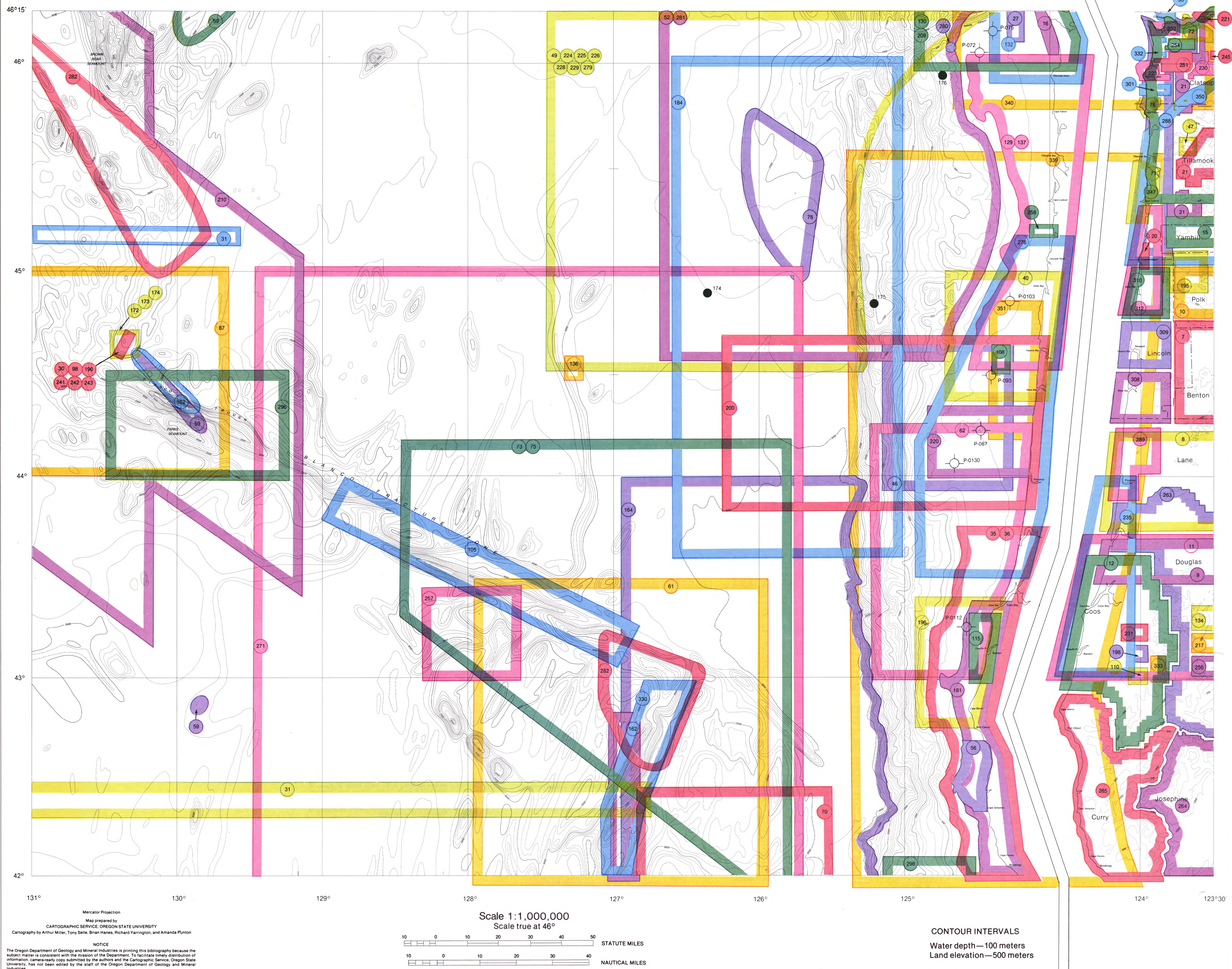


1985

MAP A



INTRODUCTION

This publication is a compilation of geologic literature of the ocean floor off Oregon and the adjacent continental margin. The list of references is comprehensive, encompassing a wide variety of geologic subjects such as economic geology, geophysics, and tectonics. The list of onshore sources is more selective, concentrating on studies that have generated geologic maps or that discuss tectonic history. The onshore compilation is from 1910 to 1984, except for the area from 42° to 43° degrees North, which was compiled in this study. Coastal and estuarine studies lack material on ECONOMIC GEOLOGY and have not been included in this report. The bulk of the materials listed in this bibliography is included in widely circulated journals and books and unpublished masters and doctoral theses that may be found in the appropriate libraries at colleges and universities. Also included are unpublished consultant reports and papers in press on topics of public interest.

This report consists of three parts: 1) two index maps, 2) a subject index, and 3) a reference list. Both the subject index and index maps are located on the front of the sheet, while the reference list is on the back. Specific study areas are graphically outlined on the maps. Some study area boundaries have been offered for clarity. The reader should refer to an original reference for exact boundaries. The reference are listed alphabetically and numbered sequentially; grid references are denoted with circles and squares for index maps A and B respectively. Broad investigations that include most of the map area or an entire geographic feature are not plotted (e.g., Wilde and others, 1979). The onshore citations are subdivided by subject, while the onshore sources are not subdivided but include a wide variety of topics.

The subject index has been divided into five major subject headings: 1) BACKGROUND, 2) PHYSIOGRAPHIC FEATURES, 3) ECONOMIC GEOLOGY, 4) GEOPHYSICS, and 5) ONSHORE GEOLOGY. Some references cover several subjects and are included within each appropriate grouping. Each major subject classification is further subdivided; for example, ECONOMIC GEOLOGY includes the subfields "Tectonics and Biostatigraphy." The reader can cross reference between the subject index, the index maps, and the reference list. Study areas off Washington and California that are directly related to features offshore Oregon are also plotted but are incorporated into the appropriate subject headings (e.g., Carson and Acero, 1983). The BACKGROUND heading includes papers on a variety of subjects from which the reader can quickly acquire an overview of the geologic framework of the area.

The ECONOMIC GEOLOGY section is of special interest since the establishment of the Interior's proposal to lease the mineral rights to portions of the Gorda Ridge. Exploitable polymetallic deposits might exist on both the Gorda and Juan de Fuca Ridges, while resources on the continental slope and shelf might include economic deposits of hydrocarbons, placer minerals (black sands), and aggregate (sand and gravel). The limited number of polymetallic samples collected from the Gorda and Juan de Fuca Ridges contain variable amounts of copper, zinc, manganese, lead, silver, barium, iron, nickel, and cadmium (Koski and others, 1982; Clague and others, 1983). Onshore studies and limited offshore sampling indicate black sands on Oregon's continental shelf are likely to contain chromium, titanium, zirconium, and trace amounts of gold.

SUBJECT INDEX

I. OFFSHORE GEOLOGY

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