***Report and Index of***

***Underway Marine Geophysical Data***

**Nalu Expedition**

**Leg 1**

**(NALU01RR)**

R/V Revelle

(Issued November 2000)

**Ports:**
San Diego, California (8 July 2000)
to
San Diego, California (13 July 2000)

**Chief Scientist: Kier Becker**
University of Miami

Computer Tech – Jim Charters
Resident Marine Tech – Ron Comer

Post–Cruise processing and report preparation by the
Geological Data Center, Scripps Institution of Oceanography
La Jolla, CA 92093–0223



GDC Cruise ID# 293

***Report and Index of Navigation***
***and Underway Geophysical Data***

Processed by the Geological Data Center
Scripps Institution of Oceanography

**Contents:**

**Index Chart** – gives track of cruise leg, dates, ports, and mileage of each type of data collected.

**Track Charts**– annotated with dates and hour ticks

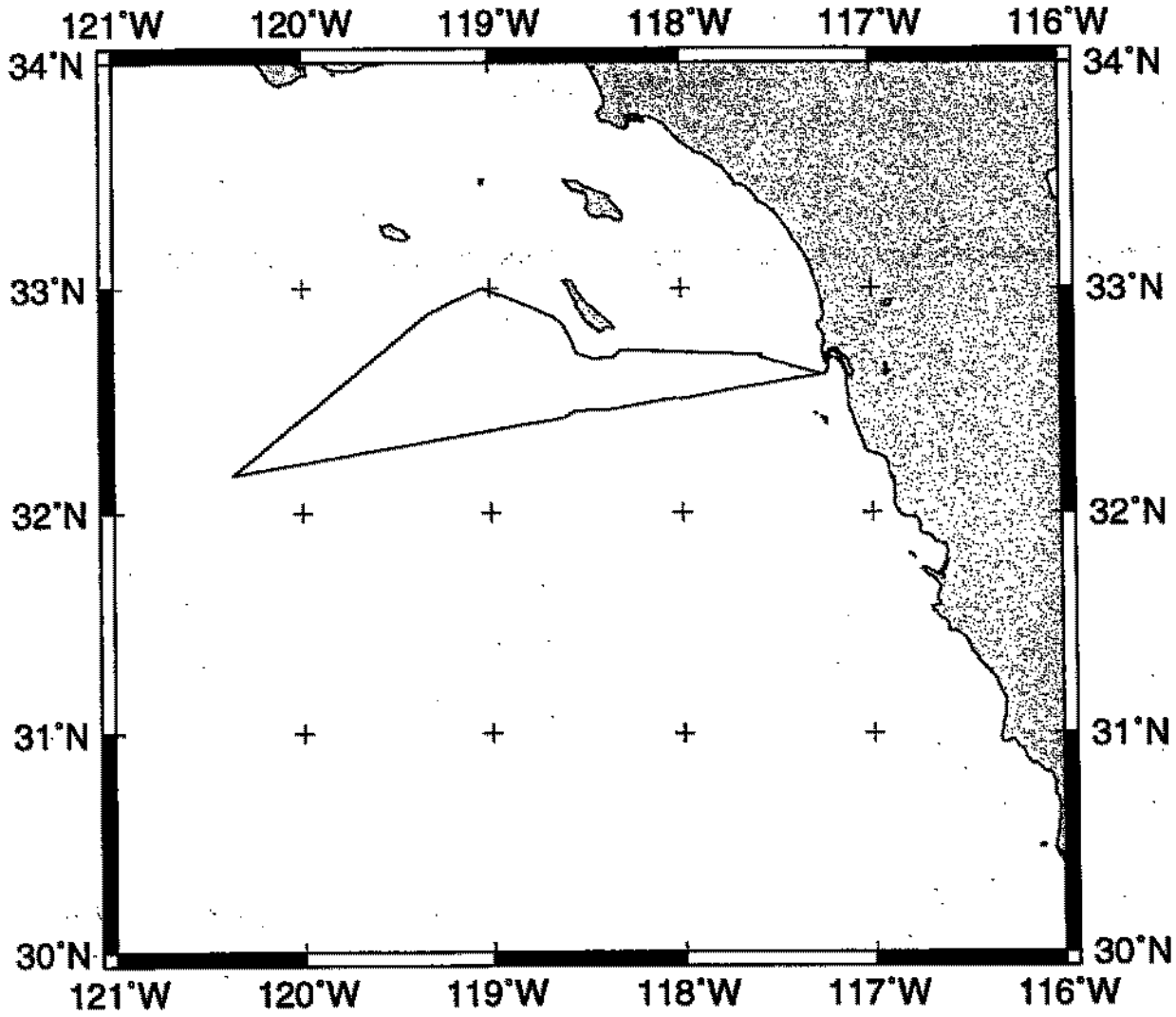
**Profiles** – depth, magnetic and gravity free air anomaly vs. distance. (Sections of track with seismic reflection data have a wide black line along the botttom of the profile.)

**Sample Index** – list of begin/end times and positions of all underway records as well as samples and measurements from other disciplines collected on the leg.

**NOTE:** One or more of the underway data types may not be collected on a given leg. For information on the availability and reproduction costs of data in the following forms, contact the Geological Data Center, Scripps Institution of Oceanography, La Jolla, California 92093–0223. Phone: (858)534–2752, Fax: (858)534–6500, internet email: ualbright@ucsd.edu or gwells@ucsd.edu

1. Files via ftp or on 8mm (Exabyte) magnetic tape or CDrom:
   a) Separate time series ASCII files of navigation, single beam depth, gravity and magnetics.
   b) Above data in a single merged ASCII file in the MGD77 Exchange Format.
   c) SeaBeam depth data (binary, Sun byte order)
   d) SeaBeam Sidescan data.
2. Microfilm (35mm flowfilm) or hard copies of:
   a) Underway watch log
   b) SeaBeam vertical beam profile/Sidescan records.
   c) 3.5 kHz and 12 kHz echosounder records.
   d) Seismic reflection profiler records.
3. Navigation abstract listing with times and positions of major course and speed changes.
4. Custom plots in Mercator projection:
   a) Track plots.
   b) SeaBeam depth contour plots.
   c) Depths, magnetic or gravity values printed or profiled along track.

Rev 6/2000




**NALU EXPEDITION LEG 1 (NALU01RR)**

**CHIEF SCIENTIST: Kier Becker, University of Miami, Florida**

**PORTS: San Diego - San Diego, California**

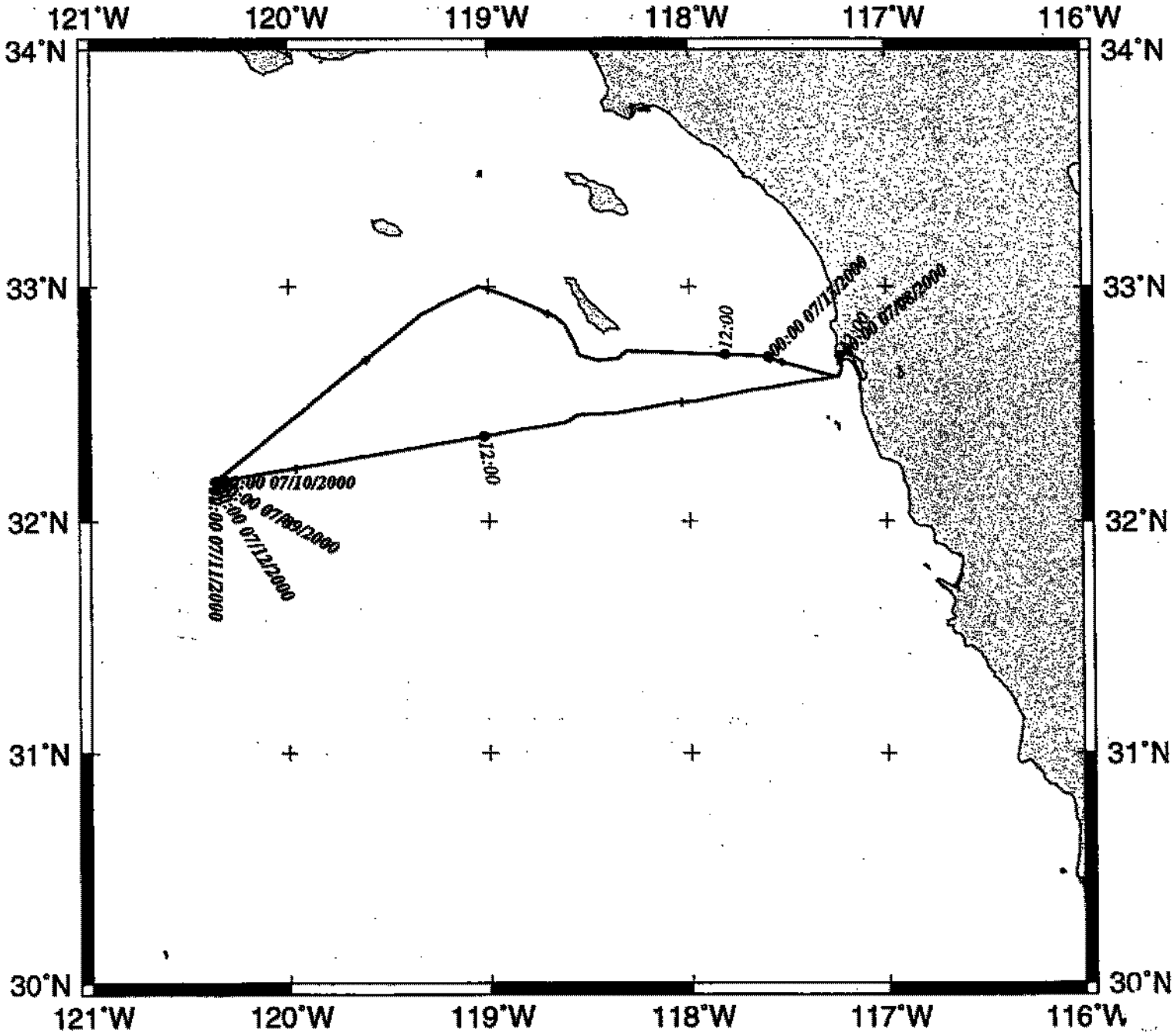
**DATES: 08 - 13 July 2000**

**SHIP: R/V Revelle**

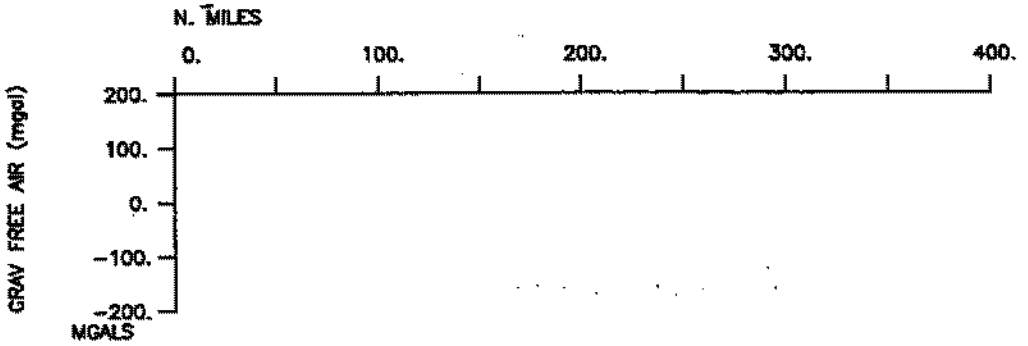
**TOTAL MILEAGE OF UNDERWAY DATA COLLECTED**

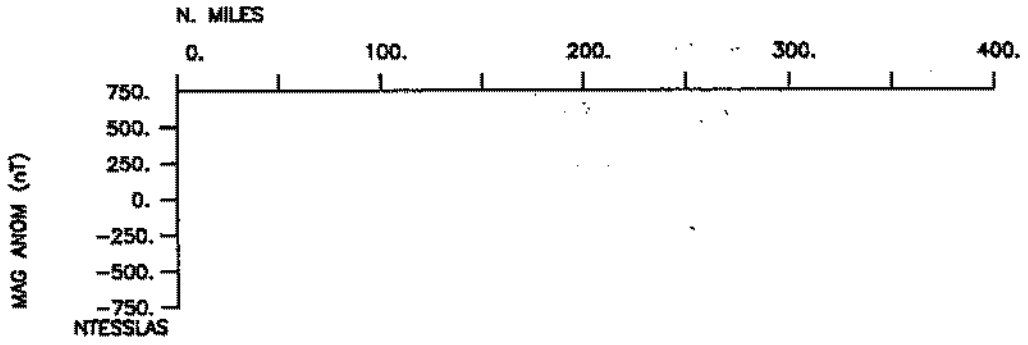
| | |
|---|---|
| **Cruise- 366 miles** | **Magnetics- none collected** |
| **Bathymetry- 335 miles** | **Seismic Reflection- none collected** |
| **Sea Beam- 335 miles** | **Gravity- none collected** |

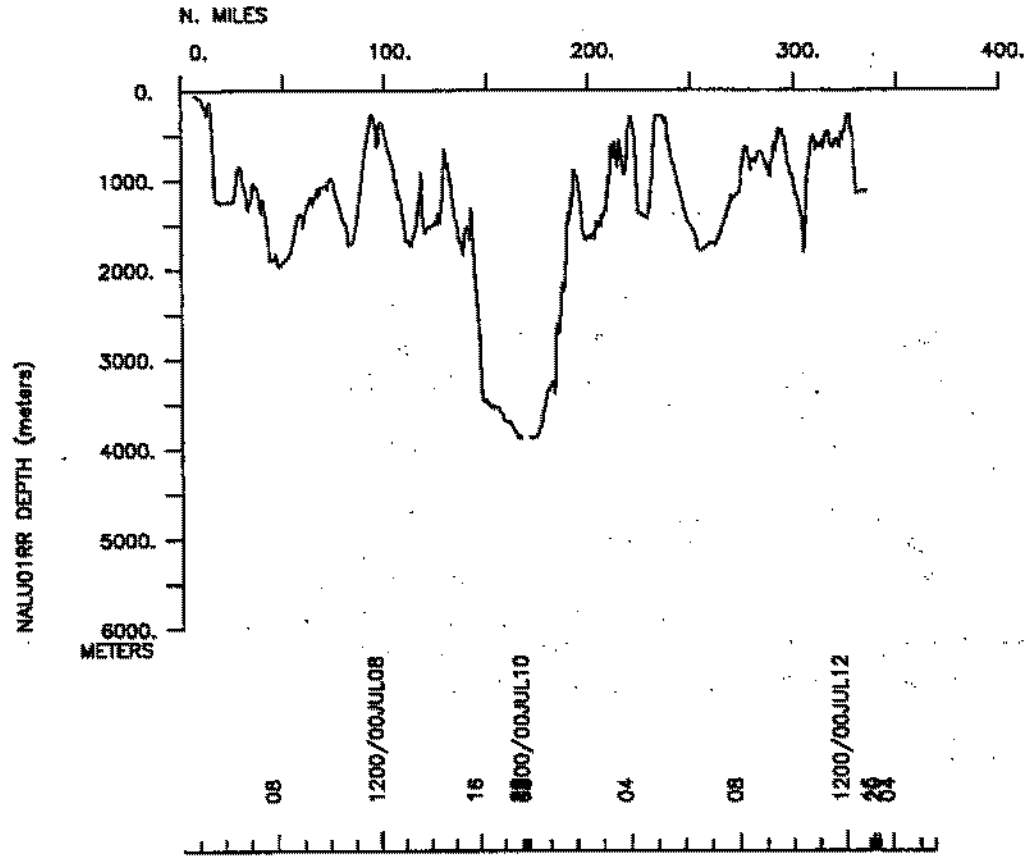
# NALU leg 1 Track




GMT Oct 25 08:20 :San Diego - San Diego, California 7 - 13 July 2000 :


N. MILES
0.
100.
200.
300.
400.
GRAV FREE AIR (mgal)
200.
100.
0.
−100.
−200.
MGALS


N. MILES
0.
100.
200.
300.
400.
MAG ANOM (nT)
750.
500.
250.
0.
−250.
−500.
−750.
NTESSLAS


N. MILES
0.
100.
200.
300.
400.
NALU01RR DEPTH (meters)
0.
1000.
2000.
3000.
4000.
5000.
6000.
METERS
08
1200/00JUL08
16
00/00JUL10
04
08
1200/00JUL12

# S.I.O. Sample Index

## Nalu Expedition

## Leg 1

## (NALU01RR)

R/V Revelle

(Issued November 2000)

**PORTS:**

San Diego, California (8 July 2000)
to
San Diego, California (13 July 2000)

**Chief Scientist:** Kier Becker
University of Miami

*The Sample Index is a first level interdisciplinary listing of time, position, sample identification and disposition of all samples, records and measurements collected on this cruise leg. The index data are encoded at sea by the resident marine technician and processed on shore by the S.I.O. Geological Data Center shortly after the completion of the cruise leg.*

*Positions are interpolated on the basis of sample time by comparison to a single, edited navigation file. Samples beginning at one time and position and ending at another are entered on two consecutive lines. Disposition and sample type are represented by three and four character codes to permit future computer searches on these parameters. (Listings defining these codes are available from the Geological Data Center.)*

GDC Cruise ID# 293

```
#*** Ports ***

0405 080700    LGPT B San Diego, Calif.          32-40.00N 117-14.00W f NALU01RR
0605 130700    LGPT E San Diego, Calif.          32-40.00N 117-14.00W f NALU01RR


#*** Personnel ***
#         ********NAME******** ******TITLE******  *****AFFILIATION**** **CRID**
#--- ---- -------------------- ------------------  -------------------- --------

PECS SIX  Becker,K.            Chief Scientist     U. of Miami, Fla.    NALU01RR
PESP MPL  Spiess,F.            Scientist           Scripps Institution  NALU01RR
PESP MPL  deMoustier,C.        Scientist           Scripps Institution  NALU01RR
PESP MPL  Davis,E.             Scientist           Scripps Institution  NALU01RR
PESP MPL  Pinkel,R.            Scientist           Scripps Institution  NALU01RR
PESP MPL  Hildebrand,J.        Scientist           Scripps Institution  NALU01RR
PESP MPL  Zumberge,M.          Scientist           Scripps Institution  NALU01RR
PESP MPL  Slater,E.            Engineer            Scripps Institution  NALU01RR
PESP MPL  Austin,G.            Engineer            Scripps Institution  NALU01RR
PESP MPL  Chadwell,D.          Scientist           Scripps Institution  NALU01RR
PESP MPL  Goldin,M.            Technician          Scripps Institution  NALU01RR
PESP MPL  Husmann.E.           Technician          Scripps Institution  NALU01RR
PESP MPL  Jabson,D.            Engineer            Scripps Institution  NALU01RR
PESP SIX  Kinoshita,M.         Scientist           Toka University      NALU01RR
PESP SIX  Kyo,M.               Scientist           JAMSTECH             NALU01RR
PESP SIX  Mikada.H.            Scientist           JAMSTECH             NALU01RR
PESP MPL  Price,D.             Electronics tech    Scripps Institution  NALU01RR
PESP MPL  Zimmerman,R.         Engineer            Scripps Institution  NALU01RR
PEST SIO  Sweeney,A.           Graduate student    Scripps Institution  NALU01RR
PEST SIO  Edwards,K.           Graduate student    Scripps Institution  NALU01RR
PEST SIO  Arrigoni,V.          Student             Scripps Institution  NALU01RR
PEST SIO  Rainville,L.         Student             Scripps Institution  NALU01RR
PEST SIO  Skerrit,J.           Student             Scripps Institution  NALU01RR
PECT SCG  Charters,J.          Computer tech       Scripps Institution  NALU01RR
PERT STS  Comer,R.             Resident tech       Scripps Institution  NALU01RR


#*** NOTES ***
#An 'X' in the (B)egin/(E)nd column following the sample code indicates no
#sample or data recovered.  A 'C' indicates continuation of data collection
#from before the beginning or after the end of a particular leg, (moored
#bottom instruments, for example.)  The number appearing in the columns
#between the sample identifier and the disposition code, for many sample
#entries, is the water depth in corrected meters.

#GMT DDMMYY    SAMP B SAMPLE                DISP                        p CRUISE
#TIME DATE  TZ CODE E IDENTIFIER            CODE LATITUDE  LONGITUDE    c LEG-SHIP
#---------- -- ---- - --------------------- ---- --------- ----------- - --------

#*** Underway Data Curator - Geological Data Center ext. 41899 *


#*** Sea Beam Records (vertical beam and side scan) ***

0425 080700  0 MBSR B v.beam&sidescan r-01 GDC  32-40.75N 117-13.80W g NALU01RR
1253 120700  0 MBSR E v.beam&sidescan r-01 GDC  32-42.08N 117-36.15W g NALU01RR
```

```
#GMT DDMMYY     SAMP B SAMPLE                  DISP                          p CRUISE
#TIME DATE   TZ CODE E IDENTIFIER              CODE LATITUDE   LONGITUDE     c LEG-SHIP
#---------- -- ---------------------------- ---- --------- ---------- - --------

#*** Echo Sounder Records ***

0030 120700  0 DPR3 B Knudsen 3.5kHz r-01   GDC  32-12.08N 120-19.02W g NALU01RR
0405 120700  0 DPR3 E Knudsen 3.5kHz r-01   GDC  32-42.00N 119-35.92W g NALU01RR


#*** Bore Hole Test ***

1541 120700  0 DHXX B test strain meter     MPL  32-41.85N 117-35.26W g NALU01RR
1956 120700  0 DHXX E test strain meter     MPL  32-42.39N 117-14.17W g NALU01RR


#*** Integrated Meteorological Acquisition System ***

0405 080700  0 IMET B weather data          GDC  32-42.39N 117-14.15W g NALU01RR
0605 130700  0 IMET E weather data          GDC  32-42.40N 117-14.17W g NALU01RR

#                          End Sample Index                             NALU01RR
```