TITLE II GEOLOGIC DATA COMPILATION PROJECT

Geology and Landslides in Selected North Coast Quadrangles of Northern California

DESCRIPTION OF DIGITAL CONTENTS

This data set contains PDFs of the scanned versions of both the paper and mylar copies of the 1:62,500 - and 1:24,000 - scale quadrangles mapped under CDF's Title II Geologic Data Compilation Project of 1979 (Figures 1-4).

Background: In 1979, the California Department of Forestry (CDF), now the California Department of Forestry and Fire Protection (CalFIRE), hired several geologists to compile existing geologic and landslide data on timberlands along California's north coast. Work was completed under the direction of the California Division of Mines and Geology (CDMG), now the California Geological Survey (CGS). The project, known as the Title II Geologic Data Compilation Project, encompassed more than 70 topographic quadrangles from Del Norte County south to Santa Cruz County (Figures 1-4). Geologic and landslide data were compiled at a scale of either 1:62,500 (north of San Francisco) or 1:24,000 (south of San Francisco). The purpose of the compilation was to assist CDF with the identification of non-point sources of sediment pollution from landslides along watercourses within proposed Timber Harvesting Plans. Although data was preliminary in some areas and mapped inconsistently, the maps provided a broad-scale overview of where certain types of geologic terrain might present slope stability and/or erosion problems that should be addressed on the ground. More recent and more detailed mapping has been done in many of the quadrangles originally covered in the Title II Compilation. However, in some remote places, these maps are still the only geologic information available.

Quality of Scanned Data: A Project Summary, geologic legends, and map/photo indices for each of the 1:250,000 map sheets represented are also included (Figure 1). CGS scanned both the paper and mylar versions of each quadrangle at the same dpi for several reasons. After nearly 40 years, some of the quadrangles remaining in the CGS/CalFIRE files were missing in one or the other of the paper and mylar formats. In addition, wear and tear over the years, particularly due to folding and continued use of the hard copies, has resulted in variations of image quality. Similar variations occurred in the quality of outcome in scanning. Therefore, offering scanned versions of both the paper and mylar copies of the maps allows the user to make comparisons between each set where data may be missing or obstructed.

Limitations and Use of Scanned Data: The maps contained in this data set are outdated in some areas. They were originally intended only for rapid regional identification of areas subject to landslides and erosion based on geologic conditions in forested terrain. More recent and more detailed mapping has been done in many of the quadrangles since completion of the Title II Compilation. Therefore, information presented on these maps should be supplemented with site specific geologic analyses by qualified professionals for any project in which they are used. Not all areas in the Title II Compilation were uniformly mapped with the same thoroughness or intensity, especially with respect to landslide data. In some quadrangles, detailed published data was scarce or non-existent when the maps were compiled. In other places, air photo interpretation of landslides and/or field work was not conducted. Specific differences in the compilations are described in the Project Summary included in this digital file. Thus, comparisons between areas, with respect to geological complexity or landform stability should be made with an understanding of these limitations.

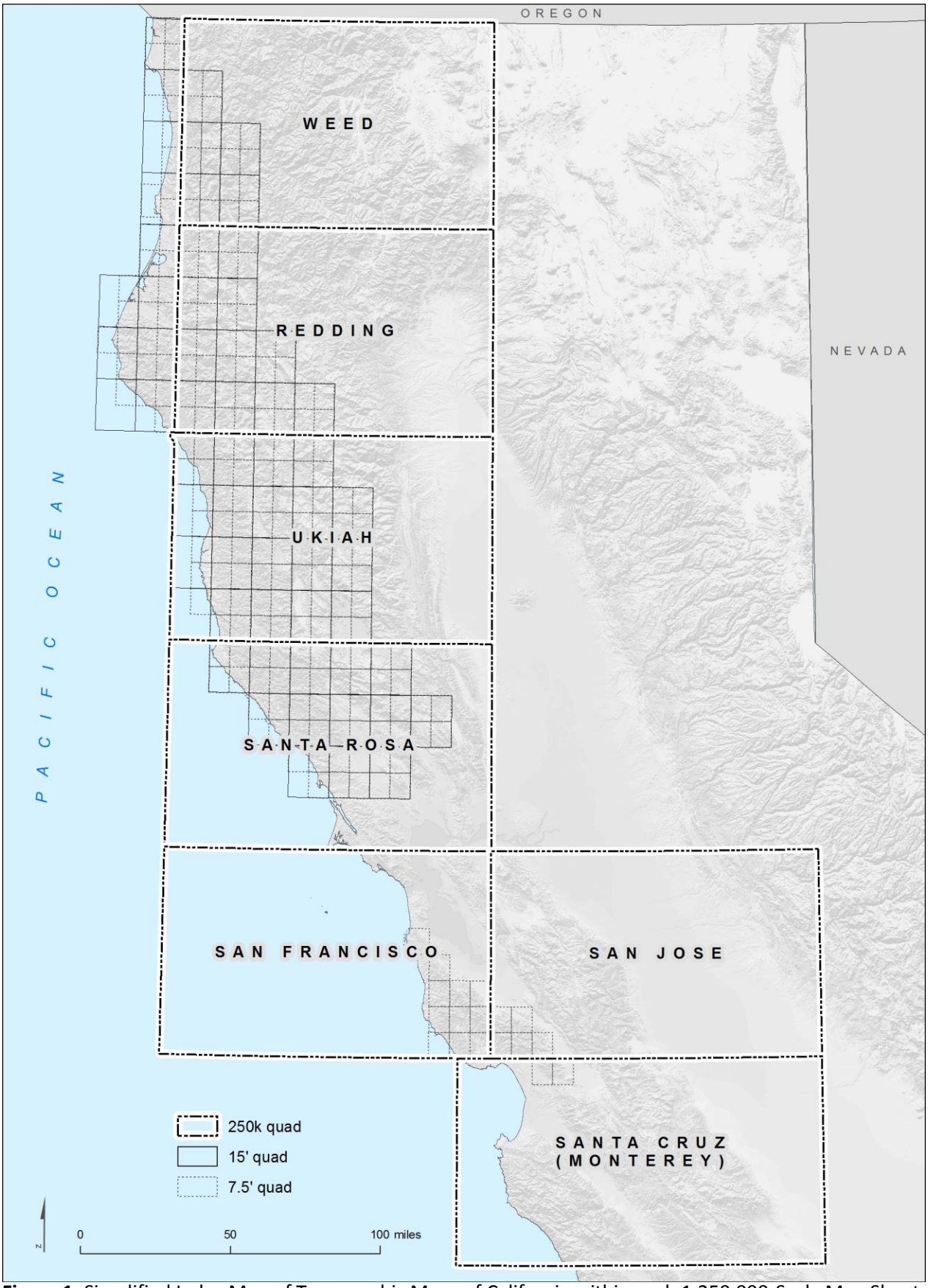

Figure 1. Simplified Index Map of Topographic Maps of California within each 1:250,000-Scale Map Sheet. Quadrangles in the Title II Project are highlighted (Modified from U. S. Geological Survey, 2015).

Figure 2: Index Map of 15-Minute Quadrangles in the Compilation of the Weed and Redding Sheets.

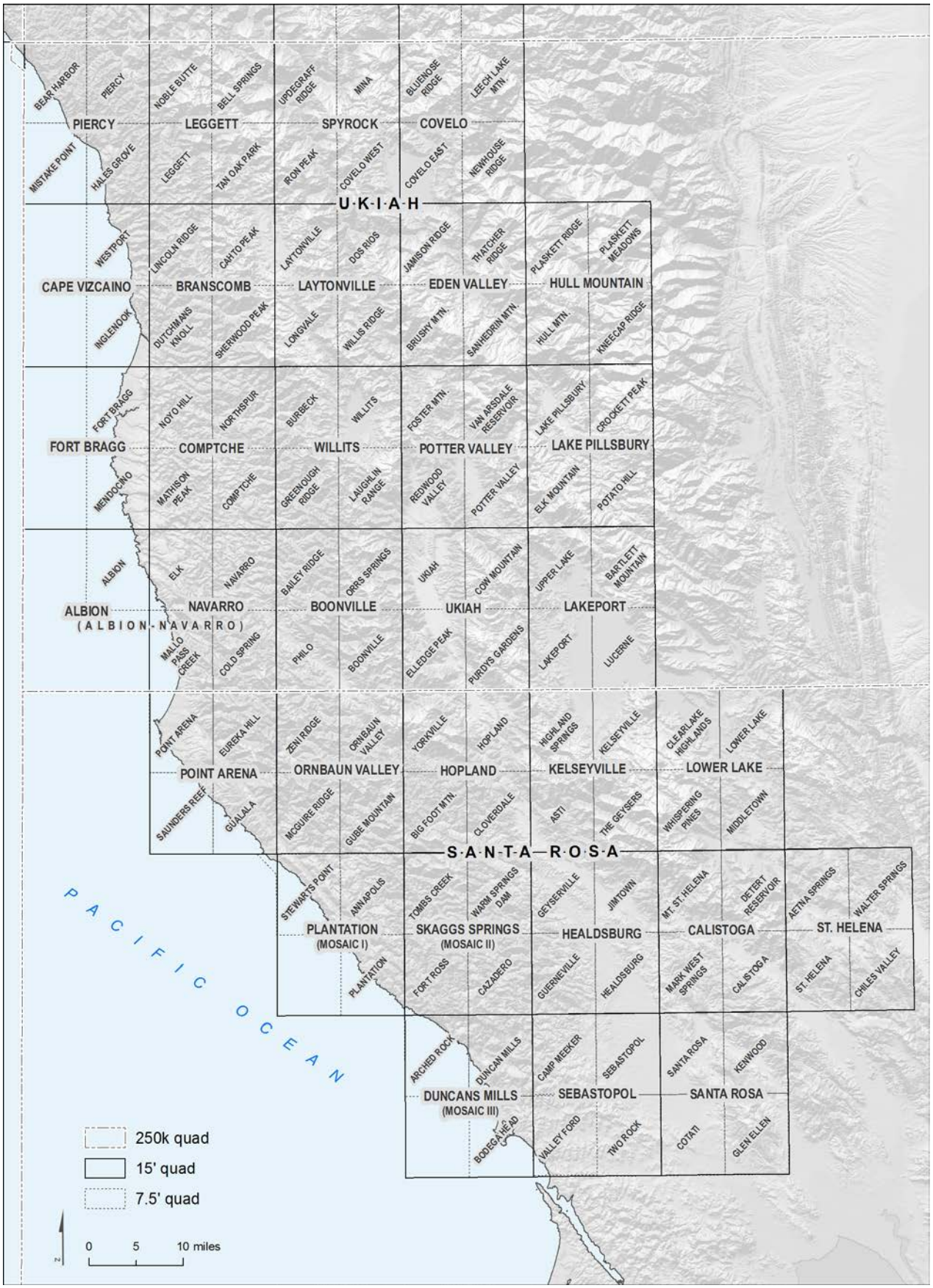

Figure 3: Index Map of 15-Minute Quadrangles in the Compilation of the Ukiah and Santa Rosa Sheets.

Figure 4: Simplified Index Map of 7.5-Minute Quadrangles in the Compilation of the San Francisco, San Jose, and Santa Cruz Sheets.