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Géologie et Paléontologie de l'Île d'Anticosti

Répertoire bibliographique

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AVANT-PROPOS

Il existe tout près de 450 publications portant sur la géologie et la paléontologie de l'île d'Anticosti. Ces publications, la plus ancienne remontant à 1856, ont été écrites par plus de 400 scientifiques. Elles ont été compilées et regroupées dans le présent répertoire en quatre sections comprenant; i) des articles scientifiques publiés dans des journaux avec comité de lecture (voir p. 1-14); ii) des rapports publiés principalement par les instituts gouvernementaux ou universitaires (voir p. 15-19); iii) des mémoires de thèses universitaires de baccalauréat, de maîtrise, et de doctorat (voir p. 20-22); et iv) des résumés de colloques et de conférences (voir p. 23-30). Le tableau 1 devrait faciliter la consultation de ce répertoire bibliographique car il regroupe toutes les publications à l'exception des résumés par principaux champs d'intérêt (par ex. stratigraphie, paléontologie, géologie du Quaternaire...). Il suffit de consulter le tableau 1 pour réaliser que plusieurs publications mettent l'accent sur différents aspects de la limite Ordovicien-Silurien et sur la paléontologie des différents groupes d'invertébrés fossiles. Certains groupes sont particulièrement bien représentés comme les brachiopodes, les conodontes, les coraux et les ostracodes alors que certains groupes ont reçu peu d'attention à ce jour comme les céphalopodes, les bryozoaires et les trilobites. La géomorphologie et la géologie du Quaternaire ont fait l'objet de nombreuses publications alors que d'autres sujets montrent un vide important à combler dans nos connaissances comme la sédimentologie des formations ordoviciennes et siluriennes.

Qu'est ce qui explique la notoriété de la géologie de l'île d'Anticosti? La succession de calcaires et de shales exposée sur l'île est la plus complète et la plus fossilifère au monde à la limite Ordovicien-Silurien. À la fin de l'Ordovicien, voici 440 Ma, la plupart des espèces vivantes qui peuplaient les océans se sont éteintes. Une

succession de phénomènes géologiques; une baisse générale du niveau des océans, un brève mais intense épisode glaciaire, une baisse globale de la température à la surface des océans, et une réorganisation des courants marins profonds, a entraîné la disparition d'environ 85% de toutes les espèces marines. Les strates de l'île d'Anticosti représentent des sédiments marins s'accumulant sans arrêt connu de la déposition dans un bassin sédimentaire qui chevauchait les roches cristallines du Bouclier Canadien au nord et les roches déformées de la chaîne appalachienne au sud. À la fin de l'Ordovicien, la paléogéographie de l'île d'Anticosti la situe dans une ancienne mer peu profonde à 10-15 degrés au sud du paléoéquateur sous l'influence d'un climat tropical et de tempêtes. Cette ancienne mer tropicale possédait une riche et diverse faune et flore marine avec de magnifiques récifs construits par des coraux et des éponges. L'abondance exceptionnelle de fossiles dans les strates anticostiennes s'explique par les nombreuses tempêtes qui ont remanié les fonds marins de cette ancienne mer tropicale enfouissant rapidement et préservant la plupart les invertébrés marins qui y vivaient.

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Addendum : Pour les références ajoutées au répertoire après le mois d'octobre 2002; voir p. 31.

Tableau 1. Liste thématique des publications sur la géologie et la paléontologie de l'île d'Anticosti

PRINCIPAUX SUJETS	PUBLICATIONS (ARTICLES, RAPPORTS & THÈSES)
Géologie et paléontologie de la frontière Ordovicienne-Silurienne	5, 12, **13**, 14, 19, 31, 35, 36, 40, 45, 46, 47, 49, 53, **63**, **64**, 71, 72, 79, 85, **97**, 101, 102, 103, 113, 116, 119, **121**, 123, 133, 134, **135**, 136, 137, 141, 142, 148, 150, 151, **155**, **158**, 165, 166, 167, 168, 169, 177, **178**, 195, 196, 197, 200, 201, 211, **215**, 277, 278, 315, 318, 319, 330, 337, 446
Paléontologie (brachiopodes)	26, 29, 34, 50, 52, 53, 55, 56, 61, **62**, **63**, **70**, 71, **108**, 109, 110, 111, **112**, 113, 114, **115**, 116 **117**, 118, 119, 120, 173, 199, 318, 322, 323, 329, 340, 447
Paléontologie (conodontes)	8, 14, 87, 150, 151, **155**, 156, 157, 212, 218, 219, **220**, **221**, 277, 278, 279, 280, 306, 330, 448
Paléontologie générale	27, 28,39, 48, 81, 210, 229, 230, 231, 232, 233, 237, 239, 303, 304, 306
Paléontologie (coraux)	31, **32**, 33, **54**, 60, 74, 75, 76, 84, 85, 154, 241, 242, 295, 328
Paléontologie (ostracodes)	49, 249, 250, 251, 252, 253, **254**, 256, 257, 258, 308, 335
Paléontologie (graptolites)	16, 17, 152, 176, 177, **178**, 203, 204, 344
Paléontologie (récifs)	**37**, 51, **57**, **64**, 127, 192, 194, 205, 312, 326
Paléontologie (éponges)	**38**, 104, 167, 168, 174, 175, 243, 336
Paléontologie (chitinozoaires)	1, 2, 3, 4, 5 ,6, **201**
Paléontologie (trilobites)	40, 41, 132, 137, 207
Paléontologie (algues)	18, 89, **147**, 320, 327
Paléontologie (acritarches)	79, 80, 107, 148, 319
Paléontologie (bryozoaires)	185, 186
Paléontologie (céphalopodes)	88

Tableau 1. Liste thématique des publications sur la géologie et la paléontologie de l'Île d'Anticosti (suite)

PRINCIPAUX SUJETS	PUBLICATIONS (ARTICLES, RAPPORTS & THÈSES)
Géologie & stratigraphie locale	**15**, **58**, **59**, 68, 139, 195, 198, 235, 236, 238, **240**, 246, 255, 271, 272, 281, 282, 283, **284**, 285, 286, 287, 288, **305**, 345
Géologie économique (pétrole, diagenèse...)	20, 21, **22**, 23, 24, 42, 43, 44, 146, 184, 217, 226, 247, 248, 267, 268, 269, 280, 281, 283, **293**, 296, 297, 298, 299, 310
Géologie & stratigraphie régionale	86, 98, 105, 106, 188, 189, **190**, **191**, 224, 225, 264, 265, 266, 276, 291, 292, **293**, 294
Sédimentologie	72, 73, 100, 122, 140, **141**, **144**, 145, 170, **187**, **220**, **221**, 339, **448**
Géologie structurale	82, 83, 99, 183, 300, 301, 302, 314, 341
Géochimie (brachiopodes)	7, 9, 10, 171, 172, 309
Excursions (livret-guide)	**11**, **69**, 133, **134**, **143**
Géologie ignée (dykes)	**25**, 128, 161, 216
Géologie économique (calcaires)	234, 270
Géomorphologie & Quaternaire	30, 77, 92, 93, **94**, 95, 96, 124, 125, 126, 131, 159, 160 , 162, 163, 164, **202**, 206, 208, 209, 214, 223, 227, 228, 259, 260, 261, **262**, 263, 273, 274, 275, **290**, 311, 313, 316, 317, 321, 324, 325, 331, 333, 343
Géomorphologie karstique	65, 66, **129**, **130**, 179, 180, 181, **182**, 244, 245, 289, 334, 338, 342
Géomorphologie côtière	67, 78, **138**, 153, 213, 332

Note: 1) les chiffres correspondent à ceux de la bibliographie (voir pp. 1-31)
2) les chiffres en gras et sous-lignés correspondent aux publications jugées importantes

Articles

1. ACHAB, A., 1977a. Les chitinozoaires de la zone à *Dicellograptus complanatus*, Formation de Vauréal, Ordovicien Supérieur, Île d'Anticosti, Québec. Translated Title: Chitinozoans from the *Dicellograptus complanatus* Zone, Vaureal Formation, Upper Ordovician, Anticosti Island, Quebec. *Canadian Journal of Earth Sciences,* 14, 3, pp. 413-425.

2. ACHAB, A., 1977b. Les chitinozoaires de la zone à *Climacograptus prominens elongatus* de la Formation de Vauréal (Ordovician Supérieur), Île d'Anticosti, Québec. Translated Title: Chitinozoans from the *Climacograptus prominens elongatus* Zone of the Vaureal Formation (upper Ordovician) of Anticosti Island, Quebec. *Canadian Journal of Earth Sciences,* 14, 10, pp. 2193-2212.

3. ACHAB, A., 1978. Sur quelques chitinozoaires de la Formation de Vauréal et de la Formation de Macasty (Ordovicien Supérieur), Île d'Anticosti, Québec, Canada. Translated Title: Chitinozoa from the Vaureal Formation and the Macasty Formation (Upper Ordovician), Anticosti Island, Quebec, Canada. *Review of Palaeobotany and Palynology,* 25, 3-4, pp. 295-314.

4. ACHAB, A. *et al.*, 1978. Les chitinozoaires de l'Ordovicien Supérieur; formations de Vauréal et d'Ellis Bay de l'Île d'Anticosti, Québec. Translated Title: Upper Ordovician Chitinozoa from the Vaureal and Ellis Bay formations, Anticosti Island, Quebec. In: I coloquio internacional de palinologia. Translated Title: First international palynological conference. *Palinologia,* Numero extraordinario 1, pp. 1-19.

5. ACHAB, A., 1981. Biostratigraphie par les Chitinozoaires de l'Ordovicien Supérieur-Silurien Inférieur de l'Île d'Anticosti; résultats préliminaires. Translated Title: Biostratigraphy of the chitinozoans of the Upper Ordovician and Lower Silurian of Anticosti Island; preliminary results. *In* LESPÉRANCE, P.J.[ed], *IUGS, Field meeting, Anticosti-Gaspe, Quebec; Volume II, Stratigraphy and paleontology*, pp. 143-158.

6. ACHAB, A., PARIS-FLORENTIN, and GRAHN-YNGVE, 1984. Chitinozoaires de l'Ordovicien Moyen de subsurface de l'Île Anticosti. Translated Title: Chitinozoans from the Middle Ordovician of subsurface Anticosti Island. In: Alfred Eisenack memorial issue I. *Review of Palaeobotany and Palynology,* 43, 1-3, pp. 123-143.

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8. ARMSTRONG, H., 1995. High-resolution biostratigraphy (conodonts and graptolites) of the Upper Ordovician and Lower Silurian; evaluations of the Late Ordovician mass extinction. *Modern Geology,* 20, 1, pp. 41-68.

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12. BARNES, C.R. and MCCRACKEN, A.D., 1981. Early Silurian chronostratigraphy and a proposed Ordovician-Silurian boundary stratotype, Anticosti Island, Quebec. *In* LESPÉRANCE, P.J.[ed], *IUGS, Field meeting, Anticosti-Gaspe, Quebec; Volume II, Stratigraphy and paleontology*, pp. 71-80.

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