

VESSEL Alpha Helix		PROJECT & LEG HX220		DSD8 I.D.		STATION DESIGNATION C205	
CONSC CAST #	LATITUDE	LONGITUDE	DATE JD=	TIME (GMT)	DRY BULB	WET BULB	PRESSURE
1575735.38N	16327.89W	16327.89W	JUN 99	6118	(°C)	(°C)	(mb)
DEG MIN	DEG MIN	DAY	MO	HR	MIN	(°C)	(°C)
SBE 9+0		TIMES		JD/TIME		DATA LOCATION	
PRESS SN # 63503	DATA ON		Tape/Diskette ID		File Name/Header		
PRI TEMP SN 1771	START DOWN						
SEC TEMP SN 1772	AT DEPTH						
PRI COND SN 2251	AT SURFACE						
SEC COND SN 501	PAR SN		FLUOR SN		CHLAM SN		
POS. TRIP		CTD CONVERTED MONITOR VALUES				SAMPLE BOTTLE	
DEPTH					DATA		SAMPLE BOTTLE NUMBER
	PRESSURE	PRI. TEMP.	SEC. TEMP	SALINITY	SALINITY	SAL. Bio CHL. WHIT's	
1							
2							
3							
4							
5							
6							
7							
8							
9							
10							
11							
12							
MAX. DEPTH =		CLEANED AIR BLEED VALVE					
SEC COND SN 501		PAR SN		FLUOR SN		CHLAM SN	
POS. TRIP		CTD CONVERTED MONITOR VALUES				SAMPLE BOTTLE	
DEPTH					DATA		SAMPLE BOTTLE NUMBER
	PRESSURE	PRI. TEMP.	SEC. TEMP	SALINITY	SALINITY	SAL. Bio CHL. WHIT's	
1							
2							
3							
4							
5							
6							
7							
8							
9							
10							
11							
12							

VESSEL Alpha Helix		PROJECT & LEG HX220		DSDB I.D.		STATION DESIGNATION CNA6	
CONSC CAST #	LATITUDE	LONGITUDE	DATE JD=	TIME (GMT)	DRY BULB	WET BULB	PRESSURE
158	5733.08 N	16330.44 W	3 JUN 99	0444	°C	°C	(mb)
DEG	MIN	DEG	MIN	DAY	MO	YR	HR
SBE 9+0		TIMES		JD/TIME		DATA LOCATION	
PRESS SN # 63523		DATA ON		Tape/Diskette ID		File Name/Header	
PRI TEMP SN 1771		START DOWN					
SEC TEMP SN 1772		AT DEPTH					
PRI COND SN 2251		AT SURFACE					
SEC COND SN 501		PAR SN		FLUOR SN		CHLAM SN	
POS. TRIP DEPTH		CTD CONVERTED MONITOR VALUES		SAMPLE BOTTLE DATA		SAMPLE BOTTLE NUMBER	
	PRESSURE	PRI. TEMP.	SEC. TEMP.	SALINITY	SALINITY	SAL.	Bio
1	48					158	✓
2	30					147	✓
3	20	21.5				146	✓
4	10	10.4				144	✓
5	0	3.3				143	✓
6							
7							
8							
9							
10							
11							
12							

MAX. DEPTH = m  
Cleared air bleed valve

VESSEL Alpha Helix		PROJECT & LEG HX220		DSDB I.D.		STATION DESIGNATION GUA 7											
CONSC CAST #	LATITUDE	LONGITUDE		DATE JD=		TIME (GMT)	DRY BULB	WET BULB	PRESSURE	SEA STATE VISIBILITY	WIND DIRN.	WIND SPD.	CLOUD (amt) TYPE	WEATHER	BOTTOM DEPTH	STA. NAME/ID	
1595730.76N	16332.93W	3	JUN	99	0512	.	.	.	.	.	.	.	.	.	49		
SBE 9+ 0		TIMES		JD/TIME		DATA LOCATION				REMARKS							
PRESS SN # 63503		DATA ON				Tape/Diskette ID				File Name/Header							
PRI TEMP SN 1771		START DOWN															
SEC TEMP SN 1772		AT DEPTH															
PRI COND SN 2251		AT SURFACE								MAX. DEPTH = m							
SEC COND SN 501		PAR SN		FLUOR SN		CHLOR SN		CHLOR SN		TRANS. SN							
CTD CONVERTED MONITOR VALUES																	
POS.	TRIP DEPTH									SAMPLE BOTTLE DATA				SAMPLE BOTTLE NUMBER			
		PRESSURE	PRI. TEMP.	SEC. TEMP.	SALINITY	SALINITY	SAL.	Bio	CHL.	WHIT's NUTR.							
1																	
2																	
3																	
4																	
5																	
6																	
7																	
8																	
9																	
10																	
11																	
12																	

Cleared air bleed valve



VESSEL Alpha Helix		PROJECT & LEG HX220				DSDB I.D.		STATION DESIGNATION CVA11								
CONSC CAST #	LATITUDE	LONGITUDE		DATE JD=		TIME (GMT)	DRY BULB	WET BULB	PRESSURE	SEA STATE VISIBILITY	WIND DIRN.	WIND SPD.	CLOUD (amt) TYPE	WEATHER	BOTTOM DEPTH	STA. NAME/ID
161	5724.45 N	163	42.90 W	3	JUN 99	0637	.	.	.	.	(deg)	(m/s)	.	.	59	
SBE 9+0		TIMES		JD/TIME		DATA LOCATION				REMARKS						
PRESS SN # 63503		DATA ON				Tape/Diskette ID File Name/Header										
PRI TEMP SN 1771		START DOWN														
SEC TEMP SN 1772		AT DEPTH														
PRI COND SN 2251		AT SURFACE														
SEC COND SN 501		PAR SN		FLUOR SN		CHAM SN		TRANS. SN		MAX. DEPTH =		m				
CTD CONVERTED MONITOR VALUES																
POS.	TRIP	CTD CONVERTED MONITOR VALUES										SAMPLE BOTTLE DATA				
	DEPTH	PRESSURE	PRI. TEMP.	SEC. TEMP	SALINITY	SALINITY	SAL.	Bio	CHL.	WHITS NUTR.						
1	57									106						
2	40									105						
3	30									104						
4	20									103						
5	10									102						
6	0									101						
7																
8																
9																
10																
11																
12																

2nd  
Pine  
around



VESSEL		PROJECT & LEG		DSDB I.D.		STATION DESIGNATION	
Alpha Helix		HX220				NICKY14	
CONSC CAST #	LATITUDE	LONGITUDE	DATE JD=	TIME (GMT)	DRY BULB (°C)	WET BULB (°C)	PRESSURE (mb)
1635933.76	N 67 19.07 W	510 N 91 9	1649				
SBE 9+0	TIMES	JD/TIME	DATA LOCATION				
PRESS SN # 63503	DATA ON		Tape/Diskette ID File Name/Header				
PRI TEMP SN 1771	START DOWN						
SEC TEMP SN 1772	AT DEPTH						
PRI COND SN 2251	AT SURFACE						
SEC COND SN 501	PAR SN	FLUOR SN	CHAM SN	MAX. DEPTH = m			
POS. TRIP DEPTH	CTD CONVERTED MONITOR VALUES			SAMPLE BOTTLE DATA	SAMPLE BOTTLE NUMBER		
1 28	PRESSURE	PRI. TEMP.	SEC. TEMP.	SALINITY	SALINITY	SAL.	Bo
2 20							
3 20							
4 20							
5 20							
6 10							
7 0							
8 0							
9 0							
10 0							
11 0							
12 0							
				WHT's	NUTR.		
				331			
				330			
				329			
				328			
				327			
				326			
				325			
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VESSEL Alpha Helix		PROJECT & LEG HX220		DSDB I.D.		STATION DESIGNATION NICK 12	
CONSC CAST #	LATITUDE	LONGITUDE	DATE JD=	TIME (GMT)	DRY BULB	WET BULB	PRESSURE
DEG MIN	DEG MIN	DAY MO YR	HR MIN	(°C)	(°C)	(mb)	SEA STATE
16 45 19	29.08 N	167 24.29 W	5 JUN 91	17 45	.	.	WIND DIRN.
SBE 9+0		TIMES	JD/TIME	DATA LOCATION		REMARKS	
PRESS SN # 635023	DATA ON	Tape/Diskette ID		File Name/Header			
PRI TEMP SN 1771	START DOWN						
SEC TEMP SN 1772	AT DEPTH						
PRI COND SN 2251	AT SURFACE						
SEC COND SN 501	PAR SN	FLUOR SN	CHLAM SN	MAX. DEPTH =		m	
POS.	TRIP DEPTH	CTD CONVERTED MONITOR VALUES				SAMPLE BOTTLE DATA	
		PRESSURE	PRI. TEMP.	SEC. TEMP	SALINITY	SALINITY	SAL. Bio CHL. WHITS NUTR.
1	27						✓ 335
2	20						✓ 334
3	10						✓ 333
4	0						✓ 332
5							
6							
7							
8							
9							
10							
11							
12							

WPCorp  
on  
11/3/91



VESSEL Alpha Helix		PROJECT & LEG HX220		DSDB I.D.		STATION DESIGNATION N1C712	
CONSC CAST #	LATITUDE DEG MIN	LONGITUDE DEG MIN	DATE JD=	TIME (GMT)	DRY BULB	WET BULB	PRESSURE
1655924.42N	16729.51W	5 JUN 99	1831				
SBE 9+ 0		TIMES		JD/TIME		DATA LOCATION	
PRESS SN # 63503	DATA ON			Tape/Diskette ID		File Name/Header	
PRI TEMP SN 1771	START DOWN						
SEC TEMP SN 1772	AT DEPTH						
PRI COND SN 2251	AT SURFACE						
SEC COND SN 501	PAR SN	FLUOR SN	CHAM SN	MAX. DEPTH =		Cleared air bleed valve	
CTD CONVERTED MONITOR VALUES		SAMPLE BOTTLE DATA		SAMPLE BOTTLE NUMBER		SAMPLE BOTTLE NUMBER	
POS.	TRIP DEPTH	PRESSURE	PRI. TEMP.	SEC. TEMP.	SALINITY	SALINITY	SAL.
1	28						339
2	20						338
3	10						337
4	0						336
5							
6							
7							
8							
9							
10							
11							
12							

336

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VESSEL Alpha Helix		PROJECT & LEG HX220		DSDB I.D.		STATION DESIGNATION N1C78												
CONSC CAST #	LATITUDE	LONGITUDE		DATE JD=		TIME (GMT)	DRY BULB	WET BULB	PRESSURE	SEA STATE	WIND DIRN.	WIND SPD.	CLOUD (amt)	WEATHER	BOTTOM DEPTH	STA. NAME/ID		
16759	10.44 N	16744.96 W		5 JUN 99		2103	.	.	.	.	(deg)	(m/s)	.	.	42			
SBE 9+0		TIMES		JD/TIME		DATA LOCATION		REMARKS										
PRESS SN # 63503		DATA ON				Tape/Diskette ID		File Name/Header										
PRI TEMP SN 1771		START DOWN																
SEC TEMP SN 1772		AT DEPTH																
PRI COND SN 2251		AT SURFACE																
SEC COND SN 501		PAR SN		FLUOR SN		CHAM SN		TRANS. SN										
CTD CONVERTED MONITOR VALUES																		
POS.	TRIP DEPTH	PRESSURE				PRI. TEMP.		SEC. TEMP		SALINITY		SALINITY		SAL.		Bio	CHL.	WHIT's NUTR.
1	37													163		✓	✓	347
2	20													163		✓	✓	346
3	10															✓	✓	345
4	0															✓	✓	344
5																		
6																		
7																		
8																		
9																		
10																		
11																		
12																		

MAX. DEPTH = m

Cleared air bleed valve

VESSEL Alpha Helix		PROJECT & LEG HX220				DSD8 I.D.		STATION DESIGNATION N1C X6										
CONSC CAST #	LATITUDE	LONGITUDE		DATE JD=		TIME (GMT)	DRY BULB	WET BULB	PRESSURE	SEA STATE VISIBILITY	WIND DIRN.	WIND SPD.	CLOUD (amt) TYPE	WEATHER	BOTTOM DEPTH	STA. NAME/ID		
16859	5.30 N	16750.14 W	5 JUN 99	0203											43			
SBE 9+0		TIMES		JD/TIME		DATA LOCATION												
PRESS SN # 63503		DATA ON				Tape/Diskette ID		File Name/Header										
PRI TEMP SN 1771		START DOWN																
SEC TEMP SN 1772		AT DEPTH																
PRI COND SN 2251		AT SURFACE																
SEC COND SN 501		PAR SN		FLUOR SN		CHAM SN												
CTD CONVERTED MONITOR VALUES																		
POS.	TRIP DEPTH	PRESSURE				PRI. TEMP.		SEC. TEMP		SALINITY		SALINITY		SAMPLE BOTTLE DATA		SAMPLE BOTTLE NUMBER		
1	37													SAL.		Bio	CHL.	WHIT'S NUTR.
2	20																	350
3	10																	349
4	0																	348
5																		
6																		
7																		
8																		
9																		
10																		
11																		
12																		

☒ Cleaned air bleed valve

MAX. DEPTH = m

☐ TRANS. SN

VESSEL Alpha Helix		PROJECT & LEG HX220		DSDB I.D.		STATION DESIGNATION NICHY												
CONSC CAST #	LATITUDE	LONGITUDE		DATE JD=		TIME (GMT)	DRY BULB	WET BULB	PRESSURE	SEA STATE VISIBILITY	WIND DIRN.	WIND SPD.	CLOUD (amt) TYPE	WEATHER	BOTTOM DEPTH	STA. NAME/ID		
16559	1.10N	167.55.37W		5 JUN 99		2306	.	.	.	.	.	.	.	.	Ha			
SBE 9+ 0		TIMES		JD/TIME		DATA LOCATION				REMARKS								
PRESS SN # 63503		DATA ON				Tape/Diskette ID				File Name/Header								
PRI TEMP SN 1771		START DOWN																
SEC TEMP SN 1772		AT DEPTH																
PRI COND SN 2251		AT SURFACE																
SEC COND SN 501		PAR SN		FLUOR SN		CHLAM SN		TRANS. SN		MAX. DEPTH = m								
CTD CONVERTED MONITOR VALUES																		
POS.	TRIP DEPTH	PRESSURE				PRI. TEMP.		SEC. TEMP.		SALINITY		SALINITY		SAL.		Bio	CHL.	WHIT'S NUTR.
1	39																	355
2	20																	354
3	10																	353
4	0																	352
5																		
6																		
7																		
8																		
9																		
10																		
11																		
12																		

Cleared air bleed valve

VESSEL Alpha Helix		PROJECT & LEG HX220		DSDB I.D.		STATION DESIGNATION NICK 2											
CONSC CAST #	LATITUDE	LONGITUDE		DATE JD=		TIME (GMT)	DRY BULB	WET BULB	PRESSURE	SEA STATE	WIND DIRN.	WIND SPD.	CLOUD (amt)	WEATHER	BOTTOM DEPTH	STA. NAME/ID	
1	70 58 516.411 N	168	0.55 W	6	JUN 99	00 10	.	.	.	.	(deg)	(m/s)	.	.	412		
SBE 9+0		TIMES		JD/TIME		DATA LOCATION		REMARKS									
PRESS SN # 63503		DATA ON		Tape/Diskette ID		File Name/Header											
PRI TEMP SN 1771		START DOWN															
SEC TEMP SN 1772		AT DEPTH															
PRI COND SN 2251		AT SURFACE															
SEC COND SN 501		PAR SN		FLUOR SN		CHAM SN											
POS.		TRIP DEPTH		CTD CONVERTED MONITOR VALUES		SAMPLE BOTTLE DATA		SAMPLE BOTTLE NUMBER									
		PRESSURE		PRI. TEMP.		SEC. TEMP		SALINITY		SALINITY		SAL.		Bo		WHIT'S NUTR.	
1	40											70		✓		359	
2	20													✓		358	
3	10													✓		357	
4	5													✓		356	
5																	
6																	
7																	
8																	
9																	
10																	
11																	
12																	

Cleared air bleed valve

MAX. DEPTH = m

TRANS. SN

VESSEL Alpha Helix		PROJECT & LEG HX220		DSDB I.D.		STATION DESIGNATION NIGL											
CONSC CAST #	LATITUDE	LONGITUDE		DATE JD=		TIME (GMT)	DRY BULB	WET BULB	PRESSURE	SEA STATE	WIND DIRN.	WIND SPD.	CLOUD (amt)	WEATHER	BOTTOM DEPTH	STA. NAME/ID	
171	58 51.80 N	168	5.82 W	6	JUN 99	11 02	.	.	.	.	(deg)	(m/s)	.	.	(m)	44	
SBE 9+0		TIMES		JD/TIME		DATA LOCATION		REMARKS									
PRESS SN # 63503		DATA ON		Tape/Diskette ID		File Name/Header											
PRI TEMP SN 1771		START DOWN															
SEC TEMP SN 1772		AT DEPTH															
PRI COND SN 2251		AT SURFACE															
SEC COND SN 501		PAR SN		FLUOR SN		CHAM SN											
POS. TRIP DEPTH		CTD CONVERTED MONITOR VALUES										SAMPLE BOTTLE DATA		SAMPLE BOTTLE NUMBER			
		PRESSURE	PRI. TEMP.	SEC. TEMP	SALINITY	SALINITY	SAL.	Bio	CHL.	WHIT'S NUTR.							
1	44							✓	✓	363							
2	20							✓	✓	362							
3	10							✓	✓	361							
4	0							✓	✓	360							
5																	
6																	
7																	
8																	
9																	
10																	
11																	
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☒ Cleaned air bleed valve

MAX. DEPTH = m

☐ TRANS. SN

VESSEL Alpha Helix		PROJECT & LEG HX220		DSDB I.D.		STATION-DESIGNATION NICA												
CONSC CAST #	LATITUDE	LONGITUDE		DATE JD=		TIME (GMT)	DRY BULB	WET BULB	PRESSURE	SEA STATE	WIND DIRN.	WIND SPD.	CLOUD (amt)	WEATHER	BOTTOM DEPTH	STA. NAME/ID		
1725849.86N	1688.43W	6 JUN 99		0155											46			
SBE 9+0		TIMES		JD/TIME		DATA LOCATION		REMARKS										
PRESS SN # 63503		DATA ON				Tape/Diskette ID		File Name/Header										
PRI TEMP SN 1771		START DOWN																
SEC TEMP SN 1772		AT DEPTH																
PRI COND SN 2251		AT SURFACE																
SEC COND SN 501		PAR SN		FLUOR SN		CHAM SN		TRANS. SN										
CTD CONVERTED MONITOR VALUES																		
POS.	TRIP DEPTH	PRESSURE				PRI. TEMP.		SEC. TEMP.		SALINITY		SALINITY		SAL.		Bio	CHL.	WHIT'S NUTR.
1																		
2																		
3																		
4																		
5																		
6																		
7																		
8																		
9																		
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11																		
12																		



VESSEL		PROJECT & LEG		DSDB I.D.		STATION-DESIGNATION	
Alpha Helix		HX220				A/CB	
CONSC CAST #	LATITUDE	LONGITUDE	DATE JD=	TIME (GMT)	DRY BULB	WET BULB	PRESSURE
723	58 46.87 N	168 10.98 W	06 JUN 99	0222			
DEG MIN	DEG MIN	DAY MO YR	HR MIN	(°C)	(°C)	(mb)	(deg)
SBE 9+0	TIMES	JD/TIME	DATA LOCATION				
			Tape/Diskette ID File Name/Header				
PRESS SN # 63503	DATA ON						
PRI TEMP SN 1771	START DOWN						
SEC TEMP SN 1772	AT DEPTH						
PRI COND SN 2251	AT SURFACE						
SEC COND SN 501	PAR SN	FLUOR SN	CHAM SN	MAX. DEPTH = m			
				Cleaned air bleed valve			
POS. TRIP DEPTH	CTD CONVERTED MONITOR VALUES			SAMPLE BOTTLE DATA	SAMPLE BOTTLE NUMBER		
	PRESSURE	PRI. TEMP.	SEC. TEMP.	SALINITY	SALINITY	SAL.	Bio
1 44.5							CHL.
2 20.6							NUTR.
3 10.5							
4 0							
5							
6							
7							
8							
9							
10							
11							
12							

344  
366  
365  
364

VESSEL		PROJECT & LEG		DSDB I.D.		STATION-DESIGNATION	
Alpha Helix		HX220				N104	
CONSC	LATITUDE	LONGITUDE	DATE JD=	TIME (GMT)	DRY BULB	WET BULB	PRESSURE
CAST #	DEG MIN	DEG MIN	DAY MO YR	HR MIN	(°C)	(°C)	(mb)
134	58 44.52 N	168 13.65 W	06 JUN 99				
SBE 9+0	TIMES		JD/TIME	DATA LOCATION			
PRESS SN	# 63503	DATA ON		Tape/Diskette ID	File Name/Header		
PRI TEMP SN	1771	START DOWN					
SEC TEMP SN	1772	AT DEPTH					
PRI COND SN	2261	AT SURFACE					
SEC COND SN	501	PAR SN		FLUOR SN		CHAM SN	
TRIP DEPTH		CTD CONVERTED MONITOR VALUES				SAMPLE BOTTLE DATA	
	PRESSURE	PRI. TEMP.	SEC. TEMP.	SALINITY	SALINITY	SAL.	Bio
1							
2							
3							
4							
5							
6							
7							
8							
9							
10							
11							
12							
REMARKS		MAX. DEPTH = m					
Cleaned air bleed valve		TRANS. SN					
SAMPLE BOTTLE NUMBER		SAMPLE BOTTLE NUMBER					
WHITE'S		NUTR.					

[illegible]

[illegible]



VESSEL Alpha Helix		PROJECT & LEG HX220		DSDB I.D.		STATION-DESIGNATION NIC 8	
CONSC CAST #	LATITUDE	LONGITUDE	DATE JD=	TIME (GMT)	DRY BULB	WET BULB	PRESSURE
1785835.42N	17823.52W	17823.52W	JUN 99		(°C)	(°C)	(mb)
DEG MIN	DEG MIN	DAY	MO	YR	HR	MIN	
SBE 9+0		TIMES		JD/TIME		DATA LOCATION	
PRESS SN # 63503	DATA ON	Tape/Diskette ID		File Name/Header			
PRI TEMP SN 1771	START DOWN						
SEC TEMP SN 1772	AT DEPTH						
PRI COND SN 2261	AT SURFACE						
SEC COND SN 501	PAR SN	FLUOR SN	CHIAM SN	MAX. DEPTH = m			
CTD CONVERTED MONITOR VALUES		TRANS. SN		SAMPLE BOTTLE NUMBER			
POS.	TRIP	DEPTH		SAMPLE BOTTLE DATA		SAMPLE BOTTLE NUMBER	
	PRESSURE	PRI. TEMP.	SEC. TEMP.	SALINITY	SALINITY	SAL.	Bio
1							
2							
3							
4							
5							
6							
7							
8							
9							
10							
11							
12							

Cleared air bleed valve

[illegible]

VESSEL Alpha Helix		PROJECT & LEG HX220				DSD8 I.D.				STATION DESIGNATION ALC10						
CONSC CAST #	LATITUDE	LONGITUDE		DATE JD=		TIME (GMT)	DRY BULB	WET BULB	PRESSURE	SEA STATE	WIND DIRN.	WIND SPD.	CLOUD (amt)	WEATHER	BOTTOM DEPTH	STA. NAME/ID
1805828.48N	16831.67W	16JUN99	0708												63	
SBE 9+0		TIMES		JD/TIME		DATA LOCATION										
PRESS SN # 63523		DATA ON				Tape/Diskette ID				File Name/Header						
PRI TEMP SN 1771		START DOWN														
SEC TEMP SN 1772		AT DEPTH														
PRI COND SN 2251		AT SURFACE														
SEC COND SN 501		PAR SN		FLUOR SN		CHAM SN										
POS.		CTD CONVERTED MONITOR VALUES														
TRIP DEPTH		PRESSURE				PRI. TEMP.		SEC. TEMP.		SALINITY		SALINITY		SAMPLE BOTTLE DATA		
1 57														SAL. Bio CHL. WHITS NUTR.		
2 40														✓ 388		
3 30														✓ 387		
4 20														✓ 396		
5 10														✓ 385		
6 0														✓ 384		
7																
8																
9																
10																
11																
12																

Cleared air bleed valve

MAX. DEPTH = m

TRANS. SN

SAMPLE BOTTLE NUMBER