6 5X6 4BY5 4BY6 4BY7 5BY6 5BY7

4X4BY5 4X4BY6 4X4BY7 5X5BY4 6X6BY5

4X5BY6 4X5BY7 4X6BY5 4X6BY7 5X6BY4

AND THE RECIPROCALS THEREOF AS INDEPENDENT VARIABLES

N=	50	REGRESSION	MODELS FOR DEPENDENT VARIABLE ADJTEMP	C
NUMBER MODE		R-SQUARE	VARIABLES IN MODEL	
222222222	000000000000000000000000000000000000000	0.66773777 0.67135629 0.67422091 0.67615663 0.67689067 0.67925564 0.68176548 0.68277743	_5BY44X4_ _1BY44BY5_ BAND_5 _5X5BY4_ _1BY45BY4_ _1BY45X5BY4_ BAND_4 _5X5BY4_ BAND_4 _5X5BY4_ BAND_6 _5X6BY4_ _6BY44X6BY5_	

STEPWISE PROCEDURE WITH THE FOLLOWING AS INDEPENDENT VARIABLES BAND 4 58Y4 USING TAPES 1 & 9

STEPWISE REGRESSION PROCEDURE FOR DEPENDENT VARIABLE ADJTEMPC

STEP 1 VARIABLE BAND_4 ENTERED			R SQUARE = 0.85072024 C(P) = 3.51755076		
	DF S	UM OF SQUARES	MEAN SQUARE	F	PROB>F
REGRESSION ERROR TOTAL	1 11 12	88.51155103 15.53152589 104.04307692	88.51155103 1.41195690	62.69	0.0001
	B VALUE	STD ERROR	TYPE II SS	F	PROB>F
INTERCEPT BAND_4	4.16339038 0.61731749		88.51155103	62.69	0.0001
STEP 2	VARIABLE _5BY	4_ ENTERED	R SQUARE = 0.8 C(P) = 3.0		
	DF S	JM OF SQUARES	MEAN SQUARE	F	PROB>F
REGRESSION ERROR		91.63527752 12.40779941	45.81763876 1.24077994	36.93	0.0001
TOTAL	12	104.04307692	1.24011994		
TOTAL	12	104.04307692		F	PROB>F

NO OTHER VARIABLES MET THE 0.1500 SIGNIFICANCE LEVEL FOR ENTRY

STEPWISE PROCEDURE WITH THE FOLLOWING AS INDEPENDENT VARIABLES BAND_4 _5BY4_ USING TAPES 1,3,5,7,9, & 12

STEPWISE REGRESSION PROCEDURE FOR DEPENDENT VARIABLE ADJTEMPC

STEP 1 V	ARIABLE _5	BY4_ ENTERED	R SQUARE = 0.48733055 C(P) = 29.71606126		
	DF	SUM OF SQUARES	MEAN SQUARE	F	PROB>F
REGRESSION ERROR TOTAL	1 48 49	1142.98507236 1202.41492764 2345.40000000	1142.9850724 25.0503110	45.63	0.0001
	B VAL	UE STD ERROR	TYPE II SS	F	PROB>F
	28.048981 -10.512240	16 45 1.55625790	1142.9850724	45.63	0.0001
STEP 2 V	ARIABLE BA	ND_4 ENTERED	R SQUARE = 0. C(P) = 3.	68176548 00000000	
	DF	SUM OF SQUARES	MEAN SQUARE	F .	PROB>F
REGRESSION ERROR TOTAL	2 47 49	1599.01276513 746.38723487 2345.40000000	799.50638256 15.88057947	50.34	0.0001
	B VAL	UE STD ERROR	TYPE II SS	F	PROB>F
INTERCEPT BAND_4 _5BY4_	14.189448 0.7250000 -8.261629	0.13529308		28.72 39.87	0.0001 0.0001

NO OTHER VARIABLES MET THE 0.1500 SIGNIFICANCE LEVEL FOR ENTRY

STEPWISE PROCEDURE USING THE FOLLOWING BAND_4 BAND_5 BAND_6 4BY5_ 4BY6_ 4BY7_ 5BY6_ 5BY7 4X4BY5_ 4X4BY6_ 4X4BY7_ 5X5BY4_ 6X6BY5_ 4X5BY6_ 4X5BY7_ 4X6BY5_ 4X6BY7_ 5X6BY4_ AS INDEPENDENT VARIABLES

BACKWARD ELIMINATION PROCEDURE FOR DEPENDENT VARIABLE ADJTEMPC

	ΔΙΙ ΜΔΕ					
STEP 0	ALL TAI	RIABLES	ENTERED	R SQUA C(P) =	RE = 0.9083 24.0000	
	Di	F SUM	OF SQUARES	MEAN SQUA	RE F	PROB>F
REGRESSION ERROR TOTAL	N 23 26 49	5 2	30.33574873 15.06425127 45.40000000	92.623293 8.271701		0.0001
	В	VALUE	STD ERROR	TYPE II	SS F	PROB>F
INTERCEPT BAND_4 BAND_5 BAND_6 _4BY5_ _4BY6_ _5BY6_ _5BY7_ _4X4BY6_ _4X4BY6_ _4X5BY4_ _6X6BY5_ _4X5BY6_ _4X5BY6_ _4X5BY6_ _4X5BY6_ _4X5BY7_ _4X6BY5_ _4X6BY5_ _4X6BY5_ _4X6BY6_ _4X6BY6_ _4X6BY6_ _4X6BY6_ _4X6BY6_ _4X6BY6_ _4X6BY6_ _4X6BY6_ _4X6BY6_ _5X6BY4_ _5X6_ _4X6_ _5X6_ _4X6_ _5X6_ _4X6_ _5X6_ _4X6_ _5X6_	6.08 42.36 -65.36 101.23 -9.81 -4.26 -9.81 6.88 0.36 1.93 33.85 -0.36 -0.51 -0.83 -1.65	312838 589412 666586 546897 337404 344478 155996 079714 800498 920356 667314 864224 570711	20.919614 24.682222 53.807689 165.461830 103.155971 2.902058 140.110470 2.844007 16.511344 10.114381 0.250320 8.265802 15.347880 14.749953 0.256032 17.938378 0.076336 16.268738 0.407147 0.362711 0.4844322 0.571297 0.520567	0.69900 24.37370 12.20727 3.24621 7.95848 17.61068 0.04059 19.87060 1.43619 0.00068 17.75415 0.45396 40.25287 6.93137 19.65375 6.23490 1.85164 1.32484 34.92433 83.27312 135.90440 69.71518 41.84042	82 2.95 62 1.48 40 0.39 64 0.00 65 2.40 49 0.05 78 0.05 78 0.05 23 4.87 62 2.38 64 0.22 71 72 10.07 73 16.43	0.0979 0.2354 0.5365 0.3357 0.1565 0.9447 0.1332 0.6803 0.9928 0.1549 0.3684 0.3684 0.3684 0.3684 0.3932 0.6401 0.0501 0.0039 0.0004
STEP 1	VARIABL	_E _4X4E	3Y6_ REMOVED	R SQUAI C(P) =	RE = 0.9083 22.0000	
•	DF	SUM	OF SQUARES	MEAN SQUA	RE F	PROB>F
REGRESSION ERROR TOTAL	N 22 27 49	21	30.33506383 15.06493617 45.40000000	96.8334119 7.9653680		0.0001
	В	VALUE	STD ERROR	TYPE II :	SS F	PROB>F
INTERCEPT BAND_4 BAND_5 BAND_6 _4BY5_ _4BY6_ _4BY7_ _5BY6_	5.91 42.21 -65.02 -104.83 102.03	37062 155123 217504 331789 378403 889544	9.737948 17.688318 37.476999 101.052521 41.990217 2.806038 58.481310	2.937585 45.370856 23.97692 8.572536 47.036188 18.17759 0.28024	5.70 76 3.01 08 1.08 38 5.91 15 2.28	0.0243 0.0941 0.3087 0.0220 0.1425

5BY7	4.4130727	2.736089	20.7218025	2.60	0.1184
4X4B	7.0234457	4.836168	16.7997801	2.11	0.1579
4X4BY7	0.3671236	0.241972	18.3358677	2.30	0.1408
5X5BY4	2.0047182	3.398158	2.7722056	0.35	0.5601
6X6BY5	33.8070026	14.059842	46.0530391	5.78	0.0233
4X5BY6	- 13.3746703	4.528760	69.4725605	8.72	0.0064
4X5BY7	-0.3951164	0.246299	20.4989104	2.57	0.1203
4X6BY5	15.4467114	11.017271	15.6577685	1.97	0.1723
4X6BY7	0.0361630	0.074745	1.8645591	0.23	0.6324
5X6BY4	-6.6392439	7.949214	5.5564159	0.70	0.4109
4X4	- 0.8352697	0.372874	39.9699919	5.02	0.0335
5X5	- 1.1527226	0.292470	123.7351202	15.53	0.0005
4X5	1.9634140	0.474412	136.4326326	17.13	0.0003
4X6	- 1.6608870	0.500650	87.6632404	11.01	0.0026
5X6	1.1742654	0.346661	91.3963980	11.47	0.0022

STEPWISE PROCEDURE USING THE FOLLOWING STEPWISE PROCEDURE USING THE FOLLOWING BAND_4 BAND_5 BAND_6 48Y5 48Y6 48Y7 58Y6 58Y7 4X48Y5 4X48Y6 4X48Y7 5X58Y4 6X68Y5 4X58Y6 4X58Y7 4X68Y5 4X68Y7 5X68Y4 4X4 5X5 4X5 4X6 5X6 AS INDEPENDENT VARIABLES BACKWARD ELIMINATION PROCEDURE FOR DEPENDENT VARIABLE ADJTEMPC STEP 2 VARIABLE _5BY6_ REMOVED R SQUARE = 0.9081840320.03396306 C(P) =DF SUM OF SQUARES MEAN SQUARE PROB>F REGRESSION 21 2130.05481639 101.4311817 13.19 0.0001 215.34518361 2345.40000000 ERROR 28 7.6908994 TOTAL 49 **B VALUE** STD ERROR TYPE II SS PROB>F INTERCEPT -182.1884589 BAND_4 7.1105543 7.2283558 7.4422628 0.97 0.3337 BAND 5 40.4853087 0.0108 14.8304191 57.3145907 7.45 -60.1347849 26.4710645 BAND 6 39.6904334 5.16 0.0310 _4BY5_ _4BY6_ -88.1203079 46.8432878 27.2166335 3.54 0.0704 96.1549082 27.4343373 94.4780889 12.28 0.0016 4BY7_ -4.5787757 4.73 2.1055706 36.3694087 0.0383 4.7203099 36.9498525 **5BY7** 2.1535389 4.80 0.0369 4X4875 3.1651147 6.3468060 30.9249265 4.02 0.0547 4X4BY7_ 5X5BY4_ 35.9779525 0.3960724 0.1831239 4.68 0.0392 2.0406377 3.3337919 2.8815887 0.37 0.5454 6X6BY5_ 7.21 32.5394193 12.1149769 55.4819282 0.0120 4X5BY6_ -13.5730184 4.3270409 75.6742296 9.84 0.0040 _4X5BY7_ -0.4206909 33.5062111 0.2015529 4.36 0.0461 4X6BY5_ 14.0230598 7.8470527 24.5611990 3.19 0.0848 4X6BY7_ 0.0729571 1.7246858 0.0345489 0.22 0.6395 0.99 -7.2054169 7.2260384 7.6470659 5X6BY4 0.3272 4×4_ 0.2442358 79.0735154 -0.7831343 10.28 0.0034 5X5_ -1.1133499 0.2001207 238.0434769 30.95 0.0001 4X5_ 0.3589717 0.4676965 216.9677365 1.9066422 28.21 0.0001 _4X6_ 100.4214681 -1.6900084 13.06 0.0012 5X6_ 1.1537501 0.3232375 97.9844659 12.74 0.0013 VARIABLE _4X6BY7_ REMOVED R SQUARE = 0.90744868STEP 3 18.24246740 C(P) =DF SUM OF SQUARES MEAN SQUARE PROB>F 20 REGRESSION 2128.33013064 106.4165065 14.22 0.0001 ERROR 217.06986936 7.4851679 29 2345.40000000 TOTAL 49 **B VALUE** STD ERROR TYPE II SS PROB>F INTERCEPT -175.2402948 BAND_4 6.8908815 7.1163215 7.0184304 0.94 0.3409 40.3553770 -59.5375060 7.61 5.21 BAND 5 14.6282135 56.9667942 0.0099 BAND_6 26.0849537 38.9944396 0.0300 _4BY5_ _4BY6_ 28.9322932 -90.3818750 45.9717135 27.0646794 3.87 0.0589 96.1006084 94.3730619 12.61 0.0013 _4BY7_ -4.3126749 2.0018787 34.7391719 4.64 0.0397

36.6014990

32.4868895

34.6272818

4.89

4.34

4.63

0.0351

0.0461

0.0400

5BY7 _4X4BY5

4X4BY7

4.3190374 6.4795518

0.3686962

1.9531621

3.1102240

0.1714195

5X5BY4 6X6BY5	2.0510652 32.4245872	3.2888285 11.9494464	2.9112402 55.1131065	0.39 7.36	0.5377
4X5BY6	-13.7239292	4.2571816	77.7882735	10.39	0.0031
4X5BY7	-0.3690606	0.1672357	36.4534865	4.87	0.0354
4X6BY5	13.7666343	7.7229333	23.7844181	3.18	0.0851
5X6BY4	- 7.3620612	7.1212618	7.9999357	1.07	0.3098
4X4	-0.7651322	0.2380104	77.3539693	10.33	0.0032
5X5	-1.1199091	0.1969525	242.0159630	32.33	0.0001
4X5	1.9138991	0.3538150	219.0216443	29.26	0.0001
4X6	- 1.7249737	0.4556126	107.2939238	14.33	0.0007
5X6	1.1724428	0.3164981	102.7170701	13.72	0.0009

STEPWISE PROCEDURE USING THE FOLLOWING STEPWISE PROCEDURE USING THE FOLLOWING BAND_4 BAND_5 BAND_6 4BY5_ 4BY6_ 4BY7_ 5BY6_ 5BY7_ 4X4BY5_ 4X4BY6_ 4X4BY7_ 5X5BY4_ 6X6BY5_ 4X5BY6_ 4X5BY7_ 4X6BY5_ 4X6BY7_ 5X6BY4_ 4X4_ 5X5_ 4X5_ 4X6_ 5X6_ AS INDEPENDENT VARIABLES BACKWARD ELIMINATION PROCEDURE FOR DEPENDENT VARIABLE ADJTEMPC STEP 4 VARIABLE _5X5BY4_ REMOVED R SQUARE = 0.90620742 $C(P) = \cdot$ 16.59441918 DF SUM OF SQUARES MEAN SQUARE F PROB>F 111.8641521 0.0001 REGRESSION 19 2125.41889046 15.26 ERROR 30 219.98110954 7.3327037 2345.40000000 TOTAL 49 TYPE II SS F PROB>F **B VALUE** STD ERROR INTERCEPT -183.7019256 7.1738414 7.0291425 1.04 0.3156 7,6377067 BAND_4 147.5326086 138.7247117 0.0001 20.12 BAND 5 46.6956341 10.4103261 -72.0191974 16.5578303 18.92 0.0001 BAND_6 4BY5_ 44.9046647 4.48 0.0428 32.8252959 -95.0087746 4BY6_ 132.4135492 0.000218.06 103.2179212 24.2896335 _4BY7_ -5.0444776 1,6053061 72.4070466 9.87 0.0038 _5BY7 5.0273853 1.5726842 74.9316759 10.22 0.0033 _5877_ _4X4BY5_ _4X4BY7_ 31.5921082 3.0744521 4.31 0.0466 6.3815323 72.2206912 9.85 0.0038 0.4313684 0.1374515 35.4396061 10.8159360 78.7251852 10.74 0.0027 _6X6BY5_ _4X5BY6_ _4X5BY7_ 15.67 10.19 114.9197969 3.7671196 -14.9133349 0.0004 74.6858883 0.0033 -0.4297206 0.1346477 _4X6BY5_ 16.4783913 6.3171858 49.8937859 6.80 0.0140 5X6BY4_ 7.6401663 3.4018388 1.04 0.3155 -3.4724265 0.0019 _4X4_ -0.7914589 0.2318390 85.4570129 11.65 0.0001 _5X5_ 239.1127430 32.61 -1.1057352 0.1936341 4X5_ 1.9292492 0.3493447 223.6312476 30.50 0.0001 -1.6586775 14.31 ⁻4X6_ 0.4385022 104.9166633 0.0007 5X6_ 104.3307361 14.23 0.0007 1.1006248 0.2917865 R SQUARE = 0.90295096STEP 5 VARIABLE BAND 4 REMOVED C(P) =15.51777289 MEAN SQUARE PROB>F DF SUM OF SQUARES REGRESSION 18 2117.78118371 117.6545102 16.02 0.0001 227.61881629 2345.40000000 7.3425425 ERROR 31 49 TOTAL **B VALUE** STD ERROR TYPE II SS F PROB>F INTERCEPT -164.3214725 19.26 0.0001 141.4282295 BAND 5 43.2534922 9.8554477 -61.1973819 12.7257132 169.8039885 23.13 0.0001 BAND 6

44.5256883

20.5209873

1.5008164

1.4925581

2.7849698

0.1285375

7.3810995

2.9199405

0.1278216

-88.8387843

89.9330622

-4.4603531

4.5185326 7.7147906

0.3814413

27.3662102

-0.3862584

-12.4817349

3.98

19.21

8.83

9.16

7.67

8.81

13.75

18.27

9.13

0.0549

0.0001

0.0057

0.0049

0.0094

0.0057

0.0008

0.0002

0.0050

29.2301065

141.0226026

64.8529619

67.2943844 56.3447925

64.6609641

67.0492065

100.9331118 134.1678233

4BY5 _4BY6_

4BY7

5BY7 _4X4BY5

4X4BY7

6X6BY5 _4X5BY6_

_4X5BY7__

4X6BY5	18.7323676	5.9225255	73.4544192	10.00	0.0035
5X6BY4	-3.5136466	3.4038803	7.8237339	1.07	0.3099
4X4	-0.8239467	0.2297973	94.3962997	12.86	0.0011
5X5	-1.1354451	0.1915618	257.9651841	35.13	0.0001
4X5	1.9506441	0.3489490	229.4450026	31.25	0.0001
4X6	-1.5905900	0.4336882	98.7660702	13.45	0.0009
5X6	1.1143642	0.2916713	107.1799287	14.60	0.0006

STEPWISE PROCEDURE USING THE FOLLOWING BAND_4 BAND_5 BAND_6 4BY5__4BY6__4BY7__5BY6__5BY7 4X4BY5__4X4BY6__4X4BY7__5X5BY4__6X6BY5_ 4X5BY6__4X5BY7__4X6BY5__4X6BY7__5X6BY4_ 4X4__5X5__4X5__4X6__5X6__ AS_INDEPENDENT_VARIABLES

BACKWARD ELIMINATION PROCEDURE FOR DEPENDENT VARIABLE ADJTEMPC

BACKWARD	ELIMINATION	PROCEDURE FOR	DEPENDENT V	ARTABLE AL	J I EMPC
STEP 6	VARIABLE _5X	SBY4_ REMOVED	R SQUARE C(P) =	= 0.89961 14.46361	
	DF SUI	M OF SQUARES	MEAN SQUARE	.F	PROB>F
REGRESSION ERROR TOTAL	32	109.95744984 235.44255016 345.40000000	124.1151441 7.3575797	16.87	0.0001
	B VALUE	STD ERROR	TYPE II SS	F	PROB>F
INTERCEPT BAND_5 BAND_6 _4BY54BY64BY75BY74X4BY54X4BY76X6BY54X5BY64X5BY64X5BY64X5BY64X6BY54X6BY54X45X54X65X6_	-138.3521123 36.4870789 -58.5140563 -92.7696256 77.3721299 -3.5809482 3.6898696 8.2844859 0.3062093 23.1638712 -10.57771160 -0.3153960 19.7981760 -0.9593241 -1.1131731 2.0412083 -1.3850872 0.9572005	7.3669766 12.4701323 44.4079519 16.5407678 1.2368459 1.2595727 2.7325310 0.1059863 6.1631769 2.2654092 0.1079330 5.8377973 0.1888912 0.1905376 0.3380852 0.3856883 0.2490334	180.4822872 161.9993457 32.1088754 160.9877202 61.6736798 63.1408616 67.6294595 61.4146639 103.9316906 160.3895953 62.8258898 84.6227839 189.7764867 251.1302516 268.1990574 94.8890841 108.6990303	24.53 22.02 4.36 21.88 8.38 9.19 8.35 14.13 21.80 8.54 11.50 25.79 34.13 36.45 12.90 14.77	0.0001 0.0001 0.0447 0.0001 0.0068 0.0069 0.0007 0.0001 0.0001 0.0001 0.0001
STEP 7	VARIABLE _4B	75_ REMOVED	R SQUARE C(P) =	= 0.88592 16.34538	
	DF SUM	OF SQUARES	MEAN SQUARE	F	PROB>F
REGRESSION ERROR TOTAL	33 2	077.84857439 267.55142561 845.40000000	129.8655359 8.1076190	16.02	0.0001
	B VALUE	STD ERROR	TYPE II SS	F	PROB>F
INTERCEPT - BAND_5 BAND_6 _4BY64BY75BY74X4BY54X4BY76X6BY54X5BY64X5BY74X6BY54X5BY64X5BY64X5BY64X5BY64X5BY64X5BY64X5BY64X5BY65X5_	-186.6884061 34.0076854 -47.3449393 56.2311053 -3.9957583 4.1755457 4.9291711 0.3417551 17.9755668 -8.2308209 -0.3570188 12.9665676 -0.7739701 -0.9575182	7.6323445 11.8261065 13.7343690 1.2815179 1.2994980 2.3205962 0.1098143 5.9211422 2.0652332 0.1113537 5.0763603 0.1750487 0.1840862	160.9650370 129.9441954 135.9030331 78.8210760 83.7081798 36.5798544 78.5246007 74.7218364 128.7779231 83.3424109 52.8979089 158.4979735 219.3537393	19.85 16.03 16.76 9.72 10.32 4.51 9.69 9.22 15.88 10.28 19.55 27.06	0.0001 0.0003 0.0003 0.0039 0.0412 0.0038 0.0047 0.0004 0.0030 0.0154 0.0001

4X5	1.5700810	0.2644005	285.8991818	35.26	0.0001
4X6	-0.8620126	0.3079495	63.5274710	7.84	0.0085
5X6	0.7133313	0.2309173	77.3682758	9.54	0.0041

STEPWISE PROCEDURE USING THE FOLLOWING BAND_4 BAND_5 BAND_6 4BY5_4BY6_4BY7_5BY6_5BY7 4X4BY5_4X4BY6_4X4BY7_5X5BY4_6X6BY5 -4X5BY6_4X5BY7-4X6BY5_4X6BY7_5X6BY4_ 4X4_5X5_4X5_4X6_5X6_ AS INDEPENDENT VARIABLES

BACKWARD EI	LIMINATIC	N PROCE	DURE FOR	DEPENDENT	ARIABLE AD	JTEMPC
STEP 8 V	ARIABLE _	4X4BY5_	REMOVED	R SQUARI	E = 0.87032 18.76767	
	DF	SUM OF	SQUARES	MEAN SQUARE	E F	PROB>F
REGRESSION ERROR TOTAL	15 34 49	304.1	6872003 3127997 0000000	136.0845813 8.9450376		0.0001
	B VAL	UE ST	D ERROR	TYPE II S	5 F	PROB>F
INTERCEPT - BAND_5 BAND_6 _4BY64BY75BY74X4BY76X6BY54X5BY64X5BY74X6BY54X6BY54X45X54X54X65X65X6_	164.38600 28.58103 -38.78186 58.85855 -4.22988 4.22688 4.25681 9.37301 -7.49681 -0.36406 20.24488 -0.43887 -0.89116 1.31404 -1.18301 0.90543	60 7. 69 11. 53 14. 89 1. 95 1. 92 0. 15 4. 25 2. 92 0. 17 0. 31 0. 31 0.	5543561 6778215 3676107 3410861 3643723 1149147 5370328 1386872 1169112 9341034 0796746 1905554 2471794 2818329 2231738	128.0392730 98.6542793 150.1178249 88.9870399 87.06383 88.723809 38.1765466 109.9109385 86.743675 236.8760256 271.4048623 195.6401545 252.7998003 157.609558	11.03 16.78 9.95 9.73 9.73 9.72 4.27 12.29 7.9.70 26.48 30.34 21.826 17.62	0.0006 0.0022 0.0002 0.0034 0.0037 0.0034 0.0465 0.0013 0.0001 0.0001 0.0001 0.0001
STEP 9 VA	ARIABLE _	6X6BY5_	REMOVED	R SQUARE C(P) =	E = 0.85405 21.38299	
	DF	SUM OF	SQUARES	MEAN SQUARE	. F	PROB>F
REGRESSION ERROR TOTAL	14 35 49	342.30	9217339 0782661 0000000	143.0780124 9.7802236		0.0001
	B VAL	UE STI	D ERROR	TYPE II SS	5 F	PROB>F
INTERCEPT -1 BAND_5 BAND_6 -4BY64BY75BY74X4BY74X5BY64X5BY74X6BY54X45X54X65X6	08.44549 14.37773 -16.27197 35.51587 -4.61006 4.63334 0.39469 -3.85817 -0.39658 14.66249 -0.40838 -0.55076 0.90446 -0.68772 0.51181	26 3.2 89 4.3 41 9.2 31 1.3 78 1.4 41 0.1 98 1.2 81 0.1 80 0.0 47 0.1 96 0.1	7348278 9284983 7967576 8903194 1384169 1900863 6856716 2113424 3978033 3186922 0008333 5436091 5491781	188.6728753 134.1951490 143.2610725 107.7303451 105.0357232 107.5754555 90.4662923 104.8320896 235.2264521 243.3529673 296.1812036 335.7856174 192.7410688 173.5094328	13.72 14.65 11.02 10.74 11.00 9.25 10.72 24.05 24.88 30.28 34.33 19.71	0.0001 0.0007 0.0005 0.0021 0.0024 0.0024 0.0001 0.0001 0.0001 0.0001

STEPWISE PROCEDURE USING THE FOLLOWING

STEPWISE PROCEDURE USING THE FOLLOWING

BAND_4 BAND_5 BAND_6

4BY5_ 4BY6_ 4BY7_ 5BY6_ 5BY7_

4X4BY5_ 4X4BY6_ 4X4BY7_ 5X5BY4_ 6X6BY5_

4X5BY6_ 4X5BY7_ 4X6BY5_ 4X6BY7_ 5X6BY4_

4X4_ 5X5_ 4X5_ 4X6_ 5X6_

AS INDEPENDENT VARIABLES 4X5BY6_ BACKWARD ELIMINATION PROCEDURE FOR DEPENDENT VARIABLE ADJTEMPC STEP 10 VARIABLE _4X5BY6_ REMOVED R SQUARE = 0.81547961C(P) =30.31983942 SUM OF SQUARES DF MEAN SQUARE PROB>F REGRESSION 13 1912.62588107 147.1250678 12.24 0.0001 432.77411893 2345.40000000 ERROR 36 12.0215033 49 TOTAL **B VALUE** STD ERROR TYPE II SS PROB>F INTERCEPT -75.60935979 BAND_5 BAND_6 6.60779539 2.26911766 101.9431200 8.48 0.0061 61.2209311 174.7064638 4.18740791 5.09 14.53 0.0302 -9.44965264 4BY6_ 7.86647371 2.06350250 0.0005 _4BY7_ -4.31435389 1.53621027 94.8176053 7.89 0.0080 114.9951057 94.8802503 0.0038 **5BY7** 4.84231075 1.56564166 9.57 5811_ 4X4BY7_ 0.13162957 0.36979582 7.89 _4X5BY7_ 115.0855184 176.7784193 -0.41501061 0.13413072 9.57 0.0038 4X6BY5_ 12.25886430 3.19679660 14.71 0.0005 4X4_ -0.39586920 229.2496588 0.09065187 19.07 0.0001 5X5_ -0.32499547 0.07442325 229.2430441 19.07 0.0001 4X5_ 252.2439356 105.7209385 0.60846240 0.13283202 20.98 0.0001 4X6_ -0.41643945 0.14042704 8.79 0.0053 5X6_ 0.29286402 0.10853112 87.5351048 7.28 0.0105 R SQUARE = 0.78937706 C(P) = 35.72108904 STEP 11 VARIABLE BAND_6 REMOVED 35.72108904 DF SUM OF SQUARES MEAN SQUARE PROB>F REGRESSION 12 1851.40494998 154.2837458 11.56 0.0001 493.99505002 2345.40000000 37 ERROR 13.3512176 49 TOTAL B VALUE STD ERROR TYPE II SS PROB>F INTERCEPT -45.50919713 0.65509416 0.0144 88.1222676 6.60 BAND 5 1.68300779 4BY6_ 7.27486498 2.15701209 151.8677609 11.37 0.0018 _4BY7_ _5BY7_ 1.53604253 1.54770579 58.6428418 72.9531363 4.39 5.46 -3.21921740 0.0430 3.61784499 0.0249 4X4BY7_ 58.6681377 0.27586656 0.13160075 4.39 0.0430 4X5BY7_ -0.30999016 0.13257363 72.9965663 5.47 0.0249 15.12 4X6BY5_ 1.48787015 201.9318044 0.0004 5.78638007 _4X4_ 0.07199261 176.0075162 -0.26139248 13.18 0.0009 _5X5_ _4X5_ -0.20878663 0.05662491 181.5144119 13.60 0.0007 0.51753538 0.13339027 200.9799308 15.05 0.0004 -0.34971047 78.0136701 0.14467174 0.0207 _4X6_ 5.84 5X6 0.09538774 0.06765616 26.5394177 1.99 0.1669

> R SQUARE = 0.77806154C(P) = 36.92954818

STEP 12

VARIABLE _5X6_ REMOVED

	DF SUM	OF SQUARES	MEAN SQUARE	F	PROB>F
REGRESSION ERROR TOTAL	38 5	24.86553225 20.53446775 45.40000000	165.8968666 13.6982755	12.11	0.0001
	B VALUE	STD ERROR	TYPE II SS	F	PROB>F
BAND_5 _4BY6_ _4BY7_ _5BY7_ _4X4BY7_	39.80506257 1.51790785 7.46430421 -3.06602494 3.27817593 0.26275415 -0.28090626 4.84339167	0.65286651 2.18062435 1.55198124 1.54858308 0.13296693 0.13265008 1.34622805	74.0470773 160.5028852 53.4618923 61.3848767 53.4906395 61.4290400 177.3077852	5.41 11.72 3.90 4.48 3.90 4.48 12.94	0.0255 0.0015 0.0555 0.0409 0.0554 0.0408 0.0009
4X4	-0.24500297 -0.14651436	0.07196539 0.03589138	158.7673454 228.2685217	11.59 16.66	0.0016 0.0002

	STEPWI _48\ _4X4BY5_ _4X5BY6_ 	BA /54 _4X46 _4X56 _4X4_	AND_4 BAND_ 4BY64BY7 3Y64X4BY 3Y74X6BY _5X54X5	5BY65BY /75X5BY4 /54X6BY7	7_ 6X6BY5_ 5X6BY4_	•
BACKWARD _4X5_ _4X6_	ELIMINATI 0.40257 -0.16465	406	ROCEDURE FO 0.10692993 0.06163575		14.17	0.0006 0.0111
STEP 13	VARIABLE	_4BY7	_ REMOVED		= 0.75526 41.39277	
•	DF	SUM	OF SQUARES	MEAN SQUARE	F	PROB>F
REGRESSION ERROR TOTAL	10 39 49	57	71.40363991 73.99636009 15.40000000	14.7178554		0.0001
	B VA	LUE	STD ERROR	TYPE II SS	F	PROB>F
INTERCEPT BAND_5 _4BY6_ _5BY7_ _4X4BY7_ _4X5BY7_ _4X6BY5_ _4X4_ _5X5_ _4X5_ _4X6_	-25.92459 1.25568 5.38202 0.25908 0.00007 -0.02227 3.26425 -0.12346 -0.09714 0.22752 -0.10411	456 009 196 534 643 758 054 997	0.66259355 1.97873535 0.25942013 0.00082647 0.02216627 1.12282128 0.03869972 0.02670616 0.06204354 0.05543093	108.8829141 14.6795087 0.1222956 14.8644975 124.3918997 149.7908026 194.7632129 197.9293642	7.40 1.00 0.01 1.01 8.45 10.18 13.23 13.45	0.0655 0.0097 0.3241 0.9278 0.3211 0.0060 0.0028 0.0008 0.0007 0.0678
STEP 14	VARIABLE	_4X4B	BY7_ REMOVE	D R SQUARE C(P) =	= 0.75521 39.40756	
	DF	SUM	OF SQUARES	MEAN SQUARE	F	PROB>F
REGRESSION ERROR TOTAL	9 40 49	57	71.28134427 74.11865573 95.40000000	14.3529664		0.0001
	B VA	LUE	STD ERROR	TYPE II SS	F	PROB>F
INTERCEPT BAND_5 _4BY6_ _5BY7_ _4X5BY7_ _4X6BY5_ _4X4_ _5X5_ _4X5_ _4X6_ _4X6_	-26.00267 1.25693 5.39624 0.26114 -0.02235 3.27009 -0.12349 -0.09715 0.22757 -0.10433	724 092 743 703 238 519 128 353	0.65418766 1.94797012 0.25520507 0.02187235 1.10701208 0.03821514 0.02637120 0.06126738 0.05468785	110.1437223 15.0291557 14.9961151 125.2440187 149.8893371 194.6752333 198.0280058	3.69 7.67 1.05 1.04 8.73 10.44 13.56 13.80 3.64	0.0618 0.0085 0.3123 0.3128 0.0052 0.0025 0.0007 0.0006
STEP 15	VARIABLE	_4X5B	Y7_ REMOVE	D R SQUARE C(P) =	= 0.74882 39.22050	-
	DF	SUM	OF SQUARES	MEAN SQUARE	. F	PROB>F
REGRESSION	8	175	6.28522919	219.5356536	15.28	0.0001

ERROR TOTAL		89.11477081 45.40000000	14.3686529		
	B VALUE	STD ERROR	TYPE II SS	F	PROB>F
INTERCEPT	-23.44354812				
BAND 5	1.15817714	0.64736679	45.9901891	3.20	0.0810
4BY6	5.05954384	1.92096673	99.6779493	6.94	0.0119
5BY7	0.00028746	0.00034673	9.8760077	0.69	0.4119
_4X6B <u>Y</u> 5	3.11354084	1.09696498	115.7549748	8.06	0.0070
4X4	-0.11539593	0.03740508	136.7526816	9.52	0.0036
5X5	-0.08950670	0.02531095	179.6842832	12.51	0.0010
4X5	0.20559459	0.05740150	184.3286758	12.83	0.0009
4×6	-0.09244954	0.05346684	42.9592407	2.99	0.0913

STEPWISE PROCEDURE USING THE FOLLOWING
BAND_4 BAND_5 BAND_6
4BY54BY64BY75BY65BY7
4X4BY54X4BY64X4BY75X5BY46X6BY5
4X5BY64X5BY74X6BY54X6BY75X6BY4
4X45X54X54X65X6
AS INDEPENDENT VARIABLES

BACKWARD ELIMINATION PROCEDURE FOR DEPENDENT VARIABLE ADJTEMPC

STEP 16	VARIABLE _5BY7	_ REMOVED	R SQUARE C(P) =	= 0.744610 38.414453	
	DF SUM (OF SQUARES	MEAN SQUARE	F	PROB>F
REGRESSION ERROR TOTAL	42 598	6.40922151 8.99077849 5.40000000	249.4870316 14.2616852	17.49	0.0001
	B VALUE	STD ERROR	TYPE II SS	F	PROB>F
INTERCEPT BAND_5 _4BY6_ _4X6BY5_ _4X4_ _5X5_ _4X5_ _4X6_	5.20228214 3.01668047 -0.11263574 -0.08698610 0.20000517	0.64026824 1.90610078 1.08665805 0.03711768 0.02503398 0.05679162 0.05291634	41.6074229 106.2348317 109.9116334 131.3292986 172.1910763 176.8824630 38.8777008	2.92 7.45 7.71 9.21 12.07 12.40 2.73	0.0950 0.0092 0.0082 0.0041 0.0012 0.0010 0.1062
STEP 17	VARIABLE _4X6_	REMOVED	R SQUARE C(P) =	= 0.728034 41.114538	
	DF SUM (F SQUARES	MEAN SQUARE	F	PROB>F
REGRESSION ERROR TOTAL	43 637	7.53152072 7.86847928 5.40000000	284.5885868 14.8341507	19.18	0.0001
	B VALUE	STD ERROR	TYPE II SS	F	PROB>F
INTERCEPT BAND_5 _4BY6_ _4X6BY5_ _4X4_ _5X5_ _4X5_	3.03032831 1.36657300 -0.07567042 -0.08152128	0.60132384 1.40680353 0.43507874 0.03019351 0.02530733 0.04465230	19.0524412 68.8295853 146.3499686 93.1725002 13.9259801 146.4147823	1.28 4.64 9.87 6.28 10.38 9.87	0.2634 0.0369 0.0030 0.0161 0.0024 0.0030
STEP 18	VARIABLE BAND_5	REMOVED	R SQUARE C(P) =	= 0.719910 41.417866	
	DF SUM C	F SQUARES	MEAN SQUARE	, F	PROB>F
REGRESSION ERROR TOTAL	44 656	3.47907957 5.92092043 5.40000000	337.6958159 14.9300209	22.62	0.0001
	B VALUE	STD ERROR	TYPE II SS	F	PROB>F
INTERCEPT _4BY6_ _4X6BY5_ _4X4_	1.05576005).99409270).33884328).02614676	54.4598500 144.9416230 74.4671111	3.65 9.71 4.99	0.0627 0.0032 0.0307

5X5 _4X5_	-0.06150626 0.12501951	0.01818456 0.04271006	170.8022496 127.9250585	11.44 8.57	0.0015 0.0054
STEP 19	VARIABLE _4BY	6_ REMOVED	R SQUARE C(P) =	= 0.69669 46.001740	
	DF SUM	OF SQUARES	MEAN SQUARE	F	PROB>F
REGRESSION ERROR TOTAL	45 7	34.01922959 11.38077041 45.40000000	408.5048074 15.8084616	25.84	0.0001
	B VALUE	STD ERROR	TYPE II SS	. F	PROB>F
INTERCEPT _4X6BY5_ _4X4_	10.03246272 0.64376172 -0.05521480	0.26888233 0.02685038	90.6181929 66.8497174	5.73 4.23	0.0209 0.0456

STEPWISE PROCEDURE USING THE FOLLOWING	
BAND_4 BAND_5 BAND_6	
4BY54BY64BY75BY65BY7	
4X4BY54X4BY64X4BY75X5BY46X6BY5	
4X5BY64X5BY74X6BY54X6BY75X6BY4	
4X45X54X54X65X6	
AS INDEPENDENT VARIABLES	

BACKWARD _5X5_ _4X5_	ELIMINATI -0.07119 0.13850	498 0.0	DURE FOR 1796902 14334409	DEPENDENT \ 248.164511 161.4145694	15.70	TEMPC 0.0003 0.0026
STEP 20	VARIABLE	_4X4_ RE	MOVED	R SQUARE C(P) =	E = 0.668188 52.083477	
	DF	SUM OF	SQUARES	MEAN SQUARE	: F	PROB>F
REGRESSION ERROR TOTAL	3 46 49	778.2	6951219 3048781 0000000	522.389837 ^L 16.9180541		0.0001
	B VA	LUE ST	D ERROR	TYPE II SS	5 F	PROB>F
INTERCEPT _4X6BY5_ _5X5_ _4X5_	9.56088 0.43913 -0.03616 0.05264	837 0.2 238 0.0	25841013 0591211 1204538	48.8578231 632.9652716 323.1786341	37.41	0.0960 0.0001 0.0001
STEP 21	VARIABLE	_4X6BY5_	REMOVED	R SQUARE	= 0.647357 55.990100	
	DF	SUM OF	SQUARES	MEAN SQUARE	F	PROB>F
REGRESSION ERROR TOTAL	2 47 49	827.0	1168911 8831089 0000000	759.1558446 17.5976236		0.0001
	B VAI	LUE ST	D ERROR	TYPE II SS	F F	PROB>F
INTERCEPT _5X5_ _4X5_	11.181368 -0.042368 0.06877	844 0.0	0474179 0756696	1404.929892 1453.560276		0.0001 0.0001

ALL VARIABLES IN THE MODEL ARE SIGNIFICANT AT THE 0.0001 LEVEL.

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