

## V. KESIMPULAN DAN SARAN

### A. Kesimpulan

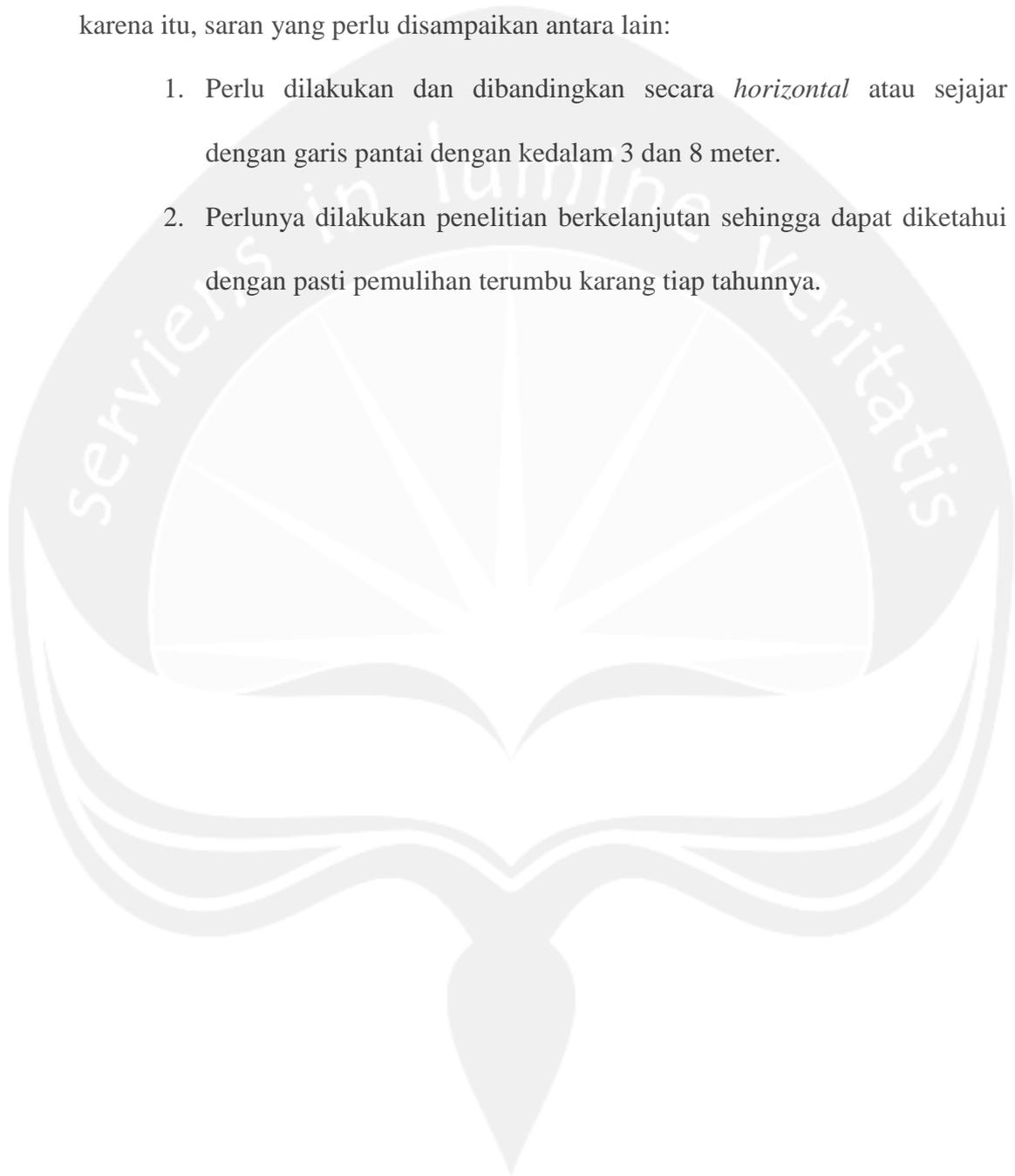
Berdasarkan penelitian yang telah dilakukan, dapat ditarik 2 kesimpulan, yaitu:

1. Persentase tutupan terumbu karang pada daerah Watu Lawang sebesar 32,48%. Tutupan terumbu karang pada daerah Teluk Pelita dan Karang Mayit sebesar 23,30%. Tutupan terumbu karang pada daerah Karang Ponpon sebesar 27,47%. Tutupan terumbu karang di daerah Watu Lawang dan Karang Ponpon masuk dalam kategori sedang, sedangkan Teluk Pelita dan Karang Mayit tergolong buruk.
2. Genus karang yang paling mendominasi di daerah Watu Lawang adalah *Acropora*. Genus karang yang mendominasi di daerah Teluk Pelita dan Karang Mayit adalah *Leptoseris*, *Acropora* dan *Porites*. Genus karang yang mendominasi di daerah Karang Ponpon adalah *Porites* dan *Acropora*.
3. Kondisi lingkungan di perairan Pantai Pasir Putih Situbondo bervariasi. Stasiun Watu Lawang didominasi dengan pasir, arus dan ombak yang sedang, serta jarak pandang 3 sampai 8 meter. Stasiun Teluk Pelita dan Karang Ponpon didominasi dengan lumpur, arus dan ombak yang sedang, serta jarak pandang 3 sampai 8 meter. Stasiun Karang Ponpon didominasi dengan daerah patahan karang, arus dan ombak sedang, serta jarak pandang 2 sampai 8 meter.

## B. Saran

Penelitian ini masih terdapat kekurangan yang perlu diperbaiki. Oleh karena itu, saran yang perlu disampaikan antara lain:

1. Perlu dilakukan dan dibandingkan secara *horizontal* atau sejajar dengan garis pantai dengan kedalaman 3 dan 8 meter.
2. Perlunya dilakukan penelitian berkelanjutan sehingga dapat diketahui dengan pasti pemulihan terumbu karang tiap tahunnya.



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Lampira 1. Data Penutupan Karang di Stasiun Watu Lawang Berdasarkan

Analisis CPCe

*Project* : Keanekaragaman dan Penutupan Terumbu Karang Pantai

Pasir Putih Situbondo

*Lokasi* : Stasiun 1 Watu Lawang

*Analysis date* : 21 Maret 2016- 1 April 2016

*Analysis by* : Sandy Aprian Saputra

<b>TRANSECT NAME</b>	<b>ST1WL</b>	
<b>Number of frames</b>	<b>202</b>	
<b>Total points</b>	<b>5998</b>	
<b>Total points (minus tape+wand+shadow)</b>	<b>5446</b>	
<b>MAJOR CATEGORY (% of transect)</b>		<b>MEAN</b>
CORAL (HC)	32.48	32.48
NON SCLERACTINIAN CORAL (NSC)	0.00	0.00
RECENT DEAD CORAL (DC)	3.89	3.89
DEAD CORAL WITH ALGAE (DCA)	47.01	47.01
SOFT CORAL (SC)	0.02	0.02
SPONGE (SP)	1.36	1.36
FLESHY SEAWEED (FS)	0.09	0.09
OTHER BIOTA (OT)	0.39	0.39
RUBBLE (R)	5.67	5.67
SAND (S)	9.09	9.09
SILT (SI)	0.00	0.00
ROCK (RK)	0.00	0.00
TAPE, WAND, SHADOW (TWS)	9.20	9.20
Sum (excluding tape+shadow+wand)	100.00	
<b>SUBCATEGORIES (% of transect)</b>		<b>MEAN</b>
<b>CORAL (HC)</b>		
Acanthastrea (ACANT)	0.00	0.00
Acropora (ACRO)	21.87	21.87
Alveopora (ALVEO)	0.18	0.18
Anacropora (ANAC)	0.00	0.00
Astreopora (ASTRE)	0.04	0.04
Australogyra (AUSTR)	0.00	0.00
Australomussa (AUST)	0.00	0.00

<b>SUBCATEGORIES (% of transect)</b>		<b>MEAN</b>
<b>CORAL (HC)</b>		
Barabattoia (BARAB)	0.00	0.00
Blastomussa (BLAST)	0.00	0.00
Catalaphyllia (CATAL)	0.00	0.00
Caulastrea (CAULA)	0.00	0.00
Coeloseris (COELO)	0.09	0.09
Coral Bleaching (CB)	0.06	0.06
Coscinaraea (COSCI)	0.00	0.00
Ctenactis (CTENA)	0.00	0.00
Cycloseris (CYCLO)	0.00	0.00
Cynarina (CYNA)	0.00	0.00
Cyphastrea (CYPH)	0.02	0.02
Diaseris (DIASE)	0.00	0.00
Diploastrea (DIPLO)	0.11	0.11
Echinophyllia (ECHI)	0.00	0.00
Echinopora (ECHIN)	0.00	0.00
Euphyllia (EUPH)	0.00	0.00
Favia (FAVIA)	0.02	0.02
Favites (FAVIT)	0.00	0.00
Fungia (FUNGI)	0.00	0.00
Galaxea (GALAX)	0.00	0.00
Gardineroseris (GARDI)	0.00	0.00
Goniastrea (GONIA)	0.26	0.26
Goniopora (GONI)	0.02	0.02
Halomitra (HALO)	0.00	0.00
Heliofungia (HELIO)	0.00	0.00
Herpolitha (HERPO)	0.00	0.00
Heterocyathus (HETE)	0.00	0.00
Heterospsammia (HETER)	0.00	0.00
Hydnophora (HYDNO)	0.00	0.00
Leptastrea (LEPTA)	0.13	0.13
Leptoria (LEPT)	3.07	3.07
Leptosera (LEPTO)	2.41	2.41
Lithophyllon (LITHO)	0.00	0.00
Lobophyllia (LOBO)	0.00	0.00
Madracis (MADRA)	0.00	0.00
Merulina (MERU)	0.18	0.18
Montastrea (MONTA)	0.00	0.00
Montipora (MONTI)	0.04	0.04
Mycedium (MYCE)	0.00	0.00
Nemenezophyllia (NEMEN)	0.00	0.00

<b>SUBCATEGORIES (% of transect)</b>		<b>MEAN</b>
<b>CORAL (HC)</b>		
Oulastrea (OULA)	0.00	0.00
Oulophyllia (OULO)	0.00	0.00
Oxypora (OXY)	0.00	0.00
Pachyseris (PACH)	0.00	0.00
Palauastrea (PALAU)	0.00	0.00
Paraclavarina (PARA)	0.00	0.00
Pavona (PAVON)	0.09	0.09
Pectinia (PECTI)	0.09	0.09
Physogra (PHYS)	0.00	0.00
Playgyra (PLATY)	0.02	0.02
Plerogyra (PLERO)	0.00	0.00
Plesiastrea (PLESI)	0.00	0.00
Pocillopora (POCILL)	0.62	0.62
Podabacia (PODA)	0.00	0.00
Polyphyllia (POLY)	0.00	0.00
Porites (PORI)	1.89	1.89
Psammocora (PSAMM)	0.17	0.17
Pseudosiderastrea (PSEU)	0.00	0.00
Sandalolotha (SANDA)	0.00	0.00
Scapophyllia (SCAPO)	0.00	0.00
Scolymia (SCOLY)	0.00	0.00
Seriatopora (SERIA)	0.59	0.59
Stylocoeniella (STYLO)	0.51	0.51
Stylopora (STYL)	0.02	0.02
Symphyllia (SYMP)	0.00	0.00
Trachyphyllia (TRACH)	0.00	0.00
Tubastrea (TUBA)	0.00	0.00
Turbinaria (TURBU)	0.00	0.00
Wellsophyllia (WELL)	0.00	0.00
Zoopilus (ZOO)	0.00	0.00
<b>NON SCLERACTINIAN CORAL (NSC)</b>		
Distichopora (DISTI)	0.00	0.00
Helipora (HELI)	0.00	0.00
Millepora (MILLE)	0.00	0.00
Stylaster (STYLA)	0.00	0.00
Tubipora (TUBI)	0.00	0.00
<b>RECENT DEAD CORAL (DC)</b>		
Recently Dead Coral (DC)	3.89	3.89
<b>DEAD CORAL WITH ALGAE (DCA)</b>		
Dead Coral with Algae (DCA)	41.92	41.92

<b>SUBCATEGORIES (% of transect)</b>	<b>MEAN</b>		
<b>DEAD CORAL WITH ALGAE (DCA)</b>			
Turf Algae (TA)	5.09		5.09
<b>SOFT CORAL (SC)</b>			
Soft Coral (SC)	0.02		0.02
<b>SPONGE (SP)</b>			
Sponge (SP)	1.36		1.36
<b>FLESHY SEAWEED (FS)</b>			
Algal Assemblage (AA)	0.09		0.09
Makro Algae (MA)	0.00		0.00
<b>OTHER BIOTA (OT)</b>			
Coralline Algae (CA)	0.02		0.02
Halimeda (HA)	0.00		0.00
Other (Fauna) (OT)	0.37		0.37
Zoanthid (ZO)	0.00		0.00
<b>RUBBLE (R)</b>			
Rubble (R)	5.67		5.67
<b>SAND (S)</b>			
Sand (S)	9.09		9.09
<b>SILT (SI)</b>			
Silt (SI)	0.00		0.00
<b>ROCK (RK)</b>			
Rock (RK)	0.00		0.00
<b>TAPE, WAND, SHADOW (TWS)</b>			
Tape, Wand, Shadow (TWS)	9.20		9.20
<hr/>			
<b>MAJOR CATEGORY (occurring in transect)</b>	<b>SUMS</b>	<b>MEAN</b>	
CORAL (HC)	1769	1769	1769.00
NON SCLERACTINIAN CORAL (NSC)	0	0	0.00
RECENT DEAD CORAL (DC)	212	212	212.00
DEAD CORAL WITH ALGAE (DCA)	2560	2560	2560.00
SOFT CORAL (SC)	1	1	1.00
SPONGE (SP)	74	74	74.00
FLESHY SEAWEED (FS)	5	5	5.00
OTHER BIOTA (OT)	21	21	21.00
RUBBLE (R)	309	309	309.00
SAND (S)	495	495	495.00
SILT (SI)	0	0	0.00
ROCK (RK)	0	0	0.00
TAPE, WAND, SHADOW (TWS)	552	552	552.00
<b>TOTAL TRANSECT POINTS</b>	<b>5998</b>	<b>5998</b>	

<b>SUBCATEGORIES (occurring in transect)</b>	<b>SUMS</b>		<b>MEAN</b>
<b>CORAL (HC)</b>			
Acanthastrea (ACANT)	0	0	0.00
Acropora (ACRO)	1191	1191	1191.00
Alveopora (ALVEO)	10	10	10.00
Anacropora (ANAC)	0	0	0.00
Astreopora (ASTRE)	2	2	2.00
Australogyra (AUSTR)	0	0	0.00
Australomussa (AUST)	0	0	0.00
Barabattoia (BARAB)	0	0	0.00
Blastomussa (BLAST)	0	0	0.00
Catalaphyllia (CATAL)	0	0	0.00
Caulastrea (CAULA)	0	0	0.00
Coelosseris (COELO)	5	5	5.00
Coral Bleaching (CB)	3	3	3.00
Coscinaraea (COSCI)	0	0	0.00
Ctenactis (CTENA)	0	0	0.00
Cycloseris (CYCLO)	0	0	0.00
Cynarina (CYNA)	0	0	0.00
Cyphastrea (CYPH)	1	1	1.00
Diaseris (DIASE)	0	0	0.00
Diploastrea (DIPLO)	6	6	6.00
Echinophyllia (ECHI)	0	0	0.00
Echinopora (ECHIN)	0	0	0.00
Euphyllia (EUPH)	0	0	0.00
Favia (FAVIA)	1	1	1.00
Favites (FAVIT)	0	0	0.00
Fungia (FUNGI)	0	0	0.00
Galaxea (GALAX)	0	0	0.00
Gardineroseris (GARDI)	0	0	0.00
Goniastrea (GONIA)	14	14	14.00
Goniopora (GONI)	1	1	1.00
Halomitra (HALO)	0	0	0.00
Heliofungia (HELIO)	0	0	0.00
Herpolitha (HERPO)	0	0	0.00
Heterocyathus (HETE)	0	0	0.00
Heterospsammia (HETER)	0	0	0.00
Hydnophora (HYDNO)	0	0	0.00
Leptastrea (LEPTA)	7	7	7.00
Leptoria (LEPT)	167	167	167.00
Leptosseris (LEPTO)	131	131	131.00
Lithophyllon (LITHO)	0	0	0.00

<b>SUBCATEGORIES (occurring in transect)</b>	<b>SUMS</b>	<b>MEAN</b>
<b>CORAL (HC)</b>		
Lobophyllia (LOBO)	0	0.00
Madracis (MADRA)	0	0.00
Merulina (MERU)	10	10.00
Montastrea (MONTA)	0	0.00
Montipora (MONTI)	2	2.00
Mycedium (MYCE)	0	0.00
Nemenezophyllia (NEMEN)	0	0.00
Oulastrea (OULA)	0	0.00
Oulophyllia (OULO)	0	0.00
Oxypora (OXY)	0	0.00
Pachyseris (PACH)	0	0.00
Palauastrea (PALAU)	0	0.00
Paraclavarina (PARA)	0	0.00
Pavona (PAVON)	5	5.00
Pectinia (PECTI)	5	5.00
Physogra (PHYS)	0	0.00
Playgyra (PLATY)	1	1.00
Plerogyra (PLERO)	0	0.00
Plesiastrea (PLESI)	0	0.00
Pocillopora (POCILL)	34	34.00
Podabacia (PODA)	0	0.00
Polyphyllia (POLY)	0	0.00
Porites (PORI)	103	103.00
Psammocora (PSAMM)	9	9.00
Pseudosiderastrea (PSEU)	0	0.00
Sandalolotha (SANDA)	0	0.00
Scapophyllia (SCAPO)	0	0.00
Scolymia (SCOLY)	0	0.00
Seriatopora (SERIA)	32	32.00
Stylocoeniella (STYLO)	28	28.00
Stylopora (STYL)	1	1.00
Symphyllia (SYMP)	0	0.00
Trachyphyllia (TRACH)	0	0.00
Tubastrea (TUBA)	0	0.00
Turbinaria (TURBU)	0	0.00
Wellsophyllia (WELL)	0	0.00
Zoopilus (ZOO)	0	0.00
<b>NON SCLERACTINIAN CORAL (NSC)</b>		
Distichopora (DISTI)	0	0.00
Helipora (HELI)	0	0.00

<b>SUBCATEGORIES (occurring in transect)</b>	<b>SUMS</b>	<b>MEAN</b>
<b>NON SCLERACTINIAN CORAL (NSC)</b>		
Millepora (MILLE)	0	0.00
Stylaster (STYLA)	0	0.00
Tubipora (TUBI)	0	0.00
<b>RECENT DEAD CORAL (DC)</b>		
Recently Dead Coral (DC)	212	212.00
<b>DEAD CORAL WITH ALGAE (DCA)</b>		
Dead Coral with Algae (DCA)	2283	2283.00
Turf Algae (TA)	277	277.00
<b>SOFT CORAL (SC)</b>		
Soft Coral (SC)	1	1.00
<b>SPONGE (SP)</b>		
Sponge (SP)	74	74.00
<b>FLESHY SEAWEED (FS)</b>		
Algal Assemblage (AA)	5	5.00
Makro Algae (MA)	0	0.00
<b>OTHER BIOTA (OT)</b>		
Coralline Algae (CA)	1	1.00
Halimeda (HA)	0	0.00
Other (Fauna) (OT)	20	20.00
Zoanthid (ZO)	0	0.00
<b>RUBBLE (R)</b>		
Rubble (R)	309	309.00
<b>SAND (S)</b>		
Sand (S)	495	495.00
<b>SILT (SI)</b>		
Silt (SI)	0	0.00
<b>ROCK (RK)</b>		
Rock (RK)	0	0.00
<b>TAPE, WAND, SHADOW (TWS)</b>		
Tape, Wand, Shadow (TWS)	552	552.00

<b>RESULTS SUMMARY</b>				
<b>CHART</b>	<b># Points</b>	<b>%</b>	<b>SW Index</b>	<b>Simpson (1-D)</b>
CORAL (HC)	1769	32.48	1.32	0.53
NON SCLERACTINIAN				
CORAL (NSC)	0	0.00	0.00	1.00
RECENT DEAD CORAL (DC)	212	3.89	0.00	0.00
DEAD CORAL WITH ALGAE				
(DCA)	2560	47.01	0.34	0.19
SOFT CORAL (SC)	1	0.02	0.00	0.00
SPONGE (SP)	74	1.36	0.00	0.00
FLESHY SEAWEED (FS)	5	0.09	0.00	0.00
OTHER BIOTA (OT)	21	0.39	0.19	0.09
RUBBLE (R)	309	5.67	0.00	0.00
SAND (S)	495	9.09	0.00	0.00
SILT (SI)	0	0.00	0.00	1.00
ROCK (RK)	0	0.00	0.00	1.00
TAPE, WAND, SHADOW (TWS)	552	9.20		
<b>TOTALS</b>	<b>5998</b>	<b>100.00</b>		

<b>CATEGORIES</b>	<b># Points</b>	<b>%</b>	<b>SW Index</b>	<b>Simpson (1-D)</b>
<b>Coral</b>				
Acanthastrea (ACANT)	0	0.00	0.00	0.00
Acropora (ACRO)	1191	21.87	0.27	0.45
Alveopora (ALVEO)	10	0.18	0.03	0.00
Anacropora (ANAC)	0	0.00	0.00	0.00
Astreopora (ASTRE)	2	0.04	0.01	0.00
Australogyra (AUSTR)	0	0.00	0.00	0.00
Australomussa (AUST)	0	0.00	0.00	0.00
Barabattoia (BARAB)	0	0.00	0.00	0.00
Blastomussa (BLAST)	0	0.00	0.00	0.00
Catalaphyllia (CATAL)	0	0.00	0.00	0.00
Caulastrea (CAULA)	0	0.00	0.00	0.00
Coeloseris (COELO)	5	0.09	0.02	0.00
Coral Bleaching (CB)	3	0.06	0.01	0.00
Coscinaraea (COSCI)	0	0.00	0.00	0.00
Ctenactis (CTENA)	0	0.00	0.00	0.00
Cycloseris (CYCLO)	0	0.00	0.00	0.00
Cynarina (CYNA)	0	0.00	0.00	0.00
Cyphastrea (CYPH)	1	0.02	0.00	0.00
Diaseris (DIASE)	0	0.00	0.00	0.00

<b>CATEGORIES</b>	<b># Points</b>	<b>%</b>	<b>SW Index</b>	<b>Simpson (1-D)</b>
<b>Coral</b>				
Diploastrea (DIPLO)	6	0.11	0.02	0.00
Echinophyllia (ECHI)	0	0.00	0.00	0.00
Echinopora (ECHIN)	0	0.00	0.00	0.00
Euphyllia (EUPH)	0	0.00	0.00	0.00
Favia (FAVIA)	1	0.02	0.00	0.00
Favites (FAVIT)	0	0.00	0.00	0.00
Fungia (FUNGI)	0	0.00	0.00	0.00
Galaxea (GALAX)	0	0.00	0.00	0.00
Gardineroseris (GARDI)	0	0.00	0.00	0.00
Goniastrea (GONIA)	14	0.26	0.04	0.00
Goniopora (GONI)	1	0.02	0.00	0.00
Halomitra (HALO)	0	0.00	0.00	0.00
Heliofungia (HELIO)	0	0.00	0.00	0.00
Herpolitha (HERPO)	0	0.00	0.00	0.00
Heterocyathus (HETE)	0	0.00	0.00	0.00
Heterospsammia (HETER)	0	0.00	0.00	0.00
Hydnophora (HYDNO)	0	0.00	0.00	0.00
Leptastrea (LEPTA)	7	0.13	0.02	0.00
Leptoria (LEPT)	167	3.07	0.22	0.01
Leptosera (LEPTO)	131	2.41	0.19	0.01
Lithophyllon (LITHO)	0	0.00	0.00	0.00
Lobophyllia (LOBO)	0	0.00	0.00	0.00
Madracis (MADRA)	0	0.00	0.00	0.00
Merulina (MERU)	10	0.18	0.03	0.00
Montastrea (MONTA)	0	0.00	0.00	0.00
Montipora (MONTI)	2	0.04	0.01	0.00
Mycedium (MYCE)	0	0.00	0.00	0.00
Nemenezophyllia (NEMEN)	0	0.00	0.00	0.00
Oulastrea (OULA)	0	0.00	0.00	0.00
Oulophyllia (OULO)	0	0.00	0.00	0.00
Oxypora (OXY)	0	0.00	0.00	0.00
Pachyseris (PACH)	0	0.00	0.00	0.00
Palauastrea (PALAU)	0	0.00	0.00	0.00
Paraclavarina (PARA)	0	0.00	0.00	0.00
Pavona (PAVON)	5	0.09	0.02	0.00
Pectinia (PECTI)	5	0.09	0.02	0.00
Physogra (PHYS)	0	0.00	0.00	0.00
Playgyra (PLATY)	1	0.02	0.00	0.00
Plerogyra (PLERO)	0	0.00	0.00	0.00

<b>CATEGORIES</b>	<b># Points</b>	<b>%</b>	<b>SW Index</b>	<b>Simpson (1-D)</b>
<b>Coral</b>				
Plesiastrea (PLESI)	0	0.00	0.00	0.00
Pocillopora (POCILL)	34	0.62	0.08	0.00
Podabacia (PODA)	0	0.00	0.00	0.00
Polyphyllia (POLY)	0	0.00	0.00	0.00
Porites (PORI)	103	1.89	0.17	0.00
Psammocora (PSAMM)	9	0.17	0.03	0.00
Pseudosiderastrea (PSEU)	0	0.00	0.00	0.00
Sandalolotha (SANDA)	0	0.00	0.00	0.00
Scapophyllia (SCAPO)	0	0.00	0.00	0.00
Scolymia (SCOLY)	0	0.00	0.00	0.00
Seriatopora (SERIA)	32	0.59	0.07	0.00
Stylocoeniella (STYLO)	28	0.51	0.07	0.00
Stylopora (STYL)	1	0.02	0.00	0.00
Symphyllia (SYMP)	0	0.00	0.00	0.00
Trachyphyllia (TRACH)	0	0.00	0.00	0.00
Tubastrea (TUBA)	0	0.00	0.00	0.00
Turbinaria (TURBU)	0	0.00	0.00	0.00
Wellsophyllia (WELL)	0	0.00	0.00	0.00
Zoopilus (ZOO)	0	0.00	0.00	0.00
<b>Non Scleractinian Coral</b>				
Distichopora (DISTI)	0	0.00	0.00	0.00
Helipora (HELI)	0	0.00	0.00	0.00
Millepora (MILLE)	0	0.00	0.00	0.00
Stylaster (STYLA)	0	0.00	0.00	0.00
Tubipora (TUBI)	0	0.00	0.00	0.00
<b>Recent Dead Coral</b>				
Recently Dead Coral (DC)	212	3.89	0.00	1.00
<b>Dead Coral with Algae</b>				
Dead Coral with Algae (DCA)	2283	41.92	0.10	0.80
Turf Algae (TA)	277	5.09	0.24	0.01
<b>Soft Coral</b>				
Soft Coral (SC)	1	0.02	0.00	1.00
<b>Sponge</b>				
Sponge (SP)	74	1.36	0.00	1.00
<b>Fleshy Seaweed</b>				
Algal Assemblage (AA)	5	0.09	0.00	1.00
Makro Algae (MA)	0	0.00	0.00	0.00
<b>Other Biota</b>				
Coralline Algae (CA)	1	0.02	0.14	0.00

<b>CATEGORIES</b>	<b># Points</b>	<b>%</b>	<b>SW Index</b>	<b>Simpson (1-D)</b>
<b>Other Biota</b>				
Halimeda (HA)	0	0.00	0.00	0.00
Other (Fauna) (OT)	20	0.37	0.05	0.91
Zoanthid (ZO)	0	0.00	0.00	0.00
<b>Rubble</b>				
Rubble (R)	309	5.67	0.00	1.00
<b>Sand</b>				
Sand (S)	495	9.09	0.00	1.00
<b>Silt</b>				
Silt (SI)	0	0.00	0.00	0.00
<b>Rock</b>				
Rock (RK)	0	0.00	0.00	0.00
<b>Tape, Wand, Shadow</b>				
Tape, Wand, Shadow (TWS)	552	9.20		1.00
Total pts. minus (tape+wand+shadow):	5446.00	100.00		

Lampiran 2. Data Penutupan Karang di Stasiun Teluk Pelita dan Karang Mayit

Berdasarkan Analisis CPCe

*Project* : Keanekaragaman dan Penutupan Terumbu Karang Pantai Pasir Putih Situbondo

*Lokasi* : Stasiun 2 Teluk Pelita dan Karang Mayit

*Analysis date* : 1 April 2016- 12 April 2016

*Analysis by* : Sandy Aprian Saputra

<b>TRANSECT NAME</b>	<b>S2TPKM</b>	
<b>Number of frames</b>	<b>202</b>	
<b>Total points</b>	<b>6060</b>	
<b>Total points (minus tape+wand+shadow)</b>	<b>5939</b>	
<b>MAJOR CATEGORY (% of transect)</b>	<b>MEAN</b>	
CORAL (HC)	23.30	23.30
NON SCLERACTINIAN CORAL (NSC)	0.00	0.00
RECENT DEAD CORAL (DC)	2.04	2.04
DEAD CORAL WITH ALGAE (DCA)	59.59	59.59
SOFT CORAL (SC)	0.07	0.07
SPONGE (SP)	0.61	0.61
FLESHY SEAWEED (FS)	0.00	0.00
OTHER BIOTA (OT)	0.59	0.59
RUBBLE (R)	2.22	2.22
SAND (S)	11.58	11.58
SILT (SI)	0.00	0.00
ROCK (RK)	0.00	0.00
TAPE, WAND, SHADOW (TWS)	2.00	2.00
Sum (excluding tape+shadow+wand)	100.00	
<b>SUBCATEGORIES (% of transect)</b>	<b>MEAN</b>	
<b>CORAL (HC)</b>		
Acanthastrea (ACANT)	0.00	0.00
Acropora (ACRO)	4.16	4.16
Alveopora (ALVEO)	0.20	0.20
Anacropora (ANAC)	0.00	0.00
Astreopora (ASTRE)	0.00	0.00
Australogyra (AUSTR)	0.00	0.00
Australomussa (AUST)	0.00	0.00

<b>SUBCATEGORIES (% of transect)</b>		<b>MEAN</b>
<b>CORAL (HC)</b>		
Barabattoia (BARAB)	0.00	0.00
Blastomussa (BLAST)	0.00	0.00
Catalaphyllia (CATAL)	0.00	0.00
Caulastrea (CAULA)	0.00	0.00
Coeloseris (COELO)	0.00	0.00
Coral Bleaching (CB)	0.02	0.02
Coscinaraea (COSCI)	0.00	0.00
Ctenactis (CTENA)	0.00	0.00
Cycloseris (CYCLO)	0.00	0.00
Cynarina (CYNA)	0.00	0.00
Cyphastrea (CYPH)	0.00	0.00
Diaseris (DIASE)	0.00	0.00
Diploastrea (DIPLO)	0.10	0.10
Echinophyllia (ECHI)	0.02	0.02
Echinopora (ECHIN)	0.00	0.00
Euphyllia (EUPH)	0.00	0.00
Favia (FAVIA)	0.02	0.02
Favites (FAVIT)	0.00	0.00
Fungia (FUNGI)	0.07	0.07
Galaxea (GALAX)	0.10	0.10
Gardineroseris (GARDI)	0.00	0.00
Goniastrea (GONIA)	1.06	1.06
Goniopora (GONI)	0.29	0.29
Halomitra (HALO)	0.00	0.00
Heliofungia (HELIO)	0.00	0.00
Herpolitha (HERPO)	0.00	0.00
Heterocyathus (HETE)	0.00	0.00
Heterospsammia (HETER)	0.00	0.00
Hydnophora (HYDNO)	0.00	0.00
Leptastrea (LEPTA)	0.34	0.34
Leptoria (LEPT)	1.92	1.92
Leptosera (LEPTO)	4.41	4.41
Lithophyllon (LITHO)	0.00	0.00
Lobophyllia (LOBO)	0.00	0.00
Madracis (MADRA)	0.00	0.00
Merulina (MERU)	0.00	0.00
Montastrea (MONTA)	0.12	0.12
Montipora (MONTI)	0.49	0.49
Mycedium (MYCE)	0.00	0.00
Nemenezophyllia (NEMEN)	0.00	0.00

<b>SUBCATEGORIES (% of transect)</b>		<b>MEAN</b>
<b>CORAL (HC)</b>		
Oulastrea (OULA)	0.00	0.00
Oulophyllia (OULO)	0.02	0.02
Oxypora (OXY)	0.00	0.00
Pachyseris (PACH)	1.62	1.62
Palauastrea (PALAU)	0.00	0.00
Paraclavarina (PARA)	0.00	0.00
Pavona (PAVON)	0.30	0.30
Pectinia (PECTI)	0.12	0.12
Physogra (PHYS)	0.00	0.00
Playgyra (PLATY)	0.03	0.03
Plerogyra (PLERO)	0.00	0.00
Plesiastrea (PLESI)	0.00	0.00
Pocillopora (POCILL)	0.17	0.17
Podabacia (PODA)	0.00	0.00
Polyphyllia (POLY)	0.00	0.00
Porites (PORI)	3.33	3.33
Psammocora (PSAMM)	1.94	1.94
Pseudosiderastrea (PSEU)	0.00	0.00
Sandalolotha (SANDA)	0.00	0.00
Scapophyllia (SCAPO)	0.00	0.00
Scolymia (SCOLY)	0.00	0.00
Seriatopora (SERIA)	0.61	0.61
Stylocoeniella (STYLO)	0.02	0.02
Stylopora (STYL)	0.00	0.00
Symphyllia (SYMP)	0.00	0.00
Trachyphyllia (TRACH)	0.00	0.00
Tubastrea (TUBA)	0.51	0.51
Turbinaria (TURBU)	1.35	1.35
Wellsophyllia (WELL)	0.00	0.00
Zoopilus (ZOO)	0.00	0.00
<b>NON SCLERACTINIAN CORAL (NSC)</b>		
Distichopora (DISTI)	0.00	0.00
Helipora (HELI)	0.00	0.00
Millepora (MILLE)	0.00	0.00
Stylaster (STYLA)	0.00	0.00
Tubipora (TUBI)	0.00	0.00
<b>RECENT DEAD CORAL (DC)</b>		
Recently Dead Coral (DC)	2.04	2.04
<b>DEAD CORAL WITH ALGAE (DCA)</b>		
Dead Coral with Algae (DCA)	57.65	57.65

<b>SUBCATEGORIES (% of transect)</b>	<b>MEAN</b>		
<b>DEAD CORAL WITH ALGAE (DCA)</b>			
Turf Algae (TA)	1.94		1.94
<b>SOFT CORAL (SC)</b>			
Soft Coral (SC)	0.07		0.07
<b>SPONGE (SP)</b>			
Sponge (SP)	0.61		0.61
<b>FLESHY SEAWEED (FS)</b>			
Algal Assemblage (AA)	0.00		0.00
Makro Algae (MA)	0.00		0.00
<b>OTHER BIOTA (OT)</b>			
Coralline Algae (CA)	0.02		0.02
Halimeda (HA)	0.00		0.00
Other (Fauna) (OT)	0.57		0.57
Zoanthid (ZO)	0.00		0.00
<b>RUBBLE (R)</b>			
Rubble (R)	2.22		2.22
<b>SAND (S)</b>			
Sand (S)	11.58		11.58
<b>SILT (SI)</b>			
Silt (SI)	0.00		0.00
<b>ROCK (RK)</b>			
Rock (RK)	0.00		0.00
<b>TAPE, WAND, SHADOW (TWS)</b>			
Tape, Wand, Shadow (TWS)	2.00		2.00
<hr/>			
<b>MAJOR CATEGORY (occurring in transect)</b>		<b>SUMS</b>	<b>MEAN</b>
CORAL (HC)	1384	1384	1384.00
NON SCLERACTINIAN CORAL (NSC)	0	0	0.00
RECENT DEAD CORAL (DC)	121	121	121.00
DEAD CORAL WITH ALGAE (DCA)	3539	3539	3539.00
SOFT CORAL (SC)	4	4	4.00
SPONGE (SP)	36	36	36.00
FLESHY SEAWEED (FS)	0	0	0.00
OTHER BIOTA (OT)	35	35	35.00
RUBBLE (R)	132	132	132.00
SAND (S)	688	688	688.00
SILT (SI)	0	0	0.00
ROCK (RK)	0	0	0.00
TAPE, WAND, SHADOW (TWS)	121	121	121.00
<b>TOTAL TRANSECT POINTS</b>	<b>6060</b>	<b>6060</b>	

<b>SUBCATEGORIES (occurring in transect)</b>	<b>SUMS</b>	<b>MEAN</b>
<b>CORAL (HC)</b>		
Acanthastrea (ACANT)	0	0.00
Acropora (ACRO)	247	247.00
Alveopora (ALVEO)	12	12.00
Anacropora (ANAC)	0	0.00
Astreopora (ASTRE)	0	0.00
Australogyra (AUSTR)	0	0.00
Australomussa (AUST)	0	0.00
Barabattoia (BARAB)	0	0.00
Blastomussa (BLAST)	0	0.00
Catalaphyllia (CATAL)	0	0.00
Caulastrea (CAULA)	0	0.00
Coeloseris (COELO)	0	0.00
Coral Bleaching (CB)	1	1.00
Coscinaraea (COSCI)	0	0.00
Ctenactis (CTENA)	0	0.00
Cycloseris (CYCLO)	0	0.00
Cynarina (CYNA)	0	0.00
Cyphastrea (CYPH)	0	0.00
Diaseris (DIASE)	0	0.00
Diploastrea (DIPLO)	6	6.00
Echinophyllia (ECHI)	1	1.00
Echinopora (ECHIN)	0	0.00
Euphyllia (EUPH)	0	0.00
Favia (FAVIA)	1	1.00
Favites (FAVIT)	0	0.00
Fungia (FUNGI)	4	4.00
Galaxea (GALAX)	6	6.00
Gardineroseris (GARDI)	0	0.00
Goniastrea (GONIA)	63	63.00
Goniopora (GONI)	17	17.00
Halomitra (HALO)	0	0.00
Heliofungia (HELIO)	0	0.00
Herpolitha (HERPO)	0	0.00
Heterocyathus (HETE)	0	0.00
Heterospsammia (HETER)	0	0.00
Hydnophora (HYDNO)	0	0.00
Leptastrea (LEPTA)	20	20.00
Leptoria (LEPT)	114	114.00
Leptosera (LEPTO)	262	262.00
Lithophyllon (LITHO)	0	0.00

<b>SUBCATEGORIES (occurring in transect)</b>	<b>SUMS</b>	<b>MEAN</b>
<b>CORAL (HC)</b>		
Lobophyllia (LOBO)	0	0.00
Madracis (MADRA)	0	0.00
Merulina (MERU)	0	0.00
Montastrea (MONTA)	7	7.00
Montipora (MONTI)	29	29.00
Mycedium (MYCE)	0	0.00
Nemenezophyllia (NEMEN)	0	0.00
Oulastrea (OULA)	0	0.00
Oulophyllia (OULO)	1	1.00
Oxypora (OXY)	0	0.00
Pachyseris (PACH)	96	96.00
Palauastrea (PALAU)	0	0.00
Paraclavarina (PARA)	0	0.00
Pavona (PAVON)	18	18.00
Pectinia (PECTI)	7	7.00
Physogra (PHYS)	0	0.00
Playgyra (PLATY)	2	2.00
Plerogyra (PLERO)	0	0.00
Plesiastrea (PLESI)	0	0.00
Pocillopora (POCILL)	10	10.00
Podabacia (PODA)	0	0.00
Polyphyllia (POLY)	0	0.00
Porites (PORI)	198	198.00
Psammocora (PSAMM)	115	115.00
Pseudosiderastrea (PSEU)	0	0.00
Sandalolotha (SANDA)	0	0.00
Scapophyllia (SCAPO)	0	0.00
Scolymia (SCOLY)	0	0.00
Seriatopora (SERIA)	36	36.00
Stylocoeniella (STYLO)	1	1.00
Stylopora (STYL)	0	0.00
Symphyllia (SYMP)	0	0.00
Trachyphyllia (TRACH)	0	0.00
Tubastrea (TUBA)	30	30.00
Turbinaria (TURBU)	80	80.00
Wellsophyllia (WELL)	0	0.00
Zoopilus (ZOO)	0	0.00
<b>NON SCLERACTINIAN CORAL (NSC)</b>		
Distichopora (DISTI)	0	0.00
Helipora (HELI)	0	0.00

<b>SUBCATEGORIES (occurring in transect)</b>	<b>SUMS</b>	<b>MEAN</b>
<b>NON SCLERACTINIAN CORAL (NSC)</b>		
Millepora (MILLE)	0	0.00
Stylaster (STYLA)	0	0.00
Tubipora (TUBI)	0	0.00
<b>RECENT DEAD CORAL (DC)</b>		
Recently Dead Coral (DC)	121	121.00
<b>DEAD CORAL WITH ALGAE (DCA)</b>		
Dead Coral with Algae (DCA)	3424	3424.00
Turf Algae (TA)	115	115.00
<b>SOFT CORAL (SC)</b>		
Soft Coral (SC)	4	4.00
<b>SPONGE (SP)</b>		
Sponge (SP)	36	36.00
<b>FLESHY SEAWEED (FS)</b>		
Algal Assemblage (AA)	0	0.00
Makro Algae (MA)	0	0.00
<b>OTHER BIOTA (OT)</b>		
Coralline Algae (CA)	1	1.00
Halimeda (HA)	0	0.00
Other (Fauna) (OT)	34	34.00
Zoanthid (ZO)	0	0.00
<b>RUBBLE (R)</b>		
Rubble (R)	132	132.00
<b>SAND (S)</b>		
Sand (S)	688	688.00
<b>SILT (SI)</b>		
Silt (SI)	0	0.00
<b>ROCK (RK)</b>		
Rock (RK)	0	0.00
<b>TAPE, WAND, SHADOW (TWS)</b>		
Tape, Wand, Shadow (TWS)	121	121.00

<b>RESULTS SUMMARY CHART</b>	<b># Points</b>	<b>%</b>	<b>SW Index</b>	<b>Simpson (1-D)</b>
CORAL (HC)	1384	23.30	2.46	0.89
NON SCLERACTINIAN CORAL (NSC)	0	0.00	0.00	1.00
RECENT DEAD CORAL (DC)	121	2.04	0.00	0.00
DEAD CORAL WITH ALGAE (DCA)	3539	59.59	0.14	0.06
SOFT CORAL (SC)	4	0.07	0.00	0.00
SPONGE (SP)	36	0.61	0.00	0.00
FLESHY SEAWEED (FS)	0	0.00	0.00	1.00
OTHER BIOTA (OT)	35	0.59	0.13	0.06
RUBBLE (R)	132	2.22	0.00	0.00
SAND (S)	688	11.58	0.00	0.00
SILT (SI)	0	0.00	0.00	1.00
ROCK (RK)	0	0.00	0.00	1.00
TAPE, WAND, SHADOW (TWS)	121	2.00		
<b>TOTALS</b>	<b>6060</b>	<b>100.00</b>		

<b>CATEGORIES</b>	<b># Points</b>	<b>%</b>	<b>SW Index</b>	<b>Simpson (1-D)</b>
<b>Coral</b>				
Acanthastrea (ACANT)	0	0.00	0.00	0.00
Acropora (ACRO)	247	4.16	0.31	0.03
Alveopora (ALVEO)	12	0.20	0.04	0.00
Anacropora (ANAC)	0	0.00	0.00	0.00
Astreopora (ASTRE)	0	0.00	0.00	0.00
Australogyra (AUSTR)	0	0.00	0.00	0.00
Australomussa (AUST)	0	0.00	0.00	0.00
Barabattoia (BARAB)	0	0.00	0.00	0.00
Blastomussa (BLAST)	0	0.00	0.00	0.00
Catalaphyllia (CATAL)	0	0.00	0.00	0.00
Caulastrea (CAULA)	0	0.00	0.00	0.00
Coeloseris (COELO)	0	0.00	0.00	0.00
Coral Bleaching (CB)	1	0.02	0.01	0.00
Coscinaeaea (COSCI)	0	0.00	0.00	0.00
Ctenactis (CTENA)	0	0.00	0.00	0.00
Cycloseris (CYCLO)	0	0.00	0.00	0.00
Cynarina (CYNA)	0	0.00	0.00	0.00
Cyphastrea (CYPH)	0	0.00	0.00	0.00
Diaseris (DIASE)	0	0.00	0.00	0.00
Diploastrea (DIPLO)	6	0.10	0.02	0.00

<b>CATEGORIES</b>	<b># Points</b>	<b>%</b>	<b>SW Index</b>	<b>Simpson (1-D)</b>
<b>Coral</b>				
Echinophyllia (ECHI)	1	0.02	0.01	0.00
Echinopora (ECHIN)	0	0.00	0.00	0.00
Euphyllia (EUPH)	0	0.00	0.00	0.00
Favia (FAVIA)	1	0.02	0.01	0.00
Favites (FAVIT)	0	0.00	0.00	0.00
Fungia (FUNGI)	4	0.07	0.02	0.00
Galaxea (GALAX)	6	0.10	0.02	0.00
Gardineroseris (GARDI)	0	0.00	0.00	0.00
Goniastrea (GONIA)	63	1.06	0.14	0.00
Goniopora (GONI)	17	0.29	0.05	0.00
Halomitra (HALO)	0	0.00	0.00	0.00
Heliofungia (HELIO)	0	0.00	0.00	0.00
Herpolitha (HERPO)	0	0.00	0.00	0.00
Heterocyathus (HETE)	0	0.00	0.00	0.00
Heterospsammia (HETER)	0	0.00	0.00	0.00
Hydnophora (HYDNO)	0	0.00	0.00	0.00
Leptastrea (LEPTA)	20	0.34	0.06	0.00
Leptoria (LEPT)	114	1.92	0.21	0.01
Leptosera (LEPTO)	262	4.41	0.32	0.04
Lithophyllon (LITHO)	0	0.00	0.00	0.00
Lobophyllia (LOBO)	0	0.00	0.00	0.00
Madracis (MADRA)	0	0.00	0.00	0.00
Merulina (MERU)	0	0.00	0.00	0.00
Montastrea (MONTA)	7	0.12	0.03	0.00
Montipora (MONTI)	29	0.49	0.08	0.00
Mycedium (MYCE)	0	0.00	0.00	0.00
Nemenezophyllia (NEMEN)	0	0.00	0.00	0.00
Oulastrea (OULA)	0	0.00	0.00	0.00
Oulophyllia (OULO)	1	0.02	0.01	0.00
Oxypora (OXY)	0	0.00	0.00	0.00
Pachyseris (PACH)	96	1.62	0.19	0.00
Palauastrea (PALAU)	0	0.00	0.00	0.00
Paraclavarina (PARA)	0	0.00	0.00	0.00
Pavona (PAVON)	18	0.30	0.06	0.00
Pectinia (PECTI)	7	0.12	0.03	0.00
Physogra (PHYS)	0	0.00	0.00	0.00
Playgyra (PLATY)	2	0.03	0.01	0.00
Plerogyra (PLERO)	0	0.00	0.00	0.00
Plesiastrea (PLESI)	0	0.00	0.00	0.00

<b>CATEGORIES</b>	<b># Points</b>	<b>%</b>	<b>SW Index</b>	<b>Simpson (1-D)</b>
<b>Coral</b>				
Pocillopora (POCILL)	10	0.17	0.04	0.00
Podabacia (PODA)	0	0.00	0.00	0.00
Polyphyllia (POLY)	0	0.00	0.00	0.00
Porites (PORI)	198	3.33	0.28	0.02
Psammocora (PSAMM)	115	1.94	0.21	0.01
Pseudosiderastrea (PSEU)	0	0.00	0.00	0.00
Sandalolotha (SANDA)	0	0.00	0.00	0.00
Scapophyllia (SCAPO)	0	0.00	0.00	0.00
Scolymia (SCOLY)	0	0.00	0.00	0.00
Seriatopora (SERIA)	36	0.61	0.09	0.00
Stylocoeniella (STYLO)	1	0.02	0.01	0.00
Stylopora (STYL)	0	0.00	0.00	0.00
Symphyllia (SYMP)	0	0.00	0.00	0.00
Trachyphyllia (TRACH)	0	0.00	0.00	0.00
Tubastrea (TUBA)	30	0.51	0.08	0.00
Turbinaria (TURBU)	80	1.35	0.16	0.00
Wellsophyllia (WELL)	0	0.00	0.00	0.00
Zoopilus (ZOO)	0	0.00	0.00	0.00
<b>Non Scleractinian Coral</b>				
Distichopora (DISTI)	0	0.00	0.00	0.00
Helipora (HELI)	0	0.00	0.00	0.00
Millepora (MILLE)	0	0.00	0.00	0.00
Stylaster (STYLA)	0	0.00	0.00	0.00
Tubipora (TUBI)	0	0.00	0.00	0.00
<b>Recent Dead Coral</b>				
Recently Dead Coral (DC)	121	2.04	0.00	1.00
<b>Dead Coral with Algae</b>				
Dead Coral with Algae (DCA)	3424	57.65	0.03	0.94
Turf Algae (TA)	115	1.94	0.11	0.00
<b>Soft Coral</b>				
Soft Coral (SC)	4	0.07	0.00	1.00
<b>Sponge</b>				
Sponge (SP)	36	0.61	0.00	1.00
<b>Fleshy Seaweed</b>				
Algal Assemblage (AA)	0	0.00	0.00	0.00
Makro Algae (MA)	0	0.00	0.00	0.00
<b>Other Biota</b>				
Coralline Algae (CA)	1	0.02	0.10	0.00
Halimeda (HA)	0	0.00	0.00	0.00

<b>CATEGORIES</b>	<b># Points</b>	<b>%</b>	<b>SW Index</b>	<b>Simpson (1-D)</b>
<b>Other Biota</b>				
Other (Fauna) (OT)	34	0.57	0.03	0.94
Zoanthid (ZO)	0	0.00	0.00	0.00
<b>Rubble</b>				
Rubble (R)	132	2.22	0.00	1.00
<b>Sand</b>				
Sand (S)	688	11.58	0.00	1.00
<b>Silt</b>				
Silt (SI)	0	0.00	0.00	0.00
<b>Rock</b>				
Rock (RK)	0	0.00	0.00	0.00
<b>Tape, Wand, Shadow</b>				
Tape, Wand, Shadow (TWS)	121	2.00		1.00
Total pts. minus (tape+wand+shadow):	5939.00	100.00		

Lampiran 3. Data Penutupan Karang di Stasiun Karang Ponpon Berdasarkan

Analisis CPCe

*Project* : Keanekaragaman dan Penutupan Terumbu Karang Pantai Pasir Putih Situbondo

*Lokasi* : Stasiun 3 Karang Ponpon

*Analysis date* : 13 April 2016 - 20 April 2016

*Analysis by* : Sandy Aprian Saputra

<b>TRANSECT NAME</b>	<b>S3KP</b>	
<b>Number of frames</b>	<b>198</b>	
<b>Total points</b>	<b>5938</b>	
<b>Total points (minus tape+wand+shadow)</b>	<b>5864</b>	
<b>MAJOR CATEGORY (% of transect)</b>	<b>MEAN</b>	
CORAL (HC)	27.47	27.47
NON SCLERACTINIAN CORAL (NSC)	0.00	0.00
RECENT DEAD CORAL (DC)	0.97	0.97
DEAD CORAL WITH ALGAE (DCA)	47.37	47.37
SOFT CORAL (SC)	0.00	0.00
SPONGE (SP)	0.19	0.19
FLESHY SEAWEED (FS)	0.00	0.00
OTHER BIOTA (OT)	0.14	0.14
RUBBLE (R)	6.75	6.75
SAND (S)	17.10	17.10
SILT (SI)	0.00	0.00
ROCK (RK)	0.00	0.00
TAPE, WAND, SHADOW (TWS)	1.25	1.25
Sum (excluding tape+shadow+wand)	100.00	
<b>SUBCATEGORIES (% of transect)</b>	<b>MEAN</b>	
<b>CORAL (HC)</b>		
Acanthastrea (ACANT)	0.00	0.00
Acropora (ACRO)	6.21	6.21
Alveopora (ALVEO)	0.00	0.00
Anacropora (ANAC)	0.03	0.03
Astreopora (ASTRE)	0.00	0.00
Australogyra (AUSTR)	0.00	0.00
Australomussa (AUST)	0.00	0.00

<b>SUBCATEGORIES (% of transect)</b>		<b>MEAN</b>
<b>CORAL (HC)</b>		
Barabattoia (BARAB)	0.00	0.00
Blastomussa (BLAST)	0.00	0.00
Catalaphyllia (CATAL)	0.00	0.00
Caulastrea (CAULA)	0.00	0.00
Coeloseris (COELO)	0.00	0.00
Coral Bleaching (CB)	0.00	0.00
Coscinaraea (COSCI)	0.00	0.00
Ctenactis (CTENA)	0.00	0.00
Cycloseris (CYCLO)	0.00	0.00
Cynarina (CYNA)	0.00	0.00
Cyphastrea (CYPH)	0.00	0.00
Diaseris (DIASE)	0.00	0.00
Diploastrea (DIPLO)	0.34	0.34
Echinophyllia (ECHI)	0.00	0.00
Echinopora (ECHIN)	0.00	0.00
Euphyllia (EUPH)	0.00	0.00
Favia (FAVIA)	0.00	0.00
Favites (FAVIT)	0.00	0.00
Fungia (FUNGI)	0.05	0.05
Galaxea (GALAX)	0.00	0.00
Gardineroseris (GARDI)	0.00	0.00
Goniastrea (GONIA)	2.22	2.22
Goniopora (GONI)	0.00	0.00
Halomitra (HALO)	0.00	0.00
Heliofungia (HELIO)	0.00	0.00
Herpolitha (HERPO)	0.00	0.00
Heterocyathus (HETE)	0.00	0.00
Heterospsammia (HETER)	0.00	0.00
Hydnophora (HYDNO)	0.00	0.00
Leptastrea (LEPTA)	0.00	0.00
Leptoria (LEPT)	2.88	2.88
Leptosera (LEPTO)	1.45	1.45
Lithophyllon (LITHO)	0.00	0.00
Lobophyllia (LOBO)	0.00	0.00
Madracis (MADRA)	0.00	0.00
Merulina (MERU)	0.00	0.00
Montastrea (MONTA)	0.00	0.00
Montipora (MONTI)	1.91	1.91
Mycedium (MYCE)	0.00	0.00
Nemenezophyllia (NEMEN)	0.00	0.00

<b>SUBCATEGORIES (% of transect)</b>		<b>MEAN</b>
<b>CORAL (HC)</b>		
Oulastrea (OULA)	0.00	0.00
Oulophyllia (OULO)	0.00	0.00
Oxypora (OXY)	0.00	0.00
Pachyseris (PACH)	0.67	0.67
Palauastrea (PALAU)	0.00	0.00
Paraclavarina (PARA)	0.00	0.00
Pavona (PAVON)	0.03	0.03
Pectinia (PECTI)	0.02	0.02
Physogra (PHYS)	0.00	0.00
Playgyra (PLATY)	0.00	0.00
Plerogyra (PLERO)	0.00	0.00
Plesiastrea (PLESI)	0.00	0.00
Pocillopora (POCILL)	0.00	0.00
Podabacia (PODA)	0.00	0.00
Polyphyllia (POLY)	0.00	0.00
Porites (PORI)	9.50	9.50
Psammocora (PSAMM)	1.79	1.79
Pseudosiderastrea (PSEU)	0.00	0.00
Sandalolotha (SANDA)	0.00	0.00
Scapophyllia (SCAPO)	0.00	0.00
Scolymia (SCOLY)	0.00	0.00
Seriatopora (SERIA)	0.36	0.36
Stylocoeniella (STYLO)	0.00	0.00
Stylopora (STYL)	0.02	0.02
Symphyllia (SYMP)	0.00	0.00
Trachyphyllia (TRACH)	0.00	0.00
Tubastrea (TUBA)	0.00	0.00
Turbinaria (TURBU)	0.00	0.00
Wellsophyllia (WELL)	0.00	0.00
Zoopilus (ZOO)	0.00	0.00
<b>NON SCLERACTINIAN CORAL (NSC)</b>		
Distichopora (DISTI)	0.00	0.00
Helipora (HELI)	0.00	0.00
Millepora (MILLE)	0.00	0.00
Stylaster (STYLA)	0.00	0.00
Tubipora (TUBI)	0.00	0.00
<b>RECENT DEAD CORAL (DC)</b>		
Recently Dead Coral (DC)	0.97	0.97
<b>DEAD CORAL WITH ALGAE (DCA)</b>		
Dead Coral with Algae (DCA)	47.08	47.08

<b>SUBCATEGORIES (% of transect)</b>	<b>MEAN</b>		
<b>DEAD CORAL WITH ALGAE (DCA)</b>			
Turf Algae (TA)	0.29		0.29
<b>SOFT CORAL (SC)</b>			
Soft Coral (SC)	0.00		0.00
<b>SPONGE (SP)</b>			
Sponge (SP)	0.19		0.19
<b>FLESHY SEAWEED (FS)</b>			
Algal Assemblage (AA)	0.00		0.00
Makro Algae (MA)	0.00		0.00
<b>OTHER BIOTA (OT)</b>			
Coralline Algae (CA)	0.00		0.00
Halimeda (HA)	0.00		0.00
Other (Fauna) (OT)	0.14		0.14
Zoanthid (ZO)	0.00		0.00
<b>RUBBLE (R)</b>			
Rubble (R)	6.75		6.75
<b>SAND (S)</b>			
Sand (S)	17.10		17.10
<b>SILT (SI)</b>			
Silt (SI)	0.00		0.00
<b>ROCK (RK)</b>			
Rock (RK)	0.00		0.00
<b>TAPE, WAND, SHADOW (TWS)</b>			
Tape, Wand, Shadow (TWS)	1.25		1.25
<hr/>			
<b>MAJOR CATEGORY (occurring in transect)</b>	<b>SUMS</b>	<b>MEAN</b>	
CORAL (HC)	1611	1611	1611.00
NON SCLERACTINIAN CORAL (NSC)	0	0	0.00
RECENT DEAD CORAL (DC)	57	57	57.00
DEAD CORAL WITH ALGAE (DCA)	2778	2778	2778.00
SOFT CORAL (SC)	0	0	0.00
SPONGE (SP)	11	11	11.00
FLESHY SEAWEED (FS)	0	0	0.00
OTHER BIOTA (OT)	8	8	8.00
RUBBLE (R)	396	396	396.00
SAND (S)	1003	1003	1003.00
SILT (SI)	0	0	0.00
ROCK (RK)	0	0	0.00
TAPE, WAND, SHADOW (TWS)	74	74	74.00
<b>TOTAL TRANSECT POINTS</b>	<b>5938</b>	<b>5938</b>	

<b>SUBCATEGORIES (occurring in transect)</b>	<b>SUMS</b>	<b>MEAN</b>
<b>CORAL (HC)</b>		
Acanthastrea (ACANT)	0	0.00
Acropora (ACRO)	364	364.00
Alveopora (ALVEO)	0	0.00
Anacropora (ANAC)	2	2.00
Astreopora (ASTRE)	0	0.00
Australogyra (AUSTR)	0	0.00
Australomussa (AUST)	0	0.00
Barabattoia (BARAB)	0	0.00
Blastomussa (BLAST)	0	0.00
Catalaphyllia (CATAL)	0	0.00
Caulastrea (CAULA)	0	0.00
Coeloseris (COELO)	0	0.00
Coral Bleaching (CB)	0	0.00
Coscinaraea (COSCI)	0	0.00
Ctenactis (CTENA)	0	0.00
Cycloseris (CYCLO)	0	0.00
Cynarina (CYNA)	0	0.00
Cyphastrea (CYPH)	0	0.00
Diaseris (DIASE)	0	0.00
Diploastrea (DIPLO)	20	20.00
Echinophyllia (ECHI)	0	0.00
Echinopora (ECHIN)	0	0.00
Euphyllia (EUPH)	0	0.00
Favia (FAVIA)	0	0.00
Favites (FAVIT)	0	0.00
Fungia (FUNGI)	3	3.00
Galaxea (GALAX)	0	0.00
Gardineroseris (GARDI)	0	0.00
Goniastrea (GONIA)	130	130.00
Goniopora (GONI)	0	0.00
Halomitra (HALO)	0	0.00
Heliofungia (HELIO)	0	0.00
Herpolitha (HERPO)	0	0.00
Heterocyathus (HETE)	0	0.00
Heterospsammia (HETER)	0	0.00
Hydnophora (HYDNO)	0	0.00
Leptastrea (LEPTA)	0	0.00
Leptoria (LEPT)	169	169.00
Leptosera (LEPTO)	85	85.00
Lithophyllon (LITHO)	0	0.00

<b>SUBCATEGORIES (occurring in transect)</b>	<b>SUMS</b>	<b>MEAN</b>
<b>CORAL (HC)</b>		
Lobophyllia (LOBO)	0	0.00
Madracis (MADRA)	0	0.00
Merulina (MERU)	0	0.00
Montastrea (MONTA)	0	0.00
Montipora (MONTI)	112	112.00
Mycedium (MYCE)	0	0.00
Nemenezophyllia (NEMEN)	0	0.00
Oulastrea (OULA)	0	0.00
Oulophyllia (OULO)	0	0.00
Oxypora (OXY)	0	0.00
Pachyseris (PACH)	39	39.00
Palauastrea (PALAU)	0	0.00
Paraclavarina (PARA)	0	0.00
Pavona (PAVON)	2	2.00
Pectinia (PECTI)	1	1.00
Physogra (PHYS)	0	0.00
Playgyra (PLATY)	0	0.00
Plerogyra (PLERO)	0	0.00
Plesiastrea (PLESI)	0	0.00
Pocillopora (POCILL)	0	0.00
Podabacia (PODA)	0	0.00
Polyphyllia (POLY)	0	0.00
Porites (PORI)	557	557.00
Psammocora (PSAMM)	105	105.00
Pseudosiderastrea (PSEU)	0	0.00
Sandalolotha (SANDA)	0	0.00
Scapophyllia (SCAPO)	0	0.00
Scolymia (SCOLY)	0	0.00
Seriatopora (SERIA)	21	21.00
Stylocoeniella (STYLO)	0	0.00
Stylopora (STYL)	1	1.00
Symphyllia (SYMP)	0	0.00
Trachyphyllia (TRACH)	0	0.00
Tubastrea (TUBA)	0	0.00
Turbinaria (TURBU)	0	0.00
Wellsophyllia (WELL)	0	0.00
Zoopilus (ZOO)	0	0.00
<b>NON SCLERACTINIAN CORAL (NSC)</b>		
Distichopora (DISTI)	0	0.00
Helipora (HELI)	0	0.00

<b>SUBCATEGORIES (occurring in transect)</b>	<b>SUMS</b>	<b>MEAN</b>
<b>NON SCLERACTINIAN CORAL (NSC)</b>		
Millepora (MILLE)	0	0.00
Stylaster (STYLA)	0	0.00
Tubipora (TUBI)	0	0.00
<b>RECENT DEAD CORAL (DC)</b>		
Recently Dead Coral (DC)	57	57.00
<b>DEAD CORAL WITH ALGAE (DCA)</b>		
Dead Coral with Algae (DCA)	2761	2761.00
Turf Algae (TA)	17	17.00
<b>SOFT CORAL (SC)</b>		
Soft Coral (SC)	0	0.00
<b>SPONGE (SP)</b>		
Sponge (SP)	11	11.00
<b>FLESHY SEAWEED (FS)</b>		
Algal Assemblage (AA)	0	0.00
Makro Algae (MA)	0	0.00
<b>OTHER BIOTA (OT)</b>		
Coralline Algae (CA)	0	0.00
Halimeda (HA)	0	0.00
Other (Fauna) (OT)	8	8.00
Zoanthid (ZO)	0	0.00
<b>RUBBLE (R)</b>		
Rubble (R)	396	396.00
<b>SAND (S)</b>		
Sand (S)	1003	1003.00
<b>SILT (SI)</b>		
Silt (SI)	0	0.00
<b>ROCK (RK)</b>		
Rock (RK)	0	0.00
<b>TAPE, WAND, SHADOW (TWS)</b>		
Tape, Wand, Shadow (TWS)	74	74.00

<b>RESULTS SUMMARY CHART</b>	<b># Points</b>	<b>%</b>	<b>SW Index</b>	<b>Simpson (1-D)</b>
CORAL (HC)	1611	27.47	1.90	0.80
NON SCLERACTINIAN CORAL (NSC)	0	0.00	0.00	1.00
RECENT DEAD CORAL (DC)	57	0.97	0.00	0.00
DEAD CORAL WITH ALGAE (DCA)	2778	47.37	0.04	0.01
SOFT CORAL (SC)	0	0.00	0.00	1.00
SPONGE (SP)	11	0.19	0.00	0.00
FLESHY SEAWEED (FS)	0	0.00	0.00	1.00
OTHER BIOTA (OT)	8	0.14	0.00	0.00
RUBBLE (R)	396	6.75	0.00	0.00
SAND (S)	1003	17.10	0.00	0.00
SILT (SI)	0	0.00	0.00	1.00
ROCK (RK)	0	0.00	0.00	1.00
TAPE, WAND, SHADOW (TWS)	74	1.25		
<b>TOTALS</b>	<b>5938</b>	<b>100.00</b>		

<b>CATEGORIES</b>	<b># Points</b>	<b>%</b>	<b>SW Index</b>	<b>Simpson (1-D)</b>
<b>Coral</b>				
Acanthastrea (ACANT)	0	0.00	0.00	0.00
Acropora (ACRO)	364	6.21	0.34	0.05
Alveopora (ALVEO)	0	0.00	0.00	0.00
Anacropora (ANAC)	2	0.03	0.01	0.00
Astreopora (ASTRE)	0	0.00	0.00	0.00
Australogyra (AUSTR)	0	0.00	0.00	0.00
Australomussa (AUST)	0	0.00	0.00	0.00
Barabattoia (BARAB)	0	0.00	0.00	0.00
Blastomussa (BLAST)	0	0.00	0.00	0.00
Catalaphyllia (CATAL)	0	0.00	0.00	0.00
Caulastrea (CAULA)	0	0.00	0.00	0.00
Coeloseris (COELO)	0	0.00	0.00	0.00
Coral Bleaching (CB)	0	0.00	0.00	0.00
Coscinaeaea (COSCI)	0	0.00	0.00	0.00
Ctenactis (CTENA)	0	0.00	0.00	0.00
Cycloseris (CYCLO)	0	0.00	0.00	0.00
Cynarina (CYNA)	0	0.00	0.00	0.00
Cyphastrea (CYPH)	0	0.00	0.00	0.00
Diaseris (DIASE)	0	0.00	0.00	0.00
Diploastrea (DIPLO)	20	0.34	0.05	0.00

<b>CATEGORIES</b>	<b># Points</b>	<b>%</b>	<b>SW Index</b>	<b>Simpson (1-D)</b>
<b>Coral</b>				
Echinophyllia (ECHI)	0	0.00	0.00	0.00
Echinopora (ECHIN)	0	0.00	0.00	0.00
Euphyllia (EUPH)	0	0.00	0.00	0.00
Favia (FAVIA)	0	0.00	0.00	0.00
Favites (FAVIT)	0	0.00	0.00	0.00
Fungia (FUNGI)	3	0.05	0.01	0.00
Galaxea (GALAX)	0	0.00	0.00	0.00
Gardineroseris (GARDI)	0	0.00	0.00	0.00
Goniastrea (GONIA)	130	2.22	0.20	0.01
Goniopora (GONI)	0	0.00	0.00	0.00
Halomitra (HALO)	0	0.00	0.00	0.00
Heliofungia (HELIO)	0	0.00	0.00	0.00
Herpolitha (HERPO)	0	0.00	0.00	0.00
Heterocyathus (HETE)	0	0.00	0.00	0.00
Heterospsammia (HETER)	0	0.00	0.00	0.00
Hydnophora (HYDNO)	0	0.00	0.00	0.00
Leptastrea (LEPTA)	0	0.00	0.00	0.00
Leptoria (LEPT)	169	2.88	0.24	0.01
Leptosera (LEPTO)	85	1.45	0.16	0.00
Lithophyllon (LITHO)	0	0.00	0.00	0.00
Lobophyllia (LOBO)	0	0.00	0.00	0.00
Madracis (MADRA)	0	0.00	0.00	0.00
Merulina (MERU)	0	0.00	0.00	0.00
Montastrea (MONTA)	0	0.00	0.00	0.00
Montipora (MONTI)	112	1.91	0.19	0.00
Mycedium (MYCE)	0	0.00	0.00	0.00
Nemenezophyllia (NEMEN)	0	0.00	0.00	0.00
Oulastrea (OULA)	0	0.00	0.00	0.00
Oulophyllia (OULO)	0	0.00	0.00	0.00
Oxypora (OXY)	0	0.00	0.00	0.00
Pachyseris (PACH)	39	0.67	0.09	0.00
Palauastrea (PALAU)	0	0.00	0.00	0.00
Paraclavarina (PARA)	0	0.00	0.00	0.00
Pavona (PAVON)	2	0.03	0.01	0.00
Pectinia (PECTI)	1	0.02	0.00	0.00
Physogra (PHYS)	0	0.00	0.00	0.00
Playgyra (PLATY)	0	0.00	0.00	0.00
Plerogyra (PLERO)	0	0.00	0.00	0.00
Plesiastrea (PLESI)	0	0.00	0.00	0.00

<b>CATEGORIES</b>	<b># Points</b>	<b>%</b>	<b>SW Index</b>	<b>Simpson (1-D)</b>
<b>Coral</b>				
Pocillopora (POCILL)	0	0.00	0.00	0.00
Podabacia (PODA)	0	0.00	0.00	0.00
Polyphyllia (POLY)	0	0.00	0.00	0.00
Porites (PORI)	557	9.50	0.37	0.12
Psammocora (PSAMM)	105	1.79	0.18	0.00
Pseudosiderastrea (PSEU)	0	0.00	0.00	0.00
Sandalolotha (SANDA)	0	0.00	0.00	0.00
Scapophyllia (SCAPO)	0	0.00	0.00	0.00
Scolymia (SCOLY)	0	0.00	0.00	0.00
Seriatopora (SERIA)	21	0.36	0.06	0.00
Stylocoeniella (STYLO)	0	0.00	0.00	0.00
Stylopora (STYL)	1	0.02	0.00	0.00
Symphyllia (SYMP)	0	0.00	0.00	0.00
Trachyphyllia (TRACH)	0	0.00	0.00	0.00
Tubastrea (TUBA)	0	0.00	0.00	0.00
Turbinaria (TURBU)	0	0.00	0.00	0.00
Wellsophyllia (WELL)	0	0.00	0.00	0.00
Zoopilus (ZOO)	0	0.00	0.00	0.00
<b>Non Scleractinian Coral</b>				
Distichopora (DISTI)	0	0.00	0.00	0.00
Helipora (HELI)	0	0.00	0.00	0.00
Millepora (MILLE)	0	0.00	0.00	0.00
Stylaster (STYLA)	0	0.00	0.00	0.00
Tubipora (TUBI)	0	0.00	0.00	0.00
<b>Recent Dead Coral</b>				
Recently Dead Coral (DC)	57	0.97	0.00	1.00
<b>Dead Coral with Algae</b>				
Dead Coral with Algae (DCA)	2761	47.08	0.01	0.99
Turf Algae (TA)	17	0.29	0.03	0.00
<b>Soft Coral</b>				
Soft Coral (SC)	0	0.00	0.00	0.00
<b>Sponge</b>				
Sponge (SP)	11	0.19	0.00	1.00
<b>Fleshy Seaweed</b>				
Algal Assemblage (AA)	0	0.00	0.00	0.00
Makro Algae (MA)	0	0.00	0.00	0.00
<b>Other Biota</b>				
Coralline Algae (CA)	0	0.00	0.00	0.00
Halimeda (HA)	0	0.00	0.00	0.00

<b>CATEGORIES</b>	<b># Points</b>	<b>%</b>	<b>SW Index</b>	<b>Simpson (1-D)</b>
<b>Coral</b>				
Other (Fauna) (OT)	8	0.14	0.00	1.00
Zoanthid (ZO)	0	0.00	0.00	0.00
<b>Rubble</b>				
Rubble (R)	396	6.75	0.00	1.00
<b>Sand</b>				
Sand (S)	1003	17.10	0.00	1.00
<b>Silt</b>				
Silt (SI)	0	0.00	0.00	0.00
<b>Rock</b>				
Rock (RK)	0	0.00	0.00	0.00
<b>Tape, Wand, Shadow</b>				
Tape, Wand, Shadow (TWS)	74	1.25		1.00
Total pts. minus (tape+wand+shadow):	5864.00	100.00		