

DAFTAR ISI

| | |
|--------------------------------|-------|
| HALAMAN JUDUL | i |
| HALAMAN PENGESAHAN | v |
| HALAMAN PERNYATAAN | vi |
| HALAMAN PERSEMBAHAN | vii |
| INTISARI | viii |
| <i>ABSTRACT</i> | ix |
| KATA PENGANTAR | x |
| DAFTAR ISI..... | xii |
| DAFTAR GAMBAR..... | xv |
| DAFTAR TABEL..... | xvii |
| DAFTAR LAMPIRAN..... | xviii |
| BAB I PENDAHULUAN..... | 1 |
| I.1 Latar Belakang..... | 1 |
| I.2 Rumusan Masalah..... | 3 |
| I.3 Pertanyaan Penelitian..... | 3 |
| I.4 Cakupan Penelitian | 3 |
| I.5 Tujuan Penelitian | 4 |
| I.6 Manfaat Penelitian | 4 |
| I.7 Tinjauan Pustaka..... | 4 |
| I.8 Landasan Teori | 7 |
| I.8.1 Cameron Highlands | 7 |
| I.8.2 Penginderaan Jauh | 9 |
| I.8.3 Landsat 7 ETM+..... | 20 |
| I.8.4 ALOS PALSAR | 22 |

| | | |
|----------------|--|-----------|
| I.8.5 | Analisis Kawasan Longsor | 24 |
| I.8.6 | Klasifikasi Citra | 24 |
| I.9 | Hipotesis | 28 |
| BAB II | PELAKSANAAN | 29 |
| II.1. | Persiapan | 29 |
| II.1.1. | Bahan Penelitian | 29 |
| II.1.2. | Peralatan Penelitian | 29 |
| II.2. | Pelaksanaan | 30 |
| II.2.1. | Pra Pengolahan Citra | 31 |
| II.2.2. | Analisis Kawasan Longsor | 37 |
| II.2.3. | Pengolahan Citra | 39 |
| BAB III | HASIL DAN PEMBAHASAN | 42 |
| III.1. | Koreksi Radiometrik | 42 |
| III.1.1. | Koreksi Gap Fill dan Konversi Nilai Digital | 42 |
| III.1.2. | Composite band | 45 |
| III.2. | Koreksi Geometrik | 47 |
| III.3. | Analisis Lokasi Longsor serta Nilai Spektral dan Backscatter | 48 |
| III.3.1 | Nilai Spektral Citra Landsat 7 ETM+ | 50 |
| III.3.2 | Nilai Backscatter Citra ALOS PALSAR | 53 |
| III.4. | Klasifikasi Citra | 56 |
| III.4.1. | Masking Awan dan Bayangan | 58 |
| III.4.2. | Citra Landsat 7 ETM+ | 58 |
| III.4.3. | Citra ALOS PALSAR | 61 |
| III.4.4. | Overlay dengan Data Persebaran Longsor | 66 |
| BAB IV | PENUTUP | 70 |
| IV.1. | Kesimpulan | 70 |

| | |
|----------------------|----|
| IV.2. Saran..... | 71 |
| DAFTAR PUSTAKA | 72 |
| LAMPIRAN..... | 75 |