94038

U.S. GEOLOGICAL SURVEY-BRANCH OF ATLANTIC MARINE GEOLOGY

CRUISE REPORT

1. SHIP NAME (Parent vessel)/SUBMERSIBLE/OWNER-OPERATOR:
   ELUSIVE
   NOAA, National Undersea Research Center, Wilmington, NC

2. PRE-CRUISE SERIAL # AND CRUISE-LEG:
   ELUS 94-1

3. PROJECT # AND NAME:
   ????

4. FUNDING AGENCY:
   USGS (materials, system, tech personnel)
   NOAA-NURC/UNCW (ship, crew)

5. CONTRACT (If applicable):
   ??????

6. AREA OF OPERATIONS:
   Wrightsville Beach, NC shoreface
   77d46.7'W 34d12.6'N

7. DATES AND PORTS OF CALL:
   Dayboat operations, return to dock each day
   Airlie Creek Marina, Wrightsville Beach, NC

8. CHIEF SCIENTIST(S):
   W. C. Schwab (USGS)
   E. R. Thieler (Duke University)

9. SCIENTIFIC PARTY (Names,affiliations,cruise duties):
   B. Schwab - chief scientist
   R. Thieler (Duke University) - chief scientist
   B. Danforth - image processing
   D. Nichols - technician
   B. Irwin - navigation tech
   M. Allison - asst. image proc.
   A. Brill (Duke University) - visiting scientist (one day)

10. SHIP'S CAPTAIN (and affiliation):
    Captain Dan Aspenleiter, NOAA-NURC/UNCW
    Crew:
        Glenn Taylor, Mission Coordinator, NOAA-NURC/UNCW

11. PURPOSE OF CRUISE (brief statement)
    Digital sidescan sonar survey of Wrightsville Beach, NC shoreface and inner shelf. Shipek grab sampling.

12. NAVIGATION TECHNIQUES:
    Ashtec real-time differential GPS

13. SCIENTIFIC EQUIPMENT:
    Klein towfish
    QMIPS
    Ashtec GPS
    Lowrance fathometer (shipboard)
    Shipek sampler (Duke University)
    DECstation, Raytheon printer, etc.

14. TABULATED INFORMATION:

DAYS AT SEA: 5

CONTINUOUS DATA (in km): 331.32 km

STATIONS OCCUPIED (stationary and underway): 18

SUBMERSIBLE DIVES (BY #):

One SCUBA transect by Thieler and Taylor at site WBSS-18

STATION INFORMATION:

Station number: WBSS-1 through WBSS-18

Date of occupation: 11 Mar 1994

Longitude	Latitude	Station_No.
-77.790388	34.176605	WBSS-1
-77.777575	34.1902317	WBSS-2
-77.782883	34.1930667	WBSS-3
-77.788323	34.18379	WBSS-4
-77.786855	34.1927683	WBSS-5
-77.800485	34.1914917	WBSS-6
-77.800295	34.1870967	WBSS-7
-77.796092	34.1860267	WBSS-8
-77.789553	34.1975917	WBSS-9
-77.791062	34.2009483	WBSS-10
-77.787075	34.20682	WBSS-11
-77.782028	34.2097583	WBSS-12
-77.78637	34.2125817	WBSS-13
-77.761077	34.2143183	WBSS-14
-77.77116	34.224415	WBSS-15
-77.763397	34.2027033	WBSS-16
-77.77296	34.20006	WBSS-17
-77.796038	34.1871883	WBSS-18

Water depth: ?? (TBD from bathy data)

Sampling device (dive #): Shipek

Number and type of samples: 18 sfc. grab samples

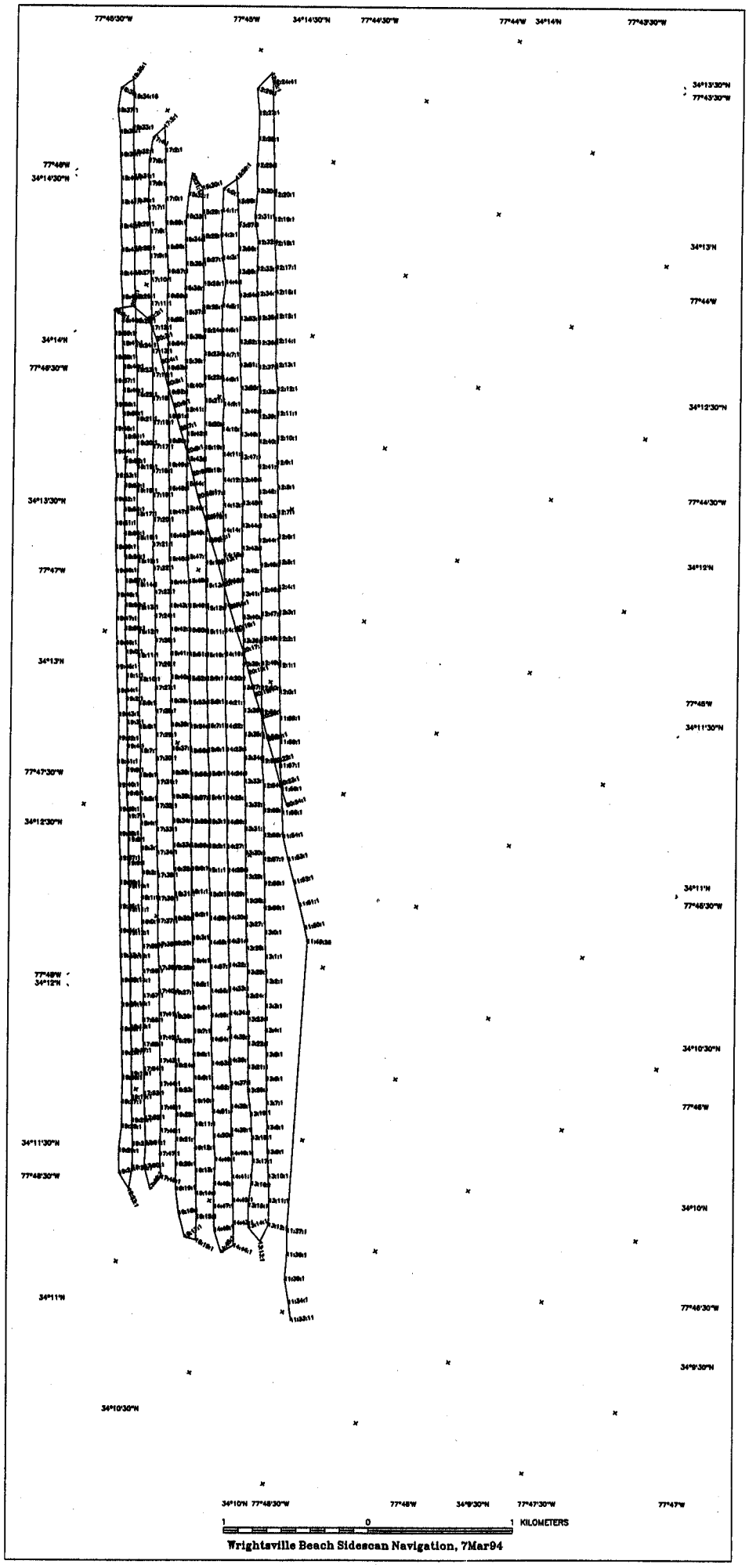
Remarks:

Sample lab analysis done at USGS for W.C. Schwab

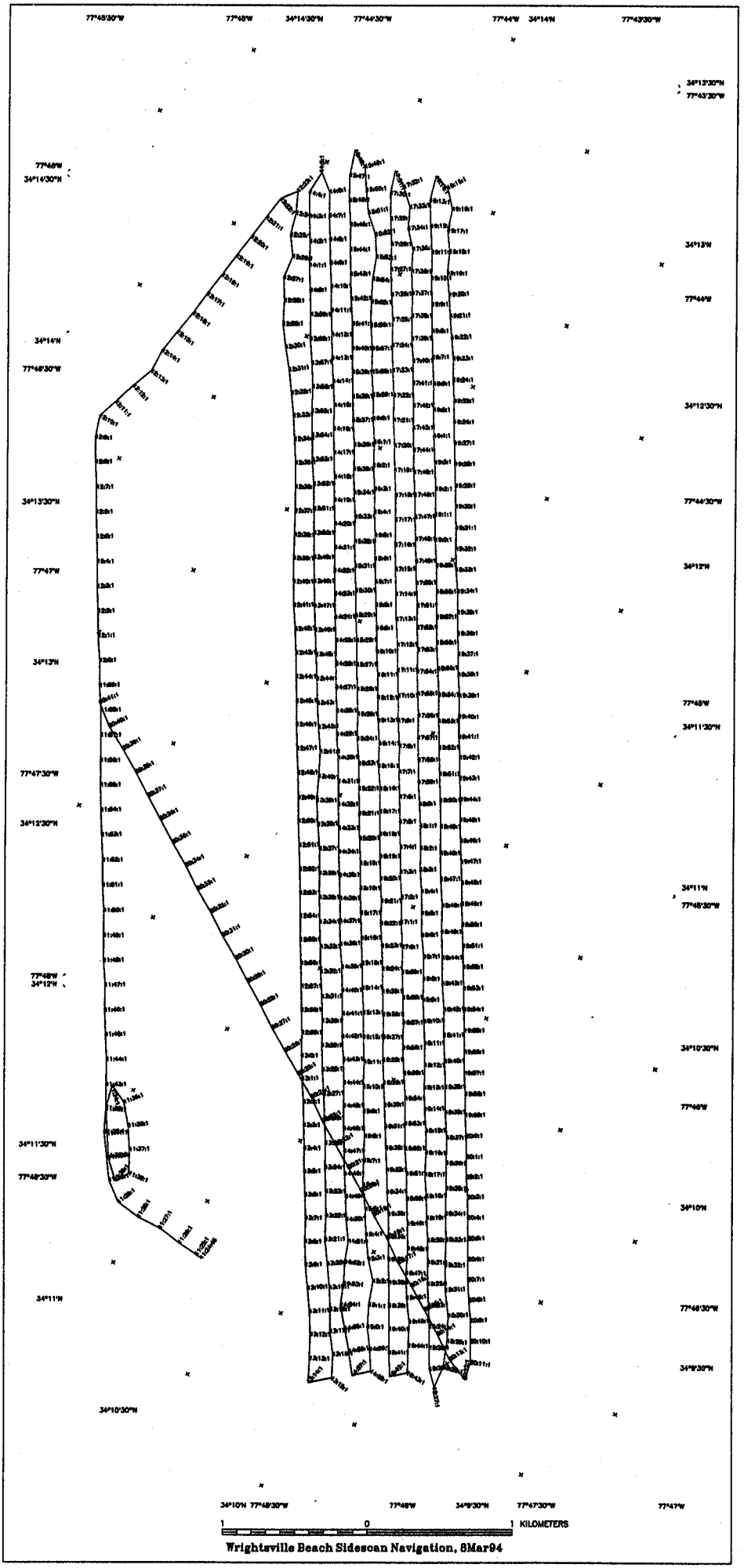
15. PAGE-SIZE TRACKCHART (including station & line #'s)

See attached.

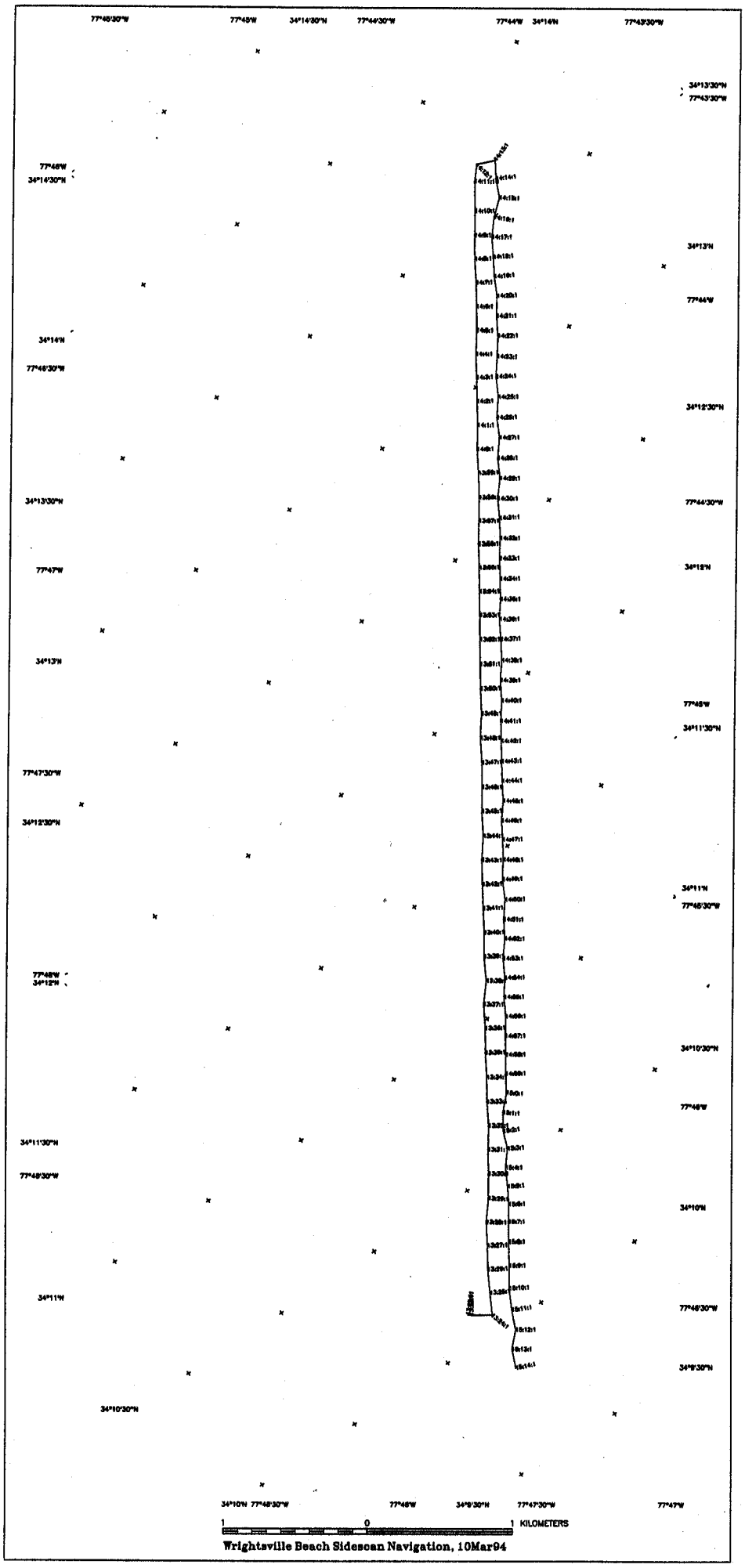
16. SUBMITTED BY: E. R. Thieler



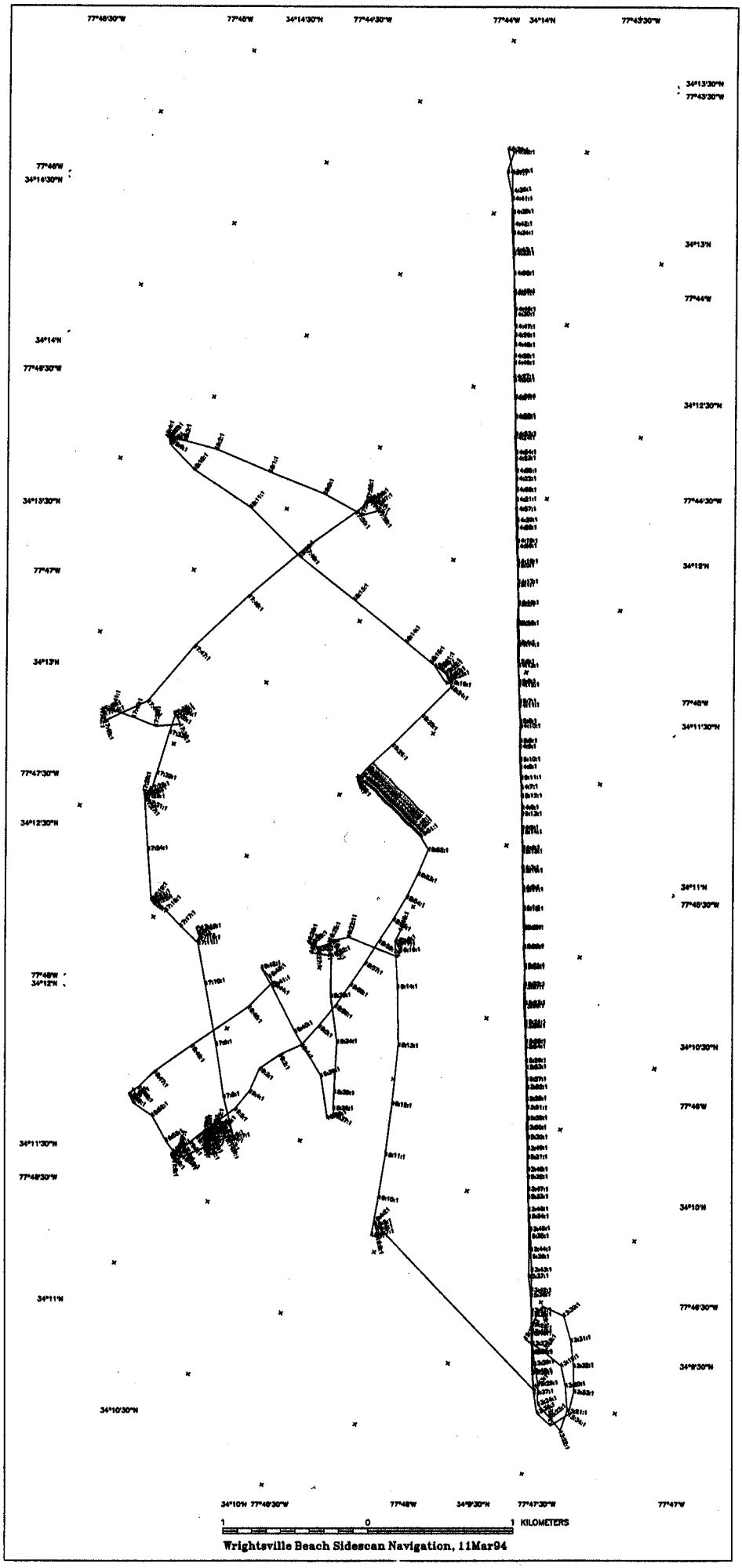
Wrightsville Beach Sidescan Navigation, 7Mar94



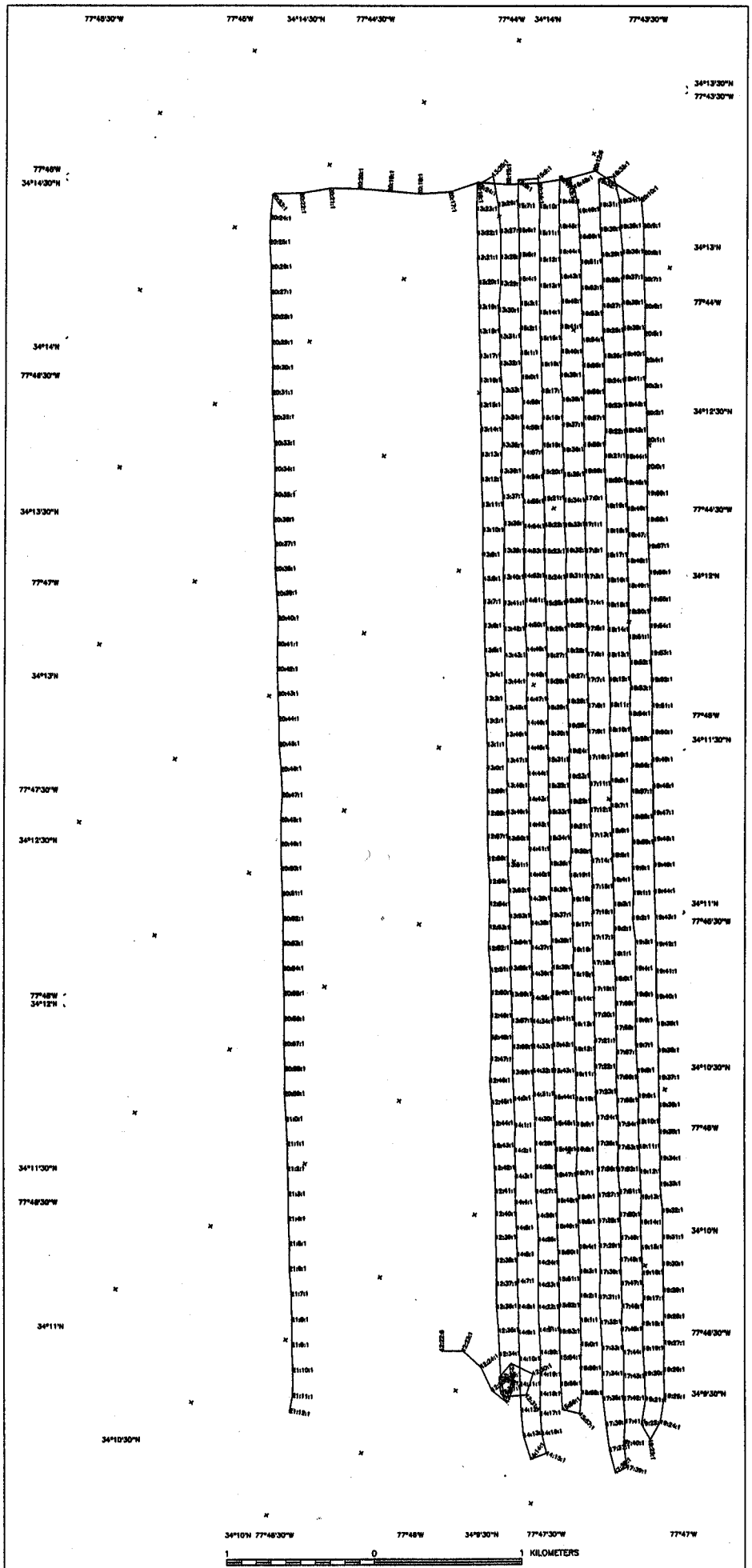
Wrightsville Beach Sidescan Navigation, 8Mar94



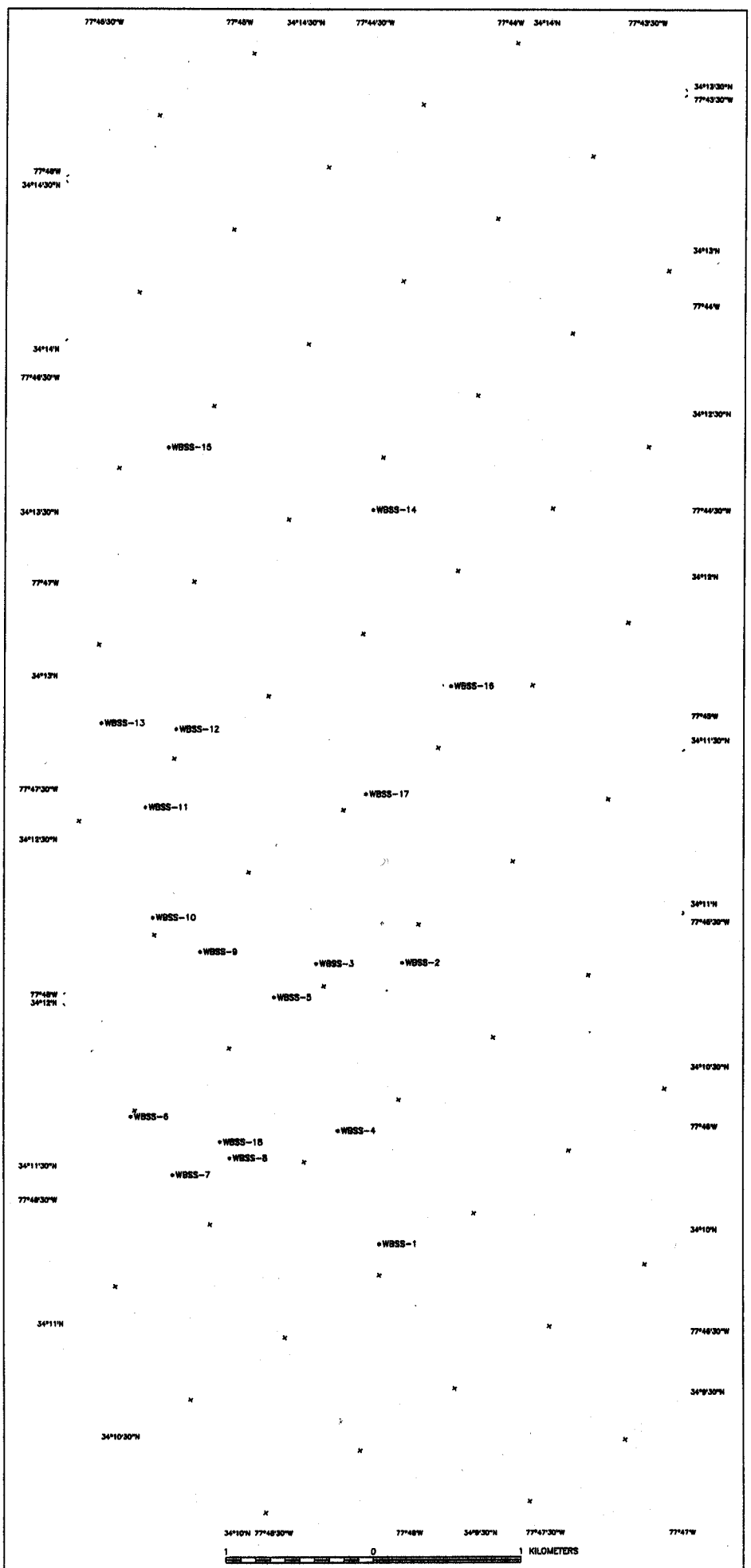
Wrightsville Beach Sidescan Navigation, 10Mar94



Wrightsville Beach Sidescan Navigation, 11Mar94



Wrightsville Beach Sidescan Navigation, 12Mar94



Wrightsville Beach Sidescan Surface Sample Sites