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Number 51

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(PART - 2)

THE PUBLICATIONS BY THE STAFF OF
CENTRAL MARINE FISHERIES RESEARCH INSTITUTE
1986-1990

CENTRAL MARINE FISHERIES RESEARCH INSTITUTE
(Indian Council of Agricultural Research)
P. B. No. 2704, Dr. Salim Ali Road
Cochin - 682 031, India

NOVEMBER 1992

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NOVEMBER 1992

Published by : **Dr. P. S. B. R. James**
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PREFACE

A bibliography was published in April, 1986 listing the publications of the staff of the Central Marine Fisheries Research Institute from 1948 to 1985. Since then voluminous literature have been produced by the staff of the Institute which called for, within a short period, the updating of the bibliography . The present bibliography published as Part-2 of the earlier one, incorporates all the publications of the staff for the five year period from 1986 to 1990.

A total of 1162 titles have been listed in the present volume including 66 titles pertaining to some years prior to 1986 which could not find place in the earlier bibliography. Every effort has been taken to incorporate all the titles published upto 1990, but still some would have been left out inadvertently which could be taken care of in the subsequent number. The serial number given in this volume is the continuation from the preceeding issue. In order to facilitate better utilization, in addition to the author index, a subject index has also been included at the end. It is hoped that the bibliography will be found useful by all those interested in the field of marine sciences.

I appreciate the efforts made by Dr. K. J. Mathew, Mr. V. Mohan and Mr. K. Kanakasabapathy in compiling this volume with great care.

P. S. B. R. JAMES
Director
Central Marine Fisheries
Research Institute

Cochin - 682 031,
1 November, 1992.

**BIBLIOGRAPHY OF THE PUBLICATIONS BY THE STAFF
OF THE CENTRAL MARINE FISHERIES RESEARCH INSTITUTE
1986 - 1990**

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	2693	3093	3368	3408	Mathew Susan				3475
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Aquatic pollution	2455	2460	2461		Crustacean fishery	2469	2475	2500
2525	2530	2555	2636	2638	2509	2510	2588	2604
2739	2810	2884	2885	3103	2769	2825	2832	2924
3443	3444	3446	3447	3511	2951	2953	2954	2991
3512	3521	3522	3523		2993	3063	3083	3100
Bacteriology	2453	2866	2893	2995	3128	3167	3203	3204
3144	3232	3247	3441	3442	3207	3243	3244	3379
3471	3590				3410	3411	3431	3451
Bibliography	2668	2853	2896	3336	3510	3536	3578	
3337	3481				Crustacean resource	2490	2536	2604
Cetaceans	2498	2566	2582	2804	2644	2769	2993	3060
	2877	2905	2911	2942	3101	3165	3205	3206
	3121	3150	3325	3346	3349	3430	3452	3456
	3364	3383	3384	3393	3404	3457	3458	3582
	3408	3426	3489	3527	3598	3599	3600	3601
CMFRI	2562	2794	2800	2805	Echinoderm : Biology, Fishery, Culture	2495	2504	2548
Corals : Resource, Ecology	2648	2899			2549	2550	2551	2552
	3147	3390			2781	2782	2783	2784
Crafts, Gears	2497	2537	2811	2921	2786	2787	2788	2789
2922	3006	3008	3009	3156	2923	2932	3032	
3201	3399	3420	3439	3479	3033	3034	3035	3262
3493	3502				3296	3297	3298	3299
Crustacean biology	2589	2704	2705		3300	3301	3302	3303
2709	2817	2835	2953	2992	3304	3305	3305	3307
3058	3059	3083	3084	3166	3308	3309	3487	3488
3168	3350	3351	3385	3403	3490			
Crustacean culture	2450	2485	2499		Economics, Extension	2505	2539	2543
2501	2520	2580	2596	2605	2560	2571	2572	2573
2606	2607	2627	2628	2661	2574	2670	2702	2814
2662	2663	2706	2712	2713	2936	2946	2947	2952
2775	2827	2856	2876	2909	3010	3011	3051	3055
2910	2929	2930	2941	2961	3175	3182	3183	3184
3074	3077	3090	3102	3109	3185	3194	3195	3196
3112	3122	3169	3188	3315	3197	3216	3218	3246
3407	3491	3492	3529	3537	3269	3271	3276	3292
3552	3575				3323	3412	3413	3414
					3388	3417	3485	3486
					3560	3587	3595	3596
					Environment	2459	2463	2514
						2542	2565	2591
						2645	2649	2665
						2677	2746	2771
						2772	2790	

2846	2854	2855	2862	2869	2599	2600	2601	2602	2603		
2870	2888	2890	2901	2902	2618	2621	2622	2625	2626		
2919	2920	2955	2969	3105	2653	2658	2659	2681	2690		
3113	3114	3115	3123	3151	2691	2693	2714	2729	2730		
3163	3211	3221	3287	3326	2732	2733	2758	2762	2763		
3375	3376	3397	3398	3428	284 ⁴⁰	2848	2849	2863	2871		
3434	3496	3504	3513	3545	287 ⁴¹	2937	2943	2971	2973		
3563	3569	3589	3591		2975	2984	2986	3016	3017		
					3024	3028	3048	3061	3080		
Farm engineering		3000	3464		3092	3093	3095	3096	3097		
Fin-fish fishery		2446	2468	2474	2491	3099	3116	3117	3118	3119	
2502	2516	2518	2523	2556	3124	3148	3164	3171	3172		
2563	2567	2568	2581	2584	3178	3233	3234	3237	3260		
2592	2603	2625	2633	2637	3263	3272	3294	3331	3333		
2646	2650	2652	2653	2656	3334	3344	3345	3353	3368		
2658	2669	2672	2678	2679	3391	3432	3450	3469	3505		
2681	2690	2691	2692	2699	3506	3518	3528	3534	3562		
2701	2715	2729	2731	2737	Fish culture		2471	2479	2511	2546	
2738	2740	2745	2757	2758		2558	2561	2590	2595	2799	
2761	2766	2778	2796	2797		2803	2842	2844	2857	2939	
2798	2801	2802	2806	2812		3022	3023	3037	3088	3110	
2824	2828	2834	2838	2867		3111	3125	3126	3215	3217	
2868	2872	2881	2898	2907		3336	3381	3466	3526	3530	
2915	2916	2934	2935	2948		3555	3556				
2949	2958	2959	2972	2973	Fish eggs & larvae		2521	2742	2743		
2975	2983	2990	2994	3013		2744	2770	2839	2974	2996	
3016	3021	3027	3052	3053		2997	2998	2999	3250	3251	
3561	3068	3069	3070	3073		3252	3253	3254	3255	3256	
3080	3085	3086	3089	3092		3257	3258	3259	3261	3281	
3093	3095	3099	3118	3124		3281	3283	3284	3285	3286	
3145	3148	3149	3161	3164		3316	3354	3355	3356	3372	
3178	3200	3202	3214	3224		3396	3435	3436	3454	3462	
3227	3235	3237	3238	3239		3463	3500				
3248	3249	3267	3268	3273	Fisheries harbour, Fishing village		2480	2845	2880	2917	3419
3274	3275	3288	3289	3290		Fisheries statistics		2512	2545	2621	
3293	3332	3338	3345	3347			2703	2717	3226	3359	3440
3348	3373	3382	3392	3409	Fish food poisoning		2492				
3425	3427	3438	3476	3508	Fish resource		2457	2467	2517	2519	
3518	3533	3544	3551	3554		2531	2535	2563	2583	2585	
3567	3570	3574	3593	3605							
3606											
Fish : Biology, Population dynamics											
2448	2502	2503	2518	2532							
2559	2564	2585	2586	2598							

2587	2597	2617	2619	2623	Molluscan resource	2451	2452	2456
2624	2646	2651	2654	2655		2515	2641	2642
2675	2687	2699	2716	2718		2684	2686	2689
2719	2730	2741	2758	2778		2852	2927	2957
2795	2796	2797	2798	2801		2989	3081	3159
2807	2808	2809	2831	2834		3176	3181	3209
2850	2851	2872	2898	2935		3405	3553	3594
2948	2975	2986	3016	3018	Morphology, Anatomy	2462	2473	
3038	3039	3040	3047	3050		2578	2659	2816
3057	3061	3080	3092	3093		2847	2914	2968
3094	3095	3099	3118	3124		3453	3577	
3145	3148	3164	3178	3227	Nutrition	2897	2982	3015
3238	3267	3268	3347	3357		3146	3189	3192
3358	3360	3367	3377	3378		3389	3445	3483
3392	3425	3458	3460	3482		3561		
3484	3497	3501	3503	3518	Pathology, Toxicity, Parasites	2492		
3554	3559	3565	3567	3571		2760	2837	3029
3572	3573	3581	3592	3604		3084	3120	
Genetics		2524	2725	3265		3179	3374	3401
Marine Biological Association of India,						3402	3459	
Marine biological institutions						3584		
Mollusca : Biology, Population					Physiology, Biochemistry	2534	2540	
dynamics						2541	2765	2767
2630	2682	2685	2695			2768	2822	
2734	2747	2764	2886	2887		2823	2897	2908
2912	2981	3002	3071	3132		3020	3079	
3134	3135	3138	3154	3157		3152	3264	3277
3170	3173	3210	3223	3236		3278	3279	
3371	3583					3313	3386	3387
Molluscan culture		2489	2513	2632		3470	3480	
		2640	2720	2722		3509	3517	
		2727	2735	2748	Phytoplankton, Primary production			
				2749		2447	2454	2472
		2791	2792	2873		2522	2538	
				2874		2635	2664	2728
		2892	2913	2967		2773	2774	
				2978		2776	2815	2858
		2985	2988	2989		2882	2883	
				3031		3108	3245	3291
		3136	3140	3141		3341	3437	
				3142		3465	3588	
		3213	3222	3228	Remote sensing	2464	3019	3130
				3434		3380		
Molluscan fishery		2629	2631	2673	Resource : Conservation, Management	2476	2477	2478
		2682	2683	2684		2483	2486	
				2686		2557	2569	2674
		2698	2736	2886		2680	2721	
				2945		2875	2977	2979
		3134	3139	3143		3025	3036	
				3155		3041	3042	3043
		3190	3212	3335		3044	3045	
				3532		3046	3049	3054
						3098	3158	

3177	3229	3230	3268	3310		2966	3219	3220	3433	3602
3311	3312	3314	3317	3318		3603				
3319	3320	3321	3322	3324						
3327	3328	3329	3330	3339						
3365	3379	3400	3494	3495						
3498	3499									
Sea birds		2482	2593	2613	2780					
Sea weed : Resource, Culture, Industry										
2465	2470	2526	2527	2528		2878	2900	2904	2918	2925
2529	2570	2575	2576	2577		2926	3014	3062	3091	3133
2700	2750	2751	2752	2753		3429	3455	3478	3507	3531
2754	2755	2756	2818	2819		3576	3579	3597		
2820	2821	2938	2940	3001						
3005	3007	3064	3065	3266						
3340	3342	3343	3467	3468						
3472	3473	3474	3475	3477						
3514	3515	3516								
Seed : Prawn, Fish, Mollusc		2466	2494							
2496	2507	2554	2826	2830		Zooplankton, Secondary production				
2843	2891	2944	2970	3003		2445	2481	2544	2547	2608
3004	3012	3030	3075	3076		2609	2610	2611	2612	2614
3087	3127	3131	3137	3153		2615	2616	2639	2657	2660
3180	3191	3231	3242	3418		2759	2777	2858	2860	2861
3421	3422	3423	3466	3525		2903	2906	2931	3026	3104
3564						3106	3107	3129	3186	3199
Sponge, Gorgonid		2707	2708	2710		3306	3369	3370	3448	3449
2711	2962	2963	2964	2965		3519	3520	3538	3539	3540
						3541	3542	3543	3546	3547
						3548	3549	3550	3557	3558
						3568	3585	3586		