	Page 1
	FOR COLLATIMG CENTRE USE
CRUISE SUMMARY REPORT	Centre: DOD Ref. No.:
	Is data exchange
	restricted Yes In part No
SHIP enter the full name and international radio call sign of the ship from which the data were c example, research ship; ship of opportunity, naval survey vessel; etc.	ollected, and indicate the type of ship, for
Name: ALKOR	Call Sign: DBND
Type of ship: Research vessel	
CRUISE NO. / NAME AL-232	enter the unique number, name or acronym assigned to the cruise (or cruise leg, if appropriate).
CRUISE PERIOD start (set sail) $\frac{30/10/2003}{day/ month/ year}$ to $\frac{11/11/2003}{day/ month/ year}$ er	nd urn to port)
PORT OF DEPARTURE (enter name and country) Kiel, Germany	
PORT OF RETURN (enter name and country) Kiel, Germany	
RESPONSIBLE LABORATORY enter name and address of the laboratory responsible the cruise	e for coodinating the scientific planning of
Name: GEOMAR, Research Centre for Marine Geosciences, U	niversity Kiel
Address: Wischhofstr. 1-3, 24148 Kiel	
Country: Germany	
CHIEF SCIENTIST(S) enter name and laboratory of the person(s) in charge of the scient	ific work (chief of mission) during the cruise.
Dr. Olaf Pfannkuche (GEOMAR Research Centre, University	Kiel, Germany)
OBJECTIVES AND BRIEF NARRATIVE OF CRUISE enter sufficient information	about the purpose and nature of the cruise so
as to provide the context in	which the report data were collected.
Research Programme: Geo-biological investigations of aphotic coral reef systems in the NE-Sk	agerrak.
Survey of existing coral reefs and search for new occurrences of aphotic	c reef building corals (Lophelia
pertusa) in the NE-Skagerrak: - bathymetric surveys for the indentifications of potential new reef sites	
 ground truthing with grab samples grab samples for age determination of existing and decayed coral reef 	9
- ROV surveys of new coral reef sites	
- CTD casts to describe environmental physical oceanographic condition	ns of coral occurrence
PROJECT (IF APPLICABLE) if the cruise is designated as part of a larger scale cooperation of the project, and of organisation responsible for co-ordinating the project.	tive project (or expedition), then enter the name
Project name: ALKOR 232	

Coordinating body: GEOMAR

and wh	no may l	be conta	cted for	further i	informati	ion abou	it the data. (ess of the Principal Investigators responsible for the data collected on the cruise The letter assigned below against each Principal Investigator is used on pages which he/she is responsible)
A. C	or. Ola	af Pfai	nnkud	che, G	EOM	AR		
в. F	Prof. D	Dr. An	dre F	reiwal	ld, Ge	ologi	cal Instit	ute, University Erlangen, Germany
С. Т	omas	s Luno	dälv. 1	Fiärnö	5 Labo	orator	y, Swed	en
D.			,				,	
E.								
F.								
моо	RING	S, BOT	том	MOUN	ITED C	BEAR	AND DRI	FTING SYSTEMS
Separa	te entries	should b	e made f	or each lo	ocation (o	nly deplo	yment positio	nd drifting systems (both surface and deep) deployed and/or recovered during the cruise. Ins need be given for drifting systems). This section ed to routinely in order to construct 'long time series'.
PI		APP	ROXIMA	TE POSI	TION		DATA TYPE	DESCRIPTION Identify, as appropriate, the nature of the instrumentation the parameters (to be
See		LATITUD	E 	L	ONGITUI	DE	enter	measured, the number of instruments and their depths, whether deployed and/o recovered, dates of deployments and/or recovery, and any identifiers given to the site.
top of page.	deg	min	N/S	deg	min	E/W	code(s) from list on cover page.	
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1		1	1	1	1	1	1	

sc s	1 a	 		 		
sary	Please continue on separate sheet if neces					
			-			-

Daga 3

SUMMARY OF MEASUREMENTS AND SAMPLES TAKEN

Except for the data already described on page 2 under 'Moorings, Bottom Mounted Gear and Drifting Systems', this section should include a summary of all data collected on the cruise, whether they be measurements (e.g. temperature, salinity values) or samples (e.g. cores, net hauls).

Separate entries should be made for each distinct and coherent set of measurements or samples. Different modes of data collection (e.g. vertical profiles as opposed to underway measurements) should be clearly distinguished, as should measurements/sampling techniques that imply distinctly different accuracy's or spatial/temporal resolutions. Thus, for example, separate entries would be created for i) BT drops, ii) water bottle stations, iii) CTD casts, iv) towed CTD, v) towed undulating CTD profiler, vi) surface water intake measurements, etc.

Each data set entry should start on a new line - it's description may extend over several lines if necessary.

NO, UNITS : for each data set, enter the estimated amount of data collected expressed in terms of the number of 'stations'; miles' of track; 'days' of recording; 'cores' taken; net 'hauls'; balloon 'ascents'; or whatever unit is most appropriate to the data. The amount should be entered under 'NO' and the counting unit should be identified in plain text under 'UNITS'.

see page 2see aboves abA14staA38staB130sta	NITS DATA TYPE see bove Enter code(s) from list on cover page ation G74 ation H10 ation G2/B18 ation B18/B90	DESCRIPTION Identify, as appropriate, the nature of the data and of the instrumentation/sampling gear and list the parameters measured. Include any supplementary information that may be appropriate, e. g. vertical or horizontal profiles, depth horizons, continuous recording or discrete samples, etc. For samples taken for later analysis on shore, an indication should be given of the type of analysis planned, i.e. the purpose for which the samples were taken. profiles vertical depth profiles van Veen grab & box grab samples ROV seafloor surveys (films)
page 2above aboveabA14StaA38StaB130Sta	bove from list on cover page ation G74 ation H10 ation G2/B18	profiles vertical depth profiles van Veen grab & box grab samples
page 2above aboveabA14StaA38StaB130Sta	bove from list on cover page ation G74 ation H10 ation G2/B18	profiles vertical depth profiles van Veen grab & box grab samples
A14staA38staB130sta	ation G74 ation H10 ation G2/B18	profiles vertical depth profiles van Veen grab & box grab samples
A 38 sta B 130 sta	ation H10 ation G2/B18	vertical depth profiles van Veen grab & box grab samples
B 130 sta	ation G2/B18	van Veen grab & box grab samples
C 5 sta	ation B18/B90	ROV seafloor surveys (films)
		Please continue on separate sheet if necessary

 TRACK CHART: You are strongly encouraged to submit, with the completed report, an annotated track chart illustrating the route followed and the points where measurements were taken.
 Insert a tick(<) in this box if a track chart is supplied</td>

 GENERAL OCEAN AREA(S): Enter the names of the oceans and/or seas in which data were collected during the cruise – please use commonly recognised names (see, for example, International Hydrographic Bureau Special Publication No. 23, 'Limits of Oceans and Seas').
 Skagerrak, NE Atlantic

 SPECIFIC AREAS: If the cruise activities were concentrated in a specific area(s) of an ocean or sea, then enter a description of the area(s). Such descriptions may include references to local geographic areas, to sea floor features, or to geographic coordinates.
 Please insert here the number of each square in which data were collected from the below given chart

 216 (entrance area of Oslo Fjord/ Norway; Koster Fjord area/ Sweden)
 Sweden)

GEOGRAPHIC COVERAGE - INSERT 'X' IN EACH SQUARE IN WHICH DATA WERE COLLECTED see above •West °East 180 170 160 150 140 130 120 110 100 90 80 70 60 50 40 30 20 10 0 10 20 30 40 50 60 70 80 90 100 110 120 130 140 150 160 170 180 918 917 916 915 914 919 912 911 910 909 908 907 906 905 904 903 902 901 936 935 934 933 932 931 930 929 928 927 926 925 924 923 922 921 920 919 261 260 259 258 257 256 255 254 253 288 287 266 285 284 283 282 281 280 279 278 277 276 275 274 273 272 271 270 269 268 267 266 265 264 263 26 9c 222 221 220 219 218 217 252 251 250 249 246 247 246 247 246 243 242 241 240 239 238 237 236 235 233 232 231 230 101 215 215 214 213 212 211 210 209 208 207 206 205 204 203 202 201 195 194 193 192 191 188 187 186 184 183 182 197 196 North 176 175 174 173 172 171 170 169 168 167 165 164 163 155 154 153 152 151 149 148 147 146 \$77 161 160 159 158 157 141 140 139 138 137 136 135 134 133 132 131 120 119 118 117 116 115 114 113 112 111 110 109 143 142 130 129 128 127 125 124 123 122 121 104 103 102 108 107 вż 20 19 29 0 28 355-319 318 317 316 315 314 313 312 311 310 309 308 307 333 332 331 324 323 356 355 354 352 351 350 349 348 347 345 344 343 342 341 340 339 338 337 336 371 388 387 386 385 384 383 382 361 360 379 378 377 376 375 374 373 372 407 405 404 400 399 398 397 391 390 425 424 423 422 421 420 419 418 417 416 415 414 413 412 411 410 409 408 443 442 441 440 439 438 437 436 435 434 433 432 431 South 451 450 449 448 447 446 445 444 479 478 477 476 475 474 473 472 471 470 469 468 457 463,462 461 460 459 458 457 456 455 454 453 452 497 496 495 494 493 492 491 490 489 488 482 486 485 484 483 482 481 480 515 514 513 512 511 510 509 508 507 506 505 504 503 502 501 500 499 533 532 531 530 529 528 527 526 525 524 523 522 521 520 519 518 517 516 551 550 549 548 547 546 545 544 543 542 541 540 539 538 537 536 535 534 566 565 564 563 562 561 560 559 558 557 556 555 554 553 552 587 586 585 584 583 582 581 580 579 578 577 576 575 574 573 572 571 569 568 567 180 170 150 150 140 130 120 110 100 90 80 70 50 50 40 30 20 10 0 10 20 30 40 50 50 70 80 90 100 110 120 130 140 150 150 170 180 *West °East