**SHIP OPERATIONS SCHEDULE 1991**
Oregon State University
R/V WECOMA
FINAL

<table>
<thead>
<tr>
<th>CRUISe</th>
<th>MAP INDEX/AREA/ DATES</th>
<th>PURPOSE</th>
<th>P.I./INSTITUTION/ PROPOSAL NO.</th>
<th>PORTS</th>
<th>DAYS/AGENCY/ STATUS/CLEAR</th>
</tr>
</thead>
<tbody>
<tr>
<td>04 JAN</td>
<td>NP9/CENTRAL</td>
<td>NOWELL/UW/</td>
<td>(Not Avail.)</td>
<td>NEWPORT</td>
<td>10/NAVY/F</td>
</tr>
<tr>
<td>14 JAN</td>
<td>CA SHELF/STRESS</td>
<td></td>
<td></td>
<td>NEWPORT</td>
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<tr>
<td>17 JAN</td>
<td>NP9/OR-WA COAST/</td>
<td>HICKEY/UW/</td>
<td>OCE-8918193</td>
<td>NEWPORT</td>
<td>23/NSF/F</td>
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<tr>
<td>08 FEB</td>
<td>COLUMBIA PLUME EXP.</td>
<td></td>
<td></td>
<td>ASTORIA</td>
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<tr>
<td>09 FEB</td>
<td>NP9/OUT OF SERVICE</td>
<td>NONE/NONE</td>
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<td>ASTORIA</td>
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<tr>
<td>14 FEB</td>
<td>REPAIRS</td>
<td>OCE SHIP OPS</td>
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<td>15 FEB</td>
<td>NP9/OR-WA COAST/</td>
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<td>ASTORIA</td>
<td>11/NSF/F</td>
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<td>ASTORIA</td>
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<tr>
<td>06 MAR</td>
<td>NP9/CENTRAL</td>
<td>NOWELL/UW/</td>
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<td>10/NAVY/F</td>
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<tr>
<td>16 MAR</td>
<td>CA SHELF/STRESS</td>
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<td>NEWPORT</td>
<td></td>
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<tr>
<td>06 APR</td>
<td>NP9/OR-WA COAST/</td>
<td>HICKEY/UW/</td>
<td>OCE-8918193</td>
<td>NEWPORT</td>
<td>08/NSF/F</td>
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<td>13 APR</td>
<td>COLUMBIA PLUME EXP</td>
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<td>19 APR</td>
<td>NP9/34N,127W/</td>
<td>MOUM/OSU/</td>
<td>N00014-89J3211</td>
<td>NEWPORT</td>
<td>21/NAVY/F</td>
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<td>10 MAY</td>
<td>TURBULENCE FLUX</td>
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<td>13 MAY</td>
<td>SHIPYARD</td>
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<td>NEWPORT</td>
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<td>07 JUN</td>
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<td>SEATTLE</td>
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<td>12 JUN</td>
<td>NP9/WA MARGIN/</td>
<td>DEVOL/UW/</td>
<td>OCE-8817109</td>
<td>SEATTLE</td>
<td>21/NSF/F</td>
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<td>03 JUL</td>
<td>BENTHIC FLUXES</td>
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<td>NEWPORT</td>
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</table>
08 JUL NP9/OFF COOS BAY, OR/  
10 JUL MOORING RECOVERY  

SMITH/OSU/  
OCE-8709930  
NEWPORT  
02/NSF/F  

17 JUL NP9/FARALLON IS./  
02 AUG SITE STUDIES  
(Not Avail.)  

VAN PEETERS/  
WEST DIV/  
NEWPORT  
17/NAVY/F  

14 AUG OPEN/  
07 SEP MAINTENANCE  

NEWPORT  
NEWPORT  

09 SEP NP9/OR MARGIN/  
14 SEP BURY OBS  

YAMAMOTO/RSMAS/  
OCE-9012126  
NEWPORT  
06/NSF/F  

18 SEP NP9/NE PAC./  
02 OCT FLUORESCENCE/  

COWLES/OSU/  
OCE-8620174  
NEWPORT  
14/NSF/F  

09 OCT NP9,12/NE PAC/  
16 OCT TRANSIT  

NONE/NONE/  
OCE SHIPOP  
NEWPORT  
08/NSF/F  

19 OCT NP12/HAWAII/  
24 OCT HOTS  

LUKAS,KARL/HAWAII  
OCE-8717195  
HONOLULU  
05/NSF/F  

28 OCT NP12/EQ.AT 140W/  
30 NOV TROP.INS.WAVES  

CALDWELL/OSU/  
OCE-8816098  
HONOLULU  
34/NSF/F  

04 DEC NP12/HAWAII/  
09 DEC HOTS  

LUKAS,KARL/HAWAII  
OCE-8717195  
HONOLULU  
05/NSF/F  

12 DEC NP12/HAWAII/  
16 DEC TILTMETER RECOVERY  

CONSTABLE/SIO/  
OCE-8911428  
HONOLULU  
04/NSF/F  

17 DEC MAINTENANCE  
31 DEC  

NONE/NONE/  
OCE SHIPOP  
HONOLULU  
HONOLULU  

NOTE: NORMAL DEPARTURE AND ARRIVAL TIMES ARE 10:00 LOCAL ON THE DATES 
INDICATED. THE 24- HOUR SHIP OPERATING DAY ENDS AT 10:00 RATHER 
THAN MIDNIGHT UNLESS OTHER ARRANGEMENTS ARE MADE.  

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NSF DAYS  154  
NAVY DAYS  58  
TOTAL  212